Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280001 2001 UH_{156}	15.3	X	200.65849	123.89617	220.19183	15.45462	0.2252737	0.17261480	3.1946065	21	2 27.5	21.0
280002 2001 UT_{157}	16.7	X	126.16926	308.07593	69.44703	3.73631	0.1862739	0.26486293	2.4013489	21	1 22.4	19.7
280003 2001 UF_{163}	17.3	X	117.88396	186.50811	208.38028	1.91360	0.1850984	0.26535172	2.3983990	21	2 1.8	20.3
280004 2001 US_{171}	15.1	X	162.26876	141.24451	211.86117	20.65934	0.0423840	0.16828443	3.2491774	21	1 27.0	20.3
280005 2001 UP_{172}	17.2	X	135.94193	301.49049	76.54954	4.03228	0.1896707	0.26763207	2.3847560	21	2 4.2	20.5
280006 2001 US_{195}	18.3	X	271.39162	176.91069	148.96626	2.59969	0.2653529	0.28312719	2.2969330	21	3 27.5	21.7
280007 2001 US_{201}	15.8	X	136.30713	147.37891	238.72951	3.62209	0.1289991	0.16920518	3.2373795	21	2 19.5	20.7
280008 2001 UR_{224}	17.2	X	250.84149	50.11938	259.14214	3.86223	0.1727386	0.27540482	2.3396723	21	2 21.2	20.9
280009 2001 VM_{6}	17.0	X	89.52405	32.38611	5.22306	0.95773	0.0874743	0.26224965	2.4172752	21	—	—
280010 2001 VQ_{17}	17.5	X	190.92738	343.85506	9.89433	2.47280	0.2200074	0.27276647	2.3547351	21	2 27.2	21.3
280011 2001 VY_{53}	16.8	X	156.97587	133.99491	252.21999	5.07919	0.1648613	0.27085572	2.3657964	21	3 1.9	20.4
280012 2001 VR_{72}	17.2	X	29.72206	218.85057	225.15777	5.70256	0.0977886	0.26093836	2.4253668	21	—	—
280013 2001 VM_{76}	17.3	X	37.77713	204.90192	232.10719	19.07948	0.0954848	0.35879516	1.9614248	21	—	—
280014 2001 VK_{80}	15.3	X	227.75849	107.64946	229.91007	10.83741	0.2830520	0.17796487	3.1302560	21	3 10.7	21.0
280015 2001 VO_{89}	16.9	X	225.58026	239.16210	87.75108	3.97184	0.2204713	0.27430589	2.3459169	21	2 23.1	20.9
280016 2001 WZ_{1}	18.0	X	204.03250	281.65421	63.45492	24.56818	0.1818736	0.37248644	1.9130621	21	2 27.1	21.4
280017 2001 WC_{2}	15.0	X	151.49523	249.36022	263.16717	27.34636	0.3951072	0.22475732	2.6791282	21	8 4.5	20.7
280018 2001 WQ_{2}	17.6	X	201.02809	109.80429	229.27065	19.97676	0.0729507	0.36969451	1.9226816	21	1 18.4	20.3
280019 2001 WD_{7}	16.9	X	218.63277	102.24005	214.02804	5.56044	0.1513644	0.27029631	2.3690595	21	2 1.5	20.7
280020 2001 WE_{7}	17.2	X	266.86491	36.88996	82.24140	3.81109	0.2562009	0.24421242	2.5348808	21	10 16.6	20.3
280021 2001 WG_{13}	16.9	X	169.21652	270.88876	74.78408	5.10322	0.1522497	0.26756781	2.3851378	21	1 25.4	20.5
280022 2001 WP_{61}	15.5	X	319.26827	51.66199	244.84759	8.21098	0.0735650	0.17966257	3.1105056	21	5 22.3	19.6
280023 2001 WH_{101}	15.5	X	88.68123	132.06292	237.28740	8.98380	0.1117522	0.15766545	3.3934780	21	—	—
280024 2001 XP_{5}	15.7	X	41.40836	302.95238	101.11470	19.58331	0.2080718	0.20558269	2.8432279	21	—	—
280025 2001 XA_{38}	16.5	X	156.02641	10.73579	40.73933	11.85091	0.2188389	0.27153889	2.3618267	21	4 11.9	20.2
280026 2001 XA_{53}	17.0	X	74.96766	331.62256	79.56133	8.11432	0.1056596	0.25967434	2.4332311	21	—	—
280027 2001 XL_{124}	16.7	X	319.75680	67.39525	90.91595	7.58854	0.0536454	0.25831931	2.4417328	21	—	—
280028 2001 XO_{126}	17.4	X	140.82602	206.87975	157.56255	1.42940	0.2035194	0.26518838	2.3993838	21	1 23.9	20.8
280029 2001 XW_{131}	16.5	X	351.18290	213.86343	245.16234	4.09131	0.0424933	0.25409546	2.4687178	21	—	—
280030 2001 XS_{162}	17.1	X	86.01755	303.49536	94.68460	2.58693	0.1900171	0.25961935	2.4335746	21	—	—
280031 2001 XY_{174}	17.0	X	309.73280	296.85639	162.80503	0.63883	0.1537705	0.24569196	2.5246941	21	12 18.9	19.4
280032 2001 XT_{192}	15.8	X	197.72993	270.85833	282.85875	6.59234	0.1446075	0.23910530	2.5708491	21	11 12.9	19.7
280033 2001 XU_{205}	15.4	X	203.86661	193.05458	242.47410	16.35468	0.1899677	0.17949906	3.1123942	21	6 20.9	20.7
280034 2001 XC_{206}	15.0	X	218.63002	247.39210	94.44782	15.05942	0.2927401	0.17450363	3.1715123	21	3 20.2	20.9
280035 2001 XP_{225}	17.3	X	142.65832	323.66766	64.23527	3.30820	0.2379902	0.26795558	2.3828361	21	3 1.9	20.8
280036 2001 XV_{252}	16.3	X	120.25221	82.77735	104.27526	13.29212	0.1126151	0.22874194	2.6479240	21	8 23.2	20.4
280037 2001 YE_{67}	16.9	X	27.33524	343.34732	74.64911	9.14372	0.2385128	0.25279946	2.4771480	21	—	—
280038 2001 YH_{89}	16.6	X	219.60053	205.02096	311.91210	3.65806	0.1945526	0.23782684	2.5800540	21	10 15.0	20.5
280039 2001 YQ_{130}	17.3	X	168.97472	44.24199	55.65374	6.92818	0.2096637	0.27600976	2.3362524	21	6 21.2	21.2
280040 2001 YF_{138}	15.9	X	195.35224	164.63931	18.08085	12.60093	0.2030242	0.23862222	2.5743176	21	10 23.7	20.0
280041 2001 YJ_{149}	16.6	X	227.09882	16.76214	20.56646	5.95769	0.2515969	0.22921900	2.6442487	21	5 20.5	21.2
280042 2002 AB	16.3	X	222.51235	63.21009	64.36942	30.09249	0.3698831	0.23402293	2.6079370	21	9 16.9	21.6
280043 2002 AC_{37}	16.1	X	250.54238	14.02582	118.72375	6.12529	0.2403298	0.24074652	2.5591517	21	10 16.9	19.7
280044 2002 AT_{54}	16.5	X	206.26947	11.60713	195.66374	3.00756	0.0843966	0.24347437	2.5400009	21	12 17.5	20.0
280045 2002 AN_{61}	16.5	X	196.24656	23.49144	159.57667	5.36221	0.1646854	0.23531263	2.5983993	21	10 30.6	20.6
280046 2002 AX_{84}	16.2	X	239.80953	350.00021	174.56376	5.05961	0.1499598	0.24192455	2.5508373	21	11 25.1	19.6
280047 2002 AY_{123}	16.6	X	261.46570	20.76385	116.21835	7.41353	0.1125383	0.23996657	2.5646940	21	11 24.1	19.8
280048 2002 AT_{131}	17.1	X	131.48845	178.29467	284.15442	19.04749	0.0885718	0.37424974	1.9070484	21	4 18.9	19.7
280049 2002 AD_{136}	16.8	X	288.26475	354.13248	134.74884	3.94353	0.0762058	0.24563115	2.5251107	21	12 27.5	19.7
280050 2002 AO_{154}	16.7	X	271.02947	346.46261	126.47855	14.41521	0.1971679	0.23862257	2.5743151	21	10 27.9	20.1
280051 2002 BA_{12}	15.2	X	118.20957	250.88709	318.29911	8.73152	0.1971143	0.17631624	3.1497385	21	9 14.9	20.3
280052 2002 BJ_{13}	16.1	X	216.82308	117.87842	56.34745	8.16752	0.1451308	0.23787587	2.5796995	21	11 10.3	19.9
280053 2002 CL_{21}	17.5	X	191.49359	42.61645	132.75105	6.78876	0.2402747	0.23400159	2.6080956	21	10 13.6	22.0
280054 2002 CM_{30}	16.5	X	172.15008	177.32633	37.32989	5.05297	0.1608314	0.23633858	2.5908740	21	11 13.9	20.5
280055 2002 CW_{35}	16.2	X	239.91422	114.33081	20.76481	9.70303	0.1625807	0.23657215	2.5891684	21	10 14.6	19.6
280056 2002 CV_{54}	16.9	X	215.38325	12.95219	161.13596	5.57516	0.0952085	0.28744005	2.2738991	21	11 23.4	19.8
280057 2002 CS_{61}	16.7	X	242.79105	28.01686	106.04236	14.36069	0.1836939	0.23725110	2.5842264	21	10 21.4	20.6
280058 2002 CA_{72}	15.5	X	188.81055	59.40677	122.59428	10.13966	0.0876399	0.18492768	3.0511819	21	10 24.1	20.3
280059 2002 CG_{77}	16.6	X	213.14567	50.82629	114.23835	3.27315	0.1276238	0.23593952	2.5937946	21	10 28.4	20.4
280060 2002 CQ_{81}	16.9	X	229.77569	73.96467	131.77043	7.15098	0.1143969	0.29334897	2.2432603	21	—	—
280061 2002 CL_{96}	17.2	X	272.66754	43.92488	136.89011	6.05033	0.0868683	0.29606312	2.2295292	21	—	—
280062 2002 CH_{111}	16.7	X	223.58718	327.76435	153.16619	8.36665	0.1541204	0.23018400	2.6368532	21	9 9.7	20.7
280063 2002 CF_{115}	16.1	X	178.59521	107.73501	127.76568	18.00804	0.1181528	0.24164831	2.5527809	21	12 20.7	20.2
280064 2002 CY_{119}	17.2	X	239.35798	215.09720	279.62229	4.48956	0.2364238	0.23759314	2.5817456	21	10 1.8	21.2
280065 2002 CK_{125}	16.5	X	193.02946	77.78071	142.36789	4.86027	0.0557494	0.24080579	2.5587318	21	12 21.0	20.2
280066 2002 CB_{148}	16.6	X	155.63906	290.31121	314.26884	3.41878	0.1180277	0.23868033	2.5738998	21	12 6.4	20.6
280067 2002 CD_{150}	16.6	X	153.68351	136.83807	120.88144	6.74235	0.1330665	0.23889027	2.5723915	21	12 20.7	20.7
280068 2002 CU_{155}	17.0	X	251.23980	23.33467	87.71525	5.37822	0.2542478	0.23674297	2.5879229	21	9 17.3	20.8
280069 2002 CB_{156}	16.0	X	160.25541	231.72993	0.39102	9.10971	0.1129883	0.23750856	2.5823586	21	11 23.7	20.1
280070 2002 CR_{192}	16.9	X	260.40557	14.79015	108.75353	4.63844	0.1283767	0.23814925	2.5777250	21	11 2.1	20.1
280071 2002 CX_{215}	16.5	X	270.61848	345.34199	116.91934	4.49714	0.1058634	0.23538255	2.5978847	21	10 22.4	19.8
280072 2002 CL_{218}	12.9	X	306.35057	83.35421	351.14870	30.20994	0.0923416	0.08308947	5.2012218	21	10 3.9	19.7
280073 2002 CQ_{224}	17.0	X	128.98977	192.51216	35.41460	3.26550	0.1421215	0.22877298	2.6476845	21	10 21.6	21.2
280074 2002 CP_{225}	16.5	X	268.56726	64.78885	56.83903	4.25218	0.2057518	0.23912376	2.5707168	21	10 28.8	19.6
280075 2002 CH_{228}	17.1	X	233.63833	225.96158	250.00359	4.66150	0.2203590	0.23327858	2.6134818	21	9 3.7	21.1
280076 2002 CJ_{237}	15.7	X	103.02287	291.32692	348.76184	13.80517	0.1946767	0.23107882	2.6300416	21	11 29.8	20.3
280077 2002 CU_{238}	16.6	X	55.00319	206.01925	336.86293	3.52224	0.1423170	0.21374923	2.7703396	21	5 22.1	19.9
280078 2002 CN_{248}	16.8	X	213.97084	255.21999	304.00364	8.53467	0.1470034	0.28967683	2.2621785	21	12 17.2	19.8
280079 2002 CG_{263}	15.9	X	252.97470	52.23528	89.81938	16.15082	0.0808093	0.23763979	2.5814077	21	11 24.9	19.3
280080 2002 CY_{267}	16.1	X	292.93608	86.17121	37.41314	9.36309	0.0760959	0.24493081	2.5299219	21	12 27.5	19.2

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280081 2002 CX_{284}	16.9	X	16.03132	83.32721	315.51571	4.15084	0.0265193	0.24161449	2.5530191	21	—	—
280082 2002 CE_{286}	17.1	X	127.71309	167.43060	146.23251	3.07617	0.0741236	0.24591616	2.5231593	21	—	—
280083 2002 CK_{294}	15.7	X	190.69912	137.90582	97.71265	14.28211	0.0954285	0.24343194	2.5402961	21	—	—
280084 2002 CZ_{295}	15.9	X	130.69313	349.04088	335.69106	8.37121	0.2369583	0.24535712	2.5269905	21	—	—
280085 2002 CQ_{301}	16.2	X	147.12294	121.60251	158.39960	7.78330	0.1171089	0.24011303	2.5636510	21	—	—
280086 2002 CQ_{316}	17.2	X	220.51698	310.59261	234.91090	3.91518	0.0781686	0.24015210	2.5633729	21	12 7.0	20.6
280087 2002 DO_{8}	15.8	X	345.24402	43.81876	51.98044	14.55288	0.0376240	0.24762257	2.5115543	21	—	—
280088 2002 DQ_{9}	15.7	X	210.76718	32.20199	113.78647	23.68259	0.1371610	0.23335017	2.6129472	21	10 10.1	20.2
280089 2002 EB_{16}	16.7	X	144.04363	230.93126	325.95161	6.89311	0.0947226	0.22582677	2.6706631	21	9 23.2	20.7
280090 2002 EH_{24}	17.5	X	108.90126	292.25279	355.78297	1.15664	0.0725851	0.23509352	2.6000135	21	12 10.6	21.3
280091 2002 EK_{25}	16.6	X	139.39277	346.06665	237.84696	7.06350	0.2266930	0.22960325	2.6412977	21	10 27.2	21.2
280092 2002 EF_{56}	16.1	X	200.68628	44.73993	163.92664	15.65015	0.0615588	0.23920897	2.5701062	21	12 15.8	20.0
280093 2002 EO_{61}	16.8	X	290.83318	267.84528	177.57772	3.14027	0.1837129	0.23651195	2.5896077	21	10 17.7	19.5
280094 2002 ED_{64}	16.6	X	322.53519	267.68800	179.07259	14.35645	0.1390316	0.24005573	2.5640589	21	12 23.6	19.5
280095 2002 EV_{75}	16.6	X	144.52638	355.66865	194.28646	13.42060	0.2321281	0.22653096	2.6651255	21	9 20.3	21.3
280096 2002 ED_{105}	16.3	X	190.11955	76.60522	128.88507	10.36996	0.0936018	0.23596279	2.5936241	21	11 27.5	20.3
280097 2002 EA_{119}	16.4	X	159.64284	24.84237	185.30768	11.92646	0.1142218	0.23127606	2.6285461	21	10 30.7	20.5
280098 2002 ER_{122}	15.6	X	205.95886	40.04126	181.45410	10.74679	0.1286846	0.18852681	3.0122243	21	12 19.8	20.4
280099 2002 EV_{133}	16.6	X	280.01088	232.06122	204.69833	3.60675	0.1718469	0.23337348	2.6127732	21	9 17.3	19.7
280100 2002 EA_{141}	16.4	X	144.52710	242.37502	1.55533	5.93847	0.0496633	0.23512716	2.5997655	21	11 22.9	20.1
280101 2002 FS_{7}	17.0	X	265.98509	267.52460	204.82184	2.81464	0.1418412	0.23634307	2.5908412	21	10 21.6	20.3
280102 2002 FG_{17}	16.0	X	292.57862	354.40059	125.49546	14.24820	0.1831243	0.24144938	2.5541828	21	12 12.5	18.7
280103 2002 FD_{20}	16.3	X	201.31309	51.70827	118.98631	8.51267	0.1434047	0.23317643	2.6142449	21	10 23.9	20.4
280104 2002 FS_{32}	16.0	X	121.40225	198.64850	87.62219	6.59645	0.1245432	0.23751831	2.5822879	21	12 24.3	19.9
280105 2002 GO_{52}	17.0	X	114.68216	57.43805	184.23428	4.75861	0.2316722	0.22466193	2.6798864	21	10 30.5	21.5
280106 2002 GQ_{59}	17.6	X	150.88242	12.14533	238.50860	7.67995	0.2348649	0.28302168	2.2975039	21	12 13.4	21.4
280107 2002 GD_{72}	16.0	X	98.99261	241.65247	24.09841	14.86264	0.1418044	0.22730804	2.6590481	21	11 4.5	20.1
280108 2002 GN_{75}	16.5	X	133.30699	169.80649	59.80263	12.27602	0.1279987	0.22691039	2.6621537	21	10 29.7	20.7
280109 2002 GU_{82}	16.2	X	199.30085	100.19668	47.37164	13.80998	0.1527484	0.22740965	2.6582559	21	9 24.9	20.6
280110 2002 GE_{89}	16.8	X	148.55515	62.56959	178.13186	25.27847	0.1490279	0.28112649	2.3078179	21	12 2.9	20.9
280111 2002 GP_{105}	16.0	X	178.30628	117.28866	49.70543	14.03623	0.1204014	0.22733784	2.6588157	21	9 29.9	20.3
280112 2002 GG_{144}	16.7	X	82.17868	86.46035	148.45214	11.74871	0.1949253	0.27082740	2.3659614	21	9 24.3	20.1
280113 2002 GN_{145}	16.8	X	157.27788	336.19218	211.11129	8.24460	0.1459811	0.22630925	2.6668659	21	9 26.2	21.1
280114 2002 GC_{152}	16.6	X	103.81665	185.91216	99.93964	5.54806	0.1581795	0.23109783	2.6298974	21	12 8.4	20.7
280115 2002 GC_{183}	16.6	X	146.99675	70.58368	121.82840	12.55987	0.1404804	0.22426843	2.6830203	21	9 29.4	21.0
280116 2002 GH_{186}	16.4	X	173.65895	314.69521	206.17225	14.49310	0.1847462	0.22434541	2.6824065	21	9 6.0	21.0
280117 2002 HN_{1}	16.0	X	174.00277	130.52936	49.33254	13.83691	0.1041584	0.22856451	2.6492942	21	10 10.8	20.2
280118 2002 JV_{1}	14.8	X	135.68725	355.59942	225.58228	19.73111	0.1423225	0.17417013	3.1755596	21	10 11.8	20.1
280119 2002 JQ_{2}	16.4	X	95.80154	170.05721	79.35938	15.30666	0.3116252	0.22132932	2.7067205	21	11 3.2	21.2
280120 2002 JM_{5}	16.3	X	101.26568	135.87255	90.06172	10.02214	0.2410597	0.21903968	2.7255502	21	10 5.0	20.9
280121 2002 JG_{9}	16.2	X	76.39822	108.87267	198.76193	10.65086	0.1911889	0.22664981	2.6641938	21	12 10.8	20.4
280122 2002 JO_{94}	15.7	X	51.56990	269.94537	53.21529	12.32493	0.1740199	0.22330617	2.6907225	21	11 28.9	19.4
280123 2002 JM_{114}	17.1	X	166.39935	70.13867	235.28395	6.52341	0.2091861	0.23774610	2.5806382	21	—	—
280124 2002 JW_{125}	16.8	X	322.45592	172.45352	117.55681	3.42778	0.2183963	0.25847906	2.4407267	21	4 20.5	19.4
280125 2002 JK_{136}	17.5	X	120.76893	177.80167	36.24509	1.73219	0.1393443	0.27335878	2.3513324	21	9 30.4	21.0
280126 2002 JA_{149}	16.3	X	201.92865	259.42230	228.02083	10.48874	0.1452017	0.22318304	2.6917120	21	8 21.9	20.8
280127 2002 KJ_{5}	16.3	X	95.59103	140.45968	82.66373	10.36838	0.1558149	0.21721340	2.7408061	21	9 17.7	20.5
280128 2002 KQ_{15}	16.1	X	177.23175	103.96575	57.68762	13.53677	0.1232094	0.22286958	2.6942353	21	9 22.5	20.5
280129 2002 LS_{23}	15.1	X	149.23637	2.99767	286.29592	16.47944	0.1986167	0.17649244	3.1476418	21	—	—
280130 2002 LP_{29}	17.2	X	79.59741	92.17352	138.20788	4.68612	0.1805830	0.26846729	2.3798073	21	9 11.6	20.4
280131 2002 LU_{57}	16.4	X	248.56671	65.57999	225.29663	16.38407	0.1815537	0.24575937	2.5242324	21	1 27.4	20.8
280132 2002 NX_{27}	16.1	X	14.04642	71.31296	261.36455	6.48302	0.2863403	0.21339615	2.7733946	21	10 31.8	18.9
280133 2002 NG_{53}	17.7	X	357.15986	229.29808	108.17318	4.54130	0.1440693	0.31496526	2.1394113	21	10 9.2	19.2
280134 2002 NM_{58}	16.0	X	117.52841	18.43433	228.48295	16.07767	0.0491730	0.21656910	2.7462394	21	10 24.3	19.9
280135 2002 NM_{68}	17.6	X	324.85344	340.22554	22.22076	1.20595	0.0963485	0.31380247	2.1446931	21	9 7.3	19.2
280136 2002 OM_{4}	17.2	X	203.31196	28.13134	143.06093	55.32169	0.5631131	0.53868244	1.4959400	21	10 22.7	20.9
280137 2002 OE_{10}	16.4	X	90.63524	63.76162	277.44075	9.20310	0.2291734	0.22307339	2.6925940	21	—	—
280138 2002 OE_{18}	17.5	X	188.07507	260.49445	293.09211	19.05193	0.0332943	0.37472361	1.9054403	21	12 10.1	19.7
280139 2002 PV_{8}	16.1	X	218.92757	283.51539	279.63904	12.56387	0.1048183	0.22661932	2.6644327	21	12 21.4	20.0
280140 2002 PV_{10}	15.8	X	253.80139	205.98501	159.26747	13.62708	0.2369114	0.19756039	2.9196859	21	5 11.1	20.7
280141 2002 PP_{27}	15.7	X	81.33514	219.92529	147.02928	16.96840	0.2085779	0.17239913	3.1972702	21	—	—
280142 2002 PQ_{29}	15.9	X	299.76433	53.21723	296.10356	5.03728	0.0843896	0.20355843	2.8620463	21	7 1.6	19.6
280143 2002 PK_{35}	16.3	X	54.43685	353.73425	315.39907	5.92634	0.1101489	0.21543798	2.7558434	21	11 2.7	20.1
280144 2002 PL_{82}	16.6	X	37.29960	155.99417	148.98600	9.81813	0.3030085	0.21295798	2.7771975	21	11 9.6	20.3
280145 2002 PC_{86}	16.9	X	150.39565	207.14470	112.13898	8.40656	0.2263071	0.28243127	2.3007046	21	—	—
280146 2002 PC_{92}	15.9	X	341.65739	74.17204	246.16283	13.98053	0.1618724	0.20553494	2.8436683	21	7 18.3	19.2
280147 2002 PJ_{100}	17.5	X	23.70443	319.00717	4.92007	3.08762	0.2090788	0.31598999	2.1347835	21	11 15.3	19.5
280148 2002 PL_{101}	16.5	X	137.02208	104.97839	165.85988	12.95278	0.2542088	0.22508697	2.6765117	21	12 20.2	21.5
280149 2002 PG_{105}	17.6	X	357.77853	48.04633	311.13557	19.80002	0.0557773	0.36880825	1.9257606	21	11 1.2	20.0
280150 2002 PJ_{110}	15.4	X	251.30453	2.85005	226.71662	9.23277	0.0983972	0.18092515	3.0960176	21	—	—
280151 2002 PG_{111}	15.9	X	314.13826	96.69974	234.93969	13.78752	0.1688394	0.20398299	2.8580736	21	6 15.8	19.4
280152 2002 PN_{138}	16.3	X	122.34643	131.67969	167.78151	13.32671	0.2609491	0.22503732	2.6769054	21	—	—
280153 2002 PO_{161}	15.4	X	182.68058	155.07690	137.74959	13.70385	0.1299323	0.17945315	3.1129250	21	—	—
280154 2002 PR_{164}	17.9	X	320.12652	278.07604	85.05159	0.69653	0.1524615	0.31229290	2.1515989	21	8 23.5	19.4
280155 2002 PE_{166}	16.8	X	43.88531	246.79434	78.47073	1.68397	0.0704276	0.21480207	2.7612798	21	11 6.5	20.4
280156 2002 PL_{170}	17.1	X	98.47738	165.16560	192.41460	8.66530	0.2304822	0.22712221	2.6604983	21	—	—
280157 2002 PA_{179}	17.3	X	176.13075	45.37382	39.85437	3.90169	0.0884364	0.30320952	2.1943580	21	6 4.6	20.3
280158 2002 PM_{185}	16.8	X	276.36587	334.03685	35.43588	2.47805	0.0848192	0.20304046	2.8669118	21	6 25.9	20.6
280159 2002 PU_{195}	15.9	X	289.87660	270.65950	258.27609	7.86272	0.0233383	0.17752973	3.1353689	21	—	—
280160 2002 QA_{14}	16.4	X	113.58526	351.30342	287.27180	12.14641	0.1283046	0.21966413	2.7203824	21	12 4.7	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280161 2002 QP_{35}	16.1	X	128.62306	168.72990	147.02069	13.96530	0.1466127	0.22514131	2.6760810	21	—	—
280162 2002 QZ_{57}	17.8	X	37.43561	19.36118	287.80600	4.25774	0.1260129	0.31562932	2.1364095	21	10 27.0	20.0
280163 2002 QE_{68}	16.5	X	5.72156	234.29749	147.02559	5.65960	0.0883896	0.21581167	2.7526613	21	11 28.8	19.9
280164 2002 QO_{74}	16.6	X	291.71841	253.05953	356.49854	11.11151	0.2116808	0.24260285	2.5460804	21	1 23.8	20.6
280165 2002 QX_{90}	17.5	X	339.28060	241.09619	109.25698	5.17544	0.1345441	0.31177887	2.1539631	21	9 19.4	19.0
280166 2002 QV_{98}	15.9	X	117.83550	329.11956	77.17431	6.18674	0.1716208	0.18198238	3.0840151	21	3 3.7	20.5
280167 2002 QZ_{99}	15.4	X	188.97481	135.10703	133.31542	10.20414	0.0572359	0.17521930	3.1628706	21	—	—
280168 2002 QJ_{109}	15.8	X	211.89496	99.01514	160.41080	12.95492	0.0777531	0.17908465	3.1171938	21	—	—
280169 2002 QO_{113}	16.3	X	244.68588	133.18165	234.07019	8.60186	0.0387438	0.19689657	2.9262446	21	5 20.7	20.4
280170 2002 RE_{17}	15.9	X	256.49878	101.51951	258.51012	0.71543	0.1331511	0.19609344	2.9342290	21	5 14.2	20.3
280171 2002 RD_{20}	16.3	X	305.28628	193.35991	157.18798	13.43994	0.2637435	0.20176141	2.8790154	21	6 14.1	20.2
280172 2002 RA_{38}	17.3	X	20.76061	341.20463	319.00012	6.19042	0.0963565	0.31182630	2.1537447	21	9 11.9	19.4
280173 2002 RJ_{38}	15.9	X	114.56615	99.00996	178.42923	12.79864	0.1182165	0.21885419	2.7270900	21	12 5.3	20.3
280174 2002 RY_{110}	17.4	X	20.08188	86.40296	238.70991	3.39122	0.1650296	0.31387279	2.1443727	21	11 3.1	19.1
280175 2002 RB_{117}	15.7	X	180.01960	250.83352	162.05593	12.57388	0.1234150	0.19148314	2.9811399	21	5 7.5	20.6
280176 2002 RO_{126}	15.4	X	165.64602	306.17896	110.21052	10.12242	0.2615052	0.18957855	3.0010732	21	5 4.3	20.8
280177 2002 RH_{128}	15.2	X	78.22248	109.56990	278.54629	15.97648	0.1833871	0.17350284	3.1836965	21	—	—
280178 2002 RK_{128}	15.9	X	56.30244	120.70682	273.07214	10.83117	0.1734967	0.22314431	2.6920235	21	—	—
280179 2002 RB_{136}	15.4	X	298.74902	304.20487	39.61192	9.32420	0.1443640	0.20038475	2.8921863	21	6 12.1	19.3
280180 2002 RG_{172}	16.3	X	216.87484	193.06141	126.02920	8.37560	0.1888574	0.23842338	2.5757487	21	2 10.1	20.6
280181 2002 RP_{178}	15.9	X	124.69613	5.90551	337.75923	9.87775	0.1994703	0.17554111	3.1590038	21	—	—
280182 2002 RP_{182}	15.9	X	315.88546	82.39016	250.95885	11.11377	0.1267792	0.20098410	2.8864337	21	6 27.2	19.4
280183 2002 RW_{183}	15.1	X	174.40934	318.64062	333.07033	27.07280	0.1777403	0.17395918	3.1781263	21	—	—
280184 2002 RD_{184}	16.2	X	70.36263	83.64967	246.45181	8.51369	0.2190630	0.21788926	2.7351354	21	12 31.9	20.6
280185 2002 RG_{184}	15.2	X	279.89455	135.31429	217.36998	12.68068	0.1827987	0.19832546	2.9121723	21	5 25.8	19.5
280186 2002 RU_{202}	15.4	X	146.52791	176.95373	226.76856	8.00434	0.0967849	0.18452240	3.0556480	21	3 16.5	20.2
280187 2002 RD_{240}	16.9	X	143.74743	60.28976	199.66682	4.88674	0.0998793	0.22001520	2.7174877	21	12 11.4	21.2
280188 2002 RW_{252}	17.5	X	123.85372	129.62619	319.57208	3.85086	0.1396819	0.29199610	2.2501839	21	4 12.3	20.4
280189 2002 SN_{17}	15.9	X	347.57073	69.62401	190.01061	10.11074	0.0367594	0.19317290	2.9637297	21	5 18.7	19.9
280190 2002 SR_{21}	17.3	X	126.54873	268.68682	170.65825	2.36502	0.1321048	0.28969264	2.2620962	21	4 3.7	20.2
280191 2002 SS_{21}	16.3	X	230.61290	209.61956	164.24370	5.73091	0.1842870	0.19252336	2.9703920	21	5 3.2	21.2
280192 2002 SM_{46}	15.8	X	158.62649	197.76672	200.37373	8.18285	0.2587070	0.18313438	3.0710682	21	4 3.9	21.2
280193 2002 SY_{48}	17.1	X	288.92216	215.78013	147.13647	4.80486	0.0717789	0.30364123	2.1922776	21	7 6.1	19.4
280194 2002 SH_{53}	15.4	X	72.38186	220.24579	128.18928	10.94265	0.2892775	0.21904127	2.7255370	21	—	—
280195 2002 SX_{64}	16.0	X	100.46294	237.02180	193.84493	7.54937	0.0968993	0.18235862	3.0797717	21	2 26.0	20.2
280196 2002 SG_{67}	14.9	X	302.00566	8.77664	254.47004	8.81919	0.0461908	0.18475829	3.0530465	21	3 16.8	19.4
280197 2002 TE_{26}	16.2	X	254.26690	177.16519	176.45506	4.62230	0.2296101	0.19317026	2.9637567	21	4 25.8	21.1
280198 2002 TS_{26}	17.4	X	259.19704	10.22092	17.63244	3.94228	0.1868568	0.30162373	2.2020426	21	6 12.2	20.4
280199 2002 TU_{26}	17.8	X	345.95484	131.67986	196.68250	2.63841	0.2097026	0.30834911	2.1699060	21	8 22.0	18.8
280200 2002 TN_{54}	17.0	X	316.24878	316.45109	26.08951	6.60477	0.1913322	0.30438183	2.1887201	21	7 1.9	18.9
280201 2002 TG_{130}	16.7	X	220.11269	273.34139	81.34855	6.23923	0.1894654	0.24127087	2.5554426	21	3 29.7	21.0
280202 2002 TX_{132}	15.4	X	110.18320	189.35914	240.43783	8.53230	0.0746963	0.18153353	3.0890966	21	3 3.5	19.9
280203 2002 TK_{134}	17.4	X	42.29404	97.57338	283.49943	5.61605	0.1484522	0.26991776	2.3712740	21	—	
280204 2002 TH_{147}	15.7	X	225.73308	162.54893	217.56390	9.90441	0.1451065	0.19342222	2.9611823	21	5 7.3	20.3
280205 2002 TF_{178}	17.4	X	282.74671	150.23403	217.85001	2.54652	0.1005139	0.30307908	2.1949876	21	6 29.2	19.7
280206 2002 TF_{184}	15.4	X	196.79216	166.60003	227.43582	8.16821	0.1104800	0.18987653	2.9979325	21	4 26.9	20.0
280207 2002 TK_{208}	16.0	X	49.30147	120.68596	218.42076	15.16725	0.2991200	0.21373537	2.7704593	21	12 29.5	20.4
280208 2002 TL_{214}	17.2	X	343.71037	116.56624	197.84628	5.47608	0.0994033	0.30532280	2.1842209	21	7 23.0	19.2
280209 2002 TB_{223}	15.6	X	161.60271	203.05812	201.54494	9.18231	0.0970158	0.18446393	3.0562937	21	4 4.7	20.3
280210 2002 TB_{255}	17.2	X	335.39550	207.11417	213.15010	5.46537	0.2071251	0.26321169	2.4113816	21	12 23.4	19.0
280211 2002 TB_{261}	16.8	X	288.83931	156.68161	191.77506	8.00384	0.1575041	0.29939612	2.2129517	21	5 31.0	19.4
280212 2002 TH_{271}	16.9	X	210.16278	161.55507	233.04672	5.02633	0.1533419	0.29556315	2.2320429	21	5 3.6	20.3
280213 2002 TC_{277}	15.6	X	278.37005	66.05798	243.15705	6.35718	0.0591706	0.18854826	3.0119958	21	4 14.2	20.0
280214 2002 TM_{288}	15.8	X	346.11773	94.36467	263.87146	10.57316	0.2556453	0.20488321	2.8496956	21	9 20.2	18.5
280215 2002 TW_{290}	16.7	X	243.76218	88.91023	269.82982	6.05912	0.0940856	0.29444091	2.2377107	21	4 22.9	19.8
280216 2002 TQ_{302}	15.7	X	262.70794	204.83669	157.37141	11.49123	0.1278486	0.19480210	2.9471821	21	5 27.2	20.2
280217 2002 TT_{309}	17.5	X	220.20973	321.99220	81.05540	6.33337	0.1200562	0.29796022	2.2200556	21	5 27.8	20.4
280218 2002 TU_{317}	17.5	X	249.86313	339.13307	296.51724	4.15557	0.2260070	0.23855905	2.5747721	21	1 14.9	22.0
280219 2002 TV_{339}	15.8	X	359.19293	124.54492	42.55120	12.41826	0.0747827	0.17913836	3.1165707	21	2 9.0	20.1
280220 2002 TY_{358}	16.5	X	269.50755	166.39449	142.93133	1.76747	0.0119676	0.18925298	3.0045140	21	4 12.3	20.7
280221 2002 TN_{369}	16.0	X	71.37856	318.85176	145.01595	10.75049	0.0956012	0.17750733	3.1356327	21	3 4.1	20.1
280222 2002 US_{21}	17.3	X	198.71167	212.43517	189.77674	3.82695	0.1231527	0.29351436	2.2424175	21	5 3.7	20.6
280223 2002 UV_{28}	17.3	X	235.50352	245.47741	120.30269	4.54192	0.1631510	0.29521085	2.2338183	21	4 22.6	20.6
280224 2002 UM_{54}	15.7	X	75.04919	359.20966	73.31901	8.54119	0.1220552	0.17488371	3.1669155	21	2 3.5	19.9
280225 2002 UT_{58}	15.6	X	159.36655	275.41310	151.28346	10.21547	0.0642619	0.18636693	3.0354528	21	4 30.9	20.2
280226 2002 UD_{66}	16.1	X	283.79404	253.96282	35.95275	9.52181	0.0695455	0.18835980	3.0140045	21	3 30.7	20.3
280227 2002 UX_{67}	17.6	X	78.59067	111.37916	60.11165	6.80409	0.0322672	0.29674817	2.2260967	21	5 21.4	20.0
280228 2002 UF_{75}	17.4	X	69.30800	252.97016	211.56899	3.88496	0.1002813	0.28225879	2.3016418	21	2 5.2	19.6
280229 2002 UK_{77}	15.7	X	124.33496	341.50921	53.57445	10.34165	0.0602610	0.17597741	3.1537803	21	2 13.7	20.4
280230 2002 VQ_{8}	15.4	X	44.05095	213.52391	254.50012	10.85422	0.0864351	0.17359147	3.1826127	21	1 24.5	19.7
280231 2002 VJ_{19}	17.4	X	237.54538	327.85361	55.75493	3.60331	0.1411517	0.29661444	2.2267657	21	5 18.2	20.4
280232 2002 VT_{22}	16.9	X	232.56005	158.95850	231.54605	5.82382	0.0916379	0.29611807	2.2292534	21	5 26.6	19.6
280233 2002 VR_{25}	17.5	X	317.41267	109.03199	235.98253	3.99868	0.1559899	0.30369939	2.1919978	21	7 13.6	19.4
280234 2002 VM_{30}	15.8	X	162.73631	339.79718	52.52936	12.73494	0.1829919	0.18021287	3.1041701	21	4 2.4	21.0
280235 2002 VN_{30}	15.1	X	115.85722	342.33579	55.51268	23.36534	0.1577572	0.17360503	3.1824470	21	2 28.3	20.2
280236 2002 VQ_{34}	16.8	X	253.87598	311.60145	66.57576	7.16561	0.1882716	0.29680997	2.2257876	21	5 24.2	20.0
280237 2002 VT_{39}	15.7	X	251.17284	283.12325	79.82034	15.05600	0.2784146	0.19194825	2.9763222	21	5 4.1	20.9
280238 2002 VA_{74}	17.4	X	151.80611	0.72243	64.65684	7.30927	0.1248405	0.28930598	2.2641113	21	4 16.4	20.5
280239 2002 VE_{79}	15.4	X	76.91326	206.61657	211.96528	13.41523	0.1553440	0.17038918	3.2223648	21	1 19.5	19.8
280240 2002 VD_{99}	15.3	X	262.46333	275.27509	51.71858	9.60620	0.1409288	0.18739085	3.0243854	21	4 12.4	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280241 2002 VW_{141}	15.8	X	146.48483	326.03303	45.58263	1.89841	0.1676189	0.17728830	3.1382148	21	2 17.7	20.6
280242 2002 VK_{142}	15.6	X	113.46080	205.77779	214.69365	12.49922	0.0852297	0.17683547	3.1435699	21	2 26.1	20.2
280243 2002 VL_{145}	16.4	X	250.78295	193.10655	147.27343	3.29562	0.1599743	0.18828788	3.0147720	21	4 13.2	21.1
280244 2002 WP_{11}	18.1	X	51.30517	56.17267	267.88930	5.39402	0.4408783	0.31806460	2.1254904	21	—	—
280245 2002 WZ_{25}	16.1	X	209.44414	218.55639	128.18576	4.52654	0.0746129	0.18035523	3.1025365	21	3 17.1	20.8
280246 2002 WS_{26}	17.4	X	85.39992	55.17441	51.70793	4.70531	0.1410877	0.28409154	2.2917321	21	3 18.4	19.7
280247 2002 WG_{28}	15.8	X	165.07639	304.76357	78.15348	12.52990	0.0835472	0.17862073	3.1225889	21	3 20.2	20.7
280248 2002 WX_{28}	15.5	X	104.86547	358.67317	79.86083	11.48599	0.0987040	0.17773237	3.1329853	21	3 21.9	20.1
280249 2002 XR_{1}	15.0	X	148.75660	186.16543	229.26769	17.15017	0.1214726	0.18013179	3.1051016	21	4 4.1	20.0
280250 2002 XY_{10}	15.2	X	193.85955	307.14650	63.90637	12.73884	0.1234001	0.18066617	3.0989756	21	4 3.8	20.3
280251 2002 XR_{12}	16.8	X	112.12358	192.15541	256.89527	6.37452	0.0478573	0.28407520	2.2918200	21	3 11.9	19.7
280252 2002 XK_{14}	17.0	X	353.12862	203.49761	146.51309	6.43387	0.2643291	0.30842702	2.1695406	21	11 7.9	18.1
280253 2002 XM_{46}	15.9	X	268.72167	342.72058	5.33969	4.32412	0.2715974	0.19193006	2.9765103	21	4 26.1	20.5
280254 2002 XP_{49}	15.1	X	175.16246	141.32743	243.68697	9.90369	0.1520629	0.17964203	3.1107426	21	3 25.3	20.3
280255 2002 XJ_{53}	15.6	X	187.52366	306.07039	83.31639	9.47320	0.1395669	0.18305466	3.0719598	21	4 17.8	20.6
280256 2002 XL_{61}	16.9	X	133.48669	256.68977	212.21801	6.51091	0.0336534	0.29043100	2.2582607	21	5 10.9	19.5
280257 2002 XD_{74}	16.6	X	302.46831	5.14752	58.35756	8.61963	0.1860508	0.25523582	2.4613590	21	10 13.9	18.9
280258 2002 XY_{81}	16.4	X	133.00963	0.31944	68.70468	8.77572	0.2107704	0.28246636	2.3005141	21	4 11.8	19.8
280259 2002 XA_{94}	15.4	X	250.74691	233.75158	69.47260	11.66883	0.0617891	0.17978018	3.1091488	21	3 14.4	20.2
280260 2002 XD_{95}	15.7	X	176.60397	147.83124	227.71488	3.59664	0.1510664	0.18091273	3.0961593	21	3 17.7	20.6
280261 2002 XE_{97}	15.4	X	65.08040	9.68816	69.92352	18.51456	0.1079062	0.16998183	3.2275109	21	1 29.6	19.8
280262 2002 XD_{105}	17.4	X	64.54056	19.26801	69.89251	4.29166	0.1843986	0.27606062	2.3359654	21	1 15.4	19.2
280263 2002 XR_{113}	16.6	X	82.00500	196.93748	285.34932	6.05339	0.0408002	0.28208868	2.3025670	21	3 14.3	19.4
280264 2002 XO_{117}	16.1	X	157.33004	273.83716	138.88030	9.05234	0.1731865	0.18191655	3.0847590	21	4 19.2	21.2
280265 2002 XU_{120}	15.5	X	127.80337	159.66784	234.94880	13.45380	0.0491727	0.17288156	3.1913193	21	2 6.6	20.3
280266 2002 YH_{3}	15.7	X	183.86199	233.48489	152.56180	10.92079	0.1245936	0.18045619	3.1013791	21	4 9.3	20.7
280267 2003 AC_{25}	16.7	X	212.96902	304.12859	100.81033	23.50223	0.2069665	0.29268022	2.2466761	21	5 25.9	20.7
280268 2003 AL_{28}	16.5	X	358.92006	54.85853	131.14238	6.82739	0.0598245	0.27593142	2.3366945	21	2 8.9	19.0
280269 2003 AK_{38}	17.2	X	45.00280	230.81227	229.43132	4.34083	0.1311008	0.27172985	2.3607200	21	—	—
280270 2003 AG_{39}	17.1	X	162.73797	170.76967	254.92305	4.29838	0.1275163	0.28563878	2.2834488	21	4 25.6	20.5
280271 2003 AW_{91}	16.3	X	205.94508	119.51482	239.64335	2.54853	0.1125471	0.18028225	3.1033736	21	3 25.1	21.3
280272 2003 BF_{28}	15.7	X	216.86479	299.36551	127.72660	22.38498	0.0812103	0.23559889	2.5962941	21	7 1.0	19.7
280273 2003 BN_{34}	16.8	X	16.22607	186.09089	306.57709	6.19080	0.0637260	0.27091277	2.3654643	21	—	—
280274 2003 BZ_{65}	16.9	X	89.08122	9.25865	68.95630	6.37931	0.1320414	0.27480333	2.3430851	21	2 11.4	19.4
280275 2003 CX_{1}	16.4	X	207.68010	328.68634	177.49324	5.94930	0.1045614	0.24614611	2.5215877	21	9 30.8	20.1
280276 2003 CV_{5}	16.5	X	205.17671	104.65612	8.77809	4.64914	0.1441821	0.24230369	2.5481757	21	8 14.3	20.4
280277 2003 CD_{8}	16.1	X	197.52910	157.25119	14.99392	7.22010	0.1088609	0.24577393	2.5241327	21	10 21.2	19.9
280278 2003 DS_{1}	17.1	X	210.59371	92.61357	28.48407	4.98187	0.1971034	0.24235101	2.5478440	21	8 26.4	21.1
280279 2003 EO_{18}	17.0	X	198.56478	9.72831	127.23791	4.34687	0.2297523	0.24264440	2.5457898	21	9 1.7	21.3
280280 2003 EB_{22}	16.3	X	263.68268	91.13340	147.52134	10.64450	0.1231336	0.26348418	2.4097187	21	—	—
280281 2003 FF_{1}	17.3	X	355.44830	359.43384	126.66482	6.25662	0.1854448	0.26395471	2.4068541	21	—	—
280282 2003 FK_{3}	16.7	X	212.67124	59.73588	111.62917	24.83544	0.0715899	0.35371556	1.9801584	21	12 7.7	19.2
280283 2003 FG_{45}	16.4	X	164.38411	347.95173	179.99992	17.34134	0.0974195	0.23896048	2.5718877	21	9 10.1	20.4
280284 2003 FS_{76}	17.1	X	272.01575	153.22453	61.63377	6.91210	0.0621607	0.26066964	2.4270334	21	—	—
280285 2003 FQ_{107}	16.3	X	237.81837	64.33054	146.40215	5.51787	0.1509902	0.25232013	2.4802842	21	—	—
280286 2003 GU_{1}	16.5	X	160.69700	81.05601	88.14484	6.65943	0.1344004	0.23799849	2.5788134	21	9 12.7	20.6
280287 2003 GM_{22}	17.3	X	102.78630	265.55557	204.21506	20.50309	0.0875172	0.38128964	1.8835018	21	3 19.3	18.9
280288 2003 HW_{14}	16.2	X	58.37898	142.58113	64.53131	14.90293	0.1327209	0.22532115	2.6746569	21	6 29.6	19.6
280289 2003 HX_{44}	17.3	X	203.95259	21.44492	251.79078	2.49201	0.1594527	0.25672142	2.4518542	21	—	—
280290 2003 HK_{50}	17.3	X	337.09872	40.61929	201.14612	4.75305	0.1958073	0.26972921	2.3723789	21	3 4.3	19.9
280291 2003 HM_{58}	16.2	X	348.07106	348.83505	135.90907	15.43776	0.1018483	0.25464253	2.4651807	21	—	—
280292 2003 MF_{10}	15.8	X	103.43301	15.95661	282.73339	12.38299	0.2886631	0.23341230	2.6124835	21	12 30.2	20.5
280293 2003 ML_{10}	17.2	X	288.07828	79.83643	192.17011	22.04457	0.0802539	0.37323091	1.9105173	21	2 1.6	20.0
280294 2003 NH_{10}	16.7	X	125.96309	119.05549	171.31495	7.11873	0.1529881	0.23692048	2.5866300	21	—	—
280295 2003 OR_{8}	16.1	X	85.10271	205.89221	111.76009	13.89832	0.2546754	0.23352237	2.6116625	21	—	—
280296 2003 OQ_{9}	16.3	X	86.60811	83.89170	248.98222	3.73471	0.2432430	0.23542206	2.5975940	21	—	—
280297 2003 OQ_{25}	17.5	X	207.72701	96.08264	241.27590	4.71940	0.2253678	0.25421027	2.4679744	21	2 20.0	21.8
280298 2003 OV_{26}	16.5	X	176.94456	24.39230	281.47515	4.57982	0.1969413	0.24618773	2.5213034	21	—	—
280299 2003 PY_{6}	16.2	X	37.50403	206.60711	165.61480	14.55269	0.2614955	0.22957906	2.6414833	21	—	—
280300 2003 QA_{16}	16.1	X	44.56975	145.58175	200.88874	6.01584	0.1519294	0.22820345	2.6520879	21	12 18.5	19.7
280301 2003 QM_{23}	16.4	X	85.18504	169.90109	166.76394	13.19357	0.2049132	0.23461384	2.6035562	21	—	—
280302 2003 QB_{25}	16.3	X	108.86104	149.26506	170.53618	13.32895	0.1985565	0.23627989	2.5913031	21	—	—
280303 2003 QJ_{30}	16.3	X	87.91355	237.92388	119.73563	14.13692	0.3084723	0.23619475	2.5919257	21	—	—
280304 2003 QM_{30}	16.6	X	92.19557	352.43535	290.64688	8.50127	0.1533271	0.22948182	2.6422295	21	11 21.6	20.8
280305 2003 QJ_{32}	16.0	X	82.12048	289.87547	331.34118	11.59973	0.1496250	0.22425145	2.6831557	21	10 9.9	20.1
280306 2003 QQ_{40}	16.9	X	75.73530	100.08255	218.30621	1.71646	0.2135787	0.23193066	2.6235979	21	12 25.5	20.9
280307 2003 QK_{49}	16.3	X	352.64971	224.37123	169.70922	11.73116	0.1850746	0.22574332	2.6713212	21	12 7.5	19.2
280308 2003 QP_{58}	16.3	X	321.02343	255.46790	125.36283	5.85975	0.1292159	0.21956342	2.7212142	21	9 15.6	19.3
280309 2003 QM_{66}	17.0	X	215.99595	123.75113	147.86444	25.12084	0.0279730	0.35628667	1.9706205	21	—	—
280310 2003 QD_{70}	16.0	X	52.19333	256.32458	109.04862	12.67696	0.2867328	0.23061213	2.6335887	21	—	—
280311 2003 QP_{77}	16.2	X	64.64951	3.84248	334.00644	5.37519	0.2929745	0.22940808	2.6427956	21	—	—
280312 2003 QJ_{87}	15.5	X	236.07248	331.68286	334.19977	11.00804	0.0763116	0.19714573	2.9237785	21	2 20.4	19.9
280313 2003 QA_{89}	16.2	X	0.32558	250.90126	118.89853	3.87416	0.1054643	0.22577546	2.6710677	21	11 9.1	19.3
280314 2003 QP_{99}	16.0	X	114.10244	67.19374	216.89742	13.57295	0.1828139	0.23218599	2.6216741	21	12 16.1	20.4
280315 2003 QS_{102}	17.3	X	236.83960	115.64236	185.38275	2.30363	0.1843433	0.25346605	2.4728030	21	2 2.2	21.4
280316 2003 QW_{119}	16.8	X	316.91054	210.66428	166.21050	9.12938	0.0251660	0.21972367	2.7198909	21	9 9.9	20.3
280317 2003 RF_{1}	16.0	X	85.67112	214.21042	100.15705	5.37009	0.2294145	0.23007653	2.6376743	21	12 30.6	20.4
280318 2003 RQ_{18}	16.9	X	305.03152	80.84051	311.13692	5.99149	0.1346025	0.27300925	2.3533389	21	9 3.8	19.1
280319 2003 RK_{19}	16.2	X	305.92865	74.30306	319.24660	2.47367	0.2023821	0.21712741	2.7415296	21	8 24.4	18.9
280320 2003 RD_{20}	16.6	X	16.65065	0.98391	3.25980	4.12556	0.2161178	0.22512457	2.6762137	21	12 11.4	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280321 2003 RF_{21}	15.8	X	314.92845	218.82955	164.61535	11.53213	0.0154200	0.21903099	2.7256222	21	9 17.4	19.3
280322 2003 RX_{24}	17.0	X	68.57929	27.80618	289.52430	3.31440	0.2085728	0.22887279	2.6469147	21	12 16.5	21.0
280323 2003 RM_{26}	15.8	X	63.74437	68.05511	248.63856	15.95727	0.1517335	0.22690818	2.6621710	21	12 3.6	19.4
280324 2003 SQ_{6}	16.0	X	17.88061	156.43904	186.40168	11.92587	0.1260750	0.22246342	2.6975136	21	11 3.1	19.2
280325 2003 SK_{20}	16.8	X	85.78055	147.01426	168.45733	3.92940	0.1856251	0.23135521	2.6279466	21	12 28.6	21.0
280326 2003 SN_{34}	16.4	X	327.57021	357.96040	14.23558	4.83159	0.0779758	0.21799284	2.7342689	21	9 16.9	19.6
280327 2003 SE_{35}	16.9	X	217.48597	72.26020	18.93106	3.45857	0.0582593	0.21223068	2.7835387	21	8 4.1	20.8
280328 2003 SO_{58}	16.4	X	87.71413	97.74165	211.00618	14.29305	0.1817786	0.23099204	2.6307003	21	12 21.3	20.8
280329 2003 SQ_{67}	15.9	X	341.11889	218.66746	162.69866	10.19325	0.2177406	0.21861498	2.7290790	21	10 26.7	18.4
280330 2003 SF_{69}	16.6	X	322.63364	149.71631	231.63902	2.55948	0.2061118	0.21741899	2.7390780	21	9 7.7	19.2
280331 2003 SF_{79}	16.2	X	346.47144	137.49350	219.67194	7.97987	0.1681876	0.21871921	2.7282119	21	9 24.7	18.9
280332 2003 SL_{79}	15.9	X	312.29518	146.95937	217.49719	7.18923	0.1406393	0.21440340	2.7647017	21	7 31.5	19.3
280333 2003 SD_{80}	16.0	X	340.84613	107.30380	270.79445	10.16940	0.1389197	0.22162825	2.7042861	21	10 11.4	19.2
280334 2003 SL_{99}	16.1	X	36.08283	142.92741	206.25054	12.87576	0.2572249	0.22590626	2.6700365	21	12 25.1	19.9
280335 2003 SX_{109}	15.8	X	253.21397	163.14128	225.52555	8.47736	0.1402779	0.20676584	2.8323713	21	6 14.8	20.1
280336 2003 SV_{129}	16.0	X	335.26700	304.31234	42.32091	8.50403	0.1818123	0.21401845	2.7680158	21	8 21.9	18.9
280337 2003 SK_{138}	15.6	X	169.27582	327.49591	9.41308	11.06946	0.0933158	0.18913986	3.0057118	21	1 25.2	20.3
280338 2003 SN_{140}	16.1	X	329.96722	113.27007	256.67104	11.40222	0.1274851	0.21642750	2.7474371	21	9 6.8	19.5
280339 2003 SH_{153}	16.5	X	354.43948	249.49995	105.91448	6.22240	0.1307246	0.22017168	2.7162000	21	10 12.8	19.5
280340 2003 SX_{159}	16.0	X	262.88055	250.59849	153.66662	4.46895	0.1012175	0.21182296	2.7871095	21	7 21.7	19.9
280341 2003 ST_{169}	15.3	X	178.39278	306.40507	15.67961	10.79821	0.1347133	0.18850138	3.0124952	21	1 18.9	20.2
280342 2003 SL_{172}	16.3	X	335.11121	198.85174	160.79202	6.55504	0.0678802	0.21829088	2.7317796	21	9 11.3	19.6
280343 2003 SA_{176}	16.2	X	0.31936	210.78817	169.63245	14.34303	0.1083866	0.22511855	2.6762614	21	11 24.9	19.6
280344 2003 SG_{197}	16.3	X	291.05706	132.50510	254.71267	2.82998	0.1079893	0.21337709	2.7735598	21	8 5.0	19.7
280345 2003 SJ_{210}	16.3	X	10.52913	313.79952	38.74166	3.16273	0.1732902	0.22178122	2.7030425	21	11 8.1	19.2
280346 2003 SD_{224}	16.4	X	50.90942	258.29267	56.51079	6.22626	0.1760014	0.22448916	2.6812613	21	11 19.1	20.0
280347 2003 SB_{228}	16.3	X	335.79112	110.45081	245.28629	2.26815	0.1177607	0.21513525	2.7584281	21	9 3.0	19.2
280348 2003 SA_{231}	16.3	X	24.89313	193.84886	119.93379	5.92962	0.1086450	0.22030468	2.7151067	21	10 3.9	19.6
280349 2003 SK_{255}	16.1	X	20.46267	259.36870	276.62746	8.65876	0.2385032	0.18954205	3.0014585	21	3 10.0	19.0
280350 2003 SB_{260}	15.9	X	326.11810	154.40035	211.91356	8.61033	0.1664271	0.21401622	2.7680351	21	8 24.9	18.9
280351 2003 SH_{279}	16.8	X	14.54213	182.41155	153.63202	5.34354	0.1226362	0.22036355	2.7146231	21	10 18.5	19.9
280352 2003 SU_{280}	16.1	X	142.01225	198.53895	204.23092	11.11947	0.1774550	0.19241605	2.9714963	21	3 18.4	20.8
280353 2003 SP_{281}	16.4	X	315.62941	148.07974	223.30207	6.07712	0.0496994	0.21640216	2.7476516	21	8 26.3	20.0
280354 2003 SL_{296}	16.0	X	0.71245	71.24230	276.36881	10.73746	0.1071590	0.21832020	2.7315350	21	10 1.0	19.5
280355 2003 SM_{298}	16.0	X	255.54936	324.93394	68.17696	5.30410	0.1800169	0.20920852	2.8102814	21	6 18.3	20.2
280356 2003 SY_{300}	15.5	X	19.05383	245.75223	216.63717	11.02985	0.0173161	0.18438324	3.0571853	21	—	—
280357 2003 SZ_{300}	16.8	X	307.79834	135.83746	243.46259	4.92424	0.0774425	0.21603474	2.7507660	21	8 22.6	20.4
280358 2003 SN_{320}	16.8	X	256.64811	33.32564	18.14167	7.88540	0.0314425	0.21226170	2.7832676	21	8 6.3	20.7
280359 2003 SO_{320}	16.6	X	87.33013	122.04106	177.30137	6.30942	0.2172506	0.22738216	2.6584701	21	12 13.5	20.9
280360 2003 SZ_{329}	17.2	X	15.82262	97.55577	221.12337	2.23277	0.0665876	0.21883833	2.7272218	21	9 17.5	20.5
280361 2003 SJ_{332}	16.3	X	12.25532	193.03749	146.61598	5.78039	0.1233920	0.21935541	2.7229342	21	10 20.0	19.5
280362 2003 SL_{388}	16.6	X	57.58806	148.97554	105.48955	4.61537	0.0430666	0.21321386	2.7749751	21	8 20.8	20.3
280363 2003 SE_{391}	16.3	X	12.35477	173.40761	128.33677	5.12618	0.0511222	0.21326415	2.7745388	21	8 19.8	19.7
280364 2003 SC_{430}	15.6	X	254.65137	159.55699	10.02159	12.25083	0.0236128	0.17265767	3.1940776	21	12 22.9	20.3
280365 2003 SR_{430}	15.9	X	358.03003	305.66338	8.63044	10.04846	0.1291345	0.21276315	2.7788927	21	8 20.9	19.0
280366 2003 TE	15.8	X	97.71108	268.77388	67.56184	28.57339	0.3958467	0.23290476	2.6162775	21	—	—
280367 2003 TN_{11}	15.9	X	296.94811	137.35634	236.10748	5.02608	0.0728377	0.21123139	2.7923107	21	7 30.3	19.6
280368 2003 TB_{15}	15.4	X	75.94863	345.98493	29.08278	9.51973	0.1506148	0.17960232	3.1112012	21	—	—
280369 2003 TU_{46}	16.4	X	37.01406	34.90127	240.10491	4.70785	0.0362870	0.21209698	2.7847084	21	8 15.1	20.0
280370 2003 TA_{54}	16.4	X	295.58056	243.51585	129.89526	5.16725	0.0553265	0.21142309	2.7906226	21	8 1.5	20.1
280371 2003 UV_{7}	16.2	X	263.89411	312.10237	83.74680	4.72467	0.1256415	0.20885068	2.8134905	21	7 9.0	20.1
280372 2003 UQ_{16}	15.6	X	47.05759	31.92041	284.31152	12.77705	0.2614952	0.22280582	2.6947493	21	11 27.1	19.5
280373 2003 UV_{22}	15.5	X	174.30658	264.11662	45.49206	9.24130	0.1618881	0.18212819	3.0823688	21	1 1.1	20.5
280374 2003 UR_{26}	15.4	X	217.42396	311.93261	83.77857	14.64087	0.2284620	0.20071894	2.8889752	21	5 17.3	20.4
280375 2003 UB_{27}	16.3	X	303.81514	283.04293	93.74422	3.30937	0.2191154	0.21347498	2.7727118	21	7 25.2	19.3
280376 2003 UF_{46}	16.2	X	257.36263	215.16416	201.92618	13.50683	0.1640260	0.21007906	2.8025123	21	7 20.3	20.6
280377 2003 UR_{64}	15.7	X	310.67169	270.50193	101.06832	13.56189	0.1740495	0.21253085	2.7809172	21	8 7.8	18.9
280378 2003 UE_{78}	15.7	X	143.91579	87.64411	236.92160	13.01841	0.2316120	0.23799528	2.5788366	21	—	—
280379 2003 UJ_{79}	16.5	X	95.09845	90.77881	217.04617	23.24211	0.2879852	0.23172623	2.6251407	21	12 30.5	21.5
280380 2003 UZ_{79}	16.2	X	278.50762	315.45522	60.76569	5.09481	0.1224346	0.20969600	2.8059243	21	7 2.2	20.1
280381 2003 UK_{91}	16.0	X	316.99521	278.55899	70.79940	6.71327	0.0724369	0.21062825	2.7976388	21	7 30.9	19.5
280382 2003 UM_{97}	16.7	X	18.69941	64.92709	32.09037	23.10145	0.2486551	0.28777906	2.2721130	21	—	—
280383 2003 UZ_{106}	15.6	X	354.99942	270.66410	68.44887	13.08245	0.1170918	0.21440342	2.7647015	21	9 23.9	19.0
280384 2003 UW_{118}	16.3	X	271.29807	34.71056	344.46897	3.05668	0.1076251	0.20879124	2.8140245	21	6 28.9	20.1
280385 2003 UT_{120}	16.8	X	346.96124	135.65626	206.75945	3.07371	0.1104554	0.21486120	2.7607731	21	9 4.4	19.8
280386 2003 UL_{143}	15.6	X	286.55591	137.33011	247.73576	8.11745	0.1560797	0.20950696	2.8076119	21	7 17.8	19.3
280387 2003 UJ_{175}	16.1	X	294.23045	0.62944	15.49080	5.55824	0.0548714	0.21044351	2.7992758	21	8 5.5	19.8
280388 2003 UO_{176}	17.2	X	34.87614	189.56687	147.83902	2.83817	0.2118529	0.22399565	2.6851980	21	12 3.1	20.5
280389 2003 UF_{182}	16.5	X	319.72772	177.74314	187.11089	3.84957	0.1141223	0.21330076	2.7742213	21	8 18.7	19.7
280390 2003 UH_{197}	16.6	X	354.52123	274.08358	58.11961	5.70789	0.1270443	0.21408120	2.7674750	21	9 8.4	19.6
280391 2003 UK_{199}	17.5	X	337.94384	182.92936	149.51514	1.49435	0.1959691	0.26890666	2.3772143	21	8 3.5	19.3
280392 2003 UR_{238}	16.5	X	162.48841	92.40713	202.79416	11.40286	0.1856498	0.23795977	2.5790931	21	—	—
280393 2003 UG_{249}	16.0	X	339.36751	43.78068	295.29457	3.09788	0.0929272	0.21257146	2.7805630	21	8 17.8	19.2
280394 2003 UA_{269}	16.7	X	39.01398	55.47730	254.70162	1.82729	0.2123913	0.22100158	2.7093959	21	11 2.0	19.9
280395 2003 UG_{272}	16.2	X	60.27021	118.63050	197.28094	7.86626	0.2664964	0.22382620	2.6865532	21	12 12.7	20.3
280396 2003 UP_{297}	16.8	X	11.71134	57.46315	260.10596	2.94328	0.0962205	0.21471612	2.7620166	21	9 10.9	20.2
280397 2003 UH_{314}	16.7	X	89.59000	182.30581	121.12162	6.19711	0.2638224	0.22865634	2.6485848	21	12 23.4	21.1
280398 2003 UY_{317}	16.8	X	306.40193	231.85731	137.04885	0.86856	0.0884843	0.21371116	2.7706686	21	8 6.9	20.1
280399 2003 UO_{324}	17.7	X	277.62895	13.36412	198.48739	21.57607	0.0684152	0.35781039	1.9650220	21	—	—
280400 2003 UW_{327}	16.5	X	162.42008	257.10411	230.60083	7.74213	0.0500872	0.21182574	2.7870851	21	7 14.8	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280401 2003 UB_{346}	17.1	X	14.04926	324.33062	357.02887	2.41924	0.0778990	0.21820230	2.7325189	21	9 20.3	20.4
280402 2003 UF_{352}	16.6	X	339.74310	288.43345	60.31121	6.84897	0.0852212	0.21538001	2.7563378	21	9 6.5	19.9
280403 2003 UT_{377}	16.5	X	175.81996	244.48148	193.38047	6.57033	0.0484761	0.20423120	2.8557575	21	5 29.4	20.7
280404 2003 VS_{10}	15.9	X	236.56280	322.38505	82.65638	3.22974	0.0609462	0.20345075	2.8630560	21	6 25.9	19.8
280405 2003 WP_{13}	16.2	X	357.76971	44.84278	266.02042	2.83609	0.0907375	0.20958820	2.8068864	21	8 8.9	19.5
280406 2003 WZ_{22}	16.0	X	343.08454	119.67209	224.58308	8.77711	0.1675013	0.21246775	2.7814678	21	8 26.4	19.0
280407 2003 WY_{53}	16.1	X	142.13682	194.82877	269.32834	6.44386	0.0331274	0.19823800	2.9130288	21	5 20.5	20.2
280408 2003 WP_{59}	16.5	X	252.33911	303.35839	82.60050	3.24771	0.1672426	0.20384677	2.8593467	21	6 7.5	20.7
280409 2003 WU_{85}	15.4	X	171.67318	16.32330	26.41037	17.08322	0.2348028	0.19252603	2.9703645	21	4 17.6	20.4
280410 2003 WJ_{86}	17.3	X	82.81286	53.72876	56.21190	6.72828	0.0848560	0.30044131	2.2078164	21	3 8.2	19.6
280411 2003 WZ_{95}	16.6	X	31.87520	131.97330	207.39337	3.38481	0.2582830	0.22126929	2.7072101	21	12 7.9	20.0
280412 2003 WC_{132}	15.9	X	195.72119	190.11439	227.39907	8.66590	0.0682701	0.19791891	2.9161589	21	5 25.9	20.3
280413 2003 WH_{133}	16.3	X	286.18870	175.10341	245.51654	4.59894	0.1121272	0.21168611	2.7883106	21	9 10.1	20.0
280414 2003 WP_{140}	15.6	X	20.12848	45.40466	68.24478	9.66692	0.2962591	0.17454982	3.1709528	21	—	—
280415 2003 WT_{156}	15.2	X	309.66243	353.30065	65.83482	13.25346	0.0864987	0.16157909	3.3384582	21	10 17.8	19.7
280416 2003 WK_{192}	15.5	X	37.38854	51.64225	52.96034	14.50206	0.2705349	0.17517756	3.1633729	21	1 23.2	18.7
280417 2003 XH_{3}	15.3	X	13.18668	256.44130	240.93884	24.18949	0.2331902	0.17647094	3.1478975	21	1 2.5	19.0
280418 2003 XP_{14}	15.2	X	11.35203	261.65244	257.72292	21.88541	0.1506937	0.18090802	3.0962131	21	1 28.9	19.2
280419 2003 XE_{31}	16.0	X	22.58736	243.76392	70.43628	9.88230	0.2396196	0.21443844	2.7644005	21	10 20.6	19.1
280420 2003 YN_{17}	15.7	X	28.20260	0.87238	86.33045	23.42897	0.1983314	0.17435223	3.1733480	21	—	—
280421 2003 YR_{18}	16.7	X	8.47293	267.56936	81.47172	3.44254	0.2823697	0.21760499	2.7375170	21	11 15.8	19.2
280422 2003 YA_{21}	15.5	X	347.98480	87.55345	101.75774	10.50277	0.0217801	0.17846874	3.1243615	21	2 23.8	19.9
280423 2003 YQ_{24}	15.7	X	83.82807	335.75771	126.72484	6.55729	0.1299461	0.18167317	3.0875134	21	3 25.0	19.9
280424 2003 YK_{43}	15.5	X	44.78304	334.12585	117.02986	10.55246	0.2133045	0.17398778	3.1777780	21	1 14.8	18.9
280425 2003 YR_{52}	16.6	X	98.36984	99.02754	263.16771	4.88334	0.1907381	0.23024008	2.6364251	21	—	—
280426 2003 YD_{56}	16.0	X	334.26902	2.21942	136.97828	2.29113	0.3213486	0.16919782	3.2374734	21	—	—
280427 2003 YH_{56}	16.1	X	214.15606	302.61230	97.11436	4.16606	0.0920060	0.19652148	2.9299668	21	5 23.1	20.6
280428 2003 YW_{84}	15.5	X	111.39548	39.93252	66.13226	10.37272	0.0928696	0.18999739	2.9966611	21	4 27.3	19.8
280429 2003 YX_{84}	14.9	X	331.60556	278.43912	260.15829	12.19572	0.2454032	0.17562389	3.1580111	21	—	—
280430 2003 YO_{93}	17.3	X	250.90222	353.86549	54.83373	3.02629	0.2067045	0.25777567	2.4451646	21	6 30.4	20.9
280431 2003 YQ_{104}	15.5	X	41.91844	34.04062	118.21990	16.79027	0.0613140	0.18086907	3.0966576	21	3 24.8	19.8
280432 2003 YF_{106}	15.9	X	272.44759	304.17596	293.13556	11.30784	0.0920294	0.23152415	2.6266680	21	—	—
280433 2003 YV_{120}	16.3	X	123.21003	346.00369	92.06941	7.19194	0.1503840	0.18535923	3.0464442	21	4 14.3	20.9
280434 2003 YH_{134}	15.4	X	151.26380	354.54216	68.28546	14.79856	0.2338317	0.18800846	3.0177583	21	4 29.9	20.6
280435 2003 YZ_{140}	15.4	X	314.54382	119.24563	73.65941	28.23681	0.2230310	0.17251871	3.1957925	21	—	—
280436 2003 YE_{141}	15.5	X	107.50217	37.60944	41.00767	11.52730	0.1373340	0.18386837	3.0628898	21	3 27.8	19.9
280437 2003 YU_{141}	17.2	X	164.07421	358.23551	27.96650	4.34808	0.1921421	0.29928733	2.2134879	21	3 12.3	20.4
280438 2003 YR_{164}	15.9	X	294.11245	255.09684	73.22665	3.39706	0.0708958	0.19892254	2.9063420	21	5 28.5	19.7
280439 2003 YP_{169}	15.3	X	82.53652	10.85960	91.47043	10.49386	0.0627301	0.18210370	3.0826452	21	3 16.3	19.7
280440 2004 AF_{7}	15.2	X	19.89349	36.62262	115.99869	22.58175	0.0761428	0.17524581	3.1625516	21	2 19.3	19.5
280441 2004 BS_{72}	15.4	X	85.04670	314.77283	149.39965	17.03501	0.1587491	0.17922918	3.1155178	21	4 4.0	19.8
280442 2004 BA_{86}	16.2	X	95.43540	226.40128	152.65244	23.73293	0.2253449	0.28380920	2.2932518	21	—	—
280443 2004 BO_{96}	15.6	X	162.59269	275.75063	134.26910	9.74585	0.1436635	0.18500210	3.0503636	21	4 19.3	20.6
280444 2004 BG_{119}	16.9	X	317.79074	155.13832	41.32094	8.66445	0.1657571	0.28258040	2.2998951	21	—	—
280445 2004 BJ_{125}	16.2	X	308.31012	168.72793	83.63782	3.29743	0.0026691	0.18180442	3.0860272	21	3 23.8	20.5
280446 2004 CO_{39}	15.3	X	123.40416	353.59792	66.18400	17.25623	0.2224189	0.17989603	3.1078139	21	4 6.2	20.4
280447 2004 CU_{73}	15.8	X	81.12687	341.94802	102.10725	6.98155	0.1815979	0.17711516	3.1402596	21	3 6.9	19.9
280448 2004 CL_{75}	16.0	X	349.62265	103.55168	301.79129	3.31400	0.0683524	0.21113880	2.7931270	21	12 1.6	19.6
280449 2004 CO_{106}	17.3	X	59.11442	326.72433	231.74787	6.35933	0.0855864	0.29853896	2.2171855	21	6 9.0	19.4
280450 2004 CB_{129}	15.8	X	107.77493	274.27151	145.27889	11.69055	0.0325271	0.17287074	3.1914525	21	2 15.8	20.1
280451 2004 DJ_{11}	17.2	X	325.34129	166.07220	328.12844	5.22633	0.1331960	0.27561984	2.3384553	21	—	—
280452 2004 DX_{25}	17.7	X	144.79076	105.16627	19.42376	1.37757	0.0655116	0.30378760	2.1915734	21	6 21.0	20.4
280453 2004 DG_{26}	17.3	X	44.96967	238.01839	354.44429	4.95354	0.0936860	0.30231997	2.1986604	21	7 10.6	19.4
280454 2004 EO	17.3	X	134.47246	20.08440	101.65418	4.40448	0.1186202	0.29931311	2.2133609	21	6 9.7	20.2
280455 2004 EA_{17}	17.5	X	343.19620	110.82501	123.24819	6.39661	0.2153084	0.28774832	2.2722748	21	2 27.7	19.6
280456 2004 EG_{49}	16.9	X	331.38057	209.47439	83.73041	6.54217	0.1135442	0.29758344	2.2219292	21	5 24.6	19.0
280457 2004 EV_{57}	17.6	X	345.43547	238.24951	13.72060	5.83384	0.1248077	0.29263665	2.2468991	21	4 12.3	19.7
280458 2004 ER_{69}	17.8	X	307.58178	19.37950	145.69001	1.61692	0.1231160	0.27529093	2.3403175	21	—	—
280459 2004 EG_{86}	16.9	X	192.60907	324.77400	126.28379	4.68155	0.0353230	0.30163965	2.2019651	21	7 4.7	19.7
280460 2004 EH_{86}	17.3	X	314.75006	16.05928	149.08294	7.38719	0.1276198	0.27559764	2.3385808	21	—	—
280461 2004 FQ_{12}	17.2	X	21.75424	354.56639	215.24949	5.82528	0.1209086	0.29130208	2.2537565	21	4 18.8	18.9
280462 2004 FY_{52}	17.0	X	346.31574	199.50860	64.55418	4.40801	0.0837350	0.29320989	2.2439696	21	5 9.7	19.0
280463 2004 FW_{78}	17.3	X	343.00858	254.38219	7.10597	3.80923	0.0967644	0.29293383	2.2453792	21	4 26.2	19.3
280464 2004 FV_{91}	17.4	X	343.27262	74.55514	168.21629	3.71690	0.1631097	0.28861196	2.2677395	21	3 20.6	19.3
280465 2004 FT_{92}	17.1	X	312.51283	133.08582	12.60159	7.23712	0.1268409	0.27230895	2.3573719	21	—	—
280466 2004 FL_{93}	17.1	X	190.87448	52.77191	33.04249	7.13580	0.0409875	0.30056076	2.2072314	21	6 24.5	20.0
280467 2004 FS_{95}	17.4	X	45.85724	86.29292	127.27627	5.20488	0.0779347	0.29820275	2.2188517	21	6 8.9	19.5
280468 2004 FN_{97}	16.9	X	21.31039	150.22166	83.26175	5.28160	0.1198163	0.29488208	2.2354783	21	5 28.2	18.5
280469 2004 GL_{10}	16.9	X	268.05546	314.92961	211.62424	6.03915	0.1170580	0.26666629	2.3905104	21	—	—
280470 2004 GF_{25}	16.6	X	317.03266	244.52421	62.54792	5.59903	0.1480862	0.29298947	2.2450949	21	5 14.4	18.9
280471 2004 GT_{25}	17.7	X	84.04343	273.25841	204.65777	5.95556	0.0734258	0.28651544	2.2787886	21	3 17.2	20.1
280472 2004 GL_{46}	16.8	X	218.63879	191.01687	183.29926	4.77696	0.1658295	0.29001521	2.2604186	21	4 16.3	20.1
280473 2004 GG_{71}	16.9	X	328.55759	160.98782	95.79122	4.23074	0.1063254	0.28719722	2.2751807	21	3 28.4	19.3
280474 2004 HY_{2}	17.2	X	204.02519	184.93222	66.44896	5.12678	0.2413048	0.26564507	2.3966330	21	—	—
280475 2004 HW_{6}	16.8	X	336.26752	218.95596	57.23740	9.10145	0.1153774	0.29099241	2.2553552	21	5 6.9	18.7
280476 2004 HJ_{17}	16.6	X	249.74610	127.57491	207.96167	5.70096	0.0727264	0.28814835	2.2701713	21	4 2.2	19.6
280477 2004 HU_{25}	16.9	X	317.15780	213.09226	57.59965	7.24650	0.1591624	0.28608789	2.2810584	21	3 23.7	19.6
280478 2004 HB_{36}	17.6	X	352.00973	95.12943	136.27122	5.49147	0.1836397	0.28770119	2.2725229	21	3 18.2	19.4
280479 2004 HG_{41}	17.3	X	320.55732	161.66208	92.57301	2.78370	0.2059105	0.28324733	2.2962835	21	2 23.5	20.1
280480 2004 HN_{45}	17.4	X	340.61276	200.64562	27.62409	5.67932	0.1122544	0.28506080	2.2865343	21	3 5.4	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280481 2004 HL_{48}	16.1	X	87.16525	264.37666	234.32222	19.91472	0.3212014	0.29422802	2.2387900	21	6 3.7	18.9
280482 2004 HK_{59}	17.4	X	250.62064	109.93740	231.35005	2.75323	0.1929442	0.28492265	2.2872733	21	4 1.1	20.9
280483 2004 JM_{12}	16.3	X	239.37721	225.47574	76.59108	28.07255	0.1727932	0.27714550	2.3298654	21	2 10.1	20.6
280484 2004 JO_{35}	17.2	X	330.10464	30.73201	184.76859	3.94438	0.1825560	0.27965089	2.3159290	21	1 16.8	19.9
280485 2004 LA_{15}	17.2	X	284.32245	158.87372	124.09467	4.71623	0.1429804	0.28018819	2.3129673	21	2 26.9	20.2
280486 2004 LM_{20}	16.9	X	319.83157	121.95711	134.28411	6.64576	0.2187187	0.28253381	2.3001479	21	2 23.1	19.7
280487 2004 LO_{29}	17.2	X	281.85651	359.20798	225.82595	4.25653	0.1060880	0.26754186	2.3852920	21	—	—
280488 2004 LL_{31}	16.4	X	318.07397	120.17781	227.18023	6.40069	0.2819396	0.28652859	2.2787188	21	6 24.9	18.4
280489 2004 ML_{5}	17.0	X	277.74129	335.37994	273.78723	3.94662	0.1183992	0.27051483	2.3677835	21	1 9.9	20.3
280490 2004 MO_{6}	17.0	X	179.79339	122.38977	229.67225	9.25119	0.2905546	0.26502311	2.4003812	21	2 15.9	21.4
280491 2004 MO_{7}	19.0	X	306.55593	61.42867	38.52178	24.07656	0.4839211	0.84882025	1.1047370	21	—	—
280492 2004 NG_{2}	17.4	X	251.92443	231.72919	71.72440	3.16488	0.2164580	0.27331286	2.3515958	21	2 16.0	21.1
280493 2004 NF_{5}	16.9	X	217.10730	65.69154	263.64581	5.23583	0.2103653	0.26881195	2.3777727	21	2 16.1	20.9
280494 2004 NN_{9}	17.1	X	266.38731	14.66466	279.39420	1.78923	0.1910388	0.27515644	2.3410800	21	2 16.7	20.6
280495 2004 NV_{14}	17.4	X	189.06388	80.96934	245.36297	1.81022	0.1861758	0.26586978	2.3952824	21	1 21.6	21.2
280496 2004 NS_{20}	16.8	X	230.81181	31.17369	269.90725	6.50922	0.1111665	0.26920549	2.3754548	21	1 26.2	20.3
280497 2004 NE_{21}	17.3	X	166.21153	146.28106	203.66895	4.37019	0.2482519	0.26378865	2.4078641	21	2 2.9	21.3
280498 2004 NF_{23}	17.4	X	231.88328	69.70463	252.50900	1.51187	0.2973717	0.26996358	2.3710057	21	2 19.0	21.7
280499 2004 NU_{32}	16.5	X	167.80696	188.68483	168.46801	12.68654	0.1977073	0.26357944	2.4091381	21	2 8.9	20.3
280500 2004 OZ_{3}	16.0	X	18.38852	161.31719	144.33740	13.96584	0.1515477	0.23458636	2.6037595	21	9 19.2	18.8
280501 2004 OB_{10}	17.5	X	271.97891	216.48069	53.95812	3.13720	0.1862939	0.27327753	2.3517984	21	1 25.8	21.2
280502 2004 PD_{3}	17.3	X	131.92530	333.63213	22.13172	2.77755	0.1861658	0.25908488	2.4369204	21	1 1.9	20.4
280503 2004 PY_{3}	17.7	X	217.06052	210.58103	122.49999	2.10910	0.2024556	0.27051444	2.3677858	21	2 23.1	21.7
280504 2004 PK_{5}	16.9	X	186.20040	167.87635	176.51961	5.95694	0.1389801	0.26677173	2.3898804	21	2 6.5	20.5
280505 2004 PA_{6}	17.1	X	182.93773	193.83961	166.64156	4.20499	0.2132856	0.26720819	2.3872773	21	2 28.2	20.9
280506 2004 PK_{6}	17.7	X	200.57432	159.54860	168.50125	2.31238	0.2240449	0.26643990	2.3918643	21	2 3.7	21.8
280507 2004 PN_{6}	17.2	X	219.61548	30.37985	273.40029	6.32085	0.1663225	0.26671329	2.3902295	21	1 19.7	21.0
280508 2004 PU_{11}	17.6	X	207.19539	103.62843	217.49416	1.77000	0.1957795	0.26707617	2.3880640	21	1 30.8	21.5
280509 2004 PN_{14}	17.2	X	161.52678	235.75095	99.93852	2.47114	0.2020250	0.26019281	2.4299977	21	1 10.3	20.8
280510 2004 PT_{23}	17.3	X	205.59624	359.38066	339.73514	2.43549	0.2083104	0.26872444	2.3782889	21	2 20.9	21.2
280511 2004 PV_{23}	17.1	X	113.24236	350.88541	13.66360	1.57257	0.2043053	0.25647718	2.4534105	21	—	—
280512 2004 PE_{27}	17.0	X	197.23616	276.44588	55.00665	4.19684	0.2596283	0.26631076	2.3926375	21	2 8.3	21.1
280513 2004 PD_{28}	17.3	X	339.33993	100.96315	213.57878	5.90436	0.2130074	0.28737240	2.2742560	21	7 3.2	18.9
280514 2004 PM_{50}	16.9	X	219.39449	194.81186	100.21535	4.93983	0.1296313	0.26595677	2.3947601	21	1 9.6	20.4
280515 2004 PQ_{64}	17.9	X	206.00730	61.43353	268.17815	0.62523	0.1863303	0.26717694	2.3874635	21	2 9.2	21.7
280516 2004 PW_{69}	17.4	X	304.85627	100.54530	210.39429	3.87818	0.1604467	0.27982933	2.3149444	21	4 29.3	19.9
280517 2004 PD_{71}	17.7	X	237.45874	290.39401	6.36900	1.98313	0.2261630	0.26982860	2.3717963	21	1 26.6	21.6
280518 2004 PY_{75}	17.0	X	181.87839	62.02265	189.24112	5.66851	0.3139947	0.25707174	2.4496262	21	12 29.8	21.4
280519 2004 PQ_{76}	17.9	X	220.12656	71.94815	227.67198	3.26242	0.2678494	0.26761020	2.3848859	21	1 16.0	22.0
280520 2004 PY_{82}	17.2	X	200.01135	182.26094	148.02931	9.28540	0.2296144	0.26543349	2.3979064	21	2 6.2	21.1
280521 2004 PY_{83}	15.9	X	338.01181	152.10008	161.28446	29.09039	0.1014605	0.22626244	2.6672337	21	7 10.9	19.6
280522 2004 PF_{86}	17.3	X	215.78479	209.93127	93.18798	3.29275	0.1851336	0.26701057	2.3884551	21	1 16.9	21.0
280523 2004 PM_{92}	17.1	X	179.95104	134.07975	207.81886	4.81924	0.2247832	0.26301699	2.4125714	21	2 2.9	21.2
280524 2004 PR_{97}	17.4	X	127.17199	163.15813	191.70956	2.22995	0.2159182	0.25622162	2.4550417	21	—	—
280525 2004 PD_{108}	17.6	X	147.43395	198.86437	135.71824	2.18917	0.2016770	0.25727291	2.4483491	21	—	—
280526 2004 PE_{109}	17.2	X	195.09931	311.20704	14.58568	3.82689	0.2139627	0.26399049	2.4066367	21	1 29.2	21.1
280527 2004 QS_{3}	14.8	X	79.67707	45.26664	229.06412	8.12189	0.2271557	0.12403337	3.9820835	21	10 25.5	20.7
280528 2004 QV_{12}	16.9	X	202.66330	247.24166	53.56718	7.60353	0.1240067	0.26252866	2.4155623	21	1 1.0	20.6
280529 2004 QJ_{21}	17.6	X	175.73982	119.88266	233.03980	1.23148	0.2102581	0.26410799	2.4059228	21	2 12.8	21.5
280530 2004 QE_{27}	16.7	X	218.51546	248.80303	42.45195	12.90902	0.2272174	0.26248299	2.4158424	21	1 7.0	21.0
280531 2004 RN_{12}	17.0	X	290.48900	56.23412	309.60412	5.83610	0.1394156	0.28446642	2.2897182	21	7 1.9	19.6
280532 2004 RG_{15}	17.9	X	229.46461	125.99088	176.69824	2.67833	0.2245058	0.26705376	2.3881976	21	1 26.7	21.8
280533 2004 RG_{25}	17.2	X	159.82532	149.68871	172.71884	1.06413	0.1991380	0.25848129	2.4407126	21	—	—
280534 2004 RK_{26}	17.5	X	163.40098	278.41556	70.37448	2.03792	0.1959237	0.26179305	2.4200851	21	1 27.9	21.0
280535 2004 RO_{40}	17.8	X	224.33172	66.84390	216.20116	1.92899	0.1900965	0.26326754	2.4110405	21	—	—
280536 2004 RE_{49}	15.8	X	252.09416	343.07239	11.19278	5.97590	0.0585618	0.21778863	2.7359779	21	5 7.5	19.6
280537 2004 RL_{50}	17.1	X	171.42609	187.60211	149.86061	3.74541	0.2030830	0.26091643	2.4255027	21	1 21.2	20.9
280538 2004 RH_{51}	16.6	X	119.86208	290.13153	52.56913	3.40124	0.1620964	0.25302822	2.4756547	21	—	—
280539 2004 RE_{53}	17.4	X	205.50208	237.22257	91.40749	2.53259	0.2047244	0.26549085	2.3975610	21	2 9.1	21.3
280540 2004 RM_{58}	17.1	X	150.17478	226.25207	126.82847	3.36702	0.2356582	0.25858558	2.4400563	21	1 24.3	20.8
280541 2004 RH_{68}	17.3	X	154.02274	225.91713	124.20344	2.34846	0.2061454	0.25874977	2.4390240	21	1 21.3	20.9
280542 2004 RL_{86}	17.6	X	204.22516	199.03403	110.28941	2.76994	0.1749438	0.26401551	2.4064846	21	1 14.5	21.5
280543 2004 RZ_{94}	17.8	X	166.80162	123.56068	218.52433	3.96535	0.2450287	0.26124497	2.4234687	21	1 25.2	21.8
280544 2004 RG_{95}	16.3	X	12.60204	179.21771	241.27709	5.69752	0.2606042	0.24565403	2.5249539	21	—	—
280545 2004 RO_{126}	17.7	X	211.76276	79.59897	214.78108	1.22943	0.1618830	0.26259448	2.4151586	21	1 2.8	21.5
280546 2004 RJ_{138}	16.1	X	354.97814	210.54649	211.31806	13.05715	0.2061832	0.24292696	2.5438153	21	—	—
280547 2004 RJ_{166}	17.5	X	223.71625	351.31135	310.46920	0.54395	0.1846997	0.26665109	2.3906013	21	1 21.9	21.4
280548 2004 RC_{187}	17.8	X	327.10713	89.27297	339.79603	18.10773	0.1168562	0.35590781	1.9720187	21	—	—
280549 2004 RJ_{203}	16.6	X	176.58257	290.22840	348.81298	6.02321	0.1269659	0.25278296	2.4772558	21	—	—
280550 2004 RX_{215}	16.7	X	212.77991	35.12475	260.78089	9.73699	0.2326176	0.26200892	2.4187556	21	1 6.3	20.8
280551 2004 RC_{224}	16.8	X	31.25980	283.06373	96.52870	6.18785	0.2036897	0.24153264	2.5535958	21	—	—
280552 2004 RT_{230}	16.1	X	238.53138	257.26257	195.32503	21.55047	0.0433256	0.22638490	2.6662717	21	8 29.4	20.1
280553 2004 RA_{259}	17.0	X	337.77647	54.79720	190.40202	6.40449	0.2062268	0.27566561	2.3381964	21	3 7.7	19.2
280554 2004 RX_{260}	17.4	X	14.31857	223.02970	178.38668	4.75534	0.0700616	0.24380994	2.5376698	21	—	—
280555 2004 RJ_{278}	16.6	X	190.32283	49.35911	255.74692	9.39187	0.1775517	0.26142903	2.4223311	21	—	—
280556 2004 RH_{293}	17.3	X	181.06915	186.03966	151.42849	1.44385	0.2124266	0.26199308	2.4188532	21	1 30.4	21.2
280557 2004 RR_{306}	15.9	X	299.87558	347.90133	55.03362	15.30178	0.2391274	0.22574617	2.6712987	21	8 31.4	19.2
280558 2004 RU_{309}	17.2	X	161.03961	316.01508	49.94907	4.90880	0.2810695	0.26196779	2.4190088	21	2 24.2	21.3
280559 2004 RQ_{311}	17.1	X	150.83807	298.53778	54.10522	10.74876	0.1870466	0.25855215	2.4402666	21	1 21.5	20.8
280560 2004 RF_{317}	16.5	X	30.81388	133.61717	251.72104	6.96267	0.0928123	0.24250420	2.5467709	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280561 2004 RD_{330}	16.8	X	216.55395	82.25173	191.53634	9.71270	0.1825531	0.25924494	2.4359172	21	—	—
280562 2004 RU_{339}	17.1	X	131.82846	317.25581	46.22978	3.36209	0.1968501	0.25624475	2.4548939	21	1 14.3	20.4
280563 2004 SJ_{14}	16.4	X	2.65062	343.89305	48.88387	10.05274	0.1625603	0.23864872	2.5741270	21	12 22.5	19.3
280564 2004 TE_{2}	17.3	X	187.05163	85.65446	221.81445	0.89634	0.1813699	0.25822189	2.4423469	21	—	—
280565 2004 TG_{2}	17.3	X	53.65568	237.43248	123.69001	0.91983	0.1279509	0.24281431	2.5446020	21	—	—
280566 2004 TC_{4}	17.5	X	152.14730	84.05551	189.29066	3.12415	0.0520608	0.24403958	2.5360776	21	—	—
280567 2004 TK_{13}	17.0	X	53.81800	254.86335	246.96502	19.74545	0.0906152	0.38166382	1.8822706	21	1 27.6	18.9
280568 2004 TN_{24}	17.7	X	210.45448	37.16655	232.98301	1.88262	0.1763117	0.25647484	2.4534255	21	—	—
280569 2004 TH_{33}	16.7	X	184.70273	46.72570	213.32247	8.24615	0.1046276	0.24743807	2.5128026	21	—	—
280570 2004 TP_{41}	16.2	X	253.45486	208.21233	240.89569	5.00646	0.0974849	0.22606687	2.6687718	21	9 6.6	19.9
280571 2004 TJ_{44}	15.7	X	200.95078	242.93383	216.46832	12.70102	0.1850272	0.21771013	2.7366355	21	7 15.9	20.4
280572 2004 TS_{44}	17.0	X	51.59653	32.99639	333.87375	2.03198	0.1416460	0.24129363	2.5552818	21	—	—
280573 2004 TG_{55}	16.5	X	104.88459	288.01923	43.04192	6.76352	0.0755950	0.24339288	2.5405678	21	—	—
280574 2004 TN_{92}	16.6	X	170.59273	258.91248	3.09739	3.82052	0.1042187	0.24495337	2.5297665	21	—	—
280575 2004 TX_{131}	16.5	X	337.52927	346.72164	67.76741	4.97896	0.1937865	0.23443688	2.6048663	21	12 7.6	18.7
280576 2004 TN_{133}	16.4	X	359.87282	206.68118	203.24199	6.22283	0.3055657	0.23665082	2.5885946	21	—	—
280577 2004 TM_{176}	15.9	X	292.12771	187.91248	230.90179	11.90944	0.1491883	0.22627570	2.6671295	21	9 9.8	19.4
280578 2004 TD_{195}	17.2	X	151.47396	63.50022	229.53536	4.53462	0.1818653	0.24835701	2.5066004	21	—	—
280579 2004 TY_{196}	17.2	X	321.73502	154.78540	250.46852	1.03050	0.0776723	0.23181055	2.6245041	21	10 23.8	20.0
280580 2004 TK_{203}	17.2	X	80.51789	132.74951	227.81425	14.50461	0.1681618	0.24375363	2.5380606	21	—	—
280581 2004 TB_{216}	16.7	X	13.24762	111.25565	288.57435	1.71817	0.1380720	0.23858119	2.5746128	21	—	—
280582 2004 TM_{225}	16.3	X	72.91342	39.31564	189.21209	13.67452	0.2063675	0.22601437	2.6691851	21	8 28.4	20.1
280583 2004 TR_{242}	16.1	X	108.09006	283.29431	90.08922	11.13878	0.2817375	0.25350388	2.4725570	21	1 9.7	18.9
280584 2004 TT_{303}	17.2	X	59.80638	142.21838	213.35603	3.54830	0.1046555	0.24341845	2.5403900	21	—	—
280585 2004 TE_{323}	16.6	X	16.97991	157.18487	223.38515	3.20184	0.0754302	0.23505277	2.6003140	21	12 15.6	19.7
280586 2004 TO_{328}	16.6	X	11.34080	304.78694	100.15013	5.84781	0.1846250	0.24226178	2.5484695	21	—	—
280587 2004 TO_{345}	16.3	X	121.10316	62.71419	252.17953	4.66719	0.1659665	0.24527517	2.5275533	21	—	—
280588 2004 TB_{346}	16.4	X	9.33285	155.76227	232.77721	12.57426	0.1639651	0.23664705	2.5886221	21	12 26.5	19.5
280589 2004 TX_{348}	16.2	X	200.93294	234.81999	211.54667	7.82574	0.1821217	0.21467066	2.7624065	21	7 1.9	20.9
280590 2004 UU	17.6	X	114.93524	18.84651	59.65937	21.85094	0.1195266	0.37815789	1.8938865	21	3 16.7	20.0
280591 2004 VD_{10}	16.2	X	200.30622	8.34473	63.93101	11.19148	0.3073874	0.21289277	2.7777646	21	6 11.2	21.3
280592 2004 VV_{12}	16.6	X	293.79569	139.23732	216.02254	12.43849	0.1471544	0.21840586	2.7308207	21	6 19.9	20.3
280593 2004 VP_{19}	16.6	X	1.67498	169.45618	238.20010	4.60012	0.1921833	0.23623366	2.5916412	21	—	—
280594 2004 VU_{19}	16.4	X	55.00859	145.20011	232.43119	30.06627	0.1577023	0.24156641	2.5533578	21	—	—
280595 2004 VW_{26}	16.4	X	90.65443	105.73444	250.97051	13.44714	0.1756860	0.24508093	2.5288886	21	—	—
280596 2004 VF_{34}	16.5	X	215.39260	307.59551	214.11715	11.81260	0.0636752	0.23031808	2.6358298	21	10 31.9	20.2
280597 2004 VP_{35}	17.2	X	107.22156	27.02689	59.57766	23.08946	0.0947644	0.37735961	1.8965564	21	3 12.9	19.6
280598 2004 VW_{41}	16.8	X	162.04020	115.22581	49.25002	13.55117	0.0572433	0.22189381	2.7021280	21	9 10.6	21.0
280599 2004 VB_{51}	17.0	X	118.57574	194.86139	123.15921	4.22959	0.1983135	0.24414290	2.5353620	21	—	—
280600 2004 VN_{53}	16.2	X	296.46075	10.85267	62.18303	4.20416	0.0846713	0.22941101	2.6427731	21	10 22.5	19.4
280601 2004 VO_{76}	16.5	X	4.60816	339.78426	59.99448	9.37793	0.1187213	0.23682314	2.5873388	21	12 28.9	19.6
280602 2004 VU_{77}	16.0	X	17.76251	324.47497	68.33276	14.76816	0.0879563	0.23664290	2.5886523	21	—	—
280603 2004 VN_{92}	16.5	X	121.88884	104.03492	171.34834	4.74821	0.1445403	0.23578423	2.5949334	21	12 12.5	20.6
280604 2004 VJ_{95}	16.4	X	110.60793	68.06896	218.69104	12.92031	0.1816682	0.23594436	2.5937592	21	12 16.7	20.8
280605 2004 WX_{1}	16.2	X	171.48452	57.57476	59.73657	10.16669	0.1140389	0.21380049	2.7698967	21	7 15.9	20.6
280606 2004 WT_{8}	16.2	X	319.53893	163.39452	247.89454	11.99774	0.2747638	0.22890982	2.6466292	21	10 8.0	18.5
280607 2004 WY_{9}	16.3	X	52.45177	163.79489	206.96809	17.35967	0.2023177	0.23994255	2.5648652	21	—	—
280608 2004 XE	17.3	X	138.57160	5.29763	52.16284	23.34093	0.1282358	0.37708249	1.8974855	21	3 22.8	19.9
280609 2004 XR_{5}	16.4	X	234.67960	159.66466	283.43352	3.53466	0.0956857	0.21511504	2.7586008	21	8 7.9	20.4
280610 2004 XJ_{8}	16.5	X	47.82901	289.84254	83.06412	12.67764	0.2219071	0.23994581	2.5648419	21	—	—
280611 2004 XW_{14}	15.8	X	28.54888	177.41083	258.14815	21.57210	0.0038356	0.24217257	2.5490954	21	—	—
280612 2004 XF_{20}	16.1	X	201.42526	15.71137	71.29090	9.00935	0.1952760	0.21252361	2.7809804	21	7 3.7	20.8
280613 2004 XQ_{23}	15.9	X	188.62287	74.55847	59.41388	14.04305	0.0824729	0.21762633	2.7373379	21	8 31.3	20.3
280614 2004 XY_{24}	16.0	X	73.86724	263.46778	91.93552	14.31779	0.1946946	0.23889591	2.5723511	21	—	—
280615 2004 XB_{50}	17.4	X	87.85050	357.29557	91.53307	23.83279	0.1181743	0.37327048	1.9103823	21	1 24.5	18.8
280616 2004 XC_{56}	15.6	X	34.57704	180.31200	248.21693	5.04926	0.1266857	0.18292079	3.0734583	21	—	—
280617 2004 XC_{63}	16.2	X	26.77936	273.66439	105.02998	11.97210	0.2817860	0.23354367	2.6115038	21	—	—
280618 2004 XU_{64}	15.9	X	249.96942	197.49946	252.18488	12.34293	0.0642552	0.22295820	2.6935213	21	9 3.4	19.9
280619 2004 XY_{77}	16.3	X	99.04399	116.81597	240.02962	3.74012	0.2047658	0.24475415	2.5311391	21	—	—
280620 2004 XT_{83}	16.3	X	232.42425	301.41336	122.40525	5.61509	0.1091173	0.21264223	2.7799461	21	7 10.3	20.4
280621 2004 XC_{84}	16.1	X	56.66025	290.45606	85.36717	5.76363	0.2072674	0.23785024	2.5798848	21	—	—
280622 2004 XM_{86}	16.5	X	122.93912	344.83573	121.04540	3.79834	0.1573001	0.19942332	2.9014745	21	5 15.9	21.0
280623 2004 XZ_{93}	16.3	X	195.20000	24.66359	84.44410	9.49312	0.1434632	0.21265313	2.7798510	21	7 28.8	20.8
280624 2004 XH_{99}	16.4	X	70.81194	126.33820	236.34643	3.74404	0.2450631	0.23957382	2.5674962	21	—	—
280625 2004 XT_{103}	16.1	X	30.16734	300.00271	80.76854	6.40030	0.2853010	0.23440602	2.6050949	21	—	—
280626 2004 XO_{104}	15.6	X	5.47193	33.97914	47.63478	6.04543	0.1505206	0.17935627	3.1140459	21	—	—
280627 2004 XR_{122}	15.5	X	26.98339	206.43602	273.68188	9.62324	0.0482762	0.18921772	3.0048872	21	1 13.3	19.5
280628 2004 XY_{126}	16.5	X	318.02955	159.90114	227.80869	1.68115	0.1101997	0.22333291	2.6905077	21	9 19.1	19.6
280629 2004 XK_{128}	16.6	X	320.85060	127.32294	268.05681	2.76143	0.0945777	0.22497612	2.6773908	21	10 5.4	19.6
280630 2004 XJ_{142}	16.7	X	319.04023	335.20893	53.39693	6.46567	0.0878011	0.22400310	2.6851385	21	9 28.1	19.9
280631 2004 XN_{145}	15.3	X	335.38160	223.64328	295.16567	11.93347	0.1217287	0.18136422	3.0910188	21	—	—
280632 2004 XN_{157}	17.2	X	178.84320	295.08416	95.78833	24.52194	0.0774162	0.37708157	1.8974886	21	3 28.9	20.2
280633 2004 XH_{162}	15.8	X	3.47625	325.10756	72.47890	6.37955	0.3069974	0.23252129	2.6191532	21	—	—
280634 2004 XE_{177}	15.7	X	323.52758	177.53514	305.59797	8.83106	0.0422836	0.17563751	3.1578479	21	—	—
280635 2004 YO_{1}	16.4	X	49.24042	76.81279	286.20533	3.75849	0.2459463	0.23397240	2.6083125	21	—	—
280636 2004 YO_{13}	16.4	X	111.13184	179.29277	170.15625	0.42271	0.2991967	0.24258102	2.5462332	21	—	—
280637 2004 YD_{14}	16.3	X	2.02270	249.49469	108.78877	12.50376	0.2159389	0.22441559	2.6818472	21	11 12.1	19.2
280638 2004 YB_{33}	16.1	X	18.85922	166.11531	219.10543	10.71006	0.1293873	0.23461778	2.6035271	21	12 30.6	19.5
280639 2005 AH	16.6	X	44.76529	280.33071	101.73179	5.28180	0.2362855	0.23687136	2.5869876	21	—	—
280640 Ruetsch	16.2	X	300.98653	269.68266	108.43404	7.32717	0.0639210	0.21517595	2.7580803	21	8 16.5	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280641 Edosara	16.4	X	276.35446	276.71258	112.18418	5.95718	0.0521995	0.21256101	2.7806542	21	7 27.4	20.0
280642 Doubs	16.2	X	24.95120	39.30878	125.27923	10.36807	0.2638544	0.18797147	3.0181542	21	3 14.9	18.9
280643 2005 AY_{37}	15.5	X	273.30631	74.89109	103.86405	13.20924	0.1555776	0.17164759	3.2065959	21	—	—
280644 2005 AN_{65}	16.5	X	250.55145	116.64107	281.02360	3.29776	0.0746294	0.20894214	2.8126694	21	7 1.7	20.5
280645 2005 AE_{77}	15.2	X	214.20959	275.64677	350.05394	7.78072	0.1093340	0.17536206	3.1611538	21	—	—
280646 2005 BD_{3}	16.1	X	256.08727	292.19880	130.57936	6.32931	0.0493182	0.21491453	2.7603164	21	8 15.5	19.7
280647 2005 BD_{12}	16.3	X	302.46148	298.36839	93.40248	4.83935	0.0883544	0.21753111	2.7381367	21	9 4.3	19.6
280648 2005 BR_{19}	16.6	X	313.79658	45.74980	310.11356	3.59602	0.0876060	0.21134603	2.7913009	21	7 31.5	20.0
280649 2005 BJ_{21}	16.7	X	291.87564	241.20262	137.65108	5.20691	0.0875582	0.21204754	2.7851413	21	7 29.6	20.2
280650 2005 BM_{27}	15.6	X	251.33398	356.34990	139.11830	22.87832	0.1045173	0.22383355	2.6864943	21	11 12.8	19.8
280651 2005 BE_{33}	16.2	X	69.27739	195.75132	120.68837	14.82624	0.2468673	0.22507607	2.6765981	21	12 20.7	20.5
280652 Aimaku	17.3	X	45.92627	330.59048	127.07649	23.78628	0.0857851	0.36257235	1.9477786	21	—	—
280653 2005 CC_{23}	15.3	X	134.50070	330.59616	130.07594	28.55735	0.1753441	0.19704613	2.9247636	21	5 30.7	20.5
280654 2005 CX_{31}	16.5	X	174.40507	319.82300	107.74380	4.16695	0.1111321	0.19851508	2.9103176	21	5 17.1	21.0
280655 2005 CS_{39}	15.9	X	318.04458	118.93887	143.60034	10.86744	0.0638314	0.19022686	2.9942507	21	4 11.0	20.0
280656 2005 EB_{3}	16.4	X	255.56483	272.10635	135.96383	4.50000	0.0945286	0.21026839	2.8008298	21	7 18.7	20.3
280657 2005 ED_{8}	16.3	X	350.77294	147.56266	44.11731	1.58110	0.1116742	0.18064422	3.0992266	21	2 19.2	20.1
280658 2005 EU_{18}	16.2	X	243.09603	229.58402	43.95301	1.00234	0.1309977	0.17467483	3.1694397	21	1 20.7	21.2
280659 2005 EZ_{20}	15.7	X	28.85713	70.52104	151.87371	13.12891	0.0409830	0.19504282	2.9447566	21	5 29.7	19.8
280660 2005 EO_{24}	17.2	X	207.42861	27.51836	132.17366	5.62416	0.1616394	0.27539126	2.3397491	21	10 17.7	20.6
280661 2005 ET_{36}	16.6	X	74.63323	61.37007	75.59166	2.79847	0.2213724	0.19108777	2.9852505	21	5 6.3	20.3
280662 2005 EY_{43}	16.4	X	252.23798	172.29222	194.05734	1.58097	0.1184667	0.19649338	2.9302461	21	5 19.5	20.7
280663 2005 EU_{55}	16.4	X	329.94937	56.87102	170.41005	10.14425	0.0428661	0.18546275	3.0453105	21	3 12.9	20.5
280664 2005 ES_{63}	15.0	X	297.84537	301.50311	343.10016	15.54963	0.1927641	0.18776159	3.0204029	21	3 18.1	19.3
280665 2005 EC_{66}	15.3	X	358.15558	30.43555	126.87729	18.19340	0.1589536	0.17878526	3.1206729	21	1 13.0	19.1
280666 2005 EG_{91}	15.7	X	311.63628	94.38991	199.20521	13.51434	0.1159747	0.19080829	2.9881649	21	5 2.2	19.6
280667 2005 EA_{137}	15.2	X	331.74178	152.01485	17.29426	15.11501	0.0478194	0.17256272	3.1952491	21	1 7.8	19.9
280668 2005 EV_{149}	15.8	X	215.11170	213.02802	165.70601	11.43213	0.0722660	0.18883033	3.0089955	21	5 1.6	20.4
280669 2005 EL_{150}	15.5	X	220.46602	293.36929	38.00052	11.64292	0.0843271	0.18022941	3.1039802	21	3 13.5	20.4
280670 2005 ES_{153}	16.0	X	287.52974	112.07669	114.17908	23.92870	0.2666916	0.17311113	3.1884973	21	—	—
280671 2005 EC_{157}	16.0	X	115.77177	279.37880	176.46704	8.72102	0.0752102	0.18862933	3.0111327	21	4 16.3	20.3
280672 2005 EK_{159}	15.2	X	243.73747	329.08096	0.40250	10.60044	0.1179213	0.18572621	3.0424300	21	3 26.1	20.0
280673 2005 EL_{162}	16.7	X	288.65642	133.50216	163.19263	4.29793	0.2902443	0.18343530	3.0677086	21	3 14.5	21.5
280674 2005 EB_{172}	15.4	X	10.33606	347.33759	189.36694	13.02580	0.1411650	0.18213433	3.0822995	21	2 25.8	19.0
280675 2005 ED_{177}	16.0	X	33.36451	296.78577	193.79367	11.91935	0.1180689	0.17788587	3.1311827	21	2 5.6	19.9
280676 2005 EE_{185}	15.5	X	20.48391	300.79351	200.53685	16.85028	0.1289704	0.17773651	3.1329367	21	1 27.9	19.6
280677 2005 EL_{185}	15.4	X	309.10916	329.99419	238.73113	8.75559	0.1963707	0.17461859	3.1701202	21	1 2.9	20.1
280678 2005 EO_{194}	16.3	X	290.03560	37.01239	193.60933	4.52393	0.1026550	0.17634598	3.1493844	21	1 19.2	20.9
280679 2005 EG_{200}	14.9	X	31.88012	47.08407	112.51165	24.13734	0.1488326	0.18164400	3.0878439	21	3 26.9	19.0
280680 2005 EG_{220}	15.3	X	283.58430	279.41229	330.28245	24.76085	0.2219327	0.17932076	3.1144570	21	1 27.8	20.3
280681 2005 ET_{226}	15.6	X	52.29604	124.93420	2.69464	10.62699	0.0864430	0.18366440	3.0651571	21	3 5.5	19.5
280682 2005 EF_{233}	15.8	X	354.98955	98.14921	95.21527	7.29881	0.1844836	0.18301230	3.0724337	21	2 22.0	19.3
280683 2005 EZ_{234}	16.5	X	323.31733	199.76058	17.88671	3.62223	0.1513268	0.18054601	3.1003504	21	2 7.6	20.5
280684 2005 EA_{243}	15.6	X	20.74439	85.03577	76.25358	12.19246	0.0589469	0.18277432	3.0751002	21	3 5.2	19.8
280685 2005 EQ_{246}	16.6	X	359.45733	81.46839	112.88297	1.50225	0.1047377	0.18309638	3.0714931	21	3 8.0	20.2
280686 2005 EU_{249}	15.9	X	70.00677	357.64045	139.86283	12.32651	0.0868941	0.18809240	3.0168604	21	4 14.6	20.0
280687 2005 EB_{268}	16.1	X	291.39944	42.80811	194.91863	11.56558	0.0540066	0.17725829	3.1385690	21	2 2.4	20.8
280688 2005 EP_{276}	15.6	X	245.54976	259.65142	13.95897	9.24424	0.0514855	0.17432480	3.1736809	21	1 31.4	20.4
280689 2005 ET_{282}	15.4	X	322.19067	125.74365	124.17373	11.64237	0.0390098	0.18474565	3.0531858	21	4 5.7	19.7
280690 2005 EQ_{317}	15.5	X	7.70439	63.21444	76.26845	2.34832	0.1395810	0.17664972	3.1457732	21	1 8.8	19.1
280691 2005 EL_{330}	15.6	X	14.48266	99.34547	51.58162	16.95745	0.1891019	0.18023777	3.1038842	21	2 6.8	19.3
280692 2005 EU_{330}	16.0	X	215.30869	89.81149	112.95130	13.17639	0.1391784	0.22251992	2.6970570	21	12 13.1	20.0
280693 2005 EW_{330}	16.0	X	339.83701	87.55676	112.51508	13.40800	0.2193545	0.18037034	3.1023631	21	1 30.1	19.7
280694 2005 FX_{4}	15.2	X	346.15199	69.14475	116.62978	10.87299	0.1832352	0.17774164	3.1328764	21	1 27.4	18.8
280695 2005 FX_{14}	15.4	X	50.79495	26.67142	112.01926	11.04272	0.0528318	0.18176978	3.0864193	21	3 17.2	19.7
280696 2005 GL_{2}	15.9	X	250.08216	242.85099	32.17805	9.01008	0.0359493	0.17548521	3.1596746	21	2 8.5	20.6
280697 2005 GE_{23}	16.3	X	359.47327	79.30448	77.29470	3.31616	0.2159882	0.17696157	3.1420764	21	1 8.5	19.7
280698 2005 GP_{23}	15.1	X	304.63902	127.79441	133.47333	27.05046	0.1445435	0.18194212	3.0844700	21	3 12.8	19.7
280699 2005 GD_{26}	15.3	X	31.92981	320.70606	204.94803	15.75646	0.0746244	0.18168710	3.0873556	21	3 18.5	19.3
280700 2005 GS_{28}	15.5	X	291.63782	187.17545	17.51615	13.12479	0.0873556	0.17055909	3.2202244	21	—	—
280701 2005 GC_{37}	15.4	X	314.13192	98.42767	105.87795	16.31745	0.1541504	0.17391193	3.1787019	21	1 10.6	19.8
280702 2005 GQ_{39}	15.7	X	340.29734	94.79806	97.82510	10.53971	0.0774328	0.17737758	3.1371617	21	2 11.5	19.9
280703 2005 GC_{50}	15.7	X	170.32574	165.14844	198.82317	10.72638	0.0809247	0.17657727	3.1466337	21	2 21.8	20.6
280704 2005 GN_{54}	16.3	X	174.74852	201.51831	195.74877	8.46787	0.1102275	0.18753433	3.0228425	21	4 10.1	20.9
280705 2005 GJ_{56}	16.6	X	100.01156	191.42816	202.40737	6.64298	0.1955516	0.23510741	2.5999111	21	1 14.0	19.8
280706 2005 GL_{58}	16.3	X	2.16926	56.72271	109.57227	2.58564	0.1204364	0.17699781	3.1416475	21	2 4.4	20.2
280707 2005 GV_{59}	15.8	X	251.20014	281.34707	17.43593	8.44769	0.2356567	0.17571599	3.1569075	21	2 21.5	21.1
280708 2005 GH_{65}	15.2	X	252.77407	265.85576	23.01524	9.76375	0.0824623	0.17736255	3.1373389	21	2 23.8	20.0
280709 2005 GN_{68}	15.2	X	347.28095	49.28969	119.49625	17.73061	0.1739906	0.17632592	3.1496233	21	1 9.1	19.0
280710 2005 GH_{80}	16.0	X	323.64275	117.86697	70.94087	6.79366	0.1809038	0.17320546	3.1873396	21	—	—
280711 2005 GJ_{80}	15.6	X	129.79424	241.16266	150.89843	5.74231	0.0646395	0.17362239	3.1822349	21	2 12.7	20.2
280712 2005 GB_{88}	15.5	X	270.28284	60.38659	217.15521	16.09748	0.1927229	0.17625112	3.1505143	21	2 8.5	20.8
280713 2005 GQ_{89}	15.5	X	273.38832	95.54090	196.98754	17.79930	0.0578437	0.18129827	3.0917683	21	3 19.4	20.0
280714 2005 GW_{104}	16.1	X	188.40831	153.95319	180.02190	5.52359	0.0639401	0.17391291	3.1786900	21	2 6.4	20.9
280715 2005 GD_{107}	15.6	X	163.91117	194.18495	186.07003	9.50972	0.1246486	0.17994266	3.1072769	21	3 10.6	20.5
280716 2005 GY_{112}	15.2	X	338.81607	47.44987	138.55998	16.70618	0.0653398	0.17523825	3.1626425	21	1 31.5	19.5
280717 2005 GC_{116}	16.2	X	312.50357	58.53351	172.23472	4.95323	0.1349950	0.17739261	3.1369844	21	2 10.3	20.5
280718 2005 GQ_{124}	15.4	X	73.73505	36.47780	101.08480	11.20711	0.0461546	0.18794385	3.0184499	21	4 15.4	19.7
280719 2005 GV_{128}	15.5	X	269.11142	134.30733	122.97536	28.91092	0.2166561	0.17177937	3.2049558	21	1 19.3	20.6
280720 2005 GA_{139}	15.2	X	330.82765	140.72971	30.48052	16.19652	0.1162706	0.17145581	3.2089867	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280721 2005 GX_{139}	15.6	X	250.58602	120.29318	202.93689	21.73044	0.2722122	0.17772543	3.1330669	21	3 12.0	21.2
280722 2005 GW_{161}	15.1	X	242.15668	6.32818	265.25496	12.02152	0.1370989	0.17296851	3.1902498	21	1 15.4	20.3
280723 2005 GD_{172}	16.0	X	343.26662	67.27337	102.95965	2.62205	0.1295278	0.17471395	3.1689666	21	1 11.2	20.0
280724 2005 GY_{179}	14.9	X	319.61270	309.60811	246.83119	26.04617	0.1848224	0.17500216	3.1654864	21	—	—
280725 2005 GV_{180}	15.4	X	227.20432	141.68741	185.06464	10.47983	0.0752305	0.17992601	3.1074686	21	3 8.9	20.1
280726 2005 GD_{181}	15.3	X	242.37549	256.23969	42.82767	9.13560	0.0467942	0.17777618	3.1324705	21	2 27.9	20.0
280727 2005 GU_{192}	16.6	X	72.04592	336.12476	196.96572	1.26632	0.0311525	0.19598938	2.9352676	21	5 20.8	20.5
280728 2005 GH_{220}	15.7	X	19.60352	357.58574	144.51789	11.57531	0.1753501	0.17803295	3.1294579	21	1 29.7	19.1
280729 2005 HE_{1}	16.5	X	286.50252	145.11491	82.96885	0.94303	0.1078158	0.17167832	3.2062133	21	1 13.8	21.3
280730 2005 HS_{3}	15.2	X	200.18615	304.33669	36.53695	17.35393	0.0960540	0.17790520	3.1309559	21	3 8.2	20.3
280731 2005 JQ_{4}	16.3	X	167.59382	184.36606	143.39224	13.53889	0.1828388	0.22302559	2.6929787	21	1 10.4	20.7
280732 2005 JE_{20}	15.5	X	290.89947	62.30048	163.16074	16.06830	0.1429070	0.17070008	3.2184509	21	1 10.4	20.5
280733 2005 JB_{72}	16.3	X	278.15657	53.93411	183.73046	5.42920	0.1252132	0.17287236	3.1914326	21	1 12.9	21.2
280734 2005 JY_{87}	15.8	X	141.66251	218.01375	206.71020	9.66906	0.1033342	0.18620286	3.0372356	21	4 8.5	20.3
280735 2005 JB_{92}	15.6	X	356.79183	272.91897	238.90245	19.82546	0.2272488	0.17600402	3.1534624	21	—	—
280736 2005 JT_{99}	15.4	X	78.53069	303.98248	128.44887	9.65746	0.0170991	0.16855540	3.2456943	21	1 25.4	20.0
280737 2005 JX_{103}	15.6	X	122.29408	14.70261	47.95780	10.16987	0.0884591	0.17701094	3.1414922	21	3 20.3	20.2
280738 2005 JA_{130}	15.7	X	219.47009	213.56949	79.76376	5.62197	0.1079741	0.16822206	3.2499805	21	1 24.1	20.9
280739 2005 JK_{142}	15.5	X	355.19091	116.70716	89.43716	9.71568	0.0362013	0.18147844	3.0897216	21	3 26.4	19.8
280740 2005 KC_{4}	16.1	X	357.53664	296.51813	215.83501	12.75810	0.2521977	0.17481295	3.1677701	21	—	—
280741 2005 LC_{1}	16.2	X	163.06770	35.14508	226.51271	8.41469	0.1997866	0.21378709	2.7700125	21	12 26.9	21.0
280742 2005 LY_{42}	18.6	X	44.14792	333.33136	339.08806	2.00372	0.3556841	0.31355159	2.1458369	21	12 16.4	21.7
280743 2005 LM_{51}	15.6	X	64.19807	243.01268	231.14795	21.12908	0.1031330	0.23541086	2.5976764	21	2 13.7	19.3
280744 2005 MA_{41}	18.1	X	5.75648	12.68568	301.43941	1.28603	0.1719078	0.31099426	2.1575844	21	9 16.9	19.4
280745 2005 NF_{2}	15.5	X	341.03450	288.82106	299.97095	24.05747	0.2825394	0.17374448	3.1807440	21	2 18.5	19.5
280746 2005 NJ_{42}	17.6	X	162.51774	262.87383	138.01377	7.33733	0.1571915	0.28881000	2.2667027	21	3 29.4	20.9
280747 2005 NM_{78}	17.6	X	121.87847	321.60633	125.72559	3.31758	0.0727963	0.29092561	2.2557004	21	3 31.8	20.2
280748 2005 NO_{94}	14.8	X	130.05485	47.98627	261.21814	8.65964	0.0614433	0.14670661	3.5604339	21	—	—
280749 2005 OL_{1}	15.6	X	198.33572	246.18359	164.53674	9.08602	0.1394240	0.17295950	3.1903606	21	5 21.7	20.8
280750 2005 PD_{14}	17.8	X	47.07689	224.52586	34.39862	1.74864	0.1193920	0.30834844	2.1699091	21	8 30.6	19.9
280751 2005 QR_{19}	17.9	X	271.29006	176.89017	183.96678	2.07827	0.1679526	0.29853109	2.2172245	21	5 23.1	20.8
280752 2005 QP_{21}	17.1	X	312.41748	203.35720	120.12355	5.61937	0.0893841	0.29983247	2.2108042	21	6 11.3	19.4
280753 2005 QR_{25}	17.3	X	127.91903	342.55201	103.09361	2.41334	0.1270301	0.28419897	2.2911545	21	4 14.9	20.3
280754 2005 QB_{29}	17.5	X	30.87744	113.47937	136.98480	4.04635	0.1540963	0.30335603	2.1936515	21	7 20.8	19.1
280755 2005 QN_{70}	17.1	X	319.89351	172.87059	166.21796	6.67394	0.1684611	0.30334530	2.1937032	21	7 6.7	18.9
280756 2005 QU_{72}	16.9	X	167.67599	198.40609	201.78377	5.50554	0.1169214	0.28436456	2.2902650	21	3 27.7	20.0
280757 2005 QP_{80}	17.3	X	296.10158	237.97949	114.68774	4.08817	0.1515746	0.30171725	2.2015875	21	6 17.9	19.5
280758 2005 QG_{84}	17.9	X	345.60567	122.14127	195.76244	2.85830	0.2070791	0.30506209	2.1854651	21	7 29.9	18.9
280759 2005 QX_{96}	17.3	X	89.21204	284.61639	134.64214	5.91746	0.1525201	0.27540187	2.3396889	21	1 14.8	19.6
280760 2005 QB_{165}	17.3	X	158.45044	16.15517	48.01986	6.49311	0.1092924	0.28595357	2.2817726	21	4 19.7	20.3
280761 2005 QH_{166}	17.0	X	274.58530	211.39024	178.12800	25.10509	0.2150014	0.30244613	2.1980490	21	6 29.6	20.5
280762 2005 QM_{178}	17.4	X	29.54728	78.26018	179.44604	4.69909	0.1100960	0.30309323	2.1949193	21	7 22.9	19.4
280763 2005 RU_{2}	16.7	X	264.24668	155.90540	207.60607	4.86550	0.2153704	0.29585110	2.2305943	21	5 12.8	19.9
280764 2005 RE_{14}	17.7	X	20.95120	338.22853	286.72726	0.70933	0.1124350	0.30331926	2.1938288	21	7 19.2	19.4
280765 2005 RY_{41}	17.0	X	117.68904	250.04284	198.54298	6.54609	0.0768225	0.28505069	2.2865883	21	3 26.7	19.8
280766 2005 RQ_{44}	17.1	X	141.40115	185.53482	232.85211	7.99811	0.1152374	0.28178297	2.3042321	21	3 19.3	20.3
280767 2005 SQ_{7}	16.8	X	7.24269	171.96245	349.16649	2.15421	0.1147373	0.27493099	2.3423597	21	1 11.4	19.2
280768 2005 SE_{13}	15.4	X	50.74913	55.71422	248.36188	1.74767	0.2068480	0.12572838	3.9462127	21	10 25.5	20.6
280769 2005 SJ_{20}	16.5	X	71.04007	311.69301	162.61115	6.32489	0.0681486	0.27677297	2.3319555	21	2 21.4	19.0
280770 2005 SW_{20}	17.1	X	211.91044	318.31284	65.69101	5.50448	0.1552850	0.28714866	2.2754372	21	4 23.7	20.6
280771 2005 SZ_{20}	17.0	X	148.74216	210.71796	163.82376	6.42296	0.1247328	0.27471542	2.3435849	21	2 2.5	20.2
280772 2005 SJ_{37}	17.6	X	228.14209	202.43445	175.03065	3.91097	0.1365198	0.29101016	2.2552634	21	5 1.5	20.8
280773 2005 SF_{50}	17.3	X	102.16332	247.24821	196.35095	5.99199	0.1270177	0.27691844	2.3311388	21	3 6.0	20.1
280774 2005 SM_{63}	16.8	X	32.70821	152.74303	13.24473	7.10955	0.0479372	0.28167539	2.3048188	21	3 7.1	19.2
280775 2005 SR_{68}	17.3	X	98.66684	211.60442	204.53757	4.49977	0.2182634	0.27218090	2.3581112	21	2 5.9	19.7
280776 2005 SP_{69}	16.6	X	236.61739	354.09850	20.38058	6.16607	0.1880258	0.29153943	2.2525331	21	4 30.6	20.0
280777 2005 SU_{72}	17.5	X	290.97866	181.27558	171.16531	5.33691	0.2068444	0.29811129	2.2193056	21	5 31.7	20.1
280778 2005 SB_{112}	17.1	X	93.61054	184.44438	243.97484	4.77433	0.1334325	0.27472646	2.3435221	21	1 31.3	19.6
280779 2005 SE_{118}	17.3	X	258.42819	270.29273	92.07437	3.93004	0.1233220	0.29442512	2.2377907	21	5 15.8	20.3
280780 2005 SC_{124}	17.8	X	243.45923	182.65891	191.11747	2.37058	0.1342601	0.29339602	2.2430204	21	5 12.6	20.9
280781 2005 SO_{129}	16.8	X	59.83245	221.10392	204.09503	3.62763	0.1743279	0.26674376	2.3900475	21	—	—
280782 2005 SA_{130}	17.8	X	257.22667	109.07015	247.79976	1.86524	0.2039771	0.29307058	2.2446807	21	4 26.9	20.9
280783 2005 SV_{139}	17.8	X	307.90916	158.86674	167.72945	3.50935	0.1539549	0.29801029	2.2198070	21	5 28.2	20.0
280784 2005 SG_{149}	17.1	X	76.27492	17.24742	65.33535	2.98640	0.1565550	0.27171973	2.3607786	21	1 28.5	19.1
280785 2005 SB_{158}	17.7	X	0.96655	86.97861	185.74062	5.19500	0.1302799	0.29730067	2.2233378	21	6 19.3	19.5
280786 2005 SJ_{175}	15.8	X	336.97188	17.19974	310.80152	4.38375	0.1806739	0.17789635	3.1310598	21	7 22.2	19.2
280787 2005 ST_{179}	17.4	X	204.36498	214.15223	172.18847	5.88519	0.1090046	0.28845739	2.2685496	21	4 19.5	20.6
280788 2005 SK_{187}	17.0	X	268.23939	111.91253	234.87650	4.38920	0.1335885	0.29317260	2.2441599	21	5 3.5	20.0
280789 2005 ST_{204}	17.2	X	14.95056	226.26290	85.60645	3.34037	0.2031709	0.30836396	2.1698363	21	10 11.7	18.8
280790 2005 SP_{210}	17.4	X	157.92392	116.03210	321.92093	4.04959	0.1378897	0.28704819	2.2759681	21	5 7.1	20.6
280791 2005 SL_{239}	17.7	X	3.67074	322.71814	172.74244	3.81051	0.1741751	0.27037705	2.3685879	21	—	—
280792 2005 SM_{263}	17.2	X	133.25381	211.85036	209.72769	6.17421	0.0767900	0.28252444	2.3001988	21	3 9.2	20.1
280793 2005 SC_{266}	16.9	X	149.18235	197.14042	227.42202	5.32924	0.1030778	0.28535383	2.2849686	21	4 6.1	19.8
280794 2005 TV_{3}	16.8	X	227.48349	301.81606	68.21754	5.39296	0.1746780	0.28951664	2.2630129	21	4 19.9	20.2
280795 2005 TY_{17}	17.5	X	200.16522	328.74173	73.07688	2.63624	0.1952067	0.28847854	2.2684387	21	5 4.5	21.2
280796 2005 TV_{24}	17.9	X	295.41124	148.21241	152.95144	0.72117	0.1715782	0.28971111	2.2620001	21	3 30.5	20.6
280797 2005 TP_{26}	17.5	X	11.25286	50.96781	44.61957	1.98267	0.1520550	0.26098808	2.4250588	21	—	—
280798 2005 TU_{27}	17.0	X	105.47149	255.86848	145.81277	3.57939	0.1042748	0.27086916	2.3657182	21	1 10.5	19.6
280799 2005 TB_{56}	17.7	X	235.95680	207.05514	159.68393	3.11940	0.1882425	0.28945056	2.2633573	21	4 22.2	21.2
280800 2005 TZ_{71}	16.6	X	158.76622	11.05344	36.06967	8.18740	0.0881361	0.28499858	2.2868671	21	3 27.5	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280801 2005 TK_{72}	17.5	X	299.04564	274.87851	66.69678	2.46633	0.1970590	0.30021129	2.2089440	21	5 27.9	19.7
280802 2005 TN_{104}	17.4	X	3.18169	20.39718	287.43970	2.79364	0.2326485	0.30442597	2.1885086	21	9 5.1	18.3
280803 2005 TC_{107}	16.8	X	329.98784	193.52239	37.70274	6.80118	0.0649501	0.28140434	2.3062985	21	3 2.4	19.5
280804 2005 TR_{132}	16.7	X	148.00764	296.67318	203.31530	11.92108	0.2052134	0.22920474	2.6443584	21	7 21.3	21.4
280805 2005 TP_{143}	17.0	X	317.80670	144.48131	71.29378	5.26603	0.1595250	0.27734318	2.3287582	21	1 6.6	19.9
280806 2005 TK_{147}	17.1	X	301.87126	188.21909	54.25164	7.58306	0.0654540	0.27972105	2.3155417	21	2 6.8	20.1
280807 2005 TN_{164}	18.0	X	327.43207	78.91779	225.05024	6.33507	0.1637989	0.29626413	2.2285207	21	5 25.9	20.0
280808 2005 TC_{168}	17.4	X	5.94927	170.10081	294.56685	0.43540	0.1386276	0.26226007	2.4172112	21	—	—
280809 2005 TE_{172}	16.8	X	195.69887	135.79429	232.05743	5.75968	0.1396062	0.28197427	2.3031898	21	3 14.3	20.4
280810 2005 TT_{177}	17.6	X	290.57487	159.11082	170.17748	6.75369	0.1852248	0.29549490	2.2323865	21	5 2.0	20.4
280811 2005 TC_{186}	18.0	X	356.83230	306.53035	188.49218	1.90080	0.1572623	0.26724615	2.3870513	21	—	—
280812 2005 TL_{191}	15.8	X	340.02963	254.86153	113.02862	6.30504	0.1647909	0.18132600	3.0914530	21	9 26.7	19.2
280813 2005 UQ_{7}	17.1	X	149.50737	149.43900	274.78729	6.49101	0.0755468	0.28369569	2.2938634	21	3 31.8	20.2
280814 2005 UZ_{8}	17.3	X	269.65876	307.55226	51.92623	7.05660	0.2416669	0.29564977	2.2316069	21	5 9.7	20.4
280815 2005 US_{17}	16.1	X	326.22796	162.77224	202.71766	12.15015	0.0658749	0.23889472	2.5723596	21	9 3.5	19.3
280816 2005 UY_{19}	16.9	X	216.02345	137.11525	233.44211	5.64030	0.1944908	0.28446756	2.2897121	21	4 6.5	20.5
280817 2005 UZ_{23}	17.3	X	324.06368	284.46722	227.56607	4.78467	0.1567155	0.26211556	2.4180996	21	—	—
280818 2005 UM_{37}	17.2	X	258.38842	277.68881	59.90152	5.99364	0.1921372	0.28737667	2.2742335	21	4 7.1	20.6
280819 2005 UD_{40}	17.8	X	224.06299	139.95304	212.18574	2.71511	0.1166256	0.28204505	2.3028045	21	3 24.4	21.2
280820 2005 UE_{49}	16.5	X	1.74129	291.01994	257.14896	6.96439	0.0469753	0.27804716	2.3248258	21	2 13.4	19.4
280821 2005 UM_{53}	17.0	X	283.36948	271.26799	55.10862	7.41391	0.1624499	0.29174219	2.2514893	21	4 22.1	19.9
280822 2005 UP_{53}	17.3	X	183.95961	189.41599	188.56269	5.76343	0.1497689	0.28123217	2.3072397	21	3 18.2	20.6
280823 2005 UG_{55}	17.2	X	152.37690	45.81689	341.17412	1.97568	0.1134290	0.27596929	2.3364807	21	2 22.6	20.4
280824 2005 UB_{56}	16.3	X	275.03593	321.03304	49.90818	9.83818	0.1883729	0.23218069	2.6217140	21	6 9.1	20.0
280825 2005 UF_{63}	17.1	X	280.22337	123.04857	79.09535	2.75252	0.1433035	0.26215065	2.4178838	21	—	—
280826 2005 UH_{66}	17.0	X	67.65980	12.64761	58.72967	7.29257	0.0775117	0.26689356	2.3891532	21	—	—
280827 2005 UT_{68}	17.0	X	56.70800	163.45404	283.07623	3.96424	0.1652374	0.26856522	2.3792288	21	—	—
280828 2005 UF_{74}	16.6	X	200.58970	70.07068	281.84657	5.79825	0.1313953	0.27952932	2.3166004	21	2 26.6	20.1
280829 2005 UG_{97}	17.0	X	16.54299	266.68756	199.46537	6.27942	0.0645120	0.26398121	2.4066931	21	—	—
280830 2005 US_{106}	17.1	X	12.63257	51.14912	75.50549	4.00770	0.0626781	0.26623017	2.3931203	21	—	—
280831 2005 UY_{106}	16.6	X	280.93579	188.74745	65.43746	7.50770	0.0722266	0.27420364	2.3465001	21	1 26.2	19.8
280832 2005 UP_{109}	17.5	X	271.16125	9.02047	310.64420	3.27018	0.1512629	0.28562119	2.2835425	21	3 28.0	20.6
280833 2005 UG_{116}	17.4	X	335.34460	107.10827	233.09812	4.48086	0.2276479	0.30311757	2.1948018	21	8 8.5	18.4
280834 2005 UE_{119}	17.8	X	306.13414	223.38108	11.89257	1.92959	0.1836834	0.27779825	2.3262143	21	1 15.2	21.1
280835 2005 UM_{132}	16.6	X	89.92324	336.90487	85.41231	11.93893	0.2104475	0.26906571	2.3762774	21	2 4.2	19.1
280836 2005 UD_{144}	17.3	X	85.51802	254.53468	182.77598	6.98054	0.0647109	0.27433675	2.3457410	21	1 21.8	20.0
280837 2005 UU_{150}	17.2	X	112.87011	163.02287	244.55159	2.28348	0.1299190	0.27132369	2.3630754	21	2 1.9	20.0
280838 2005 UX_{153}	18.2	X	325.04289	21.46001	311.93110	0.27088	0.2040227	0.29885832	2.2156058	21	7 2.9	19.8
280839 2005 UL_{160}	17.3	X	318.78066	176.38718	130.40457	6.86662	0.1516405	0.29492315	2.2352708	21	5 18.4	19.6
280840 2005 UF_{161}	17.5	X	280.35889	229.02169	129.07739	5.52571	0.2063352	0.29595768	2.2300587	21	5 26.1	20.3
280841 2005 UX_{163}	17.5	X	320.37633	322.29625	263.90381	2.08572	0.1391739	0.27787841	2.3257668	21	1 25.8	20.5
280842 2005 UH_{167}	17.7	X	312.48155	276.44715	218.98691	5.05149	0.1793424	0.25683820	2.4511109	21	—	—
280843 2005 UT_{168}	17.4	X	311.31494	179.68855	24.69564	1.40502	0.1234273	0.27152306	2.3619185	21	—	—
280844 2005 UO_{189}	17.4	X	23.36541	302.40638	23.34552	2.08348	0.0222098	0.24206298	2.5498647	21	10 7.3	20.5
280845 2005 UD_{197}	17.3	X	206.26282	286.45176	77.37028	3.22234	0.1693801	0.28166616	2.3048691	21	3 23.9	20.9
280846 2005 US_{213}	17.2	X	163.63058	324.80834	74.06236	7.12185	0.1384591	0.28117230	2.3075672	21	3 28.3	20.6
280847 2005 UM_{216}	17.0	X	261.31312	219.70901	112.82155	3.66607	0.1530470	0.28678077	2.2773828	21	4 6.6	20.2
280848 2005 UR_{223}	17.5	X	327.97749	244.26420	259.46977	3.15606	0.1403322	0.26162754	2.4211056	21	—	—
280849 2005 UW_{252}	17.5	X	292.55521	45.29276	296.45870	2.09815	0.2176679	0.29514538	2.2341486	21	5 14.8	20.3
280850 2005 UU_{267}	17.0	X	312.81250	2.49760	203.09719	4.65965	0.1324188	0.26956973	2.3733146	21	—	—
280851 2005 UO_{270}	17.7	X	295.71975	126.80608	73.55402	2.29941	0.1168967	0.26879976	2.3778446	21	—	—
280852 2005 UB_{271}	17.2	X	354.11563	28.29037	74.04091	2.56226	0.1534138	0.25819645	2.4425073	21	—	—
280853 2005 UY_{282}	18.0	X	50.72744	182.63665	128.74041	2.17320	0.2424583	0.31309944	2.1479023	21	12 8.8	20.9
280854 2005 UL_{283}	17.6	X	355.64287	48.90950	92.71301	3.54652	0.1286455	0.26645071	2.3917996	21	—	—
280855 2005 UH_{298}	17.5	X	245.94552	290.07141	218.32038	4.03414	0.1946998	0.24501219	2.5293616	21	11 4.8	20.7
280856 2005 UU_{298}	17.4	X	300.35000	132.50683	62.56992	2.12287	0.1308746	0.26439410	2.4041868	21	—	—
280857 2005 UW_{300}	15.9	X	257.53609	24.61772	82.99159	11.95922	0.0471994	0.17974604	3.1095425	21	10 16.7	20.4
280858 2005 UN_{314}	17.7	X	205.92765	237.00589	143.99407	4.62326	0.1641253	0.28559204	2.2836979	21	4 14.4	21.3
280859 2005 UU_{330}	17.6	X	290.49387	54.99082	144.42696	2.05852	0.1344817	0.26324147	2.4111997	21	—	—
280860 2005 UH_{347}	17.6	X	265.16187	133.44176	67.62191	2.30419	0.1275676	0.25988210	2.4319341	21	—	—
280861 2005 UP_{363}	17.2	X	319.46041	159.60527	145.10920	2.81866	0.1577028	0.29325583	2.2437352	21	5 13.9	19.4
280862 2005 UE_{372}	16.8	X	237.48802	309.08225	32.71130	7.05689	0.1517631	0.28343236	2.2952840	21	3 25.9	20.3
280863 2005 UZ_{392}	17.6	X	10.11361	60.45816	175.02763	3.39357	0.1294881	0.29237614	2.2482336	21	5 7.9	19.3
280864 2005 UT_{425}	17.1	X	18.80499	43.19618	241.18004	4.67689	0.1929643	0.29982807	2.2108258	21	8 25.4	18.7
280865 2005 UT_{458}	17.4	X	223.59665	170.02155	187.87979	5.52412	0.1552976	0.28350938	2.2948683	21	3 30.9	20.8
280866 2005 UH_{461}	16.7	X	266.57648	242.82772	52.61043	8.31951	0.1119005	0.27819170	2.3240204	21	3 2.2	20.1
280867 2005 UQ_{484}	17.5	X	259.99103	192.19153	166.98630	7.43106	0.1615403	0.29252682	2.2474615	21	5 10.1	20.7
280868 2005 UA_{494}	16.4	X	225.48749	38.28652	8.42887	13.15090	0.1460569	0.22787698	2.6546203	21	6 4.9	20.8
280869 2005 UP_{511}	17.3	X	32.25121	190.29722	136.87852	4.85232	0.2221672	0.31008531	2.1617987	21	12 5.3	19.7
280870 2005 UA_{512}	16.9	X	261.58275	172.52447	54.19330	5.25843	0.1130475	0.26143473	2.4222959	21	—	—
280871 2005 VY_{12}	16.1	X	157.00037	76.10850	24.09671	6.65758	0.0415168	0.22571219	2.6715668	21	6 1.7	19.9
280872 2005 VW_{14}	17.5	X	306.76893	147.24970	142.16415	3.47127	0.2139954	0.28748791	2.2736468	21	3 23.7	20.3
280873 2005 VQ_{28}	16.9	X	46.03443	231.23162	233.76248	6.46418	0.0603542	0.26998035	2.3709075	21	—	—
280874 2005 VG_{71}	16.9	X	322.18801	305.56863	211.91315	5.39366	0.0566746	0.26145724	2.4221569	21	—	—
280875 2005 VA_{76}	17.7	X	291.91007	195.28979	148.46181	4.08755	0.1883311	0.29652298	2.2272235	21	5 23.5	20.4
280876 2005 VK_{81}	17.2	X	159.50142	288.88175	62.90552	5.76494	0.0759037	0.26868261	2.3785357	21	1 13.5	20.4
280877 2005 VD_{82}	17.2	X	289.37870	153.74340	194.60281	6.05902	0.2367154	0.29447345	2.2375459	21	5 18.9	19.9
280878 2005 VW_{92}	17.4	X	292.39925	350.85006	119.77673	3.62224	0.1575934	0.24684371	2.5168346	21	12 1.8	20.0
280879 2005 WB_{4}	16.2	X	223.73341	197.47841	199.18103	9.14147	0.1505893	0.22491894	2.6778445	21	5 24.8	20.5
280880 2005 WG_{6}	17.9	X	233.18118	113.98120	258.10295	2.28674	0.1901882	0.28707213	2.2758416	21	4 24.8	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280881 2005 WJ_{16}	17.6	X	289.76832	276.31300	67.19607	7.25685	0.2416722	0.29338176	2.2430931	21	5 11.7	20.4
280882 2005 WM_{17}	15.9	X	5.91239	177.89575	67.85413	15.26077	0.0689756	0.22189990	2.7020786	21	5 23.4	19.1
280883 2005 WJ_{26}	17.7	X	251.78270	319.32601	19.32755	2.57570	0.1783072	0.28452548	2.2894014	21	4 1.1	21.1
280884 2005 WX_{44}	17.6	X	261.72352	286.52275	336.99935	1.04496	0.1601530	0.27144745	2.3623571	21	1 8.9	21.1
280885 2005 WG_{89}	16.9	X	352.07780	47.73574	67.63648	7.53814	0.0636004	0.25876778	2.4389108	21	—	—
280886 2005 WW_{92}	15.2	X	157.83812	326.60156	247.80858	8.38009	0.0357382	0.17881731	3.1202999	21	10 24.3	19.8
280887 2005 WG_{100}	17.1	X	200.45903	140.28597	228.95993	5.83221	0.1580740	0.28076792	2.3097823	21	3 21.5	20.7
280888 2005 WV_{106}	17.7	X	280.93337	25.92690	133.40042	2.08748	0.1392991	0.25433796	2.4671483	21	—	—
280889 2005 WF_{112}	17.2	X	285.97069	32.67440	231.08485	5.07525	0.2098069	0.27510975	2.3413449	21	1 25.9	20.9
280890 2005 WT_{130}	16.3	X	54.46836	96.41182	69.35739	13.53035	0.1727841	0.21305580	2.7763474	21	5 5.9	19.5
280891 2005 WF_{137}	17.8	X	281.87500	86.82019	61.56172	2.63330	0.0998733	0.25300826	2.4757849	21	—	—
280892 2005 WK_{161}	17.6	X	280.78616	123.36692	83.26614	3.08003	0.1241292	0.26226689	2.4171693	21	—	—
280893 2005 WZ_{170}	17.0	X	145.03279	86.47591	252.98334	3.22728	0.0534451	0.26160552	2.4212415	21	—	—
280894 2005 WB_{174}	17.2	X	255.48122	129.27176	118.60763	2.08438	0.1398938	0.26465176	2.4026261	21	—	—
280895 2005 WU_{181}	17.2	X	228.93297	133.79599	212.37995	5.04997	0.1926944	0.28283424	2.2985188	21	3 18.3	20.8
280896 2005 WL_{187}	17.2	X	214.86371	234.27869	279.48894	4.34171	0.1805181	0.23824165	2.5770584	21	10 7.3	21.2
280897 2005 WV_{189}	16.0	X	309.16605	322.11969	29.36769	11.30480	0.1839142	0.23402022	2.6079572	21	7 4.5	19.2
280898 2005 XG_{1}	17.1	X	272.91537	48.11480	289.71244	5.77350	0.2428929	0.28917648	2.2647872	21	4 11.2	20.6
280899 2005 XQ_{3}	17.4	X	271.07147	33.67566	312.69976	4.44565	0.1746421	0.29000520	2.2604706	21	4 29.5	20.5
280900 2005 XV_{31}	16.7	X	179.23372	186.82398	93.71842	15.59305	0.1036537	0.25361064	2.4718630	21	—	—
280901 2005 XX_{57}	15.9	X	113.59841	40.55231	153.57517	9.75230	0.1490000	0.21517391	2.7580977	21	8 24.3	19.9
280902 2005 XK_{62}	16.9	X	66.35111	357.83340	65.45077	7.49105	0.0516969	0.26267939	2.4146381	21	—	—
280903 2005 XR_{81}	16.6	X	206.89475	240.77460	294.61059	3.49833	0.1140663	0.23959831	2.5673212	21	11 2.7	20.3
280904 2005 XD_{113}	15.5	X	99.44805	102.99353	81.25326	33.28210	0.3705476	0.21370470	2.7707244	21	8 30.9	20.9
280905 2005 XR_{114}	17.6	X	167.26967	127.34281	231.67522	0.22721	0.1883750	0.26783283	2.3835641	21	2 10.9	21.2
280906 2005 YE_{18}	17.0	X	286.78342	3.86820	261.81924	4.61706	0.2092820	0.27580496	2.3374088	21	1 29.3	20.5
280907 2005 YX_{21}	16.7	X	196.50926	95.06861	103.58671	12.92891	0.1252332	0.23889597	2.5723507	21	11 24.1	20.7
280908 2005 YM_{36}	17.5	X	189.09428	249.99439	95.99974	3.69674	0.2039876	0.26817733	2.3815224	21	2 16.6	21.3
280909 2005 YM_{41}	15.8	X	328.73819	327.40473	77.31724	11.19215	0.1341630	0.17921586	3.1156722	21	10 27.6	19.6
280910 2005 YB_{60}	17.1	X	180.76176	246.81052	96.65045	7.02668	0.1293553	0.26571187	2.3962314	21	2 1.9	20.7
280911 2005 YJ_{60}	16.9	X	70.54012	334.29403	66.49070	2.26641	0.1892454	0.25760686	2.4462327	21	—	—
280912 2005 YS_{64}	16.9	X	107.68286	309.23838	100.02083	12.97451	0.1657946	0.26641107	2.3920369	21	2 6.9	19.8
280913 2005 YS_{84}	17.0	X	216.05177	193.37114	79.12901	3.19098	0.2109393	0.25815991	2.4427378	21	—	—
280914 2005 YA_{85}	17.7	X	227.89715	77.11927	268.48021	6.59122	0.1497884	0.27870521	2.3211649	21	3 16.2	21.5
280915 2005 YK_{92}	17.4	X	201.62667	97.86112	123.25388	2.56008	0.0495671	0.24481070	2.5307493	21	—	—
280916 2005 YS_{170}	16.6	X	201.42586	138.11784	60.61347	6.41727	0.1604271	0.23987688	2.5653332	21	11 22.9	20.3
280917 2005 YM_{174}	16.6	X	262.36046	73.69228	50.53209	7.85355	0.1053054	0.24006824	2.5639698	21	11 7.9	19.8
280918 2005 YJ_{179}	16.8	X	189.59328	227.94178	108.86009	7.11493	0.1239363	0.26533557	2.3984964	21	2 1.8	20.4
280919 2005 YD_{211}	15.9	X	287.05630	213.36537	251.12772	13.85331	0.1592232	0.23811309	2.5779859	21	11 8.9	18.9
280920 2005 YT_{245}	17.2	X	222.93192	281.33629	228.45916	3.73261	0.1375949	0.23471965	2.6027737	21	10 16.4	20.9
280921 2006 AZ_{7}	15.6	X	83.08252	207.34822	260.11540	9.71186	0.0952155	0.20402096	2.8577190	21	3 14.1	19.6
280922 2006 AX_{13}	17.6	X	110.92830	264.34086	122.27787	2.74702	0.1877769	0.26053710	2.4278564	21	1 14.2	20.4
280923 2006 AT_{16}	16.7	X	199.59684	62.53104	279.98135	5.43616	0.1319313	0.27332749	2.3515119	21	2 15.2	20.2
280924 2006 AP_{22}	15.9	X	147.07342	78.93607	112.82297	28.43665	0.1712751	0.22326231	2.6910748	21	10 6.1	20.9
280925 2006 AA_{47}	17.6	X	278.31922	111.81629	269.51871	6.24115	0.1723788	0.29176443	2.2513749	21	6 30.3	20.2
280926 2006 AZ_{49}	17.4	X	101.23478	292.37934	91.92409	2.22995	0.0789990	0.25907014	2.4370128	21	—	—
280927 2006 AK_{59}	17.5	X	133.56679	87.44094	278.27497	1.99138	0.1149036	0.26080000	2.4262245	21	1 5.8	20.7
280928 2006 AB_{61}	16.4	X	164.01427	340.08715	282.85836	9.15995	0.1439061	0.24349626	2.5398487	21	—	—
280929 2006 AS_{67}	16.8	X	167.81218	328.18447	284.54490	5.95426	0.0954350	0.24227494	2.5483773	21	12 30.6	20.6
280930 2006 AH_{84}	16.8	X	158.10352	88.02957	69.15655	13.50856	0.2060134	0.22276225	2.6951006	21	8 29.3	21.6
280931 2006 AF_{96}	16.3	X	238.58736	64.05745	79.60832	16.04718	0.1277784	0.23544115	2.5974536	21	11 3.8	20.1
280932 2006 BJ_{27}	15.0	X	295.73410	17.44108	143.52573	28.80734	0.1064834	0.18148938	3.0895975	21	—	—
280933 2006 BT_{28}	17.3	X	141.94725	209.84414	165.82067	1.45636	0.2022957	0.26361646	2.4089125	21	2 8.5	20.6
280934 2006 BU_{45}	16.9	X	118.42378	60.62070	152.06099	4.70594	0.0646371	0.22235260	2.6984099	21	9 15.9	20.6
280935 2006 BC_{50}	17.1	X	137.02997	257.85695	352.00377	3.93981	0.1763024	0.23396684	2.6083539	21	11 24.6	21.4
280936 2006 BB_{59}	17.0	X	85.89388	204.99549	79.41369	3.05287	0.0702382	0.22892363	2.6465228	21	11 9.5	20.7
280937 2006 BY_{62}	16.4	X	246.90293	305.60782	12.94828	2.05219	0.0661749	0.20315848	2.8658013	21	3 19.5	20.5
280938 2006 BG_{73}	16.7	X	121.74794	251.79345	9.83062	4.20755	0.2323933	0.23124498	2.6287816	21	11 27.4	21.2
280939 2006 BB_{89}	16.5	X	135.55173	161.69041	123.03062	5.66972	0.1317861	0.24074726	2.5591465	21	—	—
280940 2006 BX_{93}	16.7	X	350.44111	93.53860	288.15903	1.57773	0.0829048	0.23242177	2.6199008	21	11 6.7	19.7
280941 2006 BM_{96}	16.8	X	333.97366	178.02673	158.85864	7.02551	0.0259570	0.21844221	2.7305178	21	8 9.7	20.4
280942 2006 BO_{96}	16.5	X	194.60298	183.74223	322.04863	4.74426	0.1003984	0.22472133	2.6794141	21	9 12.6	20.7
280943 2006 BC_{109}	17.0	X	51.11758	260.96299	112.64401	4.35726	0.0599307	0.24419199	2.5350222	21	—	—
280944 2006 BC_{120}	15.9	X	42.38679	16.40270	311.40123	7.89376	0.1182568	0.23106910	2.6301154	21	11 14.8	19.4
280945 2006 BK_{141}	17.7	X	255.25478	204.36854	116.83159	3.19629	0.2026653	0.27202538	2.3590099	21	3 13.8	21.4
280946 2006 BZ_{142}	17.1	X	106.70139	101.48105	168.30256	4.99727	0.0686964	0.22942023	2.6427023	21	11 15.7	20.9
280947 2006 BZ_{144}	16.6	X	296.25593	219.76484	217.32446	4.14581	0.2201110	0.23787151	2.5797310	21	10 8.4	19.2
280948 2006 BH_{148}	16.3	X	163.09472	258.49719	127.04339	23.83734	0.2883832	0.26933568	2.3746893	21	3 26.0	20.7
280949 2006 BP_{154}	16.2	X	325.21460	283.93532	124.65466	5.43107	0.0584706	0.23312521	2.6146279	21	11 6.3	19.4
280950 2006 BB_{156}	16.7	X	27.43600	262.06195	130.85805	3.63383	0.0782516	0.24144544	2.5542107	21	—	—
280951 2006 BM_{156}	16.0	X	47.58353	301.06954	143.38504	11.67227	0.0869190	0.18915574	3.0055436	21	—	—
280952 2006 BS_{181}	17.4	X	318.27647	339.29853	85.49693	1.35676	0.0782895	0.23572074	2.5953993	21	11 15.4	20.3
280953 2006 BM_{189}	16.3	X	36.87484	281.28069	59.63924	4.23615	0.1086093	0.23118224	2.6292572	21	11 25.4	19.5
280954 2006 BK_{200}	16.8	X	24.42406	328.28734	126.87838	7.35852	0.1230978	0.26169590	2.4206840	21	—	—
280955 2006 BY_{217}	17.2	X	117.77553	63.52176	105.03473	8.36153	0.1471061	0.28114875	2.3076961	21	7 29.4	20.4
280956 2006 BF_{224}	16.5	X	123.35084	358.08657	283.23761	2.84489	0.1197453	0.23674441	2.5879123	21	12 19.9	20.5
280957 2006 BE_{233}	16.0	X	220.62042	3.62114	332.27214	6.04820	0.0736227	0.20349451	2.8626456	21	3 10.3	20.2
280958 2006 BF_{233}	17.2	X	266.78723	42.07264	90.04534	2.67386	0.0665867	0.23910049	2.5708835	21	11 30.1	20.4
280959 2006 BR_{241}	16.8	X	126.74593	171.48289	81.19267	3.18724	0.1739818	0.23069712	2.6329418	21	11 20.1	21.1
280960 2006 BJ_{250}	16.9	X	88.26104	288.70123	351.59536	2.23239	0.1416589	0.22868752	2.6483441	21	11 13.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
280961 2006 BM_{267}	16.5	X	159.08996	76.46523	125.87720	9.42448	0.1459719	0.22872960	2.6480193	21	10 22.3	20.9
280962 2006 BC_{268}	16.0	X	140.67996	162.45249	1.23757	9.78028	0.1601623	0.21849088	2.7301123	21	8 17.1	20.4
280963 2006 CJ_{23}	17.0	X	218.03285	97.11545	274.64043	6.77505	0.2337644	0.28226235	2.3016225	21	4 7.4	21.0
280964 2006 CV_{36}	17.2	X	105.23595	146.12063	115.92456	3.11127	0.1418961	0.22908006	2.6453178	21	11 10.3	21.3
280965 2006 CV_{49}	16.3	X	286.71591	346.30631	138.02045	26.68846	0.0586223	0.23992100	2.5650187	21	12 23.3	19.9
280966 2006 CP_{60}	16.5	X	149.86308	81.71234	110.70908	9.59984	0.1786280	0.22583553	2.6705940	21	10 2.4	21.1
280967 2006 DF	16.0	X	113.61323	87.91519	75.39960	9.02790	0.1976258	0.21201606	2.7854169	21	7 22.2	20.4
280968 2006 DJ_{1}	16.5	X	335.96420	6.79633	47.89073	7.78805	0.2507634	0.24068477	2.5595894	21	12 10.2	18.4
280969 2006 DZ_{4}	16.8	X	97.63775	301.34366	10.95775	3.30727	0.1141083	0.23530098	2.5984851	21	12 31.8	20.8
280970 2006 DN_{7}	16.7	X	291.23369	357.73842	88.98710	5.71027	0.1634064	0.23551825	2.5968868	21	10 25.1	19.5
280971 2006 DH_{11}	16.3	X	263.86843	55.34570	49.55409	4.21147	0.2386649	0.23285398	2.6166579	21	9 25.0	19.7
280972 2006 DH_{15}	15.9	X	64.97822	93.92289	347.36562	8.63491	0.0817604	0.19324968	2.9629446	21	1 22.1	19.7
280973 2006 DF_{25}	15.8	X	310.60283	46.50164	158.36890	15.99100	0.1258781	0.18969814	2.9998118	21	1 7.0	20.2
280974 2006 DE_{31}	16.2	X	243.04095	312.46075	172.19960	15.77621	0.1333421	0.22992417	2.6388395	21	10 10.4	19.9
280975 2006 DP_{40}	16.5	X	93.57597	267.05435	28.30374	7.22886	0.2132632	0.22948627	2.6421953	21	12 13.0	20.8
280976 2006 DQ_{46}	15.4	X	305.04171	355.09040	179.28653	18.20333	0.0976616	0.18269847	3.0759512	21	—	—
280977 2006 DU_{49}	16.1	X	323.16583	132.67628	32.40759	4.29894	0.2079309	0.18682906	3.0304452	21	—	—
280978 2006 DG_{53}	15.4	X	262.23517	189.55749	350.68201	10.79072	0.0361720	0.17694144	3.1423147	21	—	—
280979 2006 DJ_{54}	17.4	X	60.06288	148.26646	143.28884	2.35414	0.0511023	0.22392542	2.6857595	21	10 14.4	20.8
280980 2006 DB_{57}	17.5	X	17.64027	295.81279	175.86063	20.97259	0.0912499	0.37896985	1.8911803	21	—	—
280981 2006 DW_{65}	16.6	X	238.83722	11.95523	110.68433	3.24333	0.1559618	0.22952268	2.6419158	21	9 29.2	20.4
280982 2006 DO_{68}	16.1	X	135.98730	69.81090	114.46638	19.03666	0.1275734	0.21833732	2.7313922	21	9 7.7	20.6
280983 2006 DW_{71}	16.9	X	337.06161	275.62930	128.84386	2.74964	0.0548499	0.23014460	2.6371542	21	11 16.6	20.1
280984 2006 DQ_{84}	16.3	X	107.32621	212.45486	329.29004	3.88363	0.0861471	0.21362684	2.7713976	21	7 25.8	20.1
280985 2006 DK_{87}	16.5	X	4.18086	256.38245	119.79289	3.27270	0.1518034	0.23075814	2.6324776	21	11 29.8	19.4
280986 2006 DD_{88}	17.0	X	3.00795	233.51094	150.26683	2.58899	0.0945258	0.23174329	2.6250118	21	12 1.4	20.2
280987 2006 DQ_{88}	13.2	X	308.78854	162.61793	171.69113	12.84537	0.0459072	0.08194794	5.2494122	21	6 29.9	20.1
280988 2006 DW_{90}	16.6	X	299.90991	214.75759	165.70161	6.24962	0.0421977	0.21821608	2.7324038	21	8 18.7	20.1
280989 2006 DQ_{91}	16.8	X	54.28003	222.89450	31.95682	3.88984	0.0470538	0.21481362	2.7611808	21	8 17.8	20.4
280990 2006 DZ_{93}	15.5	X	96.87199	190.44193	177.36826	9.36260	0.2295013	0.24330970	2.5411469	21	—	—
280991 2006 DJ_{103}	17.0	X	27.31344	190.76680	148.56201	2.57244	0.0937861	0.22790018	2.6544402	21	11 8.1	20.3
280992 2006 DS_{106}	16.5	X	32.74119	332.16948	336.21430	4.61194	0.1531462	0.22017422	2.7161791	21	10 10.4	19.8
280993 2006 DE_{108}	16.4	X	7.96854	90.53951	237.13058	2.01902	0.0960444	0.22025584	2.7155081	21	9 20.1	19.6
280994 2006 DF_{113}	16.9	X	40.58588	329.18989	37.47224	4.07968	0.0990600	0.23486540	2.6016969	21	—	—
280995 2006 DM_{117}	16.5	X	228.33109	73.67117	22.46674	5.11538	0.0564512	0.21894402	2.7263440	21	8 25.2	20.3
280996 2006 DE_{118}	16.4	X	289.03844	209.45218	165.98832	3.00029	0.0173224	0.21450043	2.7638678	21	7 31.1	20.1
280997 2006 DS_{122}	15.2	X	271.32910	121.41162	100.87371	17.26816	0.1608891	0.18649562	3.0340562	21	—	—
280998 2006 DB_{126}	17.0	X	79.11300	353.07568	256.89376	1.37738	0.2550992	0.21790736	2.7349840	21	10 9.3	21.2
280999 2006 DK_{131}	16.9	X	49.87091	229.29896	53.72852	6.13870	0.0555138	0.22152521	2.7051247	21	9 21.9	20.5
281000 2006 DQ_{133}	16.8	X	245.99998	344.06427	125.22601	5.93867	0.0247434	0.22729068	2.6591835	21	10 10.1	20.4
281001 2006 DT_{141}	16.9	X	58.61848	248.12314	44.78311	3.53995	0.0826117	0.22401402	2.6850512	21	10 18.6	20.4
281002 2006 DB_{164}	16.5	X	138.48673	225.96175	323.64153	4.30610	0.0979282	0.22055680	2.7130372	21	9 9.2	20.6
281003 2006 DJ_{171}	16.7	X	83.44249	71.18062	147.11873	7.28605	0.1613177	0.21315035	2.7755263	21	8 23.5	20.7
281004 2006 DB_{181}	16.2	X	325.88772	344.16827	23.23078	6.13708	0.0871245	0.22079955	2.7110484	21	9 8.6	19.4
281005 2006 DH_{191}	16.1	X	354.67532	194.41572	154.38284	6.75902	0.0136390	0.22113456	2.7083096	21	9 26.7	19.6
281006 2006 DW_{203}	16.1	X	236.95260	339.55094	125.55642	9.16239	0.1084665	0.22471496	2.6794649	21	9 11.0	20.0
281007 2006 DR_{204}	15.5	X	316.69873	171.65892	41.88918	11.80313	0.0350084	0.19595798	2.9355811	21	2 11.3	19.7
281008 2006 DU_{207}	15.5	X	202.76481	273.35063	353.90703	15.81742	0.1880379	0.17547352	3.1598150	21	—	—
281009 2006 DN_{208}	16.7	X	277.73877	97.57044	310.00160	1.84728	0.0404508	0.21797481	2.7344197	21	8 24.9	20.1
281010 2006 DJ_{215}	16.3	X	101.80724	115.34439	195.34085	12.10721	0.2769187	0.22718911	2.6599759	21	—	—
281011 2006 ET_{2}	17.3	X	87.70584	234.29858	62.18025	1.72824	0.1816932	0.22988134	2.6391672	21	12 7.3	21.4
281012 2006 EA_{11}	16.6	X	13.99308	239.93513	151.03992	5.78362	0.1587194	0.23596951	2.5935748	21	—	—
281013 2006 EE_{13}	16.5	X	192.78961	318.03340	161.47258	5.32865	0.0677852	0.21837890	2.7310455	21	8 9.6	20.5
281014 2006 EC_{21}	17.0	X	84.90396	299.84455	344.48456	4.32040	0.0737512	0.22909951	2.6451681	21	11 6.5	20.7
281015 2006 EJ_{32}	16.7	X	27.51890	156.20668	183.72890	8.76878	0.0146003	0.22844246	2.6502377	21	10 30.5	20.2
281016 2006 EH_{37}	16.5	X	348.06684	321.51756	25.28949	6.60536	0.0193135	0.21985608	2.7187988	21	9 15.7	20.0
281017 2006 EV_{60}	16.1	X	274.69615	255.26200	186.14569	21.84804	0.0646362	0.22632320	2.6667563	21	10 3.2	19.3
281018 2006 ED_{63}	16.7	X	57.89419	40.25263	249.45076	3.25459	0.1340036	0.21965148	2.7204868	21	10 18.9	20.4
281019 2006 EB_{65}	16.5	X	230.19723	151.56140	286.90068	2.45807	0.0467971	0.21586006	2.7522498	21	8 2.6	20.4
281020 2006 EH_{65}	16.6	X	103.04386	16.02564	191.95874	8.86164	0.0777767	0.21469851	2.7621677	21	8 20.0	20.6
281021 2006 EX_{68}	17.2	X	55.71670	149.89777	186.18301	2.21532	0.1146856	0.23266615	2.6180659	21	12 14.7	20.7
281022 2006 EV_{69}	17.3	X	301.72797	136.20735	29.14741	23.31293	0.1027696	0.37431708	1.9068196	21	—	—
281023 2006 FZ_{5}	15.6	X	329.31687	278.76319	185.78151	25.38705	0.2491378	0.17831864	3.1261145	21	—	—
281024 2006 FH_{53}	16.2	X	297.74272	272.90163	60.17635	2.95924	0.0697758	0.20318681	2.8655350	21	6 8.6	19.9
281025 2006 GR	16.8	X	354.36267	173.73513	158.66489	6.24555	0.0557283	0.21734131	2.7397306	21	9 3.5	19.9
281026 2006 GU_{4}	16.3	X	339.78712	262.84861	102.24994	4.32350	0.1076968	0.22104915	2.7090071	21	9 28.5	19.3
281027 2006 GK_{13}	16.4	X	44.65439	202.59171	69.25132	4.69439	0.0562713	0.21315839	2.7754565	21	8 29.1	20.0
281028 2006 GS_{14}	16.5	X	32.83814	229.77236	56.10159	4.54792	0.0687421	0.21329624	2.7742606	21	9 1.5	20.0
281029 2006 GU_{14}	16.0	X	4.72487	141.65769	190.53561	13.88258	0.0547763	0.21706027	2.7420949	21	9 17.3	19.5
281030 2006 GF_{30}	15.9	X	30.16588	91.63645	193.57680	12.92658	0.1463864	0.21057100	2.7981458	21	8 31.8	19.4
281031 2006 GS_{45}	16.3	X	144.27778	102.92902	41.08977	5.53166	0.1015441	0.21224753	2.7833914	21	7 21.2	20.6
281032 2006 GX_{54}	16.5	X	315.03527	242.74249	91.34144	3.31766	0.0658123	0.20524975	2.8463019	21	7 5.8	19.9
281033 2006 HF_{9}	16.7	X	104.41452	350.85973	219.14495	4.49035	0.0934660	0.21521462	2.7577498	21	8 26.7	20.7
281034 2006 HP_{12}	16.5	X	132.42469	349.91152	192.85885	4.79958	0.0908942	0.21648755	2.7469290	21	8 23.8	20.7
281035 2006 HM_{21}	16.5	X	14.02692	133.29210	179.26287	7.52392	0.2192270	0.21068385	2.7971466	21	9 23.2	19.0
281036 2006 HB_{22}	16.7	X	83.84197	140.00096	53.62154	10.14415	0.0793243	0.20638086	2.8358925	21	7 10.8	20.7
281037 2006 HS_{22}	16.4	X	12.94449	228.75762	74.66781	5.17172	0.0460565	0.21196350	2.7858774	21	8 24.4	20.0
281038 2006 HE_{27}	15.9	X	86.81051	346.03853	187.10987	13.37664	0.0886788	0.20091505	2.8870949	21	6 18.1	20.1
281039 2006 HX_{36}	15.6	X	219.84447	257.85467	11.79791	15.93242	0.2161106	0.17932512	3.1144064	21	—	—
281040 2006 HY_{39}	16.2	X	252.14276	299.36948	81.16917	10.36080	0.1328124	0.20134388	2.8829942	21	6 4.6	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281041 2006 HV_{46}	16.0	X	208.73791	43.88324	53.27182	9.90285	0.0655623	0.21207021	2.7849427	21	8 2.9	20.2
281042 2006 HE_{50}	16.3	X	351.39951	163.26471	186.85952	8.46466	0.0472110	0.21945453	2.7221143	21	9 22.6	19.8
281043 2006 HO_{51}	15.9	X	187.99864	335.37670	271.27933	12.48386	0.1604116	0.23286208	2.6165972	21	—	—
281044 2006 HF_{60}	16.2	X	150.73353	33.82044	114.91319	6.08264	0.1108854	0.21299390	2.7768853	21	8 2.8	20.5
281045 2006 HL_{66}	16.7	X	327.37217	255.84765	64.47022	2.88778	0.0685045	0.20496292	2.8489567	21	7 5.5	20.1
281046 2006 HF_{90}	15.9	X	200.41415	139.42315	127.38769	22.73944	0.0070226	0.23753416	2.5821730	21	—	—
281047 2006 HL_{110}	15.9	X	5.15629	328.37951	304.37691	8.09406	0.1953655	0.20155295	2.8810001	21	7 2.1	18.7
281048 2006 HA_{116}	17.1	X	57.90049	237.50977	16.20579	3.83925	0.0461571	0.21348768	2.7726018	21	8 20.9	20.8
281049 2006 HQ_{123}	16.7	X	270.87301	264.05114	77.06848	2.85393	0.0348417	0.19952654	2.9004737	21	5 20.2	20.6
281050 2006 HG_{124}	16.6	X	272.67129	292.63920	58.67957	2.93518	0.0805040	0.20292903	2.8679611	21	5 28.7	20.5
281051 2006 HP_{124}	17.0	X	274.89066	173.93678	222.31760	3.36425	0.1017061	0.21193911	2.7860911	21	7 26.2	20.7
281052 2006 HH_{153}	16.4	X	214.67934	332.68025	90.92577	3.25025	0.0551074	0.20410628	2.8569225	21	6 24.5	20.6
281053 2006 JD_{12}	16.0	X	199.15169	197.89668	188.47303	9.52784	0.0804123	0.19276051	2.9679552	21	4 21.7	20.5
281054 2006 JE_{17}	16.1	X	286.86903	145.85569	210.90363	7.33779	0.0769444	0.20347935	2.8627878	21	6 23.9	20.1
281055 2006 JE_{39}	16.1	X	23.49453	4.31895	224.79874	8.42284	0.1943586	0.19805058	2.9148663	21	6 6.9	19.0
281056 2006 JT_{63}	17.1	X	318.02448	232.21297	179.86782	2.53836	0.0795492	0.23091172	2.6313103	21	10 27.9	20.1
281057 2006 KO_{4}	16.2	X	123.74796	226.00864	229.25416	8.71627	0.0631518	0.19297153	2.9657911	21	4 20.4	20.4
281058 2006 KZ_{4}	16.8	X	275.95272	193.83697	135.79513	1.34416	0.1231849	0.19479274	2.9472765	21	4 29.9	21.0
281059 2006 KF_{13}	15.3	X	185.31528	113.04248	168.47320	14.62083	0.1677642	0.17078089	3.2174357	21	—	—
281060 2006 KE_{26}	16.2	X	245.64123	298.78307	132.04846	12.63977	0.1341806	0.21329345	2.7742848	21	7 31.6	20.3
281061 2006 KR_{27}	15.8	X	276.67659	144.23795	232.27329	9.66654	0.1354223	0.20487856	2.8497387	21	6 27.1	19.8
281062 2006 KQ_{33}	16.2	X	195.50588	342.99697	91.64030	3.35505	0.0479374	0.20167826	2.8798066	21	6 16.6	20.2
281063 2006 KH_{46}	16.6	X	319.46110	196.18640	113.70287	3.15764	0.0584406	0.20029590	2.8930416	21	6 10.6	20.3
281064 2006 KE_{73}	16.3	X	19.17708	88.29454	149.53994	8.38696	0.1445085	0.19850087	2.9104565	21	6 8.3	19.6
281065 2006 KJ_{83}	15.6	X	63.67070	31.30724	169.92826	15.47443	0.0839450	0.20215953	2.8752342	21	6 23.1	19.7
281066 2006 KT_{122}	16.5	X	8.44684	84.01390	156.89277	5.32927	0.1382091	0.19766914	2.9186149	21	5 23.1	19.8
281067 2006 KU_{130}	15.2	X	40.44667	201.77696	249.41762	26.75911	0.1439414	0.17586768	3.1550920	21	—	—
281068 Chipolin	15.3	X	210.58494	229.05336	126.51034	16.86441	0.0861153	0.17881059	3.1203781	21	4 2.4	20.3
281069 2006 OO_{10}	15.2	X	212.84093	170.86989	156.53328	18.22636	0.1906096	0.17214639	3.2003988	21	2 22.9	20.6
281070 2006 OY_{10}	18.7	X	28.76586	92.42234	234.02065	35.63430	0.5745010	0.40599015	1.8063104	21	—	—
281071 2006 PM	15.3	X	283.34512	67.63336	262.94317	16.20348	0.0634839	0.18361760	3.0656778	21	5 18.1	19.7
281072 2006 PB_{42}	16.0	X	282.55511	105.23242	152.97708	14.32372	0.2456034	0.17653081	3.1471858	21	1 27.6	21.0
281073 2006 QK_{100}	15.5	X	210.04198	274.58175	42.30164	8.74561	0.1518086	0.16890378	3.2412297	21	2 13.4	20.9
281074 2006 QL_{119}	16.2	X	91.06692	109.68031	236.14133	6.60726	0.2255113	0.21634387	2.7481451	21	—	—
281075 2006 QE_{120}	16.1	X	265.46286	147.28051	176.38471	10.99903	0.2562913	0.18242923	3.0789769	21	3 29.3	21.0
281076 2006 QV_{122}	17.1	X	206.07268	134.59336	181.78011	22.74824	0.0909086	0.36362621	1.9440134	21	—	—
281077 2006 QD_{136}	16.8	X	201.34277	104.30403	220.20757	7.66780	0.2263638	0.23289036	2.6163854	21	2 1.9	21.5
281078 2006 QF_{141}	15.9	X	184.82304	62.47902	272.49585	3.81201	0.1310292	0.16794366	3.2535712	21	2 7.3	21.1
281079 2006 RB_{26}	15.7	X	16.53604	166.95643	230.15154	4.76472	0.0491238	0.14694371	3.5566030	21	12 13.3	20.5
281080 2006 RR_{61}	15.9	X	241.73914	130.75386	182.71627	16.57199	0.2160206	0.17391081	3.1787155	21	2 27.0	21.3
281081 2006 RX_{102}	15.4	X	347.48640	94.84050	250.07352	9.26340	0.0548110	0.19447048	2.9505315	21	9 2.7	19.5
281082 2006 SH_{33}	15.2	X	119.84232	112.51892	231.40156	6.75208	0.0790591	0.15318265	3.4593645	21	—	—
281083 2006 SD_{55}	15.7	X	243.44885	249.22776	162.08560	14.96270	0.2087998	0.18299643	3.0726114	21	6 26.6	20.8
281084 2006 SF_{59}	17.7	X	58.53008	209.31317	198.05377	21.80663	0.0790479	0.35206794	1.9863315	21	—	—
281085 2006 SD_{139}	18.0	X	39.66549	228.19763	192.47757	23.17779	0.0743912	0.35102505	1.9902638	21	—	—
281086 2006 SN_{220}	16.6	X	82.57321	157.59729	227.14267	7.54424	0.2684366	0.21619751	2.7493852	21	—	—
281087 2006 SN_{231}	16.3	X	273.32368	183.32868	198.87983	10.01698	0.1124744	0.18606667	3.0387175	21	7 3.4	20.8
281088 2006 SY_{411}	14.8	X	285.00900	38.50870	246.54944	15.80129	0.1561467	0.17179225	3.2047956	21	3 6.9	19.9
281089 2006 SG_{412}	16.9	X	99.91749	326.78991	15.22857	4.43370	0.0805410	0.21076939	2.7963897	21	—	—
281090 2006 TY_{73}	15.8	X	325.93119	140.75451	174.23081	12.06950	0.1853833	0.18480321	3.0525517	21	6 12.7	19.6
281091 2006 TW_{99}	15.3	X	53.18893	331.81287	239.09135	8.59719	0.0397730	0.17664941	3.1457769	21	6 15.3	19.5
281092 2006 TE_{120}	15.7	X	24.56342	85.32088	171.02457	11.96706	0.0882942	0.18370277	3.0647302	21	7 7.6	19.8
281093 2006 UR_{109}	15.6	X	178.79207	201.72831	262.59342	8.06739	0.0527721	0.18444573	3.0564947	21	7 4.8	20.2
281094 2006 UB_{210}	15.2	X	206.39339	163.53447	259.64451	7.61400	0.0839941	0.17519349	3.1631812	21	6 13.5	20.1
281095 2006 UT_{218}	16.5	X	199.17930	122.89440	172.61353	11.52093	0.1957313	0.22756338	2.6570586	21	—	—
281096 2006 UT_{272}	15.6	X	229.34607	139.18983	256.36771	7.82817	0.1016829	0.17469800	3.1691595	21	6 2.4	20.5
281097 2006 UR_{328}	15.4	X	229.11789	150.51661	258.62730	10.73124	0.0781841	0.17749061	3.1358297	21	6 20.9	20.1
281098 2006 VV_{28}	17.0	X	115.50434	82.48725	267.25477	6.26639	0.2345852	0.21427753	2.7657842	21	—	—
281099 2006 VU_{70}	18.0	X	163.05042	63.63859	78.63624	4.82184	0.0889632	0.31261102	2.1501389	21	8 12.1	20.9
281100 2006 WS_{10}	15.8	X	125.01982	325.03204	52.50493	14.59886	0.1612676	0.21851303	2.7299278	21	1 30.1	19.9
281101 2006 WJ_{17}	16.7	X	337.13338	336.58405	66.14680	14.18553	0.1962842	0.26320490	2.4114230	21	11 28.7	18.5
281102 2006 WZ_{79}	17.7	X	338.34248	154.18849	43.32970	3.16431	0.0999040	0.28861420	2.2677278	21	1 16.5	20.1
281103 2006 WT_{82}	14.6	X	38.20000	229.46631	86.89947	11.78765	0.1451828	0.12328003	3.9982895	21	10 20.4	20.0
281104 2006 WY_{159}	17.4	X	40.09178	94.14923	85.41784	4.93468	0.1492663	0.28785804	2.2716974	21	4 13.7	19.2
281105 2006 WT_{198}	15.2	X	172.99138	88.20093	312.03155	13.71104	0.2062449	0.23338593	2.6126803	21	4 4.9	19.9
281106 2006 XE_{56}	17.5	X	325.11286	53.93617	123.98189	4.65716	0.2161056	0.27126624	2.3634090	21	—	—
281107 2006 XR_{73}	15.0	X	211.87265	23.10149	109.39404	29.34898	0.1692681	0.17585561	3.1552364	21	9 15.6	20.5
281108 2006 YC_{2}	18.1	X	333.68232	137.78586	239.08199	1.44495	0.1224906	0.32082154	2.1132962	21	10 20.6	19.6
281109 2006 YM_{34}	17.7	X	110.12027	71.96830	66.67699	6.09351	0.1319328	0.29655814	2.2270475	21	6 4.5	20.5
281110 2007 AW_{1}	17.5	X	164.87505	175.23581	279.97461	2.90272	0.1126903	0.30049359	2.2075603	21	6 6.9	20.4
281111 2007 AU_{6}	17.1	X	329.96474	25.85977	77.34640	2.15258	0.1841693	0.26767633	2.3844931	21	—	—
281112 2007 AN_{14}	17.7	X	236.09737	157.99768	272.39163	2.08231	0.1123894	0.30931735	2.1653754	21	7 24.7	20.5
281113 2007 AV_{21}	17.2	X	197.27767	355.38215	92.37110	4.74299	0.1153127	0.30516687	2.1849649	21	7 3.2	20.3
281114 2007 BX_{10}	17.6	X	38.56240	125.30092	62.20370	4.15980	0.0682487	0.28998398	2.2605809	21	4 16.4	19.7
281115 2007 BP_{15}	17.1	X	148.45663	156.44310	109.21544	4.09168	0.1501064	0.25664426	2.4523456	21	12 27.6	20.9
281116 2007 BM_{20}	16.9	X	359.84998	190.43124	326.63132	5.30859	0.1703323	0.27535220	2.3399703	21	—	—
281117 2007 BN_{29}	17.3	X	3.03686	103.96003	122.05569	6.46023	0.0845182	0.29149438	2.2527652	21	4 13.7	19.6
281118 2007 BF_{46}	17.2	X	316.99276	130.89729	96.35616	2.92594	0.1579868	0.27877144	2.3207972	21	1 20.7	20.1
281119 2007 BB_{47}	17.1	X	277.57079	118.06799	132.29052	13.99742	0.2424566	0.27250638	2.3562332	21	1 1.6	21.1
281120 2007 BN_{50}	16.3	X	200.72222	23.94506	98.87532	14.32146	0.0529732	0.24192742	2.5508171	21	8 31.7	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281121 2007 BJ_{51}	17.6	X	242.01160	23.88893	19.95197	2.73052	0.1714379	0.30633982	2.1793840	21	6 16.9	20.5
281122 2007 BW_{57}	17.2	X	342.35223	56.64371	109.31112	2.15989	0.1256247	0.27258804	2.3557626	21	—	—
281123 2007 BP_{67}	16.8	X	5.79857	84.55397	99.54351	5.24055	0.0879690	0.28040675	2.3117653	21	2 14.3	19.3
281124 2007 BH_{70}	16.1	X	350.98752	253.54221	15.63929	13.13890	0.2806844	0.21213015	2.7844181	21	5 9.1	18.5
281125 2007 BK_{70}	17.1	X	1.34555	65.79952	175.54369	6.66114	0.2362193	0.28015231	2.3131648	21	4 20.3	18.4
281126 2007 BJ_{73}	17.2	X	320.32334	299.07098	312.08826	4.42263	0.2002739	0.28228146	2.3015186	21	2 17.9	19.9
281127 2007 BW_{76}	17.4	X	343.71056	290.84430	300.17126	5.33218	0.1172309	0.28778097	2.2721029	21	3 7.9	19.7
281128 2007 CW_{17}	17.4	X	193.91789	313.48883	111.41622	4.45346	0.1399353	0.29870011	2.2163880	21	5 29.2	20.6
281129 2007 CP_{23}	17.2	X	125.78824	187.32718	294.76726	6.97839	0.1225056	0.29552608	2.2322295	21	5 29.9	20.1
281130 2007 CY_{34}	17.8	X	348.14246	31.28881	158.72199	8.02037	0.1457728	0.27871249	2.3211245	21	1 14.1	20.5
281131 2007 CJ_{38}	17.6	X	348.07374	64.94215	148.31954	2.60777	0.1166778	0.28350388	2.2948980	21	2 20.9	19.9
281132 2007 CL_{44}	17.4	X	204.41531	267.01332	156.00242	5.12622	0.1108798	0.30134165	2.2034166	21	6 7.4	20.5
281133 2007 CX_{45}	17.6	X	342.51016	258.62026	288.30666	4.21881	0.1238719	0.27712917	2.3299569	21	1 6.3	19.9
281134 2007 CM_{47}	15.9	X	97.42040	355.14809	164.25534	9.50929	0.1322025	0.22411350	2.6842566	21	6 19.9	19.8
281135 2007 CR_{50}	17.1	X	77.51754	282.30497	229.63121	5.97071	0.0440823	0.29046879	2.2580648	21	4 21.9	19.6
281136 2007 CJ_{60}	17.1	X	59.89025	1.66674	169.42114	6.42734	0.0410226	0.29068530	2.2569434	21	4 25.2	19.6
281137 2007 CH_{66}	16.2	X	139.21776	90.90729	24.97874	13.03464	0.2182532	0.22796792	2.6539143	21	6 15.4	20.7
281138 2007 DR_{2}	17.8	X	58.90359	153.75436	2.98687	3.73823	0.0639456	0.28685557	2.2769869	21	4 2.5	20.2
281139 2007 DL_{7}	16.5	X	196.00033	69.28709	66.10420	5.41008	0.1980537	0.24090581	2.5580235	21	8 31.7	20.8
281140 Trier	17.2	X	17.05303	178.64436	326.95884	3.74466	0.1460638	0.27597128	2.3364696	21	1 1.7	19.4
281141 2007 DO_{12}	17.5	X	92.27825	26.04789	117.07528	3.94095	0.0963569	0.29178762	2.2512556	21	5 12.6	20.0
281142 2007 DH_{15}	17.3	X	226.53642	23.55637	12.50483	5.88424	0.0631029	0.29726894	2.2234960	21	5 27.7	20.1
281143 2007 DG_{31}	17.7	X	252.77305	177.14598	155.51423	5.83090	0.1149964	0.28649016	2.2789226	21	3 31.7	20.8
281144 2007 DS_{37}	17.6	X	351.61626	308.41401	216.93696	0.91093	0.1238934	0.27234492	2.3571644	21	—	—
281145 2007 DF_{41}	16.9	X	282.28260	348.48470	289.85558	2.93843	0.1891399	0.27663016	2.3327581	21	2 12.2	20.4
281146 2007 DT_{42}	17.1	X	107.49196	314.27997	146.73612	6.45026	0.0600458	0.28524640	2.2855423	21	3 30.1	19.7
281147 2007 DA_{43}	17.6	X	79.64449	305.66205	203.06742	1.88687	0.0853401	0.28931779	2.2640497	21	4 28.2	19.8
281148 2007 DX_{56}	17.0	X	350.48525	110.22630	27.80572	5.11221	0.1732892	0.26871610	2.3783381	21	—	—
281149 2007 DH_{57}	17.0	X	344.51809	50.11559	147.18484	5.17647	0.1040312	0.27790949	2.3255934	21	1 26.1	19.4
281150 2007 DK_{58}	17.3	X	286.93086	262.31083	329.77989	2.26340	0.1339878	0.27020676	2.3695829	21	—	—
281151 2007 DY_{65}	16.8	X	96.05882	75.36736	149.18661	7.44098	0.0983343	0.23409160	2.6074270	21	9 9.8	20.4
281152 2007 DM_{74}	18.1	X	269.44737	120.34920	152.98766	1.50571	0.1723777	0.27478659	2.3431802	21	1 26.7	21.4
281153 2007 DS_{94}	17.4	X	263.84213	185.56897	100.34022	5.57389	0.2329243	0.27454943	2.3445294	21	2 3.2	21.3
281154 2007 DJ_{96}	17.8	X	340.19162	350.20188	186.35304	1.02231	0.1206701	0.27217430	2.3581493	21	—	—
281155 2007 DZ_{96}	17.2	X	7.38426	218.12256	301.87491	1.55464	0.1465505	0.27511695	2.3413040	21	1 5.1	19.6
281156 2007 DA_{100}	17.3	X	284.93990	164.97600	80.70465	2.32246	0.1571572	0.27376606	2.3489998	21	1 9.3	20.6
281157 2007 DL_{104}	15.4	X	197.70600	25.09758	72.60679	28.16242	0.0774887	0.23631859	2.5910202	21	7 18.5	19.6
281158 2007 DU_{106}	17.7	X	262.94372	297.18797	324.48871	0.22464	0.1827215	0.26984445	2.3717035	21	1 6.7	21.2
281159 2007 DP_{115}	17.5	X	277.30234	325.86764	346.96706	4.53775	0.0660470	0.28675917	2.2774971	21	4 6.3	20.2
281160 2007 ER_{3}	17.7	X	318.11971	321.49150	191.96941	1.50462	0.1454183	0.26496976	2.4007034	21	—	—
281161 2007 EK_{5}	17.3	X	323.61131	121.46292	170.24820	4.66051	0.1859265	0.29091873	2.2557360	21	4 26.5	19.4
281162 2007 EO_{14}	17.2	X	21.69901	34.24029	113.40262	3.89495	0.1081322	0.27721884	2.3294544	21	1 16.6	19.2
281163 2007 EO_{16}	17.3	X	248.67382	268.99830	20.37523	7.63119	0.1146150	0.27252168	2.3561450	21	2 2.4	20.9
281164 2007 EZ_{23}	17.0	X	288.01889	89.54045	124.30903	3.89920	0.1468206	0.26576177	2.3959314	21	—	—
281165 2007 EX_{24}	17.2	X	261.80032	285.23117	330.97239	2.23992	0.1985090	0.26730826	2.3866815	21	—	—
281166 2007 ET_{34}	17.6	X	308.39234	68.66922	99.54321	3.06076	0.1200965	0.26430888	2.4047035	21	—	—
281167 2007 EN_{39}	15.9	X	126.40148	152.61985	15.48138	11.72131	0.1675954	0.22852870	2.6495709	21	8 11.4	20.2
281168 2007 EA_{44}	17.3	X	255.72571	50.87584	224.06763	0.72446	0.1694339	0.26949103	2.3737766	21	1 16.9	20.8
281169 2007 EP_{45}	17.3	X	247.54628	85.03962	150.23038	2.69180	0.0906051	0.26123551	2.4235273	21	—	—
281170 2007 ET_{45}	16.8	X	193.07330	305.61995	16.41788	6.17841	0.1511390	0.26549988	2.3975067	21	1 20.3	20.5
281171 2007 EB_{48}	16.4	X	5.30265	244.62011	19.69901	10.26626	0.1606517	0.21819749	2.7325590	21	6 16.7	19.3
281172 2007 EM_{48}	17.5	X	322.51383	80.45825	95.99960	2.36840	0.1233254	0.26601013	2.3944399	21	—	—
281173 2007 EP_{48}	17.4	X	252.92937	60.73998	135.86594	3.22251	0.1432614	0.25570006	2.4583789	21	—	—
281174 2007 EZ_{68}	17.3	X	304.72373	66.03627	123.20080	2.25123	0.1222669	0.26613423	2.3936954	21	—	—
281175 2007 EU_{71}	16.3	X	108.47956	169.75818	20.03336	7.70026	0.0826466	0.22816909	2.6523541	21	8 9.5	20.1
281176 2007 EM_{72}	17.2	X	237.76914	220.75782	30.86382	3.13126	0.1761173	0.26183996	2.4197961	21	—	—
281177 2007 EG_{73}	17.4	X	297.18607	87.22655	109.67666	3.01516	0.1546410	0.26686296	2.3893357	21	—	—
281178 2007 EG_{76}	17.6	X	264.92921	268.47921	321.89281	1.93020	0.0956770	0.26443535	2.4039368	21	—	—
281179 2007 EB_{79}	16.7	X	333.65932	225.24022	315.55481	5.47832	0.0535173	0.27014839	2.3699242	21	—	—
281180 2007 EX_{82}	17.6	X	83.80370	339.62672	170.00736	6.16331	0.0197563	0.29087608	2.2559564	21	4 27.2	20.2
281181 2007 EM_{92}	15.7	X	109.19986	319.89602	349.10146	7.35870	0.2153102	0.25373270	2.4710703	21	—	—
281182 2007 ER_{105}	17.3	X	274.53894	169.38291	163.83428	7.43383	0.1381537	0.28795009	2.2712132	21	4 24.9	20.4
281183 2007 EN_{145}	17.6	X	61.45918	96.93463	156.40925	6.60016	0.1406928	0.29927510	2.2135483	21	9 16.6	20.0
281184 2007 EY_{147}	17.1	X	235.05333	160.28950	102.73508	2.96683	0.1460244	0.26488196	2.4012339	21	—	—
281185 2007 EQ_{151}	17.7	X	315.54850	75.03289	113.38539	3.09045	0.1182401	0.26909433	2.3761090	21	—	—
281186 2007 EP_{166}	16.0	X	27.64357	145.12459	130.13240	11.31130	0.2864763	0.22259577	2.6964443	21	9 12.5	18.7
281187 2007 EZ_{175}	17.7	X	345.32014	92.70942	198.80476	3.67851	0.2001625	0.28764427	2.2728227	21	6 9.6	19.1
281188 2007 EK_{177}	16.8	X	262.45317	14.69081	226.89964	4.40191	0.1122165	0.26472856	2.4021614	21	—	—
281189 2007 EU_{178}	16.5	X	133.74018	242.45497	208.89765	8.27412	0.1245817	0.21512432	2.7585215	21	5 4.2	20.6
281190 2007 EF_{181}	17.6	X	264.02464	268.59078	293.93860	1.14782	0.1608794	0.25812215	2.4429760	21	—	—
281191 2007 EQ_{198}	17.5	X	48.12997	219.85016	278.53225	2.85767	0.1408390	0.28045818	2.3114827	21	2 19.9	19.4
281192 2007 ES_{210}	17.2	X	83.32701	73.64971	43.37746	5.66084	0.1660062	0.28501007	2.2868056	21	4 2.6	19.4
281193 2007 EK_{213}	17.7	X	250.20045	244.31170	18.98588	1.15096	0.1629417	0.26715990	2.3875650	21	—	—
281194 2007 EO_{213}	17.5	X	235.82540	250.31162	19.78493	1.98915	0.1948799	0.26505813	2.4001698	21	—	—
281195 2007 EM_{214}	17.0	X	254.66425	143.26853	168.20881	5.47570	0.2390726	0.27648705	2.3335629	21	2 24.7	21.0
281196 2007 ED_{219}	17.4	X	297.34324	137.51858	20.27123	2.57793	0.1491990	0.25953636	2.4340934	21	—	—
281197 2007 EB_{220}	17.0	X	36.46226	316.19770	180.78058	6.38802	0.0613667	0.27336795	2.3512798	21	1 28.3	19.6
281198 2007 ET_{223}	17.0	X	291.66867	95.14967	89.74999	3.09338	0.1244081	0.26227648	2.4171104	21	—	—
281199 2007 FD_{18}	17.5	X	325.37908	81.54128	105.30176	3.10819	0.1376893	0.27069043	2.3667594	21	—	—
281200 2007 FC_{22}	17.2	X	228.89572	173.24404	143.98206	1.75869	0.1874711	0.27220574	2.3579678	21	2 13.2	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281201 2007 FW_{45}	17.8	X	220.56724	293.75673	4.89391	2.56149	0.0864384	0.27009953	2.3702100	21	1 14.5	21.2
281202 2007 FE_{47}	17.6	X	198.44171	298.22794	22.34272	2.82676	0.2051154	0.26502920	2.4003445	21	1 24.9	21.6
281203 2007 GU_{21}	17.7	X	232.26681	35.16796	178.57840	1.50744	0.1406213	0.25193578	2.4828062	21	—	—
281204 2007 GJ_{31}	16.8	X	225.33558	207.37367	49.12459	1.94120	0.1409029	0.25780542	2.4449765	21	—	—
281205 2007 GY_{40}	17.0	X	18.83700	34.15885	36.14662	4.57519	0.1023990	0.25413284	2.4684757	21	—	—
281206 2007 GT_{49}	16.7	X	20.63402	299.65239	197.78976	22.37752	0.2487692	0.27454845	2.3445350	21	—	—
281207 2007 GE_{50}	17.5	X	9.69645	38.78024	213.35866	21.03680	0.0781757	0.35607967	1.9713842	21	5 30.0	19.2
281208 2007 GV_{51}	16.7	X	57.70494	55.48809	60.94821	7.50077	0.0771893	0.27687033	2.3314089	21	2 7.1	19.2
281209 2007 GE_{63}	17.3	X	204.87079	72.38105	220.86332	9.51661	0.1024407	0.26008359	2.4306779	21	—	—
281210 2007 GL_{66}	16.4	X	332.25988	215.03824	216.87035	9.70901	0.2208235	0.24571465	2.5245386	21	12 27.5	18.6
281211 2007 HC_{1}	16.4	X	81.00190	76.42588	183.93936	13.62756	0.1497453	0.23263519	2.6182982	21	10 15.4	20.1
281212 2007 HG_{1}	16.0	X	3.98468	203.08802	17.33879	8.00776	0.1554886	0.21131855	2.7915429	21	4 10.8	18.9
281213 2007 HT_{7}	16.8	X	131.45365	188.73144	157.54394	5.49936	0.1327230	0.25749353	2.4469504	21	—	—
281214 2007 HX_{11}	17.4	X	196.87002	137.44009	151.04544	1.67626	0.1692404	0.25662252	2.4524842	21	—	—
281215 2007 HB_{19}	16.5	X	232.73486	242.88419	39.43088	6.21576	0.0957518	0.26639881	2.3921103	21	1 7.6	20.0
281216 2007 HH_{22}	17.1	X	98.16049	315.85768	73.67458	3.86633	0.1759149	0.25847850	2.4407302	21	—	—
281217 2007 HW_{28}	16.8	X	174.32066	271.19657	186.64619	12.23174	0.1326224	0.22777858	2.6553847	21	6 22.5	21.2
281218 2007 HC_{31}	17.7	X	302.50387	348.26082	171.11956	2.47606	0.1461241	0.25964849	2.4333926	21	—	—
281219 2007 HK_{33}	15.9	X	123.36660	209.83306	52.22150	13.55619	0.1488622	0.23735877	2.5834449	21	11 26.7	20.0
281220 2007 HY_{38}	17.1	X	254.32840	181.04710	67.88901	2.33285	0.1418868	0.26391421	2.4071004	21	—	—
281221 2007 HQ_{54}	17.5	X	301.27460	74.72665	90.89686	3.30264	0.1198159	0.26046197	2.4283233	21	—	—
281222 2007 HO_{58}	16.4	X	251.82126	138.94858	108.68659	7.40318	0.0964520	0.26237635	2.4164970	21	—	—
281223 2007 HV_{66}	16.4	X	306.43633	46.66306	115.17450	7.48970	0.0767919	0.25550509	2.4596294	21	—	—
281224 2007 HM_{75}	17.6	X	206.77004	57.77666	211.51731	7.47255	0.0537855	0.25604228	2.4561879	21	—	—
281225 2007 HA_{86}	17.2	X	219.30304	74.67091	103.69310	6.73551	0.1646552	0.24374889	2.5380935	21	11 18.0	20.9
281226 2007 HF_{89}	17.2	X	345.06777	313.58667	171.07318	4.98733	0.0711651	0.25877396	2.4388720	21	—	—
281227 2007 HL_{91}	17.3	X	118.84045	253.41945	47.25676	4.24569	0.1580042	0.24233675	2.5479439	21	—	—
281228 2007 HZ_{92}	15.9	X	309.32800	209.29258	79.14153	5.46849	0.0305504	0.20982884	2.8047399	21	5 3.1	19.7
281229 2007 JF	17.0	X	345.59776	2.09615	246.87815	3.87508	0.2465123	0.27815012	2.3242520	21	3 19.4	19.0
281230 2007 JT_{3}	16.3	X	41.42689	352.16234	228.93112	7.17824	0.2050694	0.21531986	2.7568511	21	7 1.8	19.3
281231 2007 JO_{6}	17.3	X	107.15348	269.51590	45.36242	4.58830	0.2206246	0.24185287	2.5513413	21	—	—
281232 2007 JQ_{21}	17.0	X	87.90860	278.87957	47.16665	1.00328	0.3248521	0.23761026	2.5816216	21	—	—
281233 2007 JK_{31}	17.6	X	323.90889	279.44046	228.15152	3.93374	0.1783387	0.26112329	2.4242216	21	—	—
281234 2007 JZ_{33}	16.9	X	226.62004	182.17728	62.71340	0.47306	0.1589681	0.25599870	2.4564667	21	—	—
281235 2007 JE_{36}	15.7	X	56.59277	101.10722	236.83016	21.18260	0.0522265	0.23716774	2.5848319	21	12 9.4	19.3
281236 2007 JM_{39}	17.6	X	317.19197	31.37342	115.86383	3.26968	0.1765856	0.25978442	2.4325437	21	—	—
281237 2007 JE_{42}	15.8	X	151.68405	137.38726	103.21214	28.00058	0.0741185	0.23671330	2.5881391	21	12 5.1	19.9
281238 2007 KQ	16.6	X	81.75452	272.89431	71.13141	12.70912	0.0748604	0.24502482	2.5292747	21	—	—
281239 2007 KD_{5}	17.0	X	136.33599	205.74189	110.44805	0.57347	0.2460699	0.24547887	2.5261549	21	—	—
281240 2007 LG_{4}	17.0	X	122.26601	183.99558	124.00293	5.14365	0.1467719	0.24269705	2.5454216	21	—	—
281241 2007 LM_{5}	15.6	X	66.01279	204.75429	186.11608	13.65201	0.0508552	0.17940341	3.1135003	21	—	—
281242 2007 LU_{10}	16.5	X	14.36527	200.17815	218.59741	7.87001	0.0157055	0.24695074	2.5161073	21	—	—
281243 2007 LA_{22}	16.8	X	98.71773	143.57768	168.20767	11.38298	0.1965828	0.23751042	2.5823450	21	—	—
281244 2007 LU_{27}	16.5	X	67.21151	10.15589	244.97733	7.99833	0.1356332	0.21816444	2.7328350	21	9 12.9	20.4
281245 2007 MG_{3}	17.0	X	52.67002	38.44008	262.09184	2.60156	0.2080912	0.22278623	2.6949072	21	11 6.9	20.6
281246 2007 MU_{3}	15.7	X	54.86021	187.08450	145.97785	20.32284	0.3194975	0.22449055	2.6812502	21	—	—
281247 2007 MA_{4}	15.8	X	103.69525	124.14586	215.38762	5.34855	0.2022002	0.24145700	2.5541291	21	—	—
281248 2007 ML_{14}	16.4	X	12.48425	74.95130	234.58330	3.02661	0.1214103	0.21622645	2.7491399	21	9 3.4	19.4
281249 2007 MO_{16}	15.7	X	91.43811	182.12969	96.98964	14.67954	0.2351035	0.22671571	2.6636775	21	11 26.9	20.2
281250 2007 MD_{26}	16.3	X	94.34917	232.99698	68.08390	13.61266	0.2318465	0.22983712	2.6395057	21	12 21.7	20.8
281251 2007 NT	16.6	X	5.71589	109.84095	221.10369	2.68385	0.2260121	0.21768780	2.7368226	21	10 3.9	18.9
281252 2007 NX_{5}	15.6	X	16.93176	302.25664	46.20981	13.57417	0.1772903	0.22244978	2.6976239	21	11 13.7	18.5
281253 2007 OV_{6}	16.5	X	71.82188	56.95663	239.09803	8.88235	0.2734308	0.22326378	2.6910630	21	11 30.2	20.8
281254 2007 PT	16.8	X	121.56035	164.84073	126.77538	7.25163	0.2752475	0.23454587	2.6040592	21	—	—
281255 2007 PW_{3}	16.2	X	122.92599	227.43500	57.80269	12.22334	0.2445167	0.23465251	2.6032702	21	12 26.6	20.8
281256 2007 PQ_{17}	16.1	X	116.34469	119.41623	131.40133	14.15889	0.1234272	0.22542314	2.6738500	21	11 9.9	20.5
281257 2007 PE_{20}	16.4	X	78.95959	118.86020	148.53830	9.41762	0.1946443	0.21995258	2.7180035	21	10 27.8	20.6
281258 2007 PL_{21}	16.1	X	339.89686	191.41663	145.21977	14.74859	0.1459055	0.21016316	2.8017647	21	8 13.2	19.2
281259 2007 PW_{21}	15.7	X	121.07605	167.50079	161.05238	17.22475	0.2232958	0.23438327	2.6052634	21	—	—
281260 2007 PO_{22}	15.3	X	207.29614	257.77268	138.84182	10.85583	0.1174141	0.19337232	2.9616916	21	5 14.1	20.1
281261 2007 PW_{22}	15.8	X	225.49424	224.14879	158.81886	15.59280	0.2686206	0.18990806	2.9976008	21	5 7.9	21.3
281262 2007 PP_{36}	16.5	X	20.86545	171.58367	151.56609	13.58085	0.2000432	0.21827676	2.7318974	21	10 24.7	19.8
281263 2007 PS_{36}	17.0	X	249.36257	142.45909	173.83925	5.10691	0.1639924	0.26130314	2.4231091	21	3 4.2	20.8
281264 2007 PT_{37}	16.3	X	31.04703	105.31383	211.58455	2.66082	0.1934664	0.21705853	2.7421096	21	10 26.9	19.5
281265 2007 QR_{1}	16.1	X	5.82125	200.25769	112.87442	9.39500	0.2142252	0.21158710	2.7891803	21	9 9.6	18.8
281266 2007 QF_{2}	16.4	X	258.97499	146.61447	232.54653	11.18133	0.1562938	0.20066424	2.8895002	21	6 7.4	20.7
281267 2007 QY_{2}	15.6	X	217.91935	207.49798	170.60182	11.86655	0.1505620	0.18920989	3.0049701	21	4 29.9	20.5
281268 2007 QT_{12}	16.2	X	131.59346	171.02193	133.76331	14.83799	0.2730548	0.23345676	2.6121518	21	—	—
281269 2007 QV_{12}	15.7	X	121.31398	239.72931	184.76860	10.15155	0.0655707	0.18001626	3.1064299	21	3 12.3	20.2
281270 2007 RY_{1}	16.1	X	137.90124	250.39662	287.57320	7.03860	0.0652530	0.21604480	2.7506806	21	8 20.9	20.2
281271 2007 RC_{6}	16.6	X	42.80763	83.16121	198.87933	8.06358	0.2626529	0.21428349	2.7657330	21	10 8.6	20.0
281272 Arnaudleroy	16.5	X	44.41878	102.22428	200.63395	6.91423	0.2128101	0.21617073	2.7496123	21	10 31.4	20.1
281273 2007 RK_{13}	16.5	X	70.78123	142.18253	174.03293	13.47357	0.2676672	0.22399887	2.6851723	21	12 22.6	21.0
281274 2007 RC_{26}	16.5	X	331.08784	188.70790	179.00237	0.83687	0.2483861	0.21190052	2.7864294	21	9 2.7	18.9
281275 2007 RC_{31}	15.9	X	12.17188	38.04531	276.41369	6.81603	0.2379803	0.21355250	2.7720407	21	9 20.7	18.7
281276 2007 RV_{35}	16.2	X	271.18736	134.32890	215.07430	4.00715	0.0984551	0.19741670	2.9211024	21	5 22.5	20.3
281277 2007 RN_{42}	15.6	X	265.75289	90.75727	204.61424	10.79911	0.0355206	0.18401276	3.0612873	21	3 16.0	20.1
281278 2007 RX_{46}	15.5	X	272.04469	288.02735	336.26377	8.78836	0.1277127	0.18034856	3.1026130	21	2 7.3	20.1
281279 2007 RU_{78}	16.1	X	77.94774	262.59031	173.85134	9.53225	0.0796441	0.17488192	3.1669371	21	2 2.9	20.5
281280 2007 RL_{81}	16.3	X	145.38611	223.65958	191.48733	2.27008	0.1455393	0.18327504	3.0694967	21	4 5.5	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281281 2007 RR_{91}	16.5	X	269.02249	110.72249	191.48572	2.58625	0.0921781	0.18591033	3.0404208	21	3 22.9	20.9
281282 2007 RA_{96}	15.9	X	155.78910	205.26280	185.47632	24.19875	0.0620816	0.17686898	3.1431728	21	3 9.9	20.6
281283 2007 RZ_{103}	15.3	X	233.38981	314.89990	15.44430	11.65426	0.1282555	0.18295544	3.0730703	21	3 19.5	20.1
281284 2007 RC_{117}	15.9	X	316.56022	64.63117	197.14555	10.33853	0.0817320	0.18746812	3.0235543	21	4 1.5	19.9
281285 2007 RV_{118}	15.3	X	170.23391	205.39750	190.64062	18.65254	0.3161350	0.17929529	3.1147519	21	4 13.4	21.0
281286 2007 RP_{128}	16.2	X	291.43504	122.30170	144.23993	1.72247	0.1257990	0.18279963	3.0748163	21	3 1.7	20.6
281287 2007 RD_{133}	16.9	X	26.21069	65.45262	269.79638	0.96568	0.2698719	0.21780777	2.7358176	21	11 25.2	20.0
281288 2007 RF_{136}	16.0	X	248.73201	130.25882	164.15597	12.07324	0.0165792	0.18123782	3.0924557	21	2 26.9	20.3
281289 2007 RV_{142}	15.3	X	146.50553	142.96008	180.48073	16.57898	0.0985063	0.16913571	3.2382659	21	—	—
281290 2007 RM_{144}	17.2	X	61.72156	115.29854	212.04859	6.25139	0.2045418	0.29395239	2.2401893	21	—	—
281291 2007 RQ_{149}	15.5	X	197.30182	218.49429	154.60734	17.04238	0.1637128	0.18348132	3.0671957	21	4 6.9	20.7
281292 2007 RQ_{158}	15.7	X	119.50037	330.24831	87.72650	2.76021	0.0953498	0.17772419	3.1330814	21	3 8.8	20.1
281293 2007 RW_{167}	16.0	X	175.03823	257.57718	125.52989	2.73662	0.1632054	0.18235197	3.0798465	21	3 27.9	20.9
281294 2007 RE_{173}	16.2	X	245.38029	183.70294	167.40440	10.13782	0.1234652	0.18939967	3.0029625	21	4 25.4	20.9
281295 2007 RT_{202}	15.9	X	206.52941	160.16130	200.00816	4.87714	0.1151753	0.18265737	3.0764126	21	3 27.1	20.6
281296 2007 RH_{216}	16.1	X	80.92098	22.61275	282.51409	4.22483	0.3200010	0.22507302	2.6766223	21	12 22.2	20.5
281297 2007 RK_{239}	15.3	X	272.39574	198.92828	135.18567	12.02566	0.0992968	0.19294869	2.9660251	21	5 8.7	19.8
281298 2007 RM_{239}	15.5	X	241.78846	226.29521	133.92362	11.75760	0.1002903	0.19112233	2.9848906	21	5 6.7	20.2
281299 2007 RS_{258}	16.0	X	226.53453	117.03022	224.02112	2.96575	0.1254154	0.18452307	3.0556405	21	3 22.4	20.8
281300 2007 RS_{284}	15.2	X	244.38191	57.61198	249.84122	8.78736	0.0894051	0.18098076	3.0953834	21	2 27.7	20.0
281301 2007 RX_{291}	16.0	X	249.10268	286.07498	24.81678	2.62489	0.0517358	0.18199605	3.0838606	21	3 16.9	20.6
281302 2007 RA_{299}	15.6	X	242.09622	195.14274	144.55594	10.97932	0.1194802	0.18652684	3.0337177	21	4 9.8	20.4
281303 2007 RQ_{310}	16.4	X	283.52109	220.49037	137.21737	4.02878	0.1630130	0.19900382	2.9055506	21	6 8.5	20.4
281304 2007 RU_{313}	15.2	X	199.69749	300.43390	33.01607	19.31022	0.0919534	0.17726417	3.1384996	21	2 28.3	20.4
281305 2007 RV_{322}	16.1	X	281.20626	211.86917	100.97066	2.92147	0.0752598	0.18924003	3.0046511	21	4 22.9	20.3
281306 2007 SS_{5}	15.9	X	282.98655	138.69874	192.92623	9.03564	0.1569885	0.19311640	2.9643077	21	5 7.2	20.1
281307 2007 SO_{9}	15.7	X	268.93587	143.00653	170.09667	9.91742	0.0927526	0.18626627	3.0365463	21	4 7.1	20.1
281308 2007 SE_{15}	16.0	X	276.16293	171.62001	160.65578	10.49172	0.1032534	0.19280863	2.9674613	21	5 8.9	20.4
281309 2007 TC_{3}	16.3	X	248.57163	308.12564	346.31500	1.96714	0.1485324	0.17755172	3.1351100	21	2 17.1	21.1
281310 2007 TV_{13}	15.6	X	238.04951	292.07061	31.51592	7.28502	0.0720347	0.18274415	3.0754386	21	3 19.9	20.2
281311 2007 TZ_{33}	15.9	X	260.42641	234.49340	59.94343	1.84631	0.1546830	0.17882942	3.1201590	21	2 28.1	20.7
281312 2007 TE_{37}	16.1	X	319.25885	121.80548	166.12999	1.46702	0.1621532	0.19208362	2.9749237	21	4 28.1	19.7
281313 2007 TV_{38}	15.9	X	188.00431	140.77109	203.67640	5.68256	0.1202159	0.17277786	3.1925962	21	2 19.4	21.0
281314 2007 TB_{43}	15.6	X	281.13966	127.97616	185.87006	11.96184	0.0834409	0.19000883	2.9965408	21	4 23.3	19.9
281315 2007 TV_{76}	15.8	X	56.48648	310.75637	157.22623	9.63211	0.0550879	0.17689683	3.1428430	21	2 10.5	20.0
281316 2007 TH_{92}	16.2	X	258.11065	200.59872	155.57504	10.79532	0.0602109	0.19660755	2.9291116	21	5 22.8	20.6
281317 2007 TO_{103}	15.9	X	183.15080	141.81841	189.10572	3.78959	0.1211544	0.16846983	3.2467932	21	1 31.9	21.1
281318 2007 TQ_{103}	15.3	X	83.30059	160.56131	212.18226	13.91540	0.0970620	0.15561871	3.4231676	21	—	—
281319 2007 TW_{145}	15.5	X	166.27909	173.73374	193.35756	9.05904	0.0791332	0.17499260	3.1656016	21	2 22.0	20.4
281320 2007 TB_{146}	16.1	X	209.40485	5.89215	349.66587	1.83100	0.1520233	0.18181847	3.0858683	21	3 24.0	21.2
281321 2007 TH_{182}	16.9	X	309.78508	129.04340	187.23395	11.34359	0.2923132	0.26819704	2.3814057	21	4 24.7	19.9
281322 2007 TU_{183}	15.6	X	179.49086	304.38760	71.32957	11.17060	0.2475062	0.17710280	3.1404057	21	3 30.3	21.2
281323 2007 TX_{183}	15.4	X	161.86028	286.98403	76.90806	7.12250	0.1220306	0.16972235	3.2307996	21	2 22.7	20.5
281324 2007 TG_{184}	15.8	X	149.86731	178.88765	197.80058	11.06340	0.0753247	0.17402672	3.1773039	21	2 15.1	20.6
281325 2007 TZ_{186}	15.7	X	158.53959	213.73566	191.52789	18.62360	0.0860722	0.17921556	3.1156757	21	4 2.6	20.4
281326 2007 TR_{191}	15.6	X	259.91798	200.75361	141.18078	11.49213	0.1219433	0.19184388	2.9774016	21	5 1.2	20.2
281327 2007 TL_{198}	16.3	X	227.51181	66.34910	274.49613	2.05899	0.1155071	0.18189078	3.0850503	21	3 23.8	21.2
281328 2007 TO_{214}	15.6	X	159.33369	252.07105	105.85454	6.00540	0.1551775	0.16904113	3.2394737	21	2 14.3	20.8
281329 2007 TV_{242}	15.9	X	335.67357	36.56369	257.99443	8.20447	0.2083708	0.19846614	2.9107959	21	5 27.9	18.8
281330 2007 TO_{244}	15.9	X	347.20480	204.56256	230.85568	12.91216	0.1735888	0.22040502	2.7142826	21	—	—
281331 2007 TR_{246}	16.2	X	184.56127	239.04563	110.64036	2.59740	0.1744501	0.17528247	3.1621107	21	2 26.2	21.3
281332 2007 TZ_{311}	16.3	X	224.24185	217.21037	109.99637	2.86571	0.1158560	0.17903265	3.1177974	21	3 7.1	21.1
281333 2007 TT_{329}	15.6	X	231.32355	52.84119	244.39924	6.33888	0.0836192	0.17172980	3.2055725	21	2 6.0	20.5
281334 2007 TD_{336}	16.5	X	266.68176	43.50678	277.71822	2.32309	0.0921151	0.19076209	2.9886473	21	4 11.3	20.9
281335 2007 TF_{340}	16.1	X	95.92287	216.51782	197.12268	8.66601	0.0268335	0.17140989	3.2095598	21	1 22.8	20.8
281336 2007 TM_{350}	15.6	X	59.74506	319.42613	151.85142	10.05509	0.0934519	0.17915763	3.1163472	21	2 23.2	19.6
281337 2007 TN_{391}	16.1	X	267.40639	91.58688	203.51971	11.00536	0.1553721	0.18295706	3.0730522	21	3 3.6	21.0
281338 2007 TJ_{431}	16.2	X	198.30180	304.91655	39.19140	5.73849	0.1400246	0.17517607	3.1633909	21	3 4.5	21.4
281339 2007 TX_{433}	15.5	X	251.74170	82.18297	226.99001	25.60232	0.1092207	0.18075889	3.0979158	21	3 4.1	20.8
281340 2007 TP_{441}	15.8	X	241.08705	208.31575	154.36212	10.38305	0.1360154	0.19107752	2.9853573	21	5 4.7	20.6
281341 2007 TY_{441}	16.3	X	203.35676	100.16937	278.05201	4.86050	0.1888832	0.18485446	3.0519876	21	4 11.8	21.5
281342 2007 UP_{2}	15.8	X	207.86087	268.43707	79.93969	3.01120	0.1155017	0.17952228	3.1121258	21	3 16.8	20.8
281343 2007 UK_{21}	15.5	X	250.07885	266.43617	33.87654	5.54056	0.1332045	0.17850672	3.1239183	21	2 28.4	20.4
281344 2007 UW_{31}	15.5	X	146.18029	183.75350	196.24120	19.50927	0.0655126	0.17195143	3.2028175	21	2 13.2	20.6
281345 2007 UH_{33}	15.9	X	110.32987	66.74835	303.79010	13.61504	0.1361306	0.23400142	2.6080969	21	—	—
281346 2007 UT_{44}	15.7	X	33.73556	104.90012	8.82842	3.30872	0.0159266	0.16774650	3.2561200	21	1 20.8	20.2
281347 2007 UP_{113}	16.5	X	274.16021	1.00315	222.93201	12.62866	0.1303542	0.23422790	2.6064154	21	—	—
281348 2007 UY_{135}	16.6	X	224.89407	174.18299	188.37612	6.81970	0.1067878	0.18928787	3.0041448	21	4 18.0	21.1
281349 2007 UT_{136}	15.8	X	200.21840	226.25701	120.78449	13.08381	0.1517301	0.17512877	3.1639605	21	3 10.9	21.1
281350 2007 UJ_{140}	17.5	X	178.22354	263.41292	266.73867	3.27658	0.0541297	0.27339572	2.3511206	21	10 2.5	20.8
281351 2007 VT_{10}	15.9	X	349.93746	225.04362	130.29307	10.08161	0.3046721	0.21224671	2.7833986	21	10 14.7	18.0
281352 2007 VP_{30}	15.6	X	191.78156	104.52577	253.23753	8.50479	0.1162832	0.17595083	3.1540979	21	3 7.5	20.7
281353 2007 VO_{36}	15.9	X	170.15867	137.41120	224.09688	5.29160	0.1398489	0.17379018	3.1801862	21	2 23.1	21.1
281354 2007 VO_{62}	15.5	X	255.46593	100.46879	245.11764	14.63960	0.2494003	0.18616380	3.0376605	21	4 11.5	20.7
281355 2007 VB_{147}	15.9	X	47.15057	119.81735	217.03193	5.56056	0.0626958	0.20930209	2.8094437	21	11 23.5	19.6
281356 2007 VH_{167}	15.2	X	224.63374	70.17345	245.03727	15.49999	0.2287259	0.17219336	3.1998168	21	2 11.2	21.0
281357 2007 VF_{176}	15.3	X	173.86145	290.69209	83.97813	16.83689	0.2294117	0.17406351	3.1768562	21	3 27.9	21.0
281358 2007 VJ_{287}	15.8	X	107.78446	340.62916	157.70869	11.14278	0.1672545	0.17819594	3.1275494	21	6 11.4	20.7
281359 2007 VN_{301}	16.0	X	101.22607	201.37335	157.07185	7.91909	0.3600726	0.23005655	2.6378271	21	—	—
281360 2007 VE_{322}	15.8	X	148.54773	263.46697	113.43444	10.81951	0.1777927	0.17007483	3.2263342	21	3 1.6	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281361 2007 WQ_{17}	15.6	X	238.02116	260.58432	70.34847	26.65543	0.2116966	0.17863484	3.1224244	21	4 2.3	21.3
281362 2007 YE_{34}	15.9	X	208.88717	276.90382	53.60624	8.09453	0.2990391	0.17284455	3.1917749	21	2 26.3	21.8
281363 2008 CV_{5}	17.4	X	131.48439	300.46992	141.50732	22.16742	0.0849968	0.38114871	1.8839661	21	4 1.4	19.6
281364 2008 CH_{9}	15.5	X	15.31921	283.43655	326.91710	6.05735	0.1666815	0.16916011	3.2379545	21	6 19.8	19.2
281365 2008 CM_{116}	17.4	X	278.09092	355.79756	0.11043	18.71038	0.6632680	0.47340346	1.6304786	21	3 29.3	20.7
281366 2008 CV_{185}	17.2	X	111.10959	319.18155	119.08346	24.15489	0.1115752	0.37578910	1.9018369	21	2 23.3	18.9
281367 2008 CF_{210}	15.2	X	68.41841	239.34538	353.35661	20.70712	0.0565485	0.17291290	3.1909337	21	8 13.4	19.9
281368 2008 EA	16.9	X	112.97096	286.43319	132.52860	23.55522	0.1209660	0.37066930	1.9193093	21	1 23.9	18.3
281369 2008 EQ_{25}	17.4	X	354.95554	141.12428	61.53099	7.18924	0.1112815	0.29827680	2.2184845	21	2 18.1	19.7
281370 2008 FD_{58}	17.8	X	176.51185	177.30867	186.30334	22.20418	0.0753363	0.36880520	1.9257712	21	1 25.4	20.6
281371 2008 FC_{76}	9.3	X	46.88033	141.59842	245.63006	27.13452	0.3082847	0.01752649	14.6781982	21	—	—
281372 2008 GB_{1}	17.2	X	207.54628	133.92688	206.19174	21.49728	0.0706544	0.36989823	1.9219756	21	1 28.7	20.1
281373 2008 GK_{57}	15.7	X	327.91726	232.85608	191.14163	12.82703	0.1809352	0.19208970	2.9748609	21	11 19.5	19.0
281374 2008 JU_{3}	16.8	X	145.93777	197.87236	95.91321	7.53246	0.1248095	0.26543091	2.3979220	21	—	—
281375 2008 JV_{19}	20.7	X	262.16843	310.61066	141.96645	7.22612	0.2484956	1.00737214	0.9855442	21	—	—
281376 2008 JJ_{39}	18.1	X	7.87409	142.55832	135.04882	3.80456	0.1672055	0.30260782	2.1972659	21	7 15.8	19.2
281377 2008 OR_{3}	17.3	X	340.75759	53.73921	234.38432	5.67622	0.1821149	0.29663785	2.2266485	21	5 24.6	19.0
281378 2008 OE_{8}	18.1	X	345.68952	51.09266	244.69722	2.11163	0.1514632	0.29975686	2.2111759	21	6 22.8	19.7
281379 2008 OW_{8}	17.5	X	288.57688	178.31116	171.14412	6.81481	0.1891488	0.29490969	2.2353388	21	5 27.4	20.2
281380 2008 OB_{10}	17.1	X	305.32301	173.52679	150.36990	6.39408	0.2005501	0.29353510	2.2423119	21	5 13.2	19.7
281381 2008 OL_{10}	17.6	X	306.45885	101.09022	204.10380	6.62727	0.1277985	0.29204820	2.2499163	21	4 28.0	19.9
281382 2008 OZ_{10}	15.7	X	275.64814	62.11959	251.02327	8.19577	0.0862983	0.21120535	2.7925402	21	4 8.6	19.7
281383 2008 OJ_{19}	17.4	X	266.74722	134.19572	197.92156	3.64764	0.1915326	0.28768913	2.2725865	21	4 5.8	20.8
281384 2008 PE_{6}	17.4	X	154.10510	239.33804	134.90288	4.45178	0.1627578	0.27090532	2.3655077	21	2 14.5	20.8
281385 2008 PF_{8}	17.8	X	338.92974	157.01988	165.02870	6.04451	0.2259465	0.30138215	2.2032191	21	7 15.1	18.9
281386 2008 PT_{9}	17.3	X	347.93393	201.21222	70.83375	5.86029	0.0896204	0.29486260	2.2355768	21	5 24.5	19.4
281387 2008 PR_{20}	15.7	X	307.17050	308.20627	1.97654	9.13014	0.1899024	0.21612273	2.7500194	21	4 29.5	19.3
281388 2008 QZ_{1}	17.3	X	286.17581	101.03469	221.69614	2.12467	0.2259666	0.28862285	2.2676825	21	4 9.8	20.3
281389 2008 QA_{6}	17.6	X	286.31883	274.40361	48.02527	3.10938	0.2033707	0.28969676	2.2620748	21	4 13.6	20.6
281390 2008 QE_{9}	18.1	X	287.97969	7.37518	324.20469	2.56762	0.1975684	0.29062187	2.2572718	21	4 27.1	20.9
281391 2008 QW_{17}	16.5	X	214.73564	340.78696	200.55832	14.74772	0.0501422	0.24299689	2.5433272	21	11 29.8	20.1
281392 2008 QG_{27}	16.9	X	167.79914	227.65987	140.26833	10.62631	0.1781141	0.27010781	2.3701616	21	2 22.4	20.5
281393 2008 QK_{31}	17.0	X	230.59914	60.13858	271.62086	6.31393	0.1510650	0.27648449	2.3335774	21	3 1.8	20.7
281394 2008 QA_{36}	17.7	X	296.54582	110.15828	165.88662	3.60798	0.1538670	0.28252418	2.3002002	21	2 28.8	20.6
281395 2008 QD_{46}	17.1	X	294.39656	18.39234	291.03295	5.82323	0.1705953	0.28781515	2.2719230	21	4 6.4	20.0
281396 2008 QN_{48}	16.7	X	214.24529	77.57765	267.47956	3.40161	0.3144212	0.27196774	2.3593432	21	3 4.9	21.2
281397 2008 RJ_{22}	17.4	X	114.92362	272.39277	75.24307	2.57297	0.1890247	0.25564035	2.4587617	21	—	—
281398 2008 RM_{25}	17.6	X	144.76912	54.43549	334.54986	3.71749	0.1315219	0.27000965	2.3707360	21	2 19.5	20.7
281399 2008 RU_{29}	17.0	X	255.15756	233.08500	353.46745	2.51070	0.1091654	0.25972154	2.4329363	21	—	—
281400 2008 RV_{31}	17.2	X	171.49810	2.24305	351.72684	2.53793	0.2016001	0.26758047	2.3850626	21	2 10.4	20.9
281401 2008 RJ_{35}	17.5	X	248.29875	78.01775	212.97976	0.98732	0.1836117	0.27358662	2.3500268	21	1 28.6	21.1
281402 2008 RE_{44}	17.4	X	185.43121	206.87735	158.37880	2.72830	0.2196546	0.27146181	2.3622737	21	3 8.4	21.1
281403 2008 RW_{45}	16.2	X	204.15102	286.38831	162.87345	5.21841	0.0890783	0.21379748	2.7699228	21	7 13.0	20.5
281404 2008 RB_{46}	17.7	X	264.25369	129.99123	142.64966	1.48376	0.1671701	0.27246468	2.3564736	21	1 21.7	21.3
281405 2008 RG_{56}	17.1	X	272.86737	24.78773	293.57004	3.74557	0.1699215	0.28497330	2.2870023	21	3 25.7	20.5
281406 2008 RP_{57}	17.0	X	261.84947	264.94421	203.56828	3.27716	0.0355283	0.23276633	2.6173147	21	10 26.6	20.3
281407 2008 RQ_{66}	16.6	X	298.84729	347.78688	99.55226	4.00903	0.0723571	0.23530182	2.5984789	21	11 16.7	19.6
281408 2008 RN_{68}	16.9	X	205.01476	295.58834	28.73386	6.93368	0.1390462	0.26810665	2.3819410	21	2 3.4	20.7
281409 2008 RF_{71}	17.3	X	294.07725	342.85804	312.75749	1.71950	0.1759627	0.28798130	2.2710491	21	3 19.8	20.2
281410 2008 RB_{103}	16.9	X	289.91383	274.16721	198.72032	5.77802	0.0637643	0.24082033	2.5586288	21	12 8.9	20.0
281411 2008 RS_{105}	16.1	X	330.33551	269.39077	122.54911	6.35553	0.2141345	0.22836009	2.6508750	21	10 19.3	18.4
281412 2008 RZ_{106}	16.3	X	86.65752	307.20814	198.26297	2.10654	0.1284805	0.19737235	2.9215401	21	5 18.9	20.1
281413 2008 RX_{108}	16.8	X	213.66916	238.14847	183.50450	4.35487	0.0623750	0.21125871	2.7920700	21	6 20.2	20.9
281414 2008 RE_{109}	17.3	X	192.89567	105.81453	180.44875	4.43173	0.0668939	0.25884587	2.4384202	21	—	—
281415 2008 RA_{111}	16.4	X	160.46492	146.77660	53.61246	4.63247	0.0409182	0.22969306	2.6406092	21	10 19.3	20.1
281416 2008 RB_{116}	17.3	X	187.19235	285.48322	348.01645	2.24653	0.0670425	0.25148863	2.4857482	21	—	—
281417 2008 RZ_{116}	16.8	X	235.57623	211.90372	209.96544	3.21777	0.0861823	0.21040958	2.7995767	21	7 13.3	21.0
281418 2008 RO_{119}	17.0	X	230.80160	214.72748	116.08517	5.88347	0.1787169	0.27504868	2.3416915	21	3 5.5	20.8
281419 2008 RF_{129}	16.7	X	88.05675	78.80883	248.19852	10.35185	0.2026385	0.23610834	2.5925581	21	—	—
281420 2008 RH_{129}	17.0	X	334.46302	162.44263	206.69165	3.25730	0.1079090	0.21964701	2.7205237	21	9 21.1	20.1
281421 2008 RR_{130}	17.6	X	241.03599	85.96028	218.26072	1.49127	0.1996238	0.27284150	2.3543034	21	2 6.7	21.3
281422 2008 RG_{132}	15.8	X	241.13579	200.34882	223.00818	11.59093	0.1556939	0.21725502	2.7404560	21	7 12.0	20.2
281423 2008 RZ_{138}	15.9	X	220.75296	290.60619	149.07307	9.18003	0.2190476	0.21254538	2.7807905	21	7 9.5	20.6
281424 2008 RG_{139}	15.7	X	253.77096	251.31384	232.14859	14.05207	0.0620116	0.23373282	2.6100946	21	10 30.3	19.2
281425 2008 RQ_{142}	16.4	X	38.59419	187.42916	259.45418	13.80551	0.0077910	0.25991101	2.4317538	21	—	—
281426 2008 SX_{2}	16.3	X	308.25414	172.71016	135.28168	5.92690	0.1396877	0.21245785	2.7815542	21	5 11.8	19.9
281427 2008 SY_{3}	16.7	X	320.62271	262.98714	147.50454	4.31539	0.2137788	0.22924677	2.6440352	21	10 23.2	18.9
281428 2008 SF_{5}	17.3	X	170.22977	254.58012	98.49953	3.45436	0.2162451	0.26595024	2.3947993	21	2 9.7	21.0
281429 2008 SJ_{5}	16.0	X	286.73621	280.79178	141.15697	5.86246	0.0867621	0.22499731	2.6772227	21	9 22.3	19.4
281430 2008 SO_{8}	17.4	X	270.88668	160.56994	180.04533	5.43741	0.1895078	0.28777433	2.2721379	21	4 23.2	20.6
281431 2008 SG_{9}	17.8	X	275.13631	106.40349	207.53750	3.57446	0.1915086	0.28433295	2.2904347	21	3 21.3	21.1
281432 2008 SK_{9}	17.5	X	140.04073	161.45334	215.05915	1.98479	0.1007962	0.26505931	2.4001626	21	1 24.5	20.7
281433 2008 SB_{10}	16.0	X	7.73804	284.32962	354.73044	11.55483	0.2050675	0.22106079	2.7089120	21	7 22.4	18.6
281434 2008 SZ_{40}	17.2	X	117.83271	329.68653	52.06773	2.22941	0.1978629	0.26006544	2.4307910	21	1 19.7	20.1
281435 2008 ST_{42}	16.6	X	247.45322	249.91534	204.80820	5.03675	0.0131038	0.22319426	2.6916218	21	9 20.0	20.3
281436 2008 SN_{60}	17.1	X	161.48913	124.09729	238.62792	2.63157	0.2687757	0.26561453	2.3968167	21	2 15.9	20.9
281437 2008 SR_{60}	17.2	X	207.17685	354.83768	334.04539	4.12957	0.1549644	0.26979147	2.3720139	21	2 9.0	20.8
281438 2008 SE_{65}	16.9	X	318.43823	285.65584	115.27366	3.14832	0.1220412	0.22538340	2.6741644	21	10 10.6	19.8
281439 2008 ST_{70}	16.6	X	9.63327	119.08730	165.96593	6.31168	0.1412796	0.22168202	2.7038488	21	7 26.6	19.4
281440 2008 SV_{71}	17.1	X	207.87128	246.00771	89.36856	5.26574	0.2203794	0.26990738	2.3713348	21	2 20.1	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281441 2008 SW_{72}	15.8	X	63.48284	248.53362	51.35103	12.33644	0.2340329	0.22861081	2.6489364	21	11 22.3	19.6
281442 2008 SX_{77}	16.4	X	210.60637	235.89218	201.28284	4.32772	0.1400586	0.21165137	2.7886157	21	7 1.8	20.9
281443 2008 SO_{81}	15.5	X	81.77055	128.72480	228.62219	12.08972	0.1972755	0.24152630	2.5536405	21	—	—
281444 2008 SR_{83}	17.5	X	77.49654	188.52544	155.99536	1.56393	0.0240010	0.24251865	2.5466697	21	—	—
281445 Scotthowe	16.9	X	354.27964	110.96260	244.24428	5.23982	0.0461485	0.22555771	2.6727865	21	10 2.7	20.4
281446 2008 SL_{93}	16.7	X	281.02915	203.57446	247.44287	3.89806	0.0479806	0.22913906	2.6448637	21	10 26.2	20.0
281447 2008 SJ_{97}	16.2	X	150.00413	214.39938	291.94485	2.26705	0.0311169	0.21287025	2.7779605	21	7 25.0	19.9
281448 2008 SQ_{99}	17.1	X	144.73616	280.01631	52.85997	7.15031	0.1325506	0.25416310	2.4682798	21	—	—
281449 2008 SR_{100}	16.5	X	12.65618	221.83355	131.27075	3.82757	0.0323215	0.22851413	2.6496835	21	10 29.7	19.9
281450 2008 SS_{105}	16.8	X	80.23469	250.93863	44.95472	3.28361	0.0780458	0.23149802	2.6268656	21	11 17.8	20.4
281451 2008 SF_{106}	16.8	X	162.67145	61.73373	193.03608	2.89129	0.1171240	0.24020966	2.5629634	21	12 26.1	20.7
281452 2008 SS_{106}	17.2	X	200.77186	285.09331	52.80989	5.73243	0.2442792	0.26990744	2.3713344	21	2 18.8	21.3
281453 2008 SC_{110}	17.6	X	182.85166	208.50271	128.01665	2.06354	0.2052462	0.26558257	2.3970091	21	1 30.1	21.4
281454 2008 SV_{120}	17.8	X	250.87313	15.14697	285.26377	1.30203	0.1941781	0.27270155	2.3551088	21	2 10.9	21.6
281455 2008 SO_{124}	16.9	X	9.92776	31.23666	269.51293	1.52622	0.0050723	0.21567728	2.7538046	21	8 11.2	20.6
281456 2008 SZ_{126}	17.6	X	231.03060	20.08102	291.21505	0.77562	0.1979807	0.27078297	2.3662201	21	2 7.6	21.4
281457 2008 SS_{131}	16.3	X	263.86412	197.28002	216.77469	5.86366	0.0150881	0.21596482	2.7513597	21	8 16.5	20.1
281458 2008 SU_{131}	17.0	X	294.11172	154.67025	227.10971	3.82602	0.0429545	0.21590143	2.7518982	21	8 11.1	20.7
281459 Kyrylenko	17.8	X	311.11035	161.31138	153.05176	2.38023	0.2300015	0.29117635	2.2544052	21	5 1.5	20.2
281460 2008 SH_{155}	17.6	X	190.84704	264.34838	83.29215	2.39446	0.2054991	0.26934054	2.3746607	21	2 19.8	21.4
281461 2008 SJ_{164}	17.5	X	180.51505	234.33908	107.50909	2.14897	0.1957908	0.26615442	2.3935744	21	2 3.2	21.3
281462 2008 SQ_{166}	16.4	X	272.72439	226.22413	169.00277	3.45007	0.1083477	0.21559298	2.7545223	21	7 21.4	20.2
281463 2008 SR_{166}	16.1	X	239.23505	266.11431	182.89430	8.12021	0.1594346	0.21662407	2.7457748	21	8 12.3	20.4
281464 2008 ST_{167}	16.8	X	193.75065	186.41102	184.44414	7.15051	0.3201587	0.27228093	2.3575337	21	3 23.7	21.2
281465 2008 SF_{177}	16.9	X	64.71252	303.54152	75.54312	4.64730	0.1499436	0.24565545	2.5249442	21	—	—
281466 2008 SR_{182}	16.9	X	143.36370	198.67295	46.15953	5.96697	0.1701426	0.23311412	2.6147108	21	11 24.3	21.1
281467 2008 SL_{184}	16.6	X	61.02145	290.92406	46.70703	10.84027	0.1437112	0.23254478	2.6189768	21	12 26.2	20.4
281468 2008 SE_{187}	16.6	X	264.66902	198.81794	222.90569	7.41430	0.0421526	0.21920523	2.7241777	21	8 23.0	20.5
281469 2008 SZ_{190}	16.9	X	277.09350	53.18441	231.17076	3.84858	0.1533852	0.27698278	2.3307778	21	2 17.0	20.2
281470 2008 SO_{191}	17.4	X	281.81367	45.09904	226.86626	4.59006	0.2405869	0.27753149	2.3277046	21	1 29.1	21.1
281471 2008 SM_{197}	16.7	X	12.47498	276.10774	72.93481	3.61435	0.0953034	0.22684422	2.6626714	21	10 29.9	19.8
281472 2008 SO_{201}	16.7	X	251.48580	189.64568	225.44812	5.53452	0.0566383	0.21346045	2.7728376	21	7 26.8	20.6
281473 2008 SF_{202}	16.7	X	111.06958	357.25488	221.02841	4.21045	0.0959072	0.21874572	2.7279915	21	9 14.9	20.7
281474 2008 SD_{203}	17.1	X	73.35409	145.96674	170.07521	4.82220	0.1274747	0.23454493	2.6040661	21	12 12.3	20.8
281475 2008 SY_{203}	17.5	X	253.77865	237.65378	59.23205	6.14264	0.2401167	0.27215837	2.3582414	21	2 9.6	21.5
281476 2008 SZ_{219}	17.7	X	219.21787	113.51878	231.41338	1.59754	0.2245811	0.27552440	2.3389952	21	3 9.4	21.5
281477 2008 SX_{223}	16.7	X	315.08640	333.75453	38.58257	6.78297	0.0381623	0.21753191	2.7381300	21	9 3.3	20.3
281478 2008 SM_{226}	16.4	X	243.33083	14.05530	44.99497	14.77024	0.1038052	0.21198491	2.7856898	21	7 20.3	20.7
281479 2008 SS_{232}	16.1	X	209.72504	16.85307	44.03492	6.67033	0.0591676	0.20923060	2.8100836	21	6 14.3	20.3
281480 2008 SS_{236}	17.5	X	248.38045	2.72501	354.47648	3.32442	0.1966614	0.28598045	2.2816297	21	4 19.1	20.9
281481 2008 SS_{239}	16.1	X	139.36156	31.46039	55.91816	7.11149	0.1032278	0.19636977	2.9314757	21	5 4.5	20.5
281482 2008 SS_{240}	16.4	X	235.61360	313.71632	123.53899	5.46467	0.0531979	0.21469983	2.7621563	21	8 7.7	20.2
281483 2008 SG_{241}	17.1	X	222.46244	182.56237	116.23285	2.78100	0.1459846	0.26766575	2.3845559	21	1 16.9	20.6
281484 2008 SD_{251}	17.7	X	250.16200	233.52434	54.32905	2.29860	0.1816974	0.27113545	2.3641690	21	1 27.8	21.3
281485 2008 SS_{263}	16.3	X	91.51444	282.58361	35.68151	11.79100	0.1500368	0.23931779	2.5693271	21	—	—
281486 2008 SW_{263}	17.1	X	306.72464	181.70020	182.52025	4.64322	0.0626013	0.21586149	2.7522377	21	8 3.2	20.7
281487 2008 SD_{267}	15.6	X	116.24185	269.23061	208.05139	10.58627	0.0763391	0.19474785	2.9477293	21	5 12.9	19.8
281488 2008 SW_{267}	16.6	X	276.52578	241.80333	178.11699	5.72066	0.0658648	0.21945590	2.7221030	21	9 4.8	20.0
281489 2008 SZ_{267}	16.5	X	28.71722	294.65455	81.91330	4.16888	0.1279111	0.23449065	2.6044680	21	—	—
281490 2008 SR_{268}	15.6	X	227.77530	20.76126	59.01096	14.03982	0.0626387	0.21462003	2.7628410	21	8 4.2	19.8
281491 2008 ST_{274}	16.4	X	174.32806	280.04127	201.11996	2.94108	0.0362087	0.21465619	2.7625306	21	7 21.4	20.4
281492 2008 SO_{275}	16.7	X	294.59952	181.38575	232.57361	4.99893	0.0686299	0.22499858	2.6772126	21	9 21.5	20.2
281493 2008 ST_{277}	17.8	X	169.45579	74.97669	222.02513	2.90011	0.1646941	0.25416608	2.4682605	21	—	—
281494 2008 SF_{281}	15.5	X	3.36658	95.37513	69.53015	19.71750	0.0543343	0.17720455	3.1392035	21	2 16.0	20.1
281495 2008 SD_{282}	16.3	X	293.17348	160.75370	155.73873	2.59138	0.0367054	0.19775120	2.9178075	21	5 17.5	20.2
281496 2008 ST_{285}	16.6	X	138.08499	269.84838	242.03442	3.14007	0.0797156	0.21088728	2.7953474	21	7 20.8	20.7
281497 2008 SM_{287}	17.2	X	142.89213	144.84319	74.37688	3.22086	0.0229732	0.22963313	2.6410687	21	10 22.1	20.9
281498 2008 SO_{287}	16.5	X	98.47523	283.00695	287.63447	3.59598	0.1114700	0.21501183	2.7594836	21	8 23.4	20.6
281499 2008 SH_{290}	16.8	X	60.41299	274.99657	38.59653	3.05018	0.0187429	0.22893916	2.6464030	21	11 7.2	20.3
281500 2008 SF_{291}	17.3	X	214.74886	239.34859	64.31045	3.97737	0.1988453	0.26917532	2.3756323	21	1 17.1	21.1
281501 2008 SV_{298}	16.2	X	331.56412	309.39798	51.21960	6.85441	0.0236089	0.22186657	2.7023492	21	9 12.7	19.8
281502 2008 SB_{299}	16.8	X	140.26845	273.87906	83.40261	7.29330	0.1617902	0.25926539	2.4357891	21	1 10.6	20.0
281503 2008 SV_{301}	15.8	X	61.20928	240.26170	228.47559	10.19883	0.1853440	0.18192212	3.0846961	21	2 27.8	19.6
281504 2008 SZ_{302}	16.6	X	331.66032	155.52890	262.10113	6.28630	0.1306679	0.23434591	2.6055403	21	11 27.2	19.3
281505 2008 SZ_{306}	16.2	X	345.96981	281.03898	79.22331	6.93569	0.0322109	0.22444793	2.6815896	21	10 3.1	19.7
281506 2008 SZ_{307}	17.5	X	108.12837	249.58975	64.44371	3.33860	0.1503056	0.24229304	2.5482503	21	—	—
281507 Johnellen	15.9	X	321.63914	170.50360	238.39886	13.90630	0.0645066	0.23450478	2.6043634	21	10 28.2	19.1
281508 2008 TA_{10}	16.5	X	196.48102	330.67932	126.41049	10.27904	0.0957328	0.21253246	2.7809032	21	7 14.9	20.8
281509 2008 TB_{19}	16.7	X	82.43415	130.00923	48.55255	2.59085	0.0108335	0.20241331	2.8728305	21	6 7.3	20.5
281510 2008 TT_{22}	15.6	X	19.49519	255.37605	221.95746	14.01096	0.1475374	0.17126853	3.2113255	21	—	—
281511 2008 TX_{36}	17.3	X	254.48655	234.52046	99.35065	6.28737	0.1929138	0.28064794	2.3104406	21	3 31.0	20.9
281512 2008 TZ_{36}	15.7	X	214.50422	304.43938	143.13715	10.11836	0.1338819	0.21254580	2.7807869	21	7 19.1	20.1
281513 2008 TD_{38}	17.1	X	30.50029	144.02645	224.26582	3.74722	0.0708558	0.23784771	2.5799031	21	12 18.2	20.4
281514 2008 TS_{38}	16.9	X	12.97268	112.71907	284.39148	2.34776	0.1496748	0.23630520	2.5911180	21	—	—
281515 2008 TB_{39}	17.2	X	152.05663	11.73067	242.47707	3.42934	0.0668843	0.23650012	2.5896941	21	12 15.8	20.9
281516 2008 TE_{48}	16.4	X	283.34202	224.61053	179.63891	8.76317	0.1603266	0.21661661	2.7458378	21	8 7.8	20.0
281517 2008 TN_{54}	16.6	X	298.66977	154.34391	212.61617	5.58526	0.0335911	0.21594475	2.7515302	21	7 29.4	20.3
281518 2008 TS_{55}	16.9	X	242.08805	247.65775	190.83111	1.46156	0.0576782	0.21720529	2.7408743	21	8 16.2	20.6
281519 2008 TY_{65}	17.0	X	189.68570	90.66122	213.09357	5.68486	0.1275637	0.26024803	2.4296539	21	—	—
281520 2008 TG_{66}	15.7	X	76.36610	282.71300	197.74508	8.56041	0.0851639	0.18858606	3.0115933	21	3 26.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281521 2008 TP_{69}	16.8	X	103.98740	247.70544	65.40266	5.49174	0.1365095	0.24160447	2.5530897	21	—	—
281522 2008 TJ_{75}	16.4	X	298.39407	150.62799	215.06803	4.99525	0.0730302	0.21328515	2.7743568	21	7 22.1	20.1
281523 2008 TQ_{82}	16.3	X	262.89481	3.93974	53.28330	4.91799	0.1030761	0.21566568	2.7539033	21	8 10.5	20.1
281524 2008 TW_{98}	17.7	X	222.32533	149.27235	166.88851	2.25746	0.1789608	0.27016744	2.3698128	21	2 6.2	21.4
281525 2008 TR_{102}	17.6	X	238.88739	290.05923	25.26621	3.94818	0.2425890	0.27447514	2.3449524	21	2 18.9	21.5
281526 2008 TY_{104}	16.0	X	179.78758	222.89713	225.38942	5.01322	0.0491094	0.20566113	2.8425050	21	6 15.7	20.1
281527 2008 TM_{106}	16.4	X	50.30734	67.42724	40.66515	1.40044	0.1509292	0.17950364	3.1123413	21	2 10.3	20.0
281528 2008 TR_{111}	15.8	X	314.65727	183.92767	223.37537	12.40624	0.1503925	0.22556288	2.6727456	21	10 5.7	18.7
281529 2008 TM_{113}	16.2	X	195.76194	59.27130	53.35495	7.32535	0.0172262	0.21348218	2.7726494	21	8 10.4	20.1
281530 2008 TX_{122}	16.4	X	211.66296	3.51674	68.24568	4.55853	0.0759323	0.20964533	2.8063764	21	6 30.3	20.5
281531 2008 TF_{138}	16.6	X	330.66848	58.46859	350.23473	3.77920	0.0807804	0.22983879	2.6394929	21	11 10.4	19.8
281532 2008 TL_{146}	17.8	X	219.61819	118.05161	147.43986	1.83854	0.1601751	0.25981579	2.4323479	21	—	—
281533 2008 TD_{160}	16.5	X	18.47881	67.27314	74.87678	1.87617	0.1186524	0.18060058	3.0997259	21	1 30.2	20.1
281534 2008 TO_{160}	16.3	X	159.80145	307.80413	198.50438	13.12674	0.0652026	0.21085306	2.7956499	21	8 3.6	20.8
281535 2008 TD_{171}	16.8	X	130.67762	78.72944	42.74321	9.65366	0.0151961	0.20251716	2.8718484	21	5 25.8	20.9
281536 2008 TY_{174}	16.9	X	18.32457	274.58995	82.92017	2.73299	0.0987354	0.23176461	2.6248508	21	11 19.9	20.1
281537 2008 TS_{177}	16.3	X	163.63209	156.03944	47.60780	10.82258	0.0324662	0.22930100	2.6436183	21	10 27.7	19.9
281538 2008 TN_{182}	16.3	X	285.58711	258.17683	128.33084	4.89456	0.1117248	0.21429470	2.7656364	21	7 27.4	19.7
281539 2008 TY_{182}	16.7	X	6.37507	58.94140	80.51879	2.23617	0.1061209	0.17834928	3.1257565	21	1 8.8	20.5
281540 2008 TS_{188}	16.8	X	139.82473	25.34658	224.43968	4.54781	0.0665270	0.23372214	2.6101741	21	11 26.8	20.5
281541 2008 UC_{6}	17.0	X	85.66136	255.41641	74.33882	0.90620	0.1800583	0.24026932	2.5625391	21	—	—
281542 2008 UL_{19}	17.3	X	114.14372	52.50605	209.63345	1.96600	0.0785670	0.23158479	2.6262094	21	11 14.4	21.0
281543 2008 UE_{27}	16.9	X	99.99183	142.79206	152.52078	1.38024	0.1530336	0.23570460	2.5955178	21	12 16.2	20.9
281544 2008 UX_{27}	16.6	X	294.62121	147.35919	205.80583	5.21780	0.0605896	0.20942025	2.8083869	21	7 2.2	20.4
281545 2008 UZ_{30}	16.9	X	173.73482	1.08133	88.15486	3.31289	0.0330704	0.20256335	2.8714117	21	6 9.5	20.9
281546 2008 UD_{31}	16.1	X	39.53622	222.05013	57.03463	6.90611	0.0765370	0.21642485	2.7474595	21	9 4.9	19.6
281547 2008 UK_{31}	16.5	X	212.96009	260.28498	184.92755	4.22635	0.0392888	0.20975940	2.8053588	21	7 21.1	20.5
281548 2008 UX_{32}	16.3	X	169.61654	295.57375	125.74916	2.37861	0.0554005	0.19557756	2.9393865	21	5 1.9	20.6
281549 2008 UD_{38}	16.6	X	27.97045	298.17006	2.27430	2.41287	0.0575335	0.21681051	2.7442004	21	9 10.9	20.1
281550 2008 UX_{39}	16.2	X	302.34342	132.22076	237.93878	5.91329	0.0584425	0.21341436	2.7732368	21	8 4.2	19.8
281551 2008 UQ_{48}	16.2	X	101.99066	27.22375	321.32330	1.83545	0.1758224	0.24494933	2.5297943	21	—	—
281552 2008 UF_{49}	16.1	X	65.06185	101.39295	245.20498	6.97983	0.1653517	0.23626536	2.5914093	21	—	—
281553 2008 UG_{52}	16.3	X	52.84317	278.96770	62.43965	8.01435	0.2053071	0.23298195	2.6156996	21	12 29.9	20.1
281554 2008 UT_{54}	15.8	X	314.98439	246.95403	66.82142	7.04262	0.0494097	0.20231717	2.8737405	21	6 9.9	19.5
281555 2008 UU_{59}	16.7	X	123.04575	47.24279	261.76788	4.58238	0.1988054	0.24464999	2.5318574	21	—	—
281556 2008 UL_{71}	16.1	X	33.34529	322.78965	26.05936	8.06964	0.1944282	0.23012416	2.6373103	21	12 12.9	19.5
281557 2008 UV_{73}	15.6	X	75.03087	184.01130	259.57649	9.26939	0.1278559	0.17658604	3.1465295	21	2 11.2	19.8
281558 2008 UC_{74}	16.0	X	71.47240	204.36757	286.93296	5.27041	0.0796351	0.18527069	3.0474148	21	3 31.4	20.1
281559 2008 UF_{75}	15.7	X	24.71894	76.20793	46.19967	12.39939	0.0849783	0.17250531	3.1959580	21	1 20.1	20.0
281560 2008 UU_{75}	16.2	X	27.88758	64.07225	246.65146	13.69561	0.1458696	0.21932498	2.7231861	21	9 30.9	19.8
281561 Taitung	16.3	X	225.89003	342.98655	61.09739	11.62023	0.0939247	0.20542369	2.8446949	21	6 8.3	20.5
281562 2008 UT_{85}	16.2	X	277.72293	207.84783	211.87827	15.23062	0.0734501	0.22126717	2.7072273	21	8 31.9	20.1
281563 2008 UC_{87}	16.6	X	291.96383	13.35017	52.05758	3.08268	0.0631611	0.22386935	2.6862079	21	10 7.1	19.9
281564 Fuhsiehhai	15.9	X	327.13066	304.57007	79.31133	7.38990	0.0479080	0.22152653	2.7051139	21	10 7.1	19.4
281565 2008 UA_{89}	16.3	X	161.52740	98.33117	67.01132	5.85954	0.0452079	0.21986491	2.7187260	21	9 6.3	20.2
281566 2008 UQ_{92}	16.3	X	300.10660	274.83492	137.00892	6.13961	0.0908114	0.22361590	2.6882373	21	9 28.7	19.5
281567 2008 UR_{92}	16.2	X	260.66302	251.63831	162.36084	8.91776	0.1584665	0.21495408	2.7599778	21	7 23.1	20.3
281568 2008 UF_{93}	15.2	X	57.72807	42.32028	59.44078	26.31882	0.2028481	0.17762146	3.1342894	21	3 9.1	19.5
281569 Taea	17.5	X	245.34426	165.32390	159.64396	3.47509	0.2558118	0.27475403	2.3433654	21	3 5.6	21.6
281570 2008 UH_{97}	16.0	X	320.85318	267.07295	132.76931	5.96512	0.1193820	0.22441624	2.6818421	21	10 14.5	19.0
281571 2008 UM_{98}	15.7	X	69.56465	225.94672	121.20142	4.29782	0.1006952	0.23665562	2.5885596	21	—	—
281572 2008 UJ_{100}	16.2	X	345.37351	177.74043	219.41502	10.17354	0.2016461	0.22893666	2.6464224	21	11 28.6	18.6
281573 2008 UQ_{101}	16.8	X	163.66827	28.09979	252.42012	2.70625	0.0819329	0.24633141	2.5203229	21	—	—
281574 2008 UJ_{108}	15.3	X	31.04961	232.81561	240.90590	15.41193	0.1259389	0.17304087	3.1893603	21	1 12.2	19.4
281575 2008 UV_{110}	16.4	X	1.60481	75.84124	262.09887	5.24679	0.0672373	0.22120790	2.7077109	21	9 20.1	19.8
281576 2008 UZ_{116}	15.6	X	91.76605	219.04825	260.26867	7.59888	0.0469971	0.19051122	2.9912704	21	4 6.7	19.8
281577 2008 UL_{117}	16.3	X	7.54459	62.88482	277.83448	5.07224	0.0544390	0.22228128	2.6989870	21	10 2.3	19.9
281578 2008 UM_{127}	15.7	X	339.14593	105.31040	241.16006	13.04189	0.0906277	0.21411995	2.7671410	21	8 22.1	19.4
281579 2008 UN_{130}	16.9	X	66.69279	48.13080	241.73940	0.90964	0.0839900	0.22599572	2.6693319	21	10 24.7	20.3
281580 2008 UO_{132}	15.6	X	57.16452	233.12299	228.15005	10.58156	0.0760762	0.17853712	3.1235637	21	2 1.5	19.9
281581 2008 UT_{132}	15.1	X	59.15181	225.34977	223.75984	26.02153	0.0794756	0.17658652	3.1465238	21	1 16.9	19.8
281582 2008 UY_{136}	16.6	X	267.18054	159.49629	223.35025	3.62225	0.0872433	0.20933575	2.8091425	21	6 30.9	20.5
281583 2008 UL_{139}	16.2	X	79.28182	267.91850	223.32048	9.01598	0.0323307	0.19003972	2.9962160	21	4 5.0	20.4
281584 2008 UD_{141}	16.5	X	318.33310	105.12704	228.62736	5.56202	0.0537677	0.20929707	2.8094887	21	7 10.6	20.2
281585 2008 UU_{141}	16.4	X	113.82113	19.81829	53.04737	2.60342	0.0773984	0.18445221	3.0564232	21	3 16.8	20.8
281586 2008 UK_{143}	17.5	X	176.48621	98.25211	220.38504	9.84954	0.1994230	0.25730996	2.4481141	21	1 2.3	21.5
281587 2008 UM_{143}	16.1	X	53.71985	213.57197	55.65468	5.08763	0.0528300	0.21569603	2.7536450	21	9 7.4	19.7
281588 2008 UB_{145}	16.6	X	65.02541	35.35280	91.66049	2.39274	0.0784319	0.18456903	3.0551333	21	3 21.1	20.5
281589 2008 UH_{145}	16.7	X	315.30820	217.34989	77.53206	3.15936	0.0349780	0.19986630	2.8971857	21	5 18.7	20.5
281590 2008 UN_{148}	16.1	X	310.60369	314.08490	49.62024	6.43373	0.0375282	0.21206346	2.7850019	21	8 15.3	19.8
281591 2008 UE_{149}	16.0	X	96.86415	10.01604	48.95150	11.69381	0.0834790	0.17707620	3.1407203	21	2 13.0	20.5
281592 2008 UL_{151}	16.0	X	129.34499	226.31063	53.22910	12.56534	0.1677744	0.23582901	2.5946049	21	12 23.5	20.3
281593 2008 UJ_{156}	16.7	X	317.00050	310.78487	55.73049	5.32049	0.1314492	0.21567485	2.7538253	21	8 18.5	19.9
281594 2008 UG_{157}	16.5	X	38.74447	151.65735	144.66583	0.87471	0.0492324	0.21708621	2.7418765	21	9 19.8	20.0
281595 2008 UV_{157}	16.2	X	8.51045	116.35033	225.65607	13.50842	0.1346653	0.22251271	2.6971152	21	10 14.1	19.2
281596 2008 UP_{161}	16.2	X	219.30662	243.86260	216.82663	3.04201	0.0430038	0.21898461	2.7260071	21	8 18.1	20.0
281597 2008 UF_{167}	16.6	X	48.19703	25.30152	144.20603	1.52711	0.0704350	0.19124218	2.9836434	21	4 18.2	20.3
281598 2008 UP_{167}	17.3	X	118.00664	138.70193	198.76597	3.20778	0.1471006	0.24732188	2.5135895	21	—	—
281599 2008 UH_{175}	16.1	X	345.80416	129.26006	223.36127	14.05855	0.1059346	0.22266403	2.6958931	21	9 13.7	19.4
281600 2008 UO_{180}	17.1	X	79.63747	342.83820	337.66527	1.55466	0.1075458	0.23311785	2.6146829	21	12 21.7	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281601 2008 UK_{181}	15.9	X	56.59532	267.64461	208.80669	10.94776	0.1322944	0.18156629	3.0887249	21	2 24.8	19.9
281602 2008 US_{184}	16.3	X	255.69334	120.37405	244.03024	0.80349	0.0772878	0.20109875	2.8853365	21	5 25.3	20.5
281603 2008 UP_{187}	15.7	X	99.39802	14.99947	73.54268	14.08387	0.1024662	0.18123952	3.0924364	21	3 29.1	20.3
281604 2008 UE_{188}	16.9	X	68.24607	146.59722	185.66313	4.11532	0.1722111	0.23320172	2.6140559	21	12 30.7	20.9
281605 2008 UK_{198}	16.1	X	25.89412	142.43234	213.82486	13.75815	0.1290837	0.23192647	2.6236295	21	12 3.9	19.4
281606 2008 UQ_{200}	15.7	X	13.82766	146.55181	230.99370	9.11582	0.0993547	0.23231203	2.6207258	21	12 9.8	18.9
281607 2008 UU_{201}	16.2	X	127.10043	290.06712	31.17840	2.78333	0.1439940	0.24548604	2.5261057	21	—	—
281608 2008 UJ_{203}	16.3	X	339.24009	46.27062	332.15985	5.30321	0.0683506	0.22507274	2.6766245	21	10 11.8	19.6
281609 2008 UK_{203}	16.1	X	20.74927	42.56815	325.96098	4.67777	0.0734339	0.23231075	2.6207354	21	12 3.5	19.4
281610 2008 UV_{208}	16.8	X	50.65696	133.64931	230.25015	6.36551	0.2077070	0.23890702	2.5722714	21	—	—
281611 2008 UQ_{210}	17.2	X	285.61522	137.86773	237.61294	3.46785	0.0863691	0.21265654	2.7798213	21	7 15.7	20.8
281612 2008 UQ_{211}	16.3	X	8.66820	121.99010	185.68578	3.70712	0.0476781	0.21752314	2.7382036	21	8 20.7	19.8
281613 2008 UV_{214}	16.0	X	331.15915	176.75252	237.17659	12.26379	0.2712106	0.22895649	2.6462695	21	11 22.4	17.4
281614 2008 UE_{215}	16.4	X	333.95090	137.35324	258.95080	6.78544	0.2174069	0.22704958	2.6610656	21	10 28.8	18.7
281615 2008 UC_{221}	15.7	X	349.37626	303.69716	275.00297	5.91019	0.0797467	0.18942909	3.0026516	21	3 21.0	19.6
281616 2008 UW_{223}	15.8	X	55.92117	285.25052	63.27050	9.78133	0.1344117	0.23495224	2.6010558	21	—	—
281617 2008 UY_{237}	16.5	X	308.38117	79.43130	273.95467	5.04191	0.0169188	0.21072336	2.7967969	21	7 27.4	20.2
281618 2008 UJ_{239}	15.6	X	38.03047	260.79399	281.24956	9.55459	0.0454559	0.19153240	2.9806287	21	4 12.6	19.8
281619 2008 UN_{250}	16.4	X	55.01511	201.39440	351.44084	1.42075	0.0060845	0.19956354	2.9001152	21	5 19.9	20.3
281620 2008 UY_{256}	16.7	X	358.73494	260.27797	93.01994	2.99222	0.0833832	0.22259912	2.6964172	21	10 12.6	19.9
281621 2008 UB_{263}	15.8	X	320.65392	19.06307	257.62669	8.94127	0.0484771	0.19349134	2.9604770	21	4 28.6	19.8
281622 2008 UQ_{266}	16.1	X	15.58469	2.33736	281.55507	3.18636	0.0329057	0.21153171	2.7896672	21	7 28.7	19.6
281623 2008 UF_{269}	16.2	X	59.93736	176.39286	62.03901	8.62502	0.0598953	0.21017625	2.8016483	21	8 6.5	20.0
281624 2008 UG_{274}	16.8	X	68.43023	92.72518	240.45785	2.63861	0.1725549	0.23594943	2.5937220	21	—	—
281625 2008 UE_{282}	16.0	X	15.00951	283.85630	63.19852	6.74135	0.0921940	0.22383418	2.6864893	21	10 30.8	19.3
281626 2008 UT_{283}	16.5	X	121.74933	144.30078	55.46225	7.47748	0.0042298	0.21575317	2.7531588	21	8 30.6	20.3
281627 2008 UY_{284}	16.6	X	4.93708	138.38764	205.75223	5.21555	0.0557448	0.22313808	2.6920736	21	10 5.6	19.8
281628 2008 UE_{286}	16.7	X	264.12156	258.98803	138.59825	2.78639	0.0967006	0.21220110	2.7837974	21	7 15.4	20.4
281629 2008 UG_{291}	16.4	X	186.96973	217.35506	203.63803	10.20031	0.1136738	0.20320774	2.8653382	21	5 21.3	20.9
281630 2008 UM_{297}	16.6	X	70.26177	0.97385	318.49328	4.56668	0.1065495	0.23206976	2.6225494	21	12 9.3	20.4
281631 2008 UL_{303}	16.2	X	334.78388	107.38376	256.94816	5.27950	0.0899370	0.21800401	2.7341755	21	9 13.0	19.4
281632 2008 UL_{304}	17.5	X	189.92559	95.63582	243.13752	4.07897	0.2274092	0.26698890	2.3885843	21	2 6.9	21.5
281633 2008 UO_{307}	16.0	X	81.61034	229.10333	107.93771	12.83396	0.0533793	0.23868316	2.5738794	21	—	—
281634 2008 UU_{310}	16.3	X	176.28816	310.48346	291.72927	5.90127	0.1481620	0.24297569	2.5434751	21	12 23.1	20.1
281635 2008 UT_{312}	16.5	X	37.05709	344.58983	301.58258	7.40565	0.1671092	0.21644900	2.7472552	21	9 16.4	19.9
281636 2008 UR_{315}	16.5	X	50.69680	288.61145	59.96286	3.14349	0.2304806	0.23393442	2.6085949	21	—	—
281637 2008 UN_{316}	16.6	X	35.21700	183.74680	197.44817	1.54049	0.2257023	0.23563077	2.5960599	21	—	—
281638 2008 UR_{316}	16.8	X	128.09101	186.93359	137.76109	1.26256	0.2386557	0.24566830	2.5248561	21	—	—
281639 2008 UT_{330}	16.8	X	9.77776	249.25548	124.91700	5.04163	0.1706328	0.23140415	2.6275760	21	12 9.3	19.7
281640 2008 UV_{334}	17.7	X	167.59203	151.39575	171.84686	2.36591	0.1789951	0.25657092	2.4528130	21	—	—
281641 2008 UD_{335}	16.1	X	40.20566	127.35492	353.01940	2.06700	0.1016326	0.17791665	3.1308216	21	2 6.6	19.8
281642 2008 UT_{335}	15.7	X	76.61301	20.54909	238.78976	11.92027	0.0933815	0.21827242	2.7319336	21	9 23.5	19.7
281643 2008 UX_{336}	15.8	X	26.31285	62.79859	49.37975	15.05138	0.1072841	0.17180411	3.2046481	21	1 8.0	20.0
281644 2008 UV_{337}	17.7	X	173.88376	312.27613	355.61344	0.94557	0.1918998	0.25369184	2.4713355	21	—	—
281645 2008 UY_{337}	15.8	X	158.57998	170.80276	245.25503	15.57035	0.0724104	0.19038932	2.9925471	21	4 9.6	20.5
281646 2008 UA_{338}	16.1	X	26.35676	235.48097	44.08635	9.57016	0.1261771	0.21131894	2.7915394	21	8 23.0	19.5
281647 2008 UB_{339}	16.4	X	255.49169	129.23352	227.38445	11.10551	0.0778641	0.19827560	2.9126605	21	5 15.4	20.7
281648 2008 UK_{340}	16.5	X	341.23723	36.33935	291.56355	3.37875	0.0757926	0.21010213	2.8023072	21	8 5.9	19.8
281649 2008 UF_{342}	16.8	X	44.00817	8.28921	250.38673	0.62408	0.0350821	0.21265475	2.7798370	21	8 4.7	20.2
281650 2008 UP_{343}	17.0	X	319.88062	121.14648	222.56635	3.55697	0.0811190	0.21037091	2.7999198	21	7 23.7	20.6
281651 2008 UO_{344}	16.4	X	29.31092	6.59068	309.76464	4.16387	0.1089958	0.21986276	2.7187437	21	10 8.9	19.8
281652 2008 UX_{347}	15.7	X	21.07919	69.65329	49.59109	6.43346	0.1122390	0.17254685	3.1954451	21	1 8.0	19.6
281653 2008 US_{350}	16.2	X	53.48119	292.14691	231.21712	9.47973	0.0468026	0.19180893	2.9777633	21	4 12.9	20.3
281654 2008 UJ_{353}	16.2	X	30.93397	136.51075	43.60941	3.26874	0.0374375	0.18614639	3.0378499	21	4 5.9	20.3
281655 2008 UM_{353}	17.0	X	255.43039	229.11837	151.49054	2.60667	0.0825203	0.20283664	2.8688319	21	6 14.5	21.2
281656 2008 UG_{354}	17.0	X	42.77718	133.08874	181.36686	2.03592	0.1046728	0.22368695	2.6876679	21	10 28.6	20.4
281657 2008 UG_{359}	15.5	X	335.86360	148.09926	67.08135	9.96972	0.1292602	0.18347932	3.0672179	21	2 28.4	19.6
281658 2008 UZ_{361}	15.7	X	129.71720	276.77411	106.27003	11.47343	0.1573028	0.18063646	3.0993154	21	2 14.5	20.4
281659 2008 VZ_{10}	15.8	X	103.60626	224.24415	95.41436	5.66266	0.1641948	0.24022505	2.5628540	21	—	—
281660 2008 VQ_{13}	16.2	X	133.87216	170.78383	140.33597	4.42532	0.2219414	0.24319028	2.5419787	21	—	—
281661 2008 VW_{13}	17.2	X	155.75365	211.54478	120.49062	3.07164	0.1915133	0.25493585	2.4632894	21	—	—
281662 2008 VX_{15}	16.5	X	268.56793	325.33214	68.89735	5.10036	0.1095555	0.21213898	2.7843408	21	7 15.6	20.3
281663 2008 VY_{17}	17.0	X	18.48085	156.31902	198.89523	3.28572	0.1093419	0.22843377	2.6503049	21	11 18.0	20.1
281664 2008 VR_{22}	15.8	X	101.86423	42.10599	72.27788	9.72379	0.0480140	0.19009380	2.9956478	21	4 20.6	20.0
281665 2008 VG_{23}	16.4	X	222.80516	313.31205	76.81666	9.98149	0.0941569	0.19818009	2.9135962	21	5 20.5	20.8
281666 2008 VH_{27}	16.6	X	86.37473	17.88595	257.60430	5.03967	0.0806020	0.22540291	2.6740101	21	10 28.5	20.4
281667 2008 VB_{31}	16.1	X	355.03534	144.05597	193.07194	5.49668	0.1014647	0.21890587	2.7266608	21	9 11.4	19.3
281668 2008 VW_{46}	15.3	X	55.00884	269.53213	235.03761	8.46032	0.0609731	0.18473724	3.0532785	21	3 22.9	19.5
281669 2008 VA_{51}	15.7	X	54.76570	33.97542	52.41057	8.68121	0.1181395	0.17189018	3.2035782	21	1 21.5	19.8
281670 2008 VS_{57}	16.4	X	109.58337	207.78633	58.35912	13.02720	0.2046399	0.22800708	2.6536104	21	11 22.0	20.5
281671 2008 VU_{57}	16.2	X	59.14268	231.36022	30.43265	12.84820	0.1002655	0.21675940	2.7446318	21	9 15.4	20.0
281672 2008 VD_{60}	16.4	X	2.24933	165.97580	208.92260	2.92945	0.2860110	0.22891164	2.6466152	21	12 13.8	18.7
281673 2008 VW_{70}	16.1	X	335.18176	143.76879	39.28549	9.87861	0.0462279	0.17533663	3.1614594	21	1 29.0	20.6
281674 2008 VZ_{72}	15.8	X	342.65218	93.49875	69.30503	9.66375	0.0732898	0.17422616	3.1748787	21	1 8.7	20.1
281675 2008 VA_{75}	15.5	X	78.11067	14.24675	99.77319	12.70088	0.0941940	0.18403160	3.0610784	21	3 30.4	19.8
281676 2008 VR_{76}	16.3	X	309.08110	270.99006	90.22243	5.74014	0.0791795	0.21212142	2.7844945	21	8 2.8	19.8
281677 2008 VS_{78}	15.7	X	112.06663	340.58203	99.21193	11.87770	0.1687719	0.18226811	3.0807912	21	4 9.5	20.4
281678 2008 VA_{80}	15.5	X	346.24689	135.37589	98.08129	10.49068	0.0134775	0.18923601	3.0046936	21	4 18.6	19.8
281679 2008 WE_{2}	15.4	X	92.55516	199.59361	235.81212	16.28282	0.2024502	0.17723153	3.1388850	21	3 4.7	20.1
281680 2008 WG_{5}	16.1	X	23.66469	46.23458	101.02538	2.02961	0.1215955	0.18063608	3.0993198	21	2 14.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281681 2008 WA_8	17.2	X	178.17937	11.49005	99.29513	1.83048	0.0231217	0.20813396	2.8199457	21	7 13.2	21.2
281682 2008 WW_8	17.1	X	7.48355	122.81769	198.77605	6.31015	0.0433661	0.21849252	2.7300986	21	9 6.1	20.6
281683 2008 WJ_{13}	16.3	X	29.59344	286.53091	75.45677	2.35223	0.1061860	0.23156688	2.6263448	21	12 12.6	19.4
281684 2008 WV_{22}	16.7	X	91.87898	83.74802	227.53029	3.07282	0.1671463	0.23678746	2.5875987	21	12 28.7	20.8
281685 2008 WW_{22}	16.0	X	171.33135	1.92146	48.44551	11.60675	0.0500148	0.19333145	2.9621091	21	4 21.3	20.3
281686 2008 WG_{31}	16.3	X	68.08828	265.36235	62.98021	8.75788	0.1797935	0.23108444	2.6299990	21	12 26.4	20.2
281687 2008 WA_{34}	16.8	X	111.09216	20.09272	224.88683	3.31352	0.0431182	0.22393727	2.6856648	21	10 15.4	20.5
281688 2008 WD_{36}	16.4	X	6.79583	92.67571	225.17737	1.59194	0.0754949	0.21505048	2.7591529	21	9 2.6	19.8
281689 2008 WK_{36}	17.5	X	200.80642	271.37903	60.19277	11.20094	0.2996220	0.26579778	2.3957150	21	2 14.9	22.0
281690 2008 WY_{38}	15.8	X	47.71107	196.76447	66.71594	7.86291	0.0865973	0.21128151	2.7918691	21	8 27.9	19.5
281691 2008 WZ_{48}	15.9	X	15.90648	116.30621	61.15257	9.90770	0.0780084	0.18518286	3.0483782	21	3 17.3	19.9
281692 2008 WK_{49}	17.3	X	145.08850	226.01730	124.05711	2.98579	0.2174609	0.25599006	2.4565219	21	1 13.9	20.9
281693 2008 WC_{51}	16.6	X	349.73933	225.85262	96.08474	1.83840	0.0682547	0.21375666	2.7702754	21	8 12.9	20.0
281694 2008 WN_{52}	16.9	X	30.06514	52.95270	225.31738	4.12966	0.0850922	0.21453631	2.7635597	21	8 15.4	20.3
281695 2008 WS_{59}	16.9	X	49.45001	262.98692	115.87860	4.27356	0.2529927	0.23939063	2.5688059	21	—	—
281696 2008 WW_{59}	16.2	X	342.90325	278.74872	90.54249	7.22725	0.2414240	0.22257440	2.6966168	21	10 15.1	18.4
281697 2008 WD_{60}	16.0	X	163.76094	199.60362	226.57073	4.78496	0.2923536	0.19170702	2.9788185	21	5 11.6	21.3
281698 2008 WU_{63}	16.7	X	195.20722	224.47602	74.82695	17.27069	0.2122620	0.25928285	2.4356798	21	—	—
281699 2008 WX_{66}	16.8	X	81.10183	192.10878	160.08577	1.61923	0.1772961	0.24044223	2.5613104	21	—	—
281700 2008 WF_{73}	16.2	X	320.72229	192.58736	53.63885	6.12766	0.1138156	0.18451373	3.0557437	21	3 17.9	20.2
281701 2008 WO_{76}	16.1	X	79.91766	236.39873	83.23466	7.85975	0.1752614	0.23352635	2.6116328	21	12 27.7	20.1
281702 2008 WT_{79}	16.6	X	248.79764	287.67000	104.78481	7.57512	0.0453889	0.20351311	2.8624712	21	6 26.6	20.5
281703 2008 WB_{91}	16.7	X	210.18128	55.00726	34.06765	4.47818	0.0723589	0.21212849	2.7844327	21	7 22.5	20.8
281704 2008 WJ_{93}	16.5	X	177.91797	2.18527	63.18274	3.09660	0.0777452	0.19580435	2.9371164	21	5 16.3	20.7
281705 2008 WN_{95}	15.0	X	284.93076	169.94978	75.91201	28.89576	0.1097229	0.17914142	3.1165352	21	2 5.3	20.1
281706 2008 WO_{95}	15.6	X	146.57619	210.97012	93.99000	10.14101	0.2037425	0.24477085	2.5310239	21	—	—
281707 2008 WE_{97}	15.7	X	136.50855	0.37133	83.09226	15.50108	0.1205132	0.19129535	2.9830906	21	5 3.5	20.4
281708 2008 WU_{98}	16.3	X	26.04600	3.01030	17.90037	5.78865	0.2461345	0.23462108	2.6035027	21	—	—
281709 2008 WF_{103}	15.3	X	131.74155	15.92102	95.06128	16.17814	0.0861338	0.19589711	2.9361891	21	5 26.6	19.7
281710 2008 WU_{103}	16.3	X	312.13673	295.76473	77.81356	3.72467	0.0925478	0.21623164	2.7490959	21	8 24.1	19.6
281711 2008 WQ_{105}	16.5	X	306.93543	317.26189	5.91186	1.95750	0.0442780	0.20105791	2.8857272	21	6 11.9	20.4
281712 2008 WT_{106}	16.1	X	8.76975	8.45668	304.61185	3.55420	0.1083914	0.21477195	2.7615379	21	9 1.1	19.3
281713 2008 WV_{107}	16.6	X	284.71586	239.54411	150.54945	4.48988	0.1072964	0.21061447	2.7977608	21	7 31.2	20.3
281714 2008 WH_{108}	16.7	X	359.08426	54.76325	290.39215	3.79873	0.1216429	0.22115401	2.7081508	21	9 30.3	19.8
281715 2008 WJ_{108}	16.1	X	127.40821	18.22503	282.45487	4.93599	0.1739244	0.24063855	2.5599172	21	—	—
281716 2008 WL_{109}	15.9	X	302.76781	168.47891	57.83250	8.93399	0.0192540	0.17805417	3.1292093	21	2 13.6	20.4
281717 2008 WO_{113}	15.6	X	260.84901	90.89000	253.20416	15.15977	0.0262843	0.19470882	2.9481232	21	5 11.4	19.8
281718 2008 WE_{114}	16.5	X	317.65159	328.07983	260.61322	1.09852	0.0252385	0.18055847	3.1002078	21	3 1.2	20.8
281719 2008 WK_{114}	16.6	X	243.27713	310.62014	30.51695	1.58513	0.0344538	0.19143587	2.9816306	21	4 16.4	20.6
281720 2008 WJ_{117}	15.3	X	325.35175	350.12919	257.57940	16.06435	0.0431539	0.18572620	3.0424301	21	3 24.9	19.9
281721 2008 WC_{122}	16.9	X	38.66441	135.32503	197.48576	1.50187	0.0716070	0.22614835	2.6681307	21	11 11.2	20.4
281722 2008 WM_{131}	15.6	X	104.70606	272.89240	167.35674	11.94398	0.1283587	0.18163850	3.0879063	21	3 22.2	19.9
281723 2008 WS_{135}	15.6	X	349.22523	284.11675	266.10543	8.49102	0.0347717	0.17942118	3.1132948	21	2 18.1	20.0
281724 2008 WY_{135}	16.1	X	93.41233	230.46498	112.01912	4.53790	0.2317624	0.23942214	2.5685805	21	—	—
281725 2008 WJ_{136}	17.4	X	163.23143	213.37999	115.93763	2.23071	0.2019181	0.25497658	2.4630271	21	1 4.9	21.2
281726 2008 WF_{138}	15.5	X	211.68663	127.02155	238.49848	9.04577	0.0914967	0.18944189	3.0025163	21	4 5.4	20.3
281727 2008 XE_1	15.8	X	359.29000	250.40897	104.79081	14.78747	0.1548433	0.22035132	2.7147235	21	10 27.9	19.0
281728 2008 XD_{10}	16.2	X	134.27847	203.55626	85.84649	13.08529	0.2781231	0.23865096	2.5741109	21	—	—
281729 2008 XY_{14}	16.6	X	298.96071	339.36474	342.59524	1.19424	0.0692157	0.20039117	2.8921246	21	5 26.5	20.3
281730 2008 XZ_{30}	16.1	X	4.73612	26.21066	276.96880	8.91667	0.1051739	0.21037815	2.7998556	21	8 8.5	19.4
281731 2008 XT_{53}	15.4	X	12.83492	241.91129	253.75202	10.14295	0.0844055	0.17021360	3.2245804	21	1 14.9	19.7
281732 2008 XB_{54}	16.0	X	223.05033	178.17574	230.11288	3.92969	0.1014882	0.19955605	2.9001878	21	6 11.1	20.4
281733 2008 XK_{54}	15.8	X	338.32509	241.87451	288.20749	4.43129	0.0967697	0.17099256	3.2147799	21	1 9.1	20.0
281734 2008 YG_1	15.3	X	163.25145	309.68425	86.47671	11.19407	0.1181576	0.18325390	3.0697327	21	4 3.9	20.3
281735 2008 YE_9	16.8	X	52.47378	176.71839	164.40891	0.72330	0.1422752	0.23103129	2.6304023	21	12 20.6	20.5
281736 2008 YU_{11}	16.5	X	294.84101	89.11995	255.71652	5.01564	0.0794659	0.20360878	2.8615744	21	6 18.9	20.2
281737 2008 YB_{19}	15.3	X	180.51660	245.91027	116.28205	22.25107	0.1055918	0.17364138	3.1820028	21	3 12.3	20.6
281738 2008 YT_{19}	16.4	X	17.09349	71.15412	114.17785	15.20034	0.0477017	0.25400354	2.4693134	21	3 19.8	19.6
281739 2008 YW_{20}	14.9	X	157.49476	341.90390	293.45886	8.66785	0.0450051	0.14637026	3.5658863	21	12 30.8	20.3
281740 2008 YH_{27}	16.6	X	67.18633	201.88935	166.37868	3.42177	0.2866731	0.24067226	2.5596781	21	—	—
281741 2008 YY_{80}	15.9	X	201.72457	286.25192	85.60306	6.01346	0.1773144	0.18364928	3.0653252	21	4 8.2	21.0
281742 2008 YY_{94}	15.4	X	200.98439	41.85767	291.01616	9.05081	0.0694822	0.17246782	3.1964212	21	2 16.7	20.3
281743 2008 YY_{98}	17.0	X	271.53012	141.51373	111.75932	5.75272	0.1732097	0.24468626	2.5316072	21	1 8.9	20.8
281744 2008 YR_{100}	15.4	X	178.58424	245.38482	116.11544	10.01130	0.0834488	0.17339024	3.1850747	21	3 5.6	20.4
281745 2008 YZ_{115}	16.1	X	281.81184	35.41211	279.48132	3.16501	0.1925966	0.18816402	3.0160948	21	4 7.6	20.5
281746 2008 YQ_{124}	16.2	X	101.47047	359.57561	64.54817	2.11894	0.1841701	0.17233100	3.1981128	21	3 7.7	20.6
281747 2008 YX_{156}	15.7	X	130.96780	333.11233	98.81855	17.99309	0.1010864	0.18452782	3.0555881	21	4 15.6	20.6
281748 2008 YZ_{156}	17.3	X	121.90362	125.89265	92.64958	3.60027	0.1637348	0.28324335	2.2963050	21	10 11.1	20.8
281749 2009 AY_1	15.4	X	28.75960	226.28160	263.88331	8.01013	0.0549502	0.17494746	3.1661461	21	1 29.8	19.7
281750 2009 AQ_{36}	16.6	X	31.18874	214.28915	128.35106	6.47449	0.0291530	0.21744964	2.7388206	21	11 8.8	20.3
281751 2009 AR_{47}	15.8	X	221.08027	241.90037	120.25288	10.44710	0.1623592	0.18575504	3.0421151	21	4 15.3	20.9
281752 2009 BF_6	15.6	X	130.49291	281.92663	127.38876	17.05415	0.1337726	0.17508655	3.1644691	21	3 19.0	20.6
281753 2009 BD_8	16.6	X	115.71483	336.21673	130.58596	7.37584	0.0500819	0.26185855	2.4196815	21	4 21.4	19.8
281754 2009 BT_{12}	15.9	X	140.91655	196.11452	267.40725	8.37582	0.1177372	0.18625062	3.0367163	21	5 27.0	20.5
281755 2009 BV_{49}	15.2	X	185.98284	236.34787	128.67875	23.29424	0.2292248	0.17673177	3.1447995	21	3 23.0	20.9
281756 2009 BP_{68}	15.2	X	168.00979	260.62088	124.81646	26.94354	0.2105537	0.17857410	3.1231325	21	4 3.8	20.9
281757 2009 BK_{98}	15.3	X	156.40636	169.46044	104.40431	10.94323	0.0348671	0.14682650	3.5584955	21	12 27.9	20.5
281758 2009 BP_{120}	16.6	X	16.48128	167.18210	78.60869	1.49413	0.2230501	0.18163527	3.0879429	21	6 18.8	19.5
281759 2009 BC_{133}	14.5	X	75.19378	335.29063	294.80193	5.95692	0.1502170	0.12447212	3.9727203	21	10 4.6	20.2
281760 2009 BP_{172}	15.4	X	213.77760	213.16335	142.87744	17.40904	0.2120482	0.17802444	3.1295577	21	3 31.9	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281761 2009 BR_{184}	15.2	X	151.61251	227.14173	145.94843	14.07693	0.0519718	0.16923975	3.2369386	21	2 14.1	20.0
281762 2009 DJ_{58}	17.1	X	353.34286	195.90624	119.80540	2.94340	0.2107442	0.26755367	2.3852219	21	8 16.4	18.4
281763 2009 DO_{58}	16.5	X	267.34804	272.14123	56.30007	2.93100	0.1892848	0.25280850	2.4770889	21	4 6.3	20.1
281764 Schwetzingen	16.4	X	109.62289	311.65471	342.01033	2.33351	0.0638534	0.21356487	2.7719337	21	12 13.8	20.4
281765 2009 FD_{29}	15.5	X	169.18751	9.44420	138.99164	12.11439	0.0064050	0.19098477	2.9863238	21	8 19.9	19.6
281766 2009 FM_{74}	15.3	X	329.03233	184.94151	129.78175	10.99129	0.0457542	0.18385086	3.0630843	21	7 2.4	19.5
281767 2009 FE_{77}	16.5	X	160.06484	105.78888	186.86278	7.33711	0.2116716	0.21275067	2.7790014	21	—	—
281768 2009 HN_{5}	17.1	X	91.22911	155.43924	151.57854	3.35128	0.1878280	0.28197522	2.3031846	21	12 31.7	20.8
281769 2009 HD_{23}	15.8	X	6.56908	135.02609	142.51124	6.17057	0.1553129	0.17443842	3.1723027	21	7 9.8	19.4
281770 2009 HG_{52}	15.3	X	41.66156	327.26128	263.33549	5.72245	0.1290298	0.17519214	3.1631974	21	7 5.2	19.1
281771 2009 RR_{23}	17.0	X	202.89508	338.46990	117.93523	6.25315	0.1720147	0.23556872	2.5965158	21	7 17.7	21.1
281772 Matttaylor	16.8	X	274.32288	135.94637	220.96350	5.07212	0.1414112	0.22786040	2.6547490	21	5 28.7	20.4
281773 2009 RG_{74}	17.2	X	261.65353	214.04731	19.22130	7.35688	0.0999485	0.28002928	2.3138423	21	—	—
281774 2009 RG_{76}	16.4	X	337.83255	55.48954	27.93738	1.13969	0.2181096	0.17585008	3.1553026	21	12 29.8	19.6
281775 2009 SW_{43}	16.2	X	176.41987	197.59163	242.90613	5.89908	0.0418702	0.22071391	2.7117495	21	5 31.9	20.0
281776 2009 SK_{48}	16.4	X	112.25434	195.78142	6.34523	7.56680	0.0338905	0.23440748	2.6050840	21	8 24.6	19.9
281777 2009 ST_{154}	17.9	X	15.75867	47.83477	18.76979	2.73186	0.1659539	0.26589212	2.3951483	21	—	—
281778 2009 SB_{168}	15.8	X	272.87655	225.58397	192.16583	29.97079	0.3186009	0.23435289	2.6054886	21	7 17.4	20.3
281779 2009 SP_{183}	17.8	X	192.43383	185.43125	202.15631	20.45881	0.0583419	0.38247508	1.8796080	21	3 21.5	19.9
281780 2009 SO_{232}	15.9	X	14.24158	259.05071	166.94691	15.75907	0.2304236	0.18050324	3.1008401	21	—	—
281781 2009 SK_{234}	15.0	X	39.53244	353.19936	37.06564	11.23029	0.1131730	0.17805916	3.1291508	21	—	—
281782 2009 SM_{234}	15.1	X	42.18481	309.98130	109.37593	10.55533	0.0815295	0.18491204	3.0513540	21	—	—
281783 2009 ST_{337}	15.2	X	70.14911	330.96595	53.70429	7.77951	0.2360849	0.18393368	3.0621646	21	—	—
281784 2009 SH_{352}	17.8	X	94.10528	10.82599	54.10435	5.80734	0.1846443	0.27575818	2.3376731	21	2 8.8	20.2
281785 2009 TO_{36}	15.6	X	335.16749	341.60855	115.04647	5.87783	0.0972029	0.17531077	3.1617703	21	—	—
281786 2009 TY_{41}	17.4	X	106.58472	315.94427	111.17353	3.65711	0.1133198	0.28168954	2.3047416	21	2 16.9	19.8
281787 2009 UG_{35}	17.8	X	227.49552	51.46598	32.35963	2.00121	0.0918789	0.31252834	2.1505182	21	8 6.2	20.3
281788 2009 UO_{37}	17.3	X	192.83054	218.83244	59.42492	6.14885	0.1345050	0.27085167	2.3658200	21	—	—
281789 2009 UP_{38}	17.6	X	171.83198	28.95056	56.49026	5.86655	0.1179020	0.30070844	2.2065087	21	6 1.1	20.7
281790 2009 UL_{91}	16.0	X	257.85494	287.03440	78.35168	5.90532	0.0518804	0.22198829	2.7013613	21	5 31.9	19.7
281791 2009 UD_{94}	17.4	X	232.42944	146.49343	217.99982	20.67222	0.1009448	0.38261319	1.8791557	21	4 8.5	19.7
281792 2009 UC_{106}	17.0	X	76.41065	278.46006	229.62360	8.55634	0.0812525	0.29094787	2.2555853	21	4 19.5	19.3
281793 2009 UX_{111}	17.5	X	249.99673	259.29718	234.68020	4.05221	0.1961149	0.24181666	2.5515960	21	10 20.4	21.0
281794 2009 US_{132}	16.6	X	259.73172	79.99443	349.55571	11.13644	0.1685845	0.23349812	2.6118433	21	8 15.2	20.2
281795 2009 UW_{137}	15.6	X	344.45188	110.57904	28.47811	9.54753	0.0728755	0.18501781	3.0501910	21	—	—
281796 2009 VV_{7}	17.6	X	25.24710	260.24454	206.41446	3.66237	0.1453473	0.27047798	2.3679986	21	—	—
281797 2009 VA_{39}	16.9	X	282.08858	42.76096	54.09995	10.77729	0.1280585	0.24168190	2.5525443	21	10 29.9	19.9
281798 2009 VP_{39}	16.2	X	187.44539	339.77832	71.70939	4.71575	0.0630536	0.21339156	2.7734344	21	5 8.5	20.2
281799 2009 VW_{47}	17.2	X	232.16449	323.68112	185.16252	4.16657	0.1822956	0.24100280	2.5573372	21	10 22.2	21.0
281800 2009 VW_{113}	17.3	X	54.62198	82.54882	57.03280	4.78504	0.0859155	0.28274550	2.2989997	21	3 6.7	19.7
281801 2009 WS_{34}	17.0	X	359.39470	65.68336	69.97034	5.17749	0.0620309	0.26622190	2.3931699	21	—	—
281802 2009 WO_{43}	17.0	X	42.13710	349.60583	120.61502	1.99765	0.1432467	0.26999293	2.3708338	21	—	—
281803 2009 WG_{45}	17.5	X	347.12448	49.76906	78.84649	5.92982	0.1771605	0.26353561	2.4094052	21	—	—
281804 2009 WD_{48}	16.1	X	11.16752	266.46446	209.48670	3.01863	0.0502415	0.18225246	3.0809675	21	—	—
281805 2009 WX_{53}	16.1	X	214.90018	58.30730	74.63602	13.77181	0.1844022	0.22735256	2.6587009	21	9 20.1	20.6
281806 2009 WX_{73}	17.6	X	105.20589	50.05525	89.42369	3.58545	0.0683874	0.29534072	2.2331634	21	5 20.6	20.1
281807 2009 WC_{76}	17.0	X	247.46516	47.71533	105.87051	4.83894	0.1350759	0.24529256	2.5274338	21	11 23.5	20.2
281808 2009 WH_{117}	18.3	X	23.61309	1.37493	309.83649	0.56749	0.0275980	0.31996190	2.1170797	21	9 27.3	20.3
281809 2009 WW_{119}	15.8	X	279.86469	133.94969	61.89110	8.22301	0.1315311	0.17968266	3.1102737	21	—	—
281810 2009 WG_{133}	17.8	X	359.48486	239.07869	235.38092	2.56561	0.1830017	0.26509828	2.3999274	21	—	—
281811 2009 WF_{139}	17.6	X	236.30079	231.07301	180.78265	4.04150	0.0950101	0.30731602	2.1747662	21	6 29.9	20.4
281812 2009 WR_{164}	17.9	X	158.15806	53.39751	52.14357	2.96968	0.0295327	0.30000833	2.2099401	21	6 7.9	20.4
281813 2009 WB_{195}	16.9	X	89.31519	207.81930	240.15899	5.23771	0.1078993	0.27943725	2.3171093	21	2 15.5	19.4
281814 2009 WM_{203}	16.2	X	337.68629	270.78276	247.33578	22.56401	0.3391922	0.17622893	3.1507788	21	—	—
281815 2009 WR_{206}	17.5	X	358.98043	235.77201	274.27122	3.82351	0.1264831	0.27097832	2.3650828	21	—	—
281816 2009 WZ_{214}	17.7	X	277.48097	334.33584	59.43416	0.96253	0.0691974	0.31177721	2.1539708	21	8 6.5	19.7
281817 2009 WK_{215}	16.2	X	254.53584	4.52489	101.92028	15.63608	0.2069391	0.23097762	2.6308098	21	9 26.1	20.2
281818 2009 WL_{233}	16.3	X	138.58393	182.09873	96.47999	6.41410	0.1180268	0.24074527	2.5591606	21	12 31.9	20.3
281819 2009 WS_{250}	15.9	X	206.84592	253.43668	245.82771	11.83123	0.2071834	0.22874100	2.6479312	21	9 5.5	20.5
281820 Monnaves	16.4	X	224.71988	230.78029	296.86666	8.57208	0.1916947	0.24198614	2.5504044	21	11 1.9	20.5
281821 2009 XH_{21}	17.0	X	67.08348	352.46484	98.73983	8.02709	0.0116114	0.26956562	2.3733387	21	1 12.4	19.9
281822 2009 XE_{24}	16.9	X	221.07342	358.63771	92.90328	10.16683	0.3069789	0.22345125	2.6895576	21	7 20.3	21.7
281823 2009 XQ_{24}	16.8	X	274.09224	33.74531	92.74252	1.97900	0.1453121	0.24395587	2.5366577	21	11 23.1	19.5
281824 2009 YN_{5}	16.0	X	205.08209	24.10935	106.26055	15.70054	0.1104576	0.22290845	2.6939220	21	9 10.6	20.3
281825 2009 YA_{7}	16.4	X	275.22547	355.34211	79.05912	8.94005	0.1600622	0.23369449	2.6103800	21	9 15.2	19.8
281826 2009 YG_{20}	17.2	X	151.84818	207.04106	359.92600	1.39069	0.0182532	0.22975224	2.6401557	21	10 15.8	20.7
281827 2009 YT_{23}	15.9	X	231.06337	19.16791	88.05126	22.43484	0.0381272	0.22730231	2.6590927	21	9 26.2	20.1
281828 2009 YN_{25}	16.8	X	176.05332	183.56432	126.34752	6.39456	0.0190141	0.25943089	2.4347531	21	—	—
281829 2010 AR_{5}	16.1	X	274.68132	332.51882	120.78106	22.83696	0.0562565	0.23140207	2.6275918	21	10 31.4	20.0
281830 2010 AF_{20}	16.6	X	302.38832	228.17836	232.04186	3.73655	0.0665732	0.24005218	2.5640842	21	12 10.0	19.7
281831 2010 AG_{41}	16.8	X	59.31050	28.43630	115.09140	3.48103	0.1291932	0.19052991	2.9910748	21	4 8.9	20.4
281832 2010 AA_{65}	16.6	X	252.56015	5.79165	111.06898	15.38044	0.0979376	0.23138413	2.6277276	21	10 23.2	20.5
281833 2010 AC_{65}	16.5	X	178.88622	47.34374	72.31362	4.70541	0.0441289	0.21360277	2.7716058	21	7 26.8	20.4
281834 2010 AO_{68}	15.9	X	65.33068	320.03114	146.96363	16.94305	0.2304525	0.18429541	3.0581565	21	3 18.2	19.6
281835 2010 AR_{68}	15.9	X	19.58357	26.89958	83.20564	8.42592	0.1281936	0.17515193	3.1636816	21	—	—
281836 2010 AM_{71}	16.0	X	313.28110	76.89495	162.02155	3.79396	0.0596989	0.18227074	3.0807615	21	3 3.9	20.2
281837 2010 AV_{71}	16.4	X	245.79837	267.76582	290.23759	5.31108	0.0986226	0.25260473	2.4784209	21	—	—
281838 2010 AX_{72}	16.1	X	171.33610	159.48063	108.77285	16.65509	0.0487756	0.24671433	2.5177144	21	—	—
281839 2010 AY_{77}	15.5	X	66.81549	24.47047	109.52002	11.55756	0.0840093	0.18689784	3.0297017	21	4 6.5	19.7
281840 2010 AB_{79}	16.0	X	136.04739	111.66135	63.91258	8.68821	0.0829144	0.21523145	2.7576061	21	8 23.5	20.2

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281841 2010 AM_{80}	16.3	X	122.32161	184.53565	125.00703	6.57616	0.1329069	0.24170972	2.5523485	21	—	—
281842 2010 AL_{81}	15.9	X	70.26348	308.96997	283.13664	7.20859	0.0118009	0.21142376	2.7906167	21	7 31.6	19.7
281843 2010 CS_{24}	16.7	X	164.17721	316.52972	138.88115	2.75868	0.0257153	0.20344697	2.8630916	21	6 5.8	20.6
281844 2010 CR_{29}	15.8	X	243.31717	163.67713	157.70496	10.52004	0.0735122	0.18156397	3.0887512	21	3 22.3	20.4
281845 2010 CH_{41}	15.7	X	348.16220	37.19803	147.68459	7.89142	0.1031343	0.17782331	3.1319171	21	2 7.2	19.6
281846 2010 CR_{41}	16.2	X	212.12398	54.14293	133.16782	13.37109	0.0318067	0.23481917	2.6020383	21	12 6.7	20.0
281847 2010 CC_{44}	15.7	X	277.26164	201.96969	109.07378	9.71366	0.0781564	0.18975047	2.9992602	21	4 18.8	20.1
281848 2010 CR_{55}	17.2	X	131.04664	181.47469	241.19833	5.41399	0.2164398	0.27967371	2.3158030	21	3 26.9	20.6
281849 2010 CO_{62}	15.5	X	346.03794	83.78085	100.67534	6.40187	0.1364674	0.17659296	3.1464473	21	2 1.4	19.4
281850 2010 CP_{67}	15.8	X	291.42509	110.25637	151.33627	5.58037	0.1398717	0.17890986	3.1192238	21	2 22.4	20.4
281851 2010 CC_{70}	16.5	X	144.13372	128.73474	118.37375	9.36237	0.0834353	0.23470302	2.6028967	21	11 30.1	20.5
281852 2010 CP_{77}	15.4	X	334.10638	75.38757	155.41732	10.12702	0.0383992	0.18353727	3.0665723	21	3 25.5	19.6
281853 2010 CS_{78}	16.4	X	269.59559	250.97042	149.02733	4.97109	0.0770983	0.21141794	2.7906679	21	7 28.5	20.1
281854 2010 CH_{82}	16.2	X	210.95837	157.79697	221.37095	2.21939	0.0896676	0.18833513	3.0142678	21	4 23.9	20.9
281855 2010 CA_{94}	16.4	X	81.96238	347.95469	117.95837	4.28544	0.1955817	0.18737146	3.0245940	21	4 4.3	20.4
281856 2010 CP_{96}	16.3	X	325.19170	108.64311	133.42167	3.04590	0.0965526	0.18512292	3.0490362	21	3 19.2	20.2
281857 2010 CK_{128}	15.8	X	342.73692	107.19247	60.42529	5.98469	0.1418985	0.17308759	3.1887864	21	1 6.4	19.8
281858 2010 CY_{128}	16.1	X	34.23536	348.60712	173.75739	16.74695	0.1118936	0.18474518	3.0531910	21	3 22.4	19.7
281859 2010 CV_{138}	16.5	X	108.90562	13.19296	130.53829	2.67149	0.0404829	0.19858282	2.9096557	21	6 1.4	20.6
281860 2010 CK_{139}	16.7	X	266.39433	137.17626	283.86449	2.66363	0.0618872	0.21726282	2.7403904	21	8 23.6	20.5
281861 2010 CZ_{165}	15.6	X	64.72667	7.90364	130.79593	9.95800	0.0925409	0.18422771	3.0589057	21	4 9.4	19.7
281862 2010 CM_{167}	16.2	X	132.61871	241.05142	190.82091	5.36132	0.0692050	0.18447251	3.0561988	21	4 4.4	20.7
281863 2010 CN_{179}	16.0	X	6.12759	334.67948	175.73671	14.89286	0.2179274	0.17566247	3.1575487	21	1 11.2	19.7
281864 2010 CX_{243}	14.9	X	179.64075	175.32402	93.37911	18.61069	0.0455395	0.17875895	3.1209791	21	—	—
281865 2010 DL_{11}	16.7	X	355.06378	245.54925	66.11712	5.35706	0.0562545	0.21124720	2.7921714	21	8 8.4	20.2
281866 2010 DW_{11}	15.3	X	78.63922	279.31954	175.71668	26.41678	0.1715141	0.17721950	3.1390270	21	3 12.1	19.4
281867 2010 DR_{41}	16.0	X	185.17309	215.77583	182.25532	3.55193	0.1619295	0.19090528	2.9871527	21	4 22.3	20.9
281868 2010 DH_{70}	15.8	X	340.12154	86.31294	180.13388	5.23850	0.1532339	0.17619426	3.1511921	21	5 7.4	19.5
281869 2010 EV_{2}	15.3	X	84.61440	295.39830	111.12470	15.75385	0.0506294	0.17048208	3.2211941	21	1 5.7	19.8
281870 2010 EH_{66}	15.1	X	358.60385	290.93667	154.76753	10.74154	0.0378341	0.15436172	3.4417262	21	—	—
281871 2010 EX_{88}	16.0	X	328.41503	242.02526	340.13054	3.53778	0.0996798	0.18223414	3.0811740	21	2 25.7	19.8
281872 2010 EU_{92}	16.7	X	327.91456	259.12582	158.55918	6.30265	0.1157560	0.22588651	2.6701922	21	11 20.4	19.7
281873 2010 EC_{99}	16.9	X	345.27509	227.16717	81.63295	3.87249	0.1609539	0.28236090	2.3010868	21	7 14.9	18.7
281874 2010 ES_{102}	15.6	X	29.53657	254.23548	182.78972	4.50395	0.0426204	0.15762317	3.3940846	21	—	—
281875 2010 ES_{138}	16.4	X	19.62852	337.59824	77.46639	3.41456	0.0691435	0.23365055	2.6107073	21	—	—
281876 2010 FP_{35}	16.8	X	308.36939	304.70645	140.55557	13.57688	0.2553317	0.24381890	2.5376076	21	11 20.4	19.1
281877 2010 FA_{83}	16.1	X	259.87726	324.20294	113.25094	5.30303	0.0468512	0.21320766	2.7750289	21	9 10.9	19.9
281878 2010 GT_{24}	16.9	X	201.17467	66.53872	67.82054	1.25457	0.0144481	0.21374901	2.7703415	21	9 12.9	20.8
281879 2010 GW_{119}	16.4	X	113.09207	193.39815	50.88021	3.54479	0.0182406	0.21526169	2.7573479	21	10 14.9	20.1
281880 2010 GK_{126}	15.1	X	102.50404	257.35550	137.07285	17.21270	0.1260253	0.17146031	3.2089305	21	1 23.1	19.6
281881 2010 HO_{78}	16.4	X	166.03676	129.39930	73.05980	5.81179	0.0455979	0.21173317	2.7878974	21	10 26.8	20.4
281882 2010 HD_{104}	15.1	X	92.28807	250.72275	213.79849	26.18835	0.1835909	0.18139125	3.0907117	21	4 11.8	19.5
281883 2010 JB_{49}	15.8	X	98.45775	225.80349	104.94783	15.42786	0.1104767	0.22058072	2.7128411	21	—	—
281884 2010 JM_{83}	17.1	X	23.45245	12.65595	240.23828	3.04745	0.2119999	0.27485699	2.3427801	21	7 15.1	18.6
281885 2010 JH_{163}	15.9	X	287.98918	260.25882	58.45044	7.34171	0.0938410	0.17927426	3.1149956	21	5 6.5	20.1
281886 2010 KM_{110}	15.1	X	19.21378	333.50358	335.19052	16.45942	0.1185010	0.18041270	3.1018775	21	9 8.5	19.0
281887 2010 LR_{1}	16.2	X	230.77572	33.51034	191.28521	15.26896	0.0846183	0.22725933	2.6594280	21	—	—
281888 2010 LY_{33}	18.0	X	187.39551	330.84375	191.14763	21.65554	0.0219954	0.37956287	1.8892100	21	10 24.7	19.8
281889 2010 LC_{62}	16.1	X	88.04838	212.07807	127.98325	5.84451	0.1201902	0.21928235	2.7235390	21	—	—
281890 2010 OA_{74}	16.4	X	235.14219	102.48316	57.28790	7.99645	0.0663069	0.22107081	2.7088302	21	11 20.4	20.2
281891 2010 PA_{78}	15.3	X	7.75767	246.51458	139.85025	17.32580	0.1091666	0.18258569	3.0772177	21	12 5.5	19.5
281892 2010 XL_{19}	16.9	X	167.48499	157.80327	313.10490	6.54157	0.3055206	0.23141383	2.6275027	21	7 6.8	21.7
281893 2011 AS	17.5	X	310.60088	340.10423	102.10965	7.07824	0.0998733	0.26282181	2.4137657	21	12 3.4	19.9
281894 2011 AF_{29}	15.2	X	303.70506	212.22243	310.24504	7.76222	0.1131322	0.17921934	3.1156318	21	—	—
281895 2011 AC_{49}	15.6	X	248.02654	262.37432	318.89329	10.53168	0.0566900	0.18151254	3.0893346	21	—	—
281896 2011 BQ	17.7	X	313.32827	343.72404	118.49880	5.13760	0.1059894	0.26752750	2.3853774	21	—	—
281897 2011 BS_{5}	16.7	X	27.04503	142.88558	120.93885	4.55092	0.1303261	0.23094144	2.6310845	21	7 28.9	19.4
281898 2011 BP_{25}	15.4	X	110.42309	261.52370	117.36113	12.36150	0.0370010	0.18988747	2.9978174	21	—	—
281899 2011 CW_{9}	17.1	X	190.31821	83.51601	325.48234	3.08095	0.0808678	0.21836115	2.7311934	21	5 6.4	21.1
281900 2011 CP_{17}	16.4	X	304.62723	106.17895	63.11988	2.50746	0.1074510	0.18085399	3.0968296	21	—	—
281901 2011 CR_{17}	16.9	X	315.14548	295.57367	118.14463	7.33231	0.0670419	0.25141807	2.4862133	21	11 1.9	19.9
281902 2011 CB_{19}	16.7	X	25.04370	278.41996	126.96076	7.07991	0.1136739	0.26957730	2.3732701	21	—	—
281903 2011 CP_{20}	15.5	X	322.58924	349.10137	149.20974	18.12755	0.0910510	0.17906433	3.1174297	21	—	—
281904 2011 CX_{49}	16.6	X	109.03797	331.33111	175.91077	10.75554	0.1496288	0.21871728	2.7282280	21	6 20.1	20.8
281905 2011 CJ_{72}	15.7	X	40.48023	351.73974	111.86615	12.56129	0.0445559	0.19041643	2.9922630	21	1 11.9	19.6
281906 2011 CB_{77}	15.5	X	310.78589	45.39106	132.83233	7.61249	0.0451125	0.18399065	3.0615326	21	—	—
281907 2011 DX_{2}	17.3	X	105.51338	264.62014	147.85494	6.64291	0.0892735	0.28916761	2.2648335	21	1 18.3	19.7
281908 2011 EQ_{16}	15.7	X	309.47420	155.22601	348.81759	12.51318	0.1248225	0.17718361	3.1394508	21	—	—
281909 2011 ED_{24}	15.8	X	0.46275	296.91717	147.16625	4.33734	0.1077051	0.17354404	3.1831925	21	—	—
281910 2011 EG_{28}	15.9	X	347.89453	37.21008	156.23331	4.32436	0.0208459	0.19258229	2.9697859	21	2 23.1	20.0
281911 2011 EU_{51}	16.1	X	207.43723	257.03147	41.39202	13.42149	0.0683611	0.18277999	3.0750365	21	1 17.9	21.0
281912 2011 EX_{52}	17.9	X	343.58275	45.48272	118.73049	4.35985	0.1104883	0.27773872	2.3265466	21	—	—
281913 2011 EZ_{53}	16.5	X	156.96183	282.15453	35.17066	14.04059	0.2332505	0.25998017	2.4313225	21	—	—
281914 2011 EF_{63}	15.5	X	142.67059	264.19862	58.32088	14.37502	0.2467553	0.25640580	2.4538658	21	—	—
281915 2011 ET_{71}	17.4	X	267.97492	206.99880	91.69594	3.22843	0.1059497	0.28809951	2.2704278	21	3 4.3	20.5
281916 2011 EW_{76}	16.1	X	147.88045	79.41150	106.97195	14.77131	0.2271358	0.22687690	2.6624157	21	9 26.6	20.9
281917 2011 FA	15.8	X	255.30499	213.00124	61.73792	11.38314	0.0738788	0.18851417	3.0123589	21	2 8.8	20.4
281918 2011 FE_{2}	16.2	X	226.85410	333.67520	165.75341	12.84250	0.0889494	0.23850321	2.5751739	21	10 17.7	19.8
281919 2011 FO_{6}	15.8	X	263.10386	75.67776	191.33234	12.94864	0.2544223	0.17396813	3.1780172	21	1 19.6	21.3
281920 2011 FR_{9}	15.4	X	154.47880	275.09270	91.59341	12.85387	0.1281015	0.18314691	3.0709282	21	2 18.4	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
281921 2011 FN_{11}	16.4	X	210.75871	271.87935	185.84482	13.09004	0.1327868	0.22409911	2.6843715	21	7 26.5	20.8
281922 2011 FY_{11}	16.1	X	300.14458	70.29234	195.53459	2.27252	0.0578200	0.18949765	3.0019273	21	3 19.4	20.1
281923 2011 FX_{12}	16.2	X	324.25440	218.51858	89.39384	7.20463	0.0718405	0.20921001	2.8102681	21	6 13.1	19.8
281924 2011 FZ_{12}	16.8	X	150.87087	235.64203	88.70632	7.11810	0.1392066	0.26177406	2.4202022	21	—	—
281925 2011 FT_{13}	16.6	X	25.83695	72.74591	163.37375	4.05569	0.0393257	0.20916029	2.8107133	21	6 9.6	20.2
281926 2011 FW_{13}	16.4	X	239.13294	66.73034	187.44293	19.23669	0.1388237	0.17099015	3.2148101	21	—	—
281927 2011 FV_{19}	15.7	X	146.25318	98.42570	159.33782	14.34535	0.1821835	0.23808737	2.5781716	21	12 14.5	20.2
281928 2011 FN_{30}	16.3	X	83.63054	212.89549	37.82406	12.59154	0.1248249	0.22485133	2.6783813	21	10 4.8	20.2
281929 2011 FB_{32}	15.7	X	10.75795	286.67969	215.48614	15.81624	0.1732904	0.18180249	3.0860491	21	1 9.4	19.5
281930 2011 FG_{45}	17.6	X	175.18563	311.54810	142.73590	3.08551	0.0616424	0.30985859	2.1628531	21	6 16.2	20.2
281931 2011 FV_{46}	17.0	X	59.43708	76.99643	222.02198	2.66141	0.0653285	0.23051336	2.6343409	21	10 25.1	20.3
281932 2011 FL_{48}	17.8	X	301.84090	104.26450	141.85381	6.77816	0.1072770	0.27986940	2.3147234	21	2 2.2	20.8
281933 2011 FJ_{83}	15.4	X	197.38222	281.83193	30.27272	8.14309	0.1127106	0.17772998	3.1330135	21	1 25.2	20.5
281934 2011 FG_{138}	16.4	X	206.51053	347.57609	339.29195	2.75086	0.0879422	0.18895888	3.0076307	21	2 16.1	20.9
281935 2011 FF_{142}	16.0	X	343.58053	47.59883	147.27866	4.98381	0.1183596	0.18447744	3.0561444	21	2 10.1	19.8
281936 2011 FT_{142}	17.7	X	328.13842	262.62614	315.83618	1.17787	0.1840624	0.28162962	2.3050685	21	1 18.5	20.3
281937 2011 FZ_{142}	16.2	X	70.97110	23.64379	192.30093	6.37353	0.1513021	0.21055738	2.7982665	21	7 31.9	20.0
281938 2011 FC_{143}	16.1	X	266.52915	123.31091	132.00538	4.42297	0.1523867	0.17657739	3.1466322	21	1 19.2	20.9
281939 2011 FQ_{143}	16.4	X	159.80064	340.04967	174.22980	3.78411	0.1001258	0.22128487	2.7070830	21	8 18.1	20.5
281940 2011 FH_{147}	16.1	X	160.06820	281.39027	185.19115	8.71863	0.1175256	0.21440104	2.7647220	21	6 19.4	20.5
281941 2011 FF_{148}	16.1	X	77.07451	277.03799	16.11821	4.29936	0.1714487	0.22972897	2.6403340	21	11 20.9	20.1
281942 2011 FD_{150}	16.4	X	164.57044	125.42461	72.73022	8.30842	0.1379744	0.23536434	2.5980187	21	10 22.1	20.6
281943 2011 FM_{154}	17.8	X	216.50500	67.78001	183.74927	2.41747	0.1674623	0.25853992	2.4403436	21	—	—
281944 2011 GT_{3}	16.0	X	350.99860	87.30169	74.58372	6.15491	0.1053601	0.18075542	3.0979554	21	1 13.9	20.0
281945 2011 GR_{9}	16.1	X	274.63783	31.26014	94.94542	14.05780	0.0449182	0.24678505	2.5172334	21	12 8.8	19.3
281946 2011 GH_{12}	16.2	X	309.13128	3.19722	359.83330	6.11103	0.0438312	0.22230701	2.6987787	21	8 11.1	19.7
281947 2011 GG_{31}	17.4	X	297.55878	35.94217	181.50078	2.07453	0.1675184	0.27419532	2.3465476	21	—	—
281948 2011 GH_{32}	17.4	X	103.77166	125.11344	183.19998	9.92830	0.1483058	0.24084103	2.5584822	21	—	—
281949 2011 GA_{34}	16.7	X	191.29320	175.14167	264.17368	2.15887	0.0693582	0.21375142	2.7703207	21	6 17.1	20.6
281950 2011 GS_{36}	16.0	X	251.34649	197.29834	101.15070	7.15249	0.1921716	0.18582291	3.0413743	21	2 22.1	21.0
281951 2011 GR_{39}	16.2	X	279.73036	222.80330	138.94740	6.74819	0.0432248	0.21860210	2.7291862	21	6 26.4	19.8
281952 2011 GE_{46}	18.1	X	227.62697	90.19874	155.90199	7.11993	0.2304670	0.26246604	2.4159464	21	—	—
281953 2011 GU_{46}	16.8	X	138.70958	279.26520	203.95504	3.68193	0.1571690	0.21110701	2.7934074	21	6 21.4	21.2
281954 2011 GJ_{55}	16.6	X	0.11302	136.99209	165.81858	2.90423	0.1646747	0.21273628	2.7791266	21	8 3.9	19.5
281955 2011 GM_{55}	16.3	X	308.66293	273.88112	77.15879	10.07631	0.1101733	0.21285722	2.7780739	21	7 14.2	19.8
281956 2011 GU_{55}	15.9	X	2.78808	84.51560	82.30069	9.92823	0.1187712	0.18273556	3.0755349	21	2 7.2	19.7
281957 2011 GR_{57}	16.5	X	331.77022	224.96633	88.98292	5.50748	0.0554263	0.21264584	2.7799146	21	7 4.5	20.1
281958 2011 GP_{58}	17.8	X	314.02679	329.81693	264.22875	1.33967	0.1673502	0.28041603	2.3117143	21	1 23.7	20.8
281959 2011 GG_{59}	17.7	X	216.67845	99.30810	139.43167	3.11757	0.1545416	0.25566863	2.4585804	21	—	—
281960 2011 GF_{61}	17.1	X	284.81884	175.72728	109.94505	6.94781	0.1801949	0.28399951	2.2922271	21	2 27.2	20.3
281961 2011 GK_{63}	16.7	X	76.89923	77.27836	176.84004	3.40513	0.1587292	0.22450878	2.6811050	21	10 1.9	20.5
281962 2011 GX_{63}	16.7	X	213.89339	84.05663	90.70949	5.94228	0.1643888	0.24340567	2.5404789	21	11 7.8	20.5
281963 2011 GB_{64}	16.8	X	135.25197	130.84465	86.71592	6.17274	0.2080823	0.23052340	2.6342645	21	10 19.7	21.3
281964 2011 GN_{65}	17.7	X	248.33584	244.44295	63.47444	23.22695	0.1059972	0.38018892	1.8871355	21	2 17.6	20.7
281965 2011 GP_{66}	16.8	X	164.44510	309.03213	203.22647	31.21386	0.2464148	0.22902146	2.6457690	21	8 16.6	22.0
281966 2011 GZ_{66}	16.7	X	163.89205	81.90931	97.80600	12.52478	0.1351410	0.23187861	2.6239905	21	10 1.8	21.1
281967 2011 GO_{69}	15.4	X	163.30963	170.32983	199.54383	12.54271	0.0901456	0.18212843	3.0823661	21	2 21.0	20.3
281968 2011 GR_{69}	16.4	X	250.72504	122.53485	156.54445	1.69598	0.1427756	0.17803491	3.1294350	21	2 1.3	21.4
281969 2011 GT_{69}	16.0	X	57.46324	279.23933	207.93556	8.52390	0.1763092	0.19072051	2.9890816	21	3 17.2	19.4
281970 2011 GV_{69}	16.5	X	8.69610	264.60249	40.74413	7.51973	0.2203839	0.21342636	2.7731329	21	9 5.5	19.1
281971 2011 GC_{70}	17.0	X	177.38371	88.73459	210.96156	5.20070	0.1092095	0.26050548	2.4280529	21	—	—
281972 2011 GF_{70}	16.1	X	157.20396	270.06318	210.56426	8.86393	0.1012354	0.21316094	2.7754344	21	7 2.5	20.5
281973 2011 GV_{71}	16.2	X	72.81501	200.49361	72.51338	7.54407	0.1282413	0.22605974	2.6688278	21	10 20.1	20.0
281974 2011 GM_{72}	16.4	X	17.56772	214.60913	75.19394	10.43221	0.1855177	0.21380636	2.7698461	21	8 29.4	19.5
281975 2011 GR_{72}	16.1	X	32.19631	336.91531	163.07820	3.96536	0.1295525	0.18884542	3.0088353	21	2 16.2	19.4
281976 2011 GC_{78}	15.7	X	268.12900	60.15026	213.83683	15.49181	0.0567531	0.18232787	3.0801179	21	2 15.7	20.4
281977 2011 HS_{8}	15.9	X	117.82549	98.58314	67.38952	9.36809	0.0549269	0.21575880	2.7531109	21	7 14.2	19.9
281978 2011 HQ_{9}	17.3	X	322.86929	233.81663	82.85318	7.86362	0.1196517	0.30438001	2.1887289	21	6 13.6	19.3
281979 2011 HR_{10}	17.6	X	194.58254	66.04350	203.87383	3.22038	0.2173267	0.25791994	2.4442527	21	—	—
281980 2011 HB_{11}	16.7	X	154.82465	189.30040	11.99598	3.48973	0.0824766	0.23460148	2.6036477	21	10 13.1	20.3
281981 2011 HJ_{12}	16.1	X	101.44228	173.83081	117.34616	6.79601	0.1002402	0.23453990	2.6041034	21	12 9.3	20.0
281982 2011 HN_{13}	15.3	X	333.76641	320.93843	181.75815	10.79209	0.0178069	0.16791801	3.2539025	21	—	—
281983 2011 HX_{17}	16.3	X	231.97463	283.69264	31.40628	11.02233	0.0263031	0.18903195	3.0068556	21	3 7.8	20.7
281984 2011 HQ_{18}	16.8	X	144.80223	51.73487	166.04147	10.35747	0.0483552	0.23064278	2.6333554	21	10 24.9	20.6
281985 2011 HR_{18}	15.6	X	24.27173	56.06415	80.89652	18.62182	0.1022153	0.17948894	3.1125111	21	2 6.1	19.7
281986 2011 HK_{20}	16.4	X	203.61238	317.25954	93.44874	1.81806	0.0703009	0.20958484	2.8069164	21	5 25.3	20.6
281987 2011 HV_{21}	17.1	X	116.78853	170.76388	140.46768	4.72653	0.2130158	0.24346534	2.5400638	21	—	—
281988 2011 HY_{21}	15.9	X	341.46506	351.31391	188.85521	11.00823	0.0961239	0.17961695	3.1110322	21	1 21.4	20.2
281989 2011 HE_{23}	17.4	X	312.50812	329.94974	226.00379	6.18201	0.0588669	0.27315167	2.3525208	21	—	—
281990 2011 HZ_{25}	16.5	X	228.74473	183.87239	126.46390	8.13624	0.1594109	0.27299654	2.3534120	21	2 5.4	20.0
281991 2011 HM_{26}	16.1	X	354.55759	266.53855	14.27859	3.08766	0.0787253	0.21001689	2.8030655	21	6 23.0	19.5
281992 2011 HU_{27}	16.5	X	225.45863	177.94428	111.83784	7.41709	0.1056638	0.27072603	2.3665519	21	1 7.9	19.8
281993 2011 HW_{28}	17.3	X	343.87496	89.88907	174.92873	5.20893	0.1533484	0.29468057	2.2364973	21	4 27.9	19.1
281994 2011 HY_{28}	16.7	X	294.97897	107.26352	102.57470	8.05046	0.0530940	0.26876372	2.3780572	21	—	—
281995 2011 HC_{29}	17.2	X	195.48496	226.13494	65.29666	5.13195	0.1682837	0.26144585	2.4222272	21	—	—
281996 2011 HX_{29}	15.5	X	253.52408	54.48497	203.69722	9.15990	0.0452755	0.17449483	3.1716190	21	1 17.2	20.3
281997 2011 HR_{32}	15.7	X	245.39609	142.79259	153.28083	7.60793	0.1492237	0.17816813	3.1278749	21	2 15.4	20.5
281998 2011 HF_{35}	17.3	X	267.78209	182.76552	126.48759	8.63476	0.2243941	0.28055736	2.3109379	21	3 8.8	20.9
281999 2011 HH_{36}	16.1	X	318.99472	333.86461	84.46886	15.27861	0.1049970	0.23502505	2.6005185	21	11 11.5	19.2
282000 2011 HU_{36}	15.5	X	343.36464	84.02505	80.35768	11.38967	0.0197967	0.17467301	3.1694617	21	1 17.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282001 2011 HO_{44}	15.2	X	227.62552	193.13173	100.49574	9.74204	0.1354742	0.17298570	3.1900385	21	1 30.6	20.3
282002 2011 HA_{49}	16.1	X	6.19833	301.68124	186.24338	15.78648	0.1873427	0.17557341	3.1586165	21	—	—
282003 2011 HG_{49}	15.4	X	124.70578	279.21185	136.04991	11.20313	0.0343756	0.18203349	3.0834377	21	3 3.5	19.8
282004 2011 HY_{49}	17.3	X	158.02663	191.58446	93.00038	7.47830	0.2250104	0.24638017	2.5199904	21	—	—
282005 2011 HS_{52}	16.2	X	186.47318	17.71102	171.81844	12.07900	0.1253719	0.23548317	2.5971446	21	11 1.7	20.3
282006 2011 HZ_{55}	16.4	X	43.70202	166.30641	76.92580	5.44109	0.0202847	0.21154792	2.7895247	21	7 13.1	20.1
282007 2011 HJ_{56}	15.9	X	331.39487	86.80698	97.01620	8.27062	0.1177891	0.17704122	3.1411339	21	1 12.5	20.1
282008 2011 HV_{57}	15.7	X	33.08579	191.99359	128.01023	14.32187	0.1626109	0.22219878	2.6996550	21	11 5.4	19.3
282009 2011 HR_{58}	16.2	X	293.00757	248.81068	137.70550	7.62291	0.0385361	0.21936844	2.7228264	21	8 18.9	19.7
282010 2011 HL_{61}	15.6	X	66.03308	208.00159	94.34497	25.42412	0.1247686	0.22971062	2.6404746	21	11 23.2	19.7
282011 2011 HF_{64}	16.8	X	16.37526	40.47299	134.72540	2.75428	0.1294484	0.18603839	3.0390255	21	3 9.2	20.2
282012 2011 HF_{66}	15.7	X	252.34826	212.73536	29.49139	9.45258	0.0401036	0.17418056	3.1754328	21	—	—
282013 2011 HH_{66}	15.4	X	69.96924	300.92925	144.33234	10.50934	0.0708510	0.17577931	3.1561493	21	2 2.9	19.7
282014 2011 HA_{67}	16.6	X	102.79157	250.33021	84.86191	8.02617	0.1532598	0.24516328	2.5283223	21	—	—
282015 2011 HE_{71}	16.0	X	286.04191	344.51612	30.87663	9.82511	0.1751153	0.21991877	2.7182820	21	7 3.6	19.8
282016 2011 HN_{78}	16.6	X	199.69876	13.61267	145.27406	9.24873	0.0435349	0.23539058	2.5978256	21	10 15.5	20.3
282017 2011 HW_{78}	15.6	X	357.96587	189.55092	13.32499	12.20563	0.2020313	0.19019493	2.9945858	21	3 9.9	18.8
282018 2011 HC_{82}	17.4	X	252.81323	117.44400	83.52578	2.45314	0.1308391	0.25739839	2.4475533	21	—	—
282019 2011 HP_{82}	16.0	X	115.03516	173.97695	69.77273	15.93922	0.0770673	0.22798660	2.6537693	21	10 28.5	20.0
282020 2011 HQ_{82}	16.0	X	110.02051	346.80571	258.15988	12.44586	0.1418805	0.22708342	2.6608013	21	10 20.1	20.3
282021 2011 HE_{83}	15.8	X	275.11110	23.22552	231.25324	16.08213	0.2194404	0.17861059	3.1227071	21	1 15.8	21.1
282022 2011 JC_2	16.3	X	316.30570	90.23701	163.17926	10.38414	0.1859599	0.18945157	3.0024140	21	3 6.7	20.4
282023 2011 JY_{10}	16.2	X	141.04195	186.32495	66.06795	14.80300	0.0418829	0.23830925	2.5765710	21	12 1.4	19.9
282024 2852 $P\text{–}L$	17.6	X	164.47931	274.14327	75.00962	2.26515	0.2150080	0.26635260	2.3923869	21	1 30.4	21.2
282025 5347 $T\text{–}2$	16.6	X	356.19622	155.96125	237.67575	8.77517	0.2499709	0.22762434	2.6565842	21	12 21.4	19.2
282026 2184 $T\text{–}3$	16.9	X	67.70399	160.25703	239.08802	3.68590	0.1610564	0.25303587	2.4756048	21	—	—
282027 5069 $T\text{–}3$	16.9	X	103.01227	271.47275	80.86228	6.57985	0.1353439	0.25306920	2.4753875	21	—	—
282028 1990 TV_9	17.5	X	261.79837	114.76065	247.78590	3.87329	0.2473543	0.27909224	2.3190185	21	5 5.5	21.2
282029 1993 OH_3	16.6	X	351.64130	357.93042	295.75069	6.65849	0.1159373	0.28099850	2.3085186	21	7 5.6	18.4
282030 1994 XK_2	16.8	X	35.09692	166.80365	191.78221	8.88794	0.2390690	0.22239008	2.6981066	21	—	—
282031 1995 ME_6	16.2	X	296.78436	64.53579	270.86724	9.58253	0.0803564	0.18580181	3.0416046	21	6 9.5	20.3
282032 1995 OP_4	15.9	X	282.86145	54.00718	327.91048	7.58776	0.0994705	0.18670747	3.0317607	21	7 20.1	20.0
282033 1995 OA_{17}	18.1	X	320.59062	129.66709	211.55010	3.92615	0.1511440	0.30208399	2.1998053	21	7 14.5	20.0
282034 1995 UO	15.8	X	348.20005	184.47622	214.45936	13.16744	0.1733044	0.22988114	2.6391687	21	12 4.5	18.5
282035 1995 WG_{18}	16.8	X	57.31624	111.62334	234.76980	7.05744	0.1418101	0.23212489	2.6221342	21	—	—
282036 1996 FQ_{13}	17.6	X	285.96123	71.82478	168.05027	6.99859	0.0659302	0.27091734	2.3654377	21	1 12.1	20.9
282037 1998 QD_{49}	16.0	X	116.43317	330.29213	347.02921	7.94605	0.2235223	0.22780773	2.6551582	21	—	—
282038 1998 QO_{79}	16.8	X	76.68903	117.37225	209.09177	6.99209	0.3274117	0.22509590	2.6764409	21	—	—
282039 1998 QJ_{89}	16.0	X	52.69988	106.33554	256.47414	11.35299	0.2878442	0.22268635	2.6957130	21	—	—
282040 1998 QJ_{94}	15.8	X	103.99414	22.24071	322.26110	13.19603	0.1784016	0.22843552	2.6502914	21	—	—
282041 1998 RT_{54}	16.0	X	75.97705	345.84427	340.88505	13.66144	0.2549853	0.22303962	2.6928658	21	—	—
282042 1998 SP_2	16.4	X	91.27480	197.55557	155.59911	9.83478	0.3781645	0.22729107	2.6591804	21	—	—
282043 1998 ST_{106}	17.0	X	347.69319	158.75008	181.61758	5.19024	0.2257982	0.29932863	2.2132843	21	9 21.3	17.9
282044 1998 SF_{107}	17.5	X	281.55620	178.97203	191.06793	7.77525	0.2633251	0.29376856	2.2411238	21	6 4.7	20.6
282045 1998 VL_{55}	15.3	X	125.81349	335.80169	52.11471	11.95684	0.0551957	0.18675882	3.0312049	21	2 4.1	19.8
282046 1998 XY_{65}	16.0	X	353.49631	186.78905	255.08141	10.81644	0.2964030	0.21876827	2.7278040	21	—	—
282047 1999 FC_{12}	16.3	X	20.32890	94.18779	169.94033	4.66578	0.1189795	0.23256275	2.6188419	21	7 14.8	19.2
282048 1999 JY_{110}	16.0	X	227.54670	205.53358	44.92478	11.41931	0.1807404	0.25228182	2.4805353	21	—	—
282049 1999 RE_{66}	16.6	X	93.30952	178.52142	157.52954	8.03727	0.2189549	0.23709791	2.5853394	21	—	—
282050 1999 RC_{91}	17.3	X	129.05022	220.30554	160.09079	8.96866	0.3043686	0.24350528	2.5397860	21	2 15.6	21.0
282051 1999 RF_{240}	16.5	X	131.25813	252.03960	119.12233	6.29710	0.2853547	0.24321158	2.5418303	21	2 5.6	20.2
282052 1999 SO_2	15.3	X	101.92684	92.92727	335.62800	21.85989	0.3710637	0.24200592	2.5502655	21	3 20.9	19.1
282053 1999 TO_{18}	15.3	X	5.88639	134.93247	206.14425	20.15746	0.2050711	0.17845505	3.1245213	21	10 8.3	18.7
282054 1999 TS_{129}	17.1	X	75.04563	150.72273	203.77444	3.04299	0.2605499	0.23516746	2.5994685	21	—	—
282055 1999 TT_{148}	17.3	X	26.88564	238.08801	132.07924	2.94513	0.2397480	0.27520858	2.3407844	21	—	—
282056 1999 TD_{168}	16.6	X	75.93618	149.85964	209.76361	12.61401	0.1948205	0.23486228	2.6017199	21	—	—
282057 1999 TH_{193}	16.6	X	96.59332	86.33622	294.89100	6.13900	0.2310917	0.23800544	2.5787632	21	—	—
282058 1999 TO_{244}	16.6	X	136.63606	119.07835	197.68165	12.41238	0.1771996	0.23910800	2.5708297	21	—	—
282059 1999 TE_{255}	16.9	X	1.67241	25.25604	347.98105	4.42876	0.1196970	0.22825765	2.6516680	21	11 14.8	19.9
282060 1999 TT_{265}	15.7	X	21.77653	113.38683	230.64247	16.33708	0.2772961	0.18248663	3.0783312	21	11 23.3	19.2
282061 1999 TL_{270}	16.0	X	40.05381	162.30487	229.55298	13.03817	0.2956799	0.23240791	2.6200050	21	—	—
282062 1999 UM_{12}	16.9	X	76.27824	138.21685	197.58832	12.59716	0.2166774	0.23305629	2.6151433	21	—	—
282063 1999 VJ_{44}	15.9	X	17.29320	172.46394	222.20475	17.33455	0.1900234	0.22965889	2.6408712	21	—	—
282064 1999 VT_{50}	16.6	X	119.52362	105.96721	254.30077	3.47188	0.3257064	0.23895279	2.5719428	21	1 15.8	20.3
282065 1999 VT_{109}	15.6	X	357.10018	106.17118	231.92725	9.76208	0.0869766	0.17286379	3.1915380	21	9 7.2	19.8
282066 1999 WE_{17}	16.1	X	338.98780	212.24535	209.03889	9.47539	0.1647646	0.18234620	3.0799115	21	12 3.3	19.5
282067 1999 XC_9	16.1	X	22.11938	279.11977	102.01800	14.38576	0.2819094	0.22787173	2.6546611	21	—	—
282068 1999 XH_{17}	17.1	X	40.25096	349.79849	94.35135	26.49709	0.1233939	0.36920815	1.9243698	21	—	—
282069 1999 XN_{24}	15.8	X	56.07677	130.39727	234.64131	11.70375	0.2064751	0.23107243	2.6300901	21	—	—
282070 1999 XB_{80}	15.9	X	23.20318	114.16409	251.90549	10.77999	0.1461165	0.22448127	2.6813241	21	12 13.2	19.0
282071 1999 XE_{155}	16.5	X	115.53551	181.12788	243.24441	6.91187	0.2379611	0.24229537	2.5482340	21	3 18.1	20.2
282072 1999 XT_{239}	16.7	X	103.74043	104.26310	278.62569	10.90898	0.3297305	0.23867087	2.5739677	21	1 24.8	20.0
282073 1999 XN_{259}	16.2	X	48.21164	87.56551	289.25877	13.09325	0.1688285	0.22592556	2.6698845	21	—	—
282074 2000 AP_{26}	15.9	X	221.81601	224.26020	293.90636	11.25530	0.1045113	0.21747892	2.7385748	21	10 23.1	20.1
282075 2000 CZ_{71}	17.8	X	3.97990	310.80399	328.16321	1.27335	0.1284414	0.29345359	2.2427271	21	7 7.4	19.3
282076 2000 CC_{73}	16.9	X	34.33284	58.68766	137.58571	22.79497	0.1430923	0.28653547	2.2786824	21	5 6.6	19.7
282077 2000 ER_{142}	17.8	X	1.52487	42.54506	150.34883	7.79015	0.1269034	0.28118895	2.3074761	21	2 12.7	20.1
282078 2000 GP_{51}	17.0	X	348.78321	346.57166	187.04159	4.83977	0.1537073	0.27419866	2.3465285	21	—	—
282079 2000 HS_{33}	15.2	X	33.24692	326.77873	222.18109	13.10799	0.1199029	0.18762718	3.0218452	21	4 23.8	18.9
282080 2000 LU_{29}	17.1	X	290.49643	159.59516	125.13878	6.55976	0.1571611	0.27543548	2.3394986	21	3 8.1	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282081 2000 NG	16.8	X	261.67228	37.44227	286.59754	12.40037	0.2933958	0.27132147	2.3630883	21	3 8.6	21.1
282082 2000 PE_6	16.7	X	236.70297	184.89379	129.62146	24.11688	0.0631084	0.35990507	1.9573902	21	2 6.7	18.8
282083 2000 PX_{27}	16.2	X	247.34996	80.50516	249.09616	22.46177	0.2594828	0.26763815	2.3847199	21	3 2.7	20.9
282084 2000 QN_7	16.4	X	204.24275	0.35696	348.43197	12.82799	0.3086749	0.26227679	2.4171085	21	3 5.7	20.9
282085 2000 QD_{24}	17.4	X	220.12440	199.33586	154.24966	2.70837	0.2192561	0.26617483	2.3934520	21	3 22.9	21.4
282086 2000 QS_{39}	17.4	X	258.63588	197.71216	153.82591	3.04062	0.2548410	0.27190485	2.3597070	21	4 19.8	21.1
282087 2000 QW_{59}	17.5	X	157.69760	204.77658	140.83916	2.60760	0.1922629	0.25793710	2.4441443	21	1 17.9	21.0
282088 2000 QU_{84}	17.3	X	202.93797	62.05909	262.53177	3.98544	0.2292103	0.26230988	2.4169052	21	2 1.3	21.5
282089 2000 QK_{134}	17.0	X	285.93317	2.17439	341.64134	6.03111	0.2000601	0.27511394	2.3413211	21	5 11.4	20.2
282090 2000 QE_{143}	15.5	X	306.86126	180.49339	170.48530	20.93062	0.1701130	0.18181323	3.0859276	21	7 1.2	19.9
282091 2000 QL_{158}	16.1	X	266.23843	52.94637	294.45760	9.38142	0.3202016	0.17845552	3.1245158	21	4 16.2	21.4
282092 2000 QM_{229}	17.2	X	259.27672	284.72738	21.90907	2.66659	0.2426048	0.26765190	2.3846382	21	2 24.8	21.2
282093 2000 RR_{75}	16.7	X	233.92753	97.40160	205.00035	12.54261	0.2976453	0.26296919	2.4128638	21	1 26.4	21.3
282094 2000 RN_{90}	16.2	X	341.21696	16.50351	323.78974	10.24588	0.1441018	0.23219337	2.6216186	21	8 22.9	18.9
282095 2000 SP_{20}	16.2	X	148.54322	130.34416	247.39467	7.47150	0.1440241	0.25685248	2.4510201	21	2 9.5	19.8
282096 2000 SG_{26}	15.5	X	273.46904	150.25637	210.12237	14.02417	0.2931615	0.17968663	3.1102278	21	5 15.8	20.5
282097 2000 ST_{63}	16.9	X	231.89418	138.20248	201.60286	3.41960	0.2112875	0.26557477	2.3970560	21	3 14.6	20.9
282098 2000 SN_{78}	17.0	X	212.35392	205.31001	152.43246	4.19086	0.2245848	0.26443788	2.4039214	21	3 22.3	21.0
282099 2000 SH_{96}	14.9	X	266.16159	2.57354	291.15725	12.07114	0.0884687	0.17091220	3.2157875	21	3 6.1	19.9
282100 2000 SP_{134}	16.9	X	111.20248	23.38318	285.81690	7.33883	0.2334306	0.29507263	2.2345158	21	—	—
282101 2000 SE_{225}	17.0	X	150.74647	227.57969	158.80592	1.88589	0.1932091	0.25830977	2.4417929	21	3 2.9	20.7
282102 2000 SL_{286}	16.7	X	177.42004	113.32649	260.63158	4.91545	0.1664511	0.26025504	2.4296103	21	3 7.9	20.5
282103 2000 TV_{17}	16.5	X	89.20777	333.81112	18.19855	6.88613	0.1224406	0.24570388	2.5246124	21	—	—
282104 2000 TN_{60}	16.0	X	132.59538	265.03096	148.08038	14.07555	0.1843187	0.25811209	2.4430395	21	3 19.9	19.5
282105 2000 UN_{95}	16.7	X	104.53171	144.05333	262.51389	3.90223	0.1395893	0.25259484	2.4784856	21	1 25.2	19.7
282106 2000 UE_{97}	16.4	X	139.86492	98.31072	287.79711	3.61602	0.1997888	0.25521623	2.4614850	21	2 19.4	20.0
282107 2000 VW_6	16.8	X	52.34236	203.75890	194.52579	3.06437	0.1393126	0.24517639	2.5282321	21	—	—
282108 2000 WH_{36}	16.1	X	147.01358	266.23298	117.15794	8.08681	0.2261469	0.25429826	2.4674051	21	3 1.6	19.9
282109 2000 WL_{67}	17.3	X	356.59457	189.98748	240.52709	20.41599	0.0817611	0.38227773	1.8802548	21	—	—
282110 2000 WJ_{79}	16.6	X	187.65114	189.33669	169.34277	5.01613	0.2062234	0.25825255	2.4421536	21	3 2.5	20.6
282111 2000 WW_{123}	16.3	X	31.35970	159.66141	239.92260	6.01909	0.1103728	0.24184404	2.5514034	21	—	—
282112 2000 WT_{160}	16.5	X	134.00664	258.60711	132.39729	7.10144	0.1250314	0.25402280	2.4691885	21	2 11.5	19.8
282113 2000 WY_{174}	16.2	X	116.48244	291.98745	116.60049	11.81037	0.2581183	0.25351649	2.4724750	21	3 7.3	19.8
282114 2000 WL_{177}	15.7	X	142.05958	153.49407	170.55370	2.61635	0.1257718	0.24724109	2.5141371	21	—	—
282115 2000 YS_{97}	16.0	X	22.56683	298.15654	103.19375	4.78453	0.2529435	0.23675654	2.5878239	21	—	—
282116 2001 AF_8	15.8	X	293.62725	328.26219	120.01170	15.07892	0.1338390	0.22974355	2.6402223	21	11 7.6	19.1
282117 2001 AN_{10}	17.1	X	59.21625	344.89350	107.06726	7.43529	0.0990523	0.29479261	2.2359306	21	—	—
282118 2001 AT_{37}	15.2	X	18.25881	87.54365	83.25796	14.77968	0.1820247	0.19871281	2.9083866	21	3 10.2	18.5
282119 2001 BN_{57}	15.8	X	98.58102	216.41785	164.94067	12.41897	0.2060331	0.24370359	2.5384081	21	—	—
282120 2001 CU_{41}	15.3	X	340.47654	236.59818	134.25025	19.24441	0.2076566	0.17722835	3.1389224	21	10 3.7	18.9
282121 2001 DW_6	15.4	X	292.77022	330.29157	150.36920	10.40027	0.2022901	0.18340556	3.0680402	21	11 25.9	19.2
282122 2001 DD_8	16.4	X	6.14606	225.32350	150.13558	9.69591	0.1081066	0.22573426	2.6713926	21	11 27.2	19.7
282123 2001 DU_{39}	16.1	X	149.74314	23.31992	139.83261	10.41555	0.1468605	0.21494454	2.7600594	21	8 21.6	20.5
282124 2001 FV_{186}	16.0	X	188.50383	318.13226	157.41980	13.83633	0.1504939	0.21331602	2.7740891	21	7 27.6	20.6
282125 2001 HP_6	17.9	X	12.95327	44.61120	131.25488	2.72695	0.2230651	0.29069389	2.2568990	21	1 23.1	19.5
282126 2001 MV_1	16.4	X	302.92104	65.57232	259.43870	23.30758	0.3047166	0.28888458	2.2663126	21	4 15.6	20.0
282127 2001 MD_{18}	16.3	X	21.69386	138.73527	122.83081	24.58756	0.1896494	0.29585012	2.2305992	21	7 24.6	17.9
282128 2001 NT_{12}	17.3	X	27.52484	125.73947	172.34213	8.19781	0.2477273	0.29987126	2.2106135	21	10 20.7	19.4
282129 2001 NG_{17}	15.7	X	248.09808	45.54167	330.22266	14.93177	0.1470986	0.23982900	2.5656747	21	5 16.6	19.9
282130 2001 ON_{55}	17.1	X	303.74703	50.09211	241.75221	19.30939	0.0833772	0.38354672	1.8761053	21	3 20.6	19.5
282131 2001 OW_{87}	16.2	X	184.29963	151.93464	229.01557	16.93905	0.1794714	0.22898751	2.6460306	21	3 24.4	20.9
282132 2001 PM_{39}	16.9	X	217.70146	297.98832	76.43575	8.01219	0.1807661	0.28219903	2.3019667	21	4 18.4	20.6
282133 2001 QL_{48}	16.6	X	13.50913	254.78651	32.70910	0.94152	0.3341597	0.19834328	2.9119979	21	8 30.7	18.8
282134 2001 QU_{114}	17.3	X	326.69642	60.71896	261.09927	4.24042	0.1750265	0.29137420	2.2533846	21	6 21.5	19.1
282135 2001 QJ_{132}	16.9	X	341.33567	39.35950	280.60819	5.51503	0.1513463	0.29347147	2.2426360	21	7 24.9	18.6
282136 2001 QX_{133}	17.3	X	335.90916	41.23164	289.82490	5.77543	0.2483361	0.29387807	2.2405670	21	7 21.2	18.2
282137 2001 QE_{153}	17.9	X	23.97418	164.76943	152.27451	3.07183	0.2535859	0.30052968	2.2073836	21	11 12.4	20.0
282138 2001 QN_{153}	16.4	X	210.75295	148.18842	283.14998	23.39738	0.2522156	0.28671179	2.2777480	21	6 20.5	20.3
282139 2001 QL_{157}	15.9	X	245.90570	172.46892	180.33404	6.07615	0.2477015	0.18541208	3.0458653	21	4 16.8	20.9
282140 2001 QK_{166}	15.9	X	336.66224	164.51397	132.32536	11.32496	0.1891998	0.19258566	2.9697513	21	6 7.6	19.3
282141 2001 QQ_{170}	18.3	X	18.98649	139.14354	171.76321	1.64134	0.3056380	0.29866135	2.2165798	21	11 3.5	20.0
282142 2001 QG_{268}	15.4	X	200.59089	214.38416	177.94573	10.75812	0.2649099	0.18178998	3.0861906	21	4 29.7	20.9
282143 2001 QT_{327}	15.1	X	116.48985	187.10805	225.00877	13.25899	0.1084405	0.17247955	3.1962763	21	2 22.4	20.0
282144 2001 QH_{330}	17.4	X	323.71437	295.92081	44.43176	6.27910	0.2265586	0.29281077	2.2460083	21	7 9.1	19.0
282145 2001 QJ_{333}	15.4	X	247.59467	256.47225	90.99480	15.50573	0.2570923	0.18333831	3.0687904	21	4 17.8	20.8
282146 2001 RJ_3	15.4	X	253.32568	77.14162	262.14516	9.49855	0.1919239	0.18447894	3.0561279	21	4 6.8	20.4
282147 2001 RV_{39}	17.6	X	302.07431	83.35977	261.55609	6.90868	0.1790447	0.28984691	2.2612935	21	6 10.9	19.9
282148 2001 RC_{54}	17.5	X	74.92044	274.93673	167.91886	22.43034	0.1092862	0.36897369	1.9251849	21	—	—
282149 2001 RN_{58}	17.2	X	296.00502	171.42945	121.94590	3.80541	0.1690612	0.28358048	2.2944846	21	3 23.3	20.1
282150 2001 RE_{72}	16.8	X	308.95780	7.65458	333.88275	5.55442	0.2489100	0.28938720	2.2636877	21	6 3.2	19.3
282151 2001 RF_{82}	17.8	X	278.44019	71.73100	257.46368	5.09520	0.2210068	0.28545535	2.2844269	21	4 9.1	21.1
282152 2001 RF_{115}	15.7	X	274.39032	153.20893	164.28867	10.97107	0.1323708	0.18410441	3.0602712	21	4 14.8	20.3
282153 2001 SF_5	17.3	X	130.26106	181.71061	247.13048	20.03003	0.0839433	0.37469911	1.9055234	21	2 18.4	19.8
282154 2001 SU_{12}	16.8	X	207.56633	217.57592	173.07681	11.56251	0.1795962	0.28121864	2.3073137	21	4 29.4	20.6
282155 2001 SL_{17}	16.3	X	247.51726	207.39184	145.34349	1.54842	0.2727502	0.18413580	3.0599234	21	4 15.9	21.6
282156 2001 SS_{49}	17.4	X	199.82276	207.35282	176.71274	21.75945	0.0860938	0.37819177	1.8937733	21	4 1.7	19.5
282157 2001 SS_{94}	17.1	X	256.55766	153.14568	222.48822	5.99220	0.1359201	0.28632688	2.2797889	21	5 30.6	20.1
282158 2001 SY_{101}	17.1	X	342.50592	91.06774	190.40717	6.25865	0.1342283	0.28764492	2.2728193	21	5 25.8	19.2
282159 2001 SV_{110}	14.5	X	260.61967	105.27446	261.61157	10.77209	0.2529181	0.18301139	3.0724439	21	5 13.8	19.6
282160 2001 SG_{112}	18.0	X	346.43062	75.04911	158.01518	7.64478	0.0548230	0.38105781	1.8842657	21	3 11.0	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282161 2001 SO_{112}	17.3	X	50.21084	329.63032	173.02047	22.45428	0.0607127	0.37596392	1.9012473	21	1 31.9	19.3
282162 2001 SC_{167}	15.5	X	219.94922	168.49317	182.64076	9.41186	0.1038610	0.17993355	3.1073818	21	3 30.9	20.3
282163 2001 SK_{207}	18.1	X	343.51894	126.92357	178.48574	0.32246	0.2130467	0.29156121	2.2524209	21	6 28.7	19.2
282164 2001 SA_{223}	15.4	X	233.00337	126.05436	180.67116	10.57051	0.0214465	0.17356250	3.1829669	21	2 22.9	20.1
282165 2001 SF_{227}	16.3	X	15.44758	164.27245	170.83451	2.68336	0.1889300	0.19817915	2.9136055	21	10 22.1	19.6
282166 2001 SU_{229}	16.0	X	245.67510	259.63323	142.22788	2.48227	0.1802920	0.18623908	3.0368419	21	6 19.7	20.7
282167 2001 ST_{275}	18.3	X	330.57696	106.09790	171.35308	2.93583	0.2004112	0.28571565	2.2830392	21	4 14.2	20.5
282168 2001 SJ_{280}	15.5	X	249.58976	152.49221	192.66209	3.74972	0.2867957	0.18224164	3.0810894	21	4 7.3	20.6
282169 2001 SV_{317}	16.4	X	121.22253	158.76189	174.48074	12.95365	0.1340123	0.21264567	2.7799161	21	—	—
282170 2001 SB_{323}	17.7	X	308.25596	87.30538	251.50905	6.13615	0.1411398	0.28928900	2.2641999	21	6 18.9	19.9
282171 2001 ST_{345}	17.2	X	335.86300	57.44184	257.71291	7.05688	0.2564617	0.29198720	2.2502296	21	6 17.9	18.2
282172 2001 SW_{353}	15.1	X	305.87830	80.52339	314.20474	13.86999	0.3291714	0.19099245	2.9862438	21	8 2.9	18.6
282173 2001 SX_{353}	14.8	X	105.96900	189.16601	247.02181	24.09963	0.0719591	0.17068486	3.2186423	21	2 28.3	19.9
282174 2001 TP_{7}	17.2	X	268.64522	103.94514	208.45970	21.63333	0.0876478	0.37787146	1.8948434	21	3 5.9	19.9
282175 2001 TC_{13}	17.5	X	90.15063	260.34214	195.14803	23.59182	0.1213929	0.37116138	1.9176125	21	2 3.1	19.6
282176 2001 TR_{21}	16.7	X	298.97656	208.62929	117.44768	5.85609	0.1643259	0.28620395	2.2804417	21	5 13.5	19.4
282177 2001 TZ_{23}	16.9	X	255.16019	136.02245	218.68746	10.53236	0.2243486	0.28334260	2.2957687	21	4 20.8	20.4
282178 2001 TJ_{25}	17.1	X	225.15781	113.59740	228.82117	6.22244	0.1331362	0.27693129	2.3310667	21	3 11.1	20.7
282179 2001 TK_{46}	14.9	X	198.03475	287.78960	125.32795	21.54800	0.2129139	0.17969988	3.1100750	21	5 27.0	20.6
282180 2001 TX_{48}	17.4	X	158.07600	185.51839	285.45207	18.20340	0.0481586	0.38532663	1.8703234	21	6 16.4	19.3
282181 2001 TN_{76}	16.4	X	317.58939	150.84284	196.81091	14.11087	0.3937364	0.19184652	2.9773743	21	6 6.7	20.0
282182 2001 TZ_{86}	15.6	X	197.55109	157.37149	207.59021	15.37609	0.0782968	0.17615248	3.1516903	21	3 23.2	20.6
282183 2001 TJ_{88}	15.6	X	175.80299	165.21298	209.96753	14.56486	0.1804135	0.17461369	3.1701795	21	3 16.7	21.1
282184 2001 TV_{111}	16.6	X	292.23368	82.53760	250.04052	4.79911	0.2077627	0.28482125	2.2878162	21	5 3.3	19.6
282185 2001 TL_{175}	15.4	X	301.25652	66.38993	202.71435	17.41343	0.1697776	0.18072287	3.0983274	21	3 7.0	19.9
282186 2001 TG_{180}	15.2	X	218.93960	149.75973	248.51680	8.80318	0.0780393	0.18165594	3.0877086	21	5 27.1	19.7
282187 2001 TZ_{180}	17.6	X	248.88279	111.64064	220.77904	6.91064	0.1979638	0.27936635	2.3175013	21	3 18.0	21.3
282188 2001 TS_{181}	17.6	X	354.67950	66.10869	282.62089	3.48046	0.1921903	0.29534448	2.2331444	21	10 19.1	19.2
282189 2001 TE_{188}	16.0	X	98.13335	207.41881	236.48264	8.33781	0.1497209	0.21824999	2.7321208	21	3 11.7	19.7
282190 2001 TG_{198}	17.9	X	249.32549	255.65886	92.34887	4.05522	0.1931125	0.28237496	2.3010105	21	4 11.7	21.4
282191 2001 TU_{213}	16.6	X	171.67807	122.23580	329.16277	11.13227	0.1568886	0.23094834	2.6310321	21	6 12.0	21.0
282192 2001 TB_{229}	13.0	X	243.05834	82.96107	300.95073	14.09962	0.0867847	0.08255950	5.2234568	21	6 7.1	20.2
282193 2001 TR_{239}	17.0	X	195.45586	219.65937	121.92657	7.53815	0.1042646	0.27208059	2.3586908	21	2 11.9	20.4
282194 2001 TR_{243}	15.6	X	134.10575	210.68423	199.99075	9.05862	0.0885786	0.17492604	3.1664046	21	3 12.9	20.3
282195 2001 UD_{7}	17.3	X	335.52368	116.94559	198.93122	6.40476	0.3195314	0.29006259	2.2601724	21	6 5.6	18.4
282196 2001 UV_{29}	15.9	X	160.95636	316.96091	45.01727	13.09926	0.2255139	0.22068674	2.7119722	21	2 24.1	20.6
282197 2001 UE_{51}	17.1	X	250.31713	187.40045	188.25203	10.57786	0.2528281	0.28253123	2.3001619	21	5 13.6	20.9
282198 2001 UM_{166}	12.6	X	3.71786	357.60430	256.14108	7.10776	0.0467674	0.08081827	5.2982164	21	6 6.0	19.2
282199 2001 UA_{184}	17.3	X	161.38616	201.22398	196.08952	23.42017	0.0728215	0.37240980	1.9133246	21	2 21.9	19.8
282200 2001 UX_{188}	15.8	X	195.09361	149.77430	198.01559	10.68837	0.1014713	0.17393942	3.1783670	21	2 28.7	20.9
282201 2001 UE_{218}	15.3	X	193.32642	167.91400	241.45233	8.92698	0.0825689	0.17860320	3.1227932	21	5 13.3	20.1
282202 2001 VX_{20}	16.6	X	192.96920	113.96063	247.49255	5.17254	0.1456065	0.27244599	2.3565813	21	3 4.6	20.4
282203 2001 VG_{51}	15.3	X	158.37400	149.10127	291.75873	9.29119	0.2108315	0.17657119	3.1467059	21	5 20.8	20.7
282204 2001 VC_{53}	15.5	X	239.66151	101.11382	270.54676	9.83037	0.1689468	0.18134436	3.0912445	21	5 6.9	20.5
282205 2001 VG_{54}	15.1	X	238.77565	100.87850	267.37576	7.94545	0.0998568	0.17996218	3.1070522	21	5 8.2	19.8
282206 2001 VN_{61}	17.3	X	230.31143	125.14167	268.40786	6.69817	0.1119042	0.28107627	2.3080928	21	5 26.4	20.4
282207 2001 VS_{76}	17.5	X	348.42340	298.51881	242.60983	18.28094	0.0594189	0.36775932	1.9294207	21	—	—
282208 2001 VY_{95}	15.7	X	216.36824	252.18146	111.56115	12.76908	0.2988981	0.17741202	3.1367557	21	4 10.9	21.5
282209 2001 VJ_{109}	16.5	X	208.58323	79.64067	55.03976	26.83040	0.3132905	0.23634815	2.5908041	21	9 17.7	21.7
282210 2001 WS_{17}	16.6	X	105.72395	64.63667	11.31296	4.70866	0.0959023	0.21945026	2.7221496	21	3 8.1	20.1
282211 2001 WX_{59}	16.6	X	239.60614	46.29185	236.74797	6.29914	0.0934303	0.26736528	2.3863421	21	1 13.5	20.2
282212 2001 XG_{26}	15.5	X	228.59940	286.17620	100.17707	23.93271	0.2521515	0.27601326	2.3362326	21	5 16.5	19.8
282213 2001 XT_{73}	15.1	X	232.78394	199.93804	200.64431	10.09928	0.0738154	0.18012185	3.1052158	21	6 14.9	19.9
282214 2001 XG_{78}	16.8	X	134.63268	292.26856	100.02416	4.83206	0.1489013	0.26661141	2.3908384	21	2 16.1	19.9
282215 2001 XY_{78}	15.5	X	86.42723	274.41988	83.72440	12.63327	0.0724542	0.20441607	2.8540354	21	—	—
282216 2001 XU_{103}	17.2	X	155.89999	256.40487	97.99421	25.37858	0.1336807	0.36270735	1.9472953	21	—	—
282217 2001 XE_{112}	16.6	X	57.70119	318.83892	106.69371	7.05942	0.0990994	0.25858461	2.4400624	21	—	—
282218 2001 XS_{126}	16.2	X	204.52155	205.91436	189.95553	1.93321	0.1864976	0.17694303	3.1422959	21	5 6.6	21.3
282219 2001 XN_{130}	17.4	X	176.28865	243.71972	128.56128	2.02396	0.1847410	0.27054274	2.3676207	21	3 7.9	20.9
282220 2001 XT_{218}	17.1	X	276.02920	112.35460	246.49631	4.23787	0.1594995	0.28399281	2.2922632	21	5 27.8	19.8
282221 2001 XE_{262}	17.5	X	267.03113	227.53827	127.17691	2.85902	0.2427086	0.28144501	2.3060764	21	5 2.4	20.9
282222 2001 YO_{1}	17.2	X	328.01396	80.46668	81.50408	23.02242	0.0463938	0.35871645	1.9617117	21	—	—
282223 2001 YK_{78}	16.8	X	285.96831	99.02461	298.94997	4.91152	0.1648318	0.28547653	2.2843139	21	8 7.1	19.1
282224 2001 YK_{155}	15.4	X	249.33556	90.62002	299.20200	19.63431	0.2545311	0.18141163	3.0904802	21	5 31.9	20.8
282225 2001 YB_{162}	16.5	X	134.74067	349.61043	114.93439	14.81574	0.1939124	0.22341932	2.6898139	21	5 30.9	20.9
282226 2002 AU_{17}	17.0	X	279.23310	83.54495	290.65353	7.03208	0.3643129	0.28342593	2.2953187	21	5 24.1	20.6
282227 2002 AS_{20}	17.0	X	138.37120	311.95212	121.41619	25.24556	0.0784175	0.36729912	1.9310319	21	4 4.2	19.7
282228 2002 AG_{22}	16.0	X	192.99846	42.49438	131.17967	33.07444	0.2083195	0.23148131	2.6269921	21	10 22.6	21.0
282229 2002 AZ_{65}	16.9	X	257.44100	41.09228	127.75023	8.37889	0.0863744	0.24493612	2.5298852	21	—	—
282230 2002 AM_{143}	16.7	X	214.84140	11.15470	189.61510	1.68598	0.1340604	0.24291058	2.5439296	21	12 12.9	20.1
282231 2002 BS_{24}	16.0	X	214.67870	85.87108	106.65939	13.86301	0.2605958	0.23745824	2.5827234	21	11 22.1	20.3
282232 2002 CC_{34}	16.4	X	136.27898	334.42912	82.89454	5.50788	0.2082144	0.21544851	2.7557536	21	4 4.8	20.8
282233 2002 CA_{129}	16.1	X	276.96503	359.31681	152.33238	16.87970	0.0892105	0.24336116	2.5407886	21	—	—
282234 2002 CY_{188}	16.7	X	282.95077	339.06408	123.34219	6.16683	0.1059446	0.23891956	2.5721813	21	11 10.8	19.8
282235 2002 CF_{210}	16.5	X	194.39522	73.13655	140.86510	3.85813	0.0519189	0.23873645	2.5734964	21	12 15.0	20.0
282236 2002 CJ_{223}	16.3	X	169.67032	94.64544	152.88514	2.97189	0.0903152	0.23964059	2.5670193	21	12 25.8	20.0
282237 2002 CR_{279}	16.5	X	220.04216	76.06022	143.73164	14.92177	0.0614361	0.24438715	2.5336725	21	—	—
282238 2002 CN_{281}	15.2	X	274.39723	34.52781	312.64863	9.24880	0.1338616	0.17180650	3.2046184	21	5 17.2	20.0
282239 2002 CP_{304}	16.4	X	219.35558	340.35242	186.59154	11.75314	0.1893183	0.23675267	2.5878522	21	10 31.2	20.4
282240 2002 CW_{309}	16.5	X	261.58707	352.16498	164.81415	6.80180	0.0887654	0.24260258	2.5460823	21	12 23.0	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282241 2002 CE_{314}	17.1	X	227.34380	333.24598	188.56840	4.76713	0.1433670	0.23774912	2.5806163	21	11 6.9	20.7
282242 2002 DM_{8}	16.7	X	274.31489	15.72399	99.46294	15.52147	0.2035407	0.24013236	2.5635134	21	11 4.9	20.0
282243 2002 ES_{79}	17.0	X	209.39527	327.85415	201.15699	7.63546	0.1599236	0.23463642	2.6033892	21	10 25.1	20.8
282244 2002 EZ_{160}	16.0	X	228.50196	74.55716	129.17695	12.82821	0.0849550	0.23842588	2.5757307	21	—	—
282245 2002 GJ_{6}	16.6	X	163.87569	61.97854	170.66141	11.72562	0.2044245	0.23095823	2.6309570	21	11 28.7	21.2
282246 2002 GE_{11}	15.6	X	344.70199	174.65600	107.47349	17.53195	0.2169488	0.21066952	2.7972734	21	5 31.6	18.6
282247 2002 GO_{49}	16.0	X	206.73000	25.48698	210.55869	13.56069	0.1392234	0.24065723	2.5597847	21	—	—
282248 2002 GD_{61}	16.5	X	102.00383	117.51160	46.63769	5.20953	0.0430685	0.21501800	2.7594307	21	6 18.6	20.2
282249 2002 GA_{69}	15.2	X	66.06306	258.84760	18.52506	11.93385	0.0642338	0.17374910	3.1806876	21	9 30.6	19.7
282250 2002 GW_{115}	16.5	X	169.55761	97.57120	169.42231	9.12165	0.0922853	0.23715791	2.5849033	21	—	—
282251 2002 GH_{160}	16.3	X	267.27193	338.24035	141.52398	4.96105	0.1101312	0.23460988	2.6035856	21	11 8.8	19.6
282252 2002 GJ_{183}	15.3	X	337.72372	1.82182	42.11111	6.61484	0.1201566	0.17999629	3.1066597	21	11 6.5	18.9
282253 2002 GM_{183}	16.4	X	146.52275	346.77383	195.57581	9.64880	0.0711094	0.22275745	2.6951393	21	9 6.5	20.4
282254 2002 HP_{12}	16.1	X	135.33605	145.35841	99.40554	13.55095	0.3254773	0.22782173	2.6550495	21	11 23.1	21.2
282255 2002 JX_{49}	16.4	X	119.34581	55.47398	231.97186	12.28641	0.1681030	0.22913263	2.6449132	21	12 23.1	20.8
282256 2002 JH_{67}	15.9	X	98.24253	96.96114	219.11457	10.28063	0.2597000	0.22796437	2.6539418	21	—	—
282257 2002 JA_{75}	16.4	X	116.53248	38.64720	230.05775	12.62156	0.2208362	0.22631871	2.6667916	21	12 1.6	21.0
282258 2002 JQ_{90}	17.5	X	133.82852	253.77789	348.02127	1.82738	0.1688505	0.27782486	2.3260657	21	11 17.7	21.2
282259 2002 JZ_{98}	16.5	X	176.61530	160.72224	149.09485	16.85694	0.2127703	0.24178553	2.5518150	21	—	—
282260 2002 JT_{116}	16.3	X	158.62244	137.48445	112.06145	14.94752	0.2272636	0.23246714	2.6195599	21	12 13.5	20.9
282261 2002 JV_{116}	16.1	X	149.04786	160.88446	124.06066	16.00791	0.1813370	0.23553729	2.5967468	21	—	—
282262 2002 JK_{131}	16.4	X	73.98538	2.44899	214.60777	13.88585	0.1807143	0.21636694	2.7479497	21	8 7.9	20.5
282263 2002 JJ_{145}	16.0	X	122.11806	58.55221	244.18639	10.94799	0.1970271	0.23241408	2.6199586	21	—	—
282264 2002 JT_{149}	16.8	X	27.46752	36.04907	220.21579	9.81529	0.1956407	0.21141840	2.7906638	21	7 22.6	19.9
282265 2002 KP_{14}	16.0	X	135.85066	172.47099	121.01812	15.71785	0.1253039	0.23153889	2.6265565	21	—	—
282266 2002 LS_{18}	16.4	X	147.61462	80.95070	230.79631	4.83473	0.2835181	0.23245543	2.6196479	21	—	—
282267 2002 LY_{61}	16.1	X	59.39771	33.32672	295.29682	13.91686	0.1242812	0.22086146	2.7105417	21	12 8.7	20.1
282268 2002 NB_{4}	16.6	X	83.46450	55.54903	192.91830	11.63648	0.2060465	0.21737542	2.7394440	21	10 6.8	20.6
282269 2002 NQ_{17}	16.4	X	3.43413	219.14685	116.82388	18.58025	0.2806227	0.21129924	2.7917129	21	10 23.9	19.4
282270 2002 NP_{25}	16.0	X	33.72423	82.76779	268.65168	5.85460	0.2860662	0.21546892	2.7555796	21	12 27.9	19.6
282271 2002 NL_{66}	16.2	X	61.11763	162.56260	109.83075	10.54295	0.1739694	0.21405909	2.7676655	21	10 12.4	20.2
282272 2002 NT_{75}	15.7	X	40.70706	199.96462	226.31843	8.50945	0.1080350	0.17742099	3.1366500	21	—	—
282273 2002 NU_{76}	16.3	X	209.52328	43.10825	197.86838	8.29106	0.1432134	0.23009306	2.6375480	21	—	—
282274 2002 OB_{6}	16.3	X	16.51047	138.80301	184.00482	8.93268	0.1631028	0.21191690	2.7862858	21	10 5.8	19.2
282275 2002 OM_{12}	16.0	X	13.66370	91.49164	240.19856	16.50423	0.2828238	0.21114980	2.7930300	21	10 28.2	18.9
282276 2002 OQ_{14}	16.1	X	0.52391	101.07502	274.74174	11.82461	0.2172051	0.21376789	2.7701784	21	11 25.1	19.0
282277 2002 OR_{15}	16.1	X	38.74508	112.64278	203.31885	8.47899	0.1469058	0.21414663	2.7669112	21	10 29.9	19.6
282278 2002 OB_{16}	15.7	X	53.85709	190.31945	140.70209	15.18774	0.1661380	0.21962802	2.7206805	21	12 12.9	19.8
282279 2002 OH_{18}	15.8	X	53.21820	99.13374	281.95088	13.59090	0.1396962	0.22321690	2.6914397	21	—	—
282280 2002 OQ_{21}	16.4	X	100.78245	107.29748	135.53716	8.46609	0.2777118	0.21701841	2.7424475	21	10 25.6	21.1
282281 2002 PF_{16}	16.3	X	68.69191	119.57323	141.18726	15.39267	0.1696316	0.21347133	2.7727434	21	10 5.5	20.4
282282 2002 PK_{38}	16.3	X	46.28138	177.40696	136.27057	6.94878	0.0360601	0.21549405	2.7553654	21	10 23.6	20.0
282283 2002 PJ_{41}	16.5	X	25.56424	79.65418	296.73644	7.23252	0.3290166	0.21426519	2.7658904	21	—	—
282284 2002 PW_{63}	16.5	X	92.50399	140.84544	165.72557	11.74066	0.2203748	0.22147824	2.7055071	21	12 25.4	21.1
282285 2002 PS_{69}	15.8	X	3.08781	102.75511	291.57338	12.39992	0.2173278	0.21441401	2.7646104	21	12 27.4	18.7
282286 2002 PM_{83}	15.8	X	60.73002	88.45432	327.32548	6.92626	0.3229697	0.22493922	2.6776836	21	—	—
282287 2002 PX_{89}	15.4	X	19.00563	78.00603	261.56724	10.87018	0.1541681	0.21212010	2.7845061	21	10 28.4	18.8
282288 2002 PS_{109}	16.1	X	30.54715	148.47538	179.96884	17.65553	0.1517109	0.21314520	2.7755710	21	11 6.4	19.7
282289 2002 PV_{123}	16.4	X	74.92495	99.43307	239.99256	6.52397	0.2026941	0.22107731	2.7087771	21	—	—
282290 2002 PU_{128}	15.8	X	71.53273	254.68620	77.36183	10.06351	0.1789152	0.21866356	2.7286748	21	—	—
282291 2002 PF_{131}	16.3	X	69.10645	178.29187	141.66805	7.20421	0.0456996	0.21939827	2.7225796	21	11 30.2	20.2
282292 2002 PK_{170}	16.1	X	58.67147	104.80864	209.57655	14.10368	0.1413062	0.21730421	2.7400425	21	11 22.8	20.0
282293 2002 QP	15.5	X	10.25064	75.28490	284.50660	7.68460	0.1710996	0.21161144	2.7889665	21	11 13.2	18.7
282294 2002 QN_{5}	15.9	X	22.40808	112.96552	242.37480	6.75337	0.0878025	0.21468273	2.7623030	21	11 17.6	19.4
282295 2002 QB_{14}	15.7	X	357.59422	138.78773	256.62289	8.13945	0.1729597	0.21513958	2.7583910	21	12 12.4	18.4
282296 2002 QF_{38}	16.2	X	275.67914	188.23712	171.39550	11.49412	0.1072403	0.19810181	2.9143637	21	6 9.9	20.5
282297 2002 QW_{79}	16.0	X	7.28522	266.16309	133.33673	17.36417	0.2101031	0.21940147	2.7225531	21	—	—
282298 2002 QR_{82}	17.0	X	81.89782	69.12464	180.45671	7.83161	0.1775738	0.21205771	2.7850522	21	10 3.1	20.9
282299 2002 QA_{119}	16.5	X	355.26092	155.19148	133.88732	10.47896	0.0643975	0.20400789	2.8578410	21	7 5.9	20.1
282300 2002 QT_{127}	16.3	X	17.76122	246.09591	99.41576	3.70286	0.0931498	0.21326170	2.7745601	21	10 31.1	19.7
282301 2002 RT_{4}	16.9	X	76.58933	135.14335	233.37208	10.08840	0.1498332	0.22301213	2.6930870	21	—	—
282302 2002 RA_{118}	15.6	X	62.78832	347.78406	282.29665	11.39332	0.1397966	0.20876434	2.8142662	21	9 23.8	19.7
282303 2002 RN_{255}	15.8	X	286.35473	181.97704	265.91663	12.87002	0.1570000	0.21242659	2.7818271	21	10 6.7	19.5
282304 2002 SL_{46}	16.5	X	75.58407	174.95753	183.05173	1.48470	0.2310217	0.21926188	2.7237085	21	—	—
282305 2002 SQ_{51}	16.5	X	63.52085	214.65287	152.48812	5.02782	0.1329324	0.21988139	2.7185901	21	—	—
282306 2002 TC_{6}	15.9	X	56.98759	159.29538	170.48929	8.64769	0.2964349	0.21446506	2.7641717	21	12 27.3	20.3
282307 2002 TX_{12}	16.5	X	354.83927	276.89516	98.12014	3.77188	0.2089161	0.21035623	2.8000501	21	11 12.5	19.1
282308 2002 TH_{26}	17.8	X	300.77885	197.89589	181.20790	6.10561	0.1536465	0.30669512	2.1777004	21	8 5.9	19.7
282309 2002 TY_{71}	15.4	X	178.89887	155.65668	254.36370	8.44118	0.1242525	0.18771932	3.0208564	21	4 28.1	20.2
282310 2002 TA_{82}	16.5	X	328.93965	284.96981	115.35850	6.74588	0.1541789	0.26152296	2.4217510	21	11 7.3	18.7
282311 2002 TW_{90}	16.2	X	50.76463	117.95658	220.76703	9.69498	0.2847851	0.21432664	2.7653617	21	12 29.8	20.5
282312 2002 TP_{95}	15.7	X	36.86965	139.08393	255.45580	8.13568	0.1400115	0.21821344	2.7324258	21	—	—
282313 2002 TO_{112}	15.8	X	62.46846	17.97975	267.20220	9.02781	0.2444333	0.21151346	2.7898276	21	10 31.6	20.0
282314 2002 TQ_{116}	15.3	X	343.44074	140.07716	281.32140	7.94594	0.2528143	0.21166844	2.7884657	21	12 28.4	17.7
282315 2002 TD_{132}	15.3	X	176.42440	208.81946	217.17628	8.54319	0.0141862	0.19119131	2.9841727	21	5 14.2	19.5
282316 2002 TG_{136}	16.1	X	105.72452	4.01613	307.06944	9.14642	0.1564736	0.21753659	2.7380908	21	—	—
282317 2002 TT_{138}	15.1	X	43.63764	99.43009	266.14383	7.28488	0.2667545	0.21505684	2.7590985	21	—	—
282318 2002 TS_{146}	16.1	X	318.35207	132.38903	211.91566	14.14411	0.1701424	0.20115763	2.8847734	21	7 8.5	19.8
282319 2002 TS_{159}	15.6	X	270.53580	214.46509	133.18469	11.67208	0.1190101	0.19339666	2.9614432	21	5 20.1	20.1
282320 2002 TW_{171}	15.6	X	351.34007	92.05615	233.72483	13.83573	0.1657336	0.20520619	2.8467047	21	8 12.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282321 2002 TB_{192}	16.0	X	359.93965	127.61269	263.27650	11.67357	0.1669665	0.21068483	2.7971378	21	12 8.5	19.1
282322 2002 TG_{193}	17.2	X	307.58990	352.54525	15.26140	5.38214	0.2125060	0.25571967	2.4582533	21	7 22.5	19.7
282323 2002 TN_{218}	16.2	X	26.49163	147.16001	249.38703	8.71440	0.2519211	0.21645139	2.7472349	21	—	—
282324 2002 TB_{231}	16.0	X	17.74538	255.77325	131.38239	9.92509	0.2215871	0.21525322	2.7574201	21	—	—
282325 2002 TM_{232}	15.6	X	48.18346	64.13231	252.70556	12.17789	0.2151874	0.21203732	2.7852308	21	11 21.4	19.5
282326 2002 TW_{313}	16.2	X	59.78007	356.59033	110.91536	9.99524	0.0397641	0.17732868	3.1377383	21	2 15.7	20.5
282327 2002 TB_{314}	15.5	X	5.43185	48.71087	131.72472	10.70470	0.0741359	0.17979292	3.1090019	21	3 3.3	19.5
282328 2002 TD_{315}	15.6	X	218.13088	211.82531	130.36685	11.97344	0.0667780	0.18325069	3.0697686	21	3 22.9	20.3
282329 2002 TP_{315}	15.7	X	179.92587	281.79399	114.03935	12.06019	0.1379773	0.18480811	3.0524979	21	4 19.8	20.8
282330 2002 TG_{384}	15.7	X	85.21914	285.76031	193.30835	9.67082	0.0564269	0.18197647	3.0840819	21	4 3.5	19.9
282331 2002 UK_{35}	15.4	X	123.94686	201.62605	229.22672	8.85877	0.0734563	0.18035931	3.1024897	21	3 22.1	20.0
282332 2002 UO_{42}	15.8	X	180.86853	223.80021	207.08575	10.39925	0.0113461	0.19087950	2.9874216	21	5 26.4	20.0
282333 2002 UX_{51}	16.9	X	51.66869	97.92019	268.27884	7.90084	0.2207999	0.21958236	2.7210577	21	—	—
282334 2002 UN_{59}	15.7	X	265.39211	247.60751	88.91819	10.88248	0.0885500	0.19050689	2.9913158	21	5 4.4	20.2
282335 2002 UV_{70}	15.5	X	204.29669	149.96926	221.22262	9.30225	0.0868552	0.18341320	3.0679551	21	4 6.5	20.2
282336 2002 VT	12.9	X	209.69860	139.16592	262.36928	9.15636	0.0423588	0.08322291	5.1956607	21	5 27.0	19.9
282337 2002 VC_{3}	15.8	X	240.11287	91.50256	263.83791	8.71513	0.1225833	0.19028073	2.9936856	21	4 19.8	20.5
282338 2002 VQ_{11}	16.7	X	270.84494	114.57971	245.43018	8.23673	0.1232765	0.29779198	2.2208917	21	5 27.3	19.2
282339 2002 VW_{93}	15.8	X	59.72496	193.93761	137.38821	8.83617	0.2869953	0.21357981	2.7718045	21	12 30.6	20.2
282340 2002 XM_{21}	15.4	X	238.24434	148.12867	270.50177	9.00764	0.1105637	0.19297768	2.9657281	21	7 9.4	19.8
282341 2002 XZ_{30}	15.4	X	220.24981	177.23578	257.46192	11.37937	0.0547944	0.19236058	2.9720674	21	7 13.5	19.9
282342 2002 XA_{33}	17.5	X	56.41255	56.43587	80.60440	3.00217	0.1495671	0.28077916	2.3097207	21	3 11.2	19.4
282343 2002 XB_{47}	16.6	X	261.15737	270.83215	114.85251	5.88998	0.2166171	0.29683088	2.2256831	21	6 8.9	19.7
282344 2002 XN_{117}	15.8	X	317.01650	227.89154	116.79007	10.83957	0.0876097	0.19627173	2.9324518	21	7 20.6	19.5
282345 2002 YE_{5}	15.5	X	81.71510	121.92132	77.59534	31.83016	0.2513688	0.23130856	2.6282999	21	8 18.7	20.0
282346 2002 YY_{32}	15.4	X	99.87609	227.44605	262.98858	9.07618	0.0661038	0.18056591	3.1001227	21	5 6.5	19.8
282347 2003 AZ_{22}	15.6	X	320.97091	251.03834	310.29655	21.36169	0.2994139	0.26983458	2.3717613	21	—	—
282348 2003 AF_{41}	17.8	X	281.89779	244.90374	131.33288	24.34011	0.0358516	0.39970260	1.8252040	21	7 25.3	19.0
282349 2003 BA_{56}	16.5	X	165.14829	278.91752	137.53896	6.84500	0.1745467	0.22960696	2.6412693	21	4 26.9	20.8
282350 2003 BW_{72}	14.8	X	104.25028	172.62528	296.74556	21.54086	0.0794670	0.17262268	3.1945093	21	4 8.2	19.8
282351 2003 DQ_{2}	17.2	X	319.00333	28.77048	151.14736	4.51373	0.0904028	0.26560433	2.3968781	21	—	—
282352 2003 FN_{75}	16.4	X	39.70647	299.20355	312.56604	12.25220	0.2287910	0.22953434	2.6418264	21	8 16.8	19.2
282353 2003 FS_{91}	16.3	X	198.50686	13.75088	114.14007	6.24814	0.2070834	0.23846344	2.5754602	21	8 22.7	20.6
282354 2003 FZ_{107}	16.6	X	124.71700	146.26895	117.51330	4.84564	0.2076543	0.24124477	2.5556269	21	12 4.1	20.8
282355 2003 FC_{124}	16.8	X	143.97121	192.43354	161.38710	6.47273	0.1356428	0.26466245	2.4025614	21	1 4.9	20.1
282356 2003 GE_{1}	16.1	X	348.60427	168.86348	15.89079	7.72379	0.1311048	0.21423472	2.7661526	21	1 30.3	19.5
282357 2003 HL_{1}	17.4	X	245.65248	248.53248	47.77506	3.80370	0.2090953	0.26198720	2.4188893	21	2 3.9	21.5
282358 2003 HK_{5}	17.2	X	269.86104	94.14336	159.09069	3.57637	0.1291798	0.26167039	2.4208414	21	1 7.4	20.7
282359 2003 HG_{16}	16.7	X	208.18001	186.86972	106.04276	6.89773	0.2501434	0.25480859	2.4641095	21	1 1.7	21.0
282360 2003 HR_{22}	17.3	X	285.83565	50.02510	182.49922	22.23547	0.0538759	0.36895755	1.9252410	21	—	—
282361 2003 KD_{19}	16.1	X	143.44564	191.98747	141.96521	12.93621	0.1320655	0.24512135	2.5286106	21	—	—
282362 2003 LS_{2}	15.6	X	171.33023	69.47173	214.64633	13.67525	0.2643602	0.24284264	2.5444041	21	—	—
282363 2003 MD_{2}	15.9	X	162.10639	202.45026	114.19940	8.61280	0.2114103	0.24496293	2.5297007	21	—	—
282364 2003 NR_{2}	17.3	X	258.55745	221.41662	109.21100	24.79665	0.0734687	0.37336801	1.9100496	21	4 11.8	20.2
282365 2003 NU_{11}	16.1	X	152.93414	139.52001	142.29681	12.13148	0.0334556	0.23929193	2.5695121	21	—	—
282366 2003 OO_{10}	15.9	X	146.43463	306.12263	316.78041	10.06397	0.1912738	0.23795776	2.5791076	21	12 19.6	20.4
282367 2003 OD_{11}	16.2	X	94.53114	156.80893	161.93975	34.36735	0.2345419	0.23481903	2.6020393	21	—	—
282368 2003 OA_{13}	15.8	X	197.09932	336.82415	302.57233	15.89423	0.1506942	0.24687522	2.5166204	21	—	—
282369 2003 OB_{19}	16.6	X	176.55294	48.96486	194.55315	12.07770	0.2360677	0.24053874	2.5606253	21	12 19.2	21.2
282370 2003 PR_{9}	15.5	X	88.18972	82.06598	248.37016	27.06882	0.2440745	0.23261949	2.6184160	21	—	—
282371 2003 PB_{13}	16.5	X	62.51085	163.07914	201.54014	12.29645	0.1509212	0.23445142	2.6047585	21	—	—
282372 2003 QN_{15}	16.6	X	106.23310	163.25557	186.33967	14.73880	0.1041006	0.23839142	2.5759789	21	—	—
282373 2003 QK_{16}	16.9	X	333.84105	110.23585	296.13681	6.78986	0.0865578	0.28149976	2.3057773	21	11 24.4	19.2
282374 2003 QW_{21}	16.2	X	29.64168	175.50714	176.66677	11.34895	0.1759623	0.22711367	2.6605649	21	12 10.6	19.8
282375 2003 QT_{33}	16.6	X	72.49810	206.68842	142.05501	6.03597	0.2589267	0.23381866	2.6094557	21	—	—
282376 2003 QH_{40}	17.3	X	157.89758	167.05615	160.43496	6.27249	0.2714070	0.24356457	2.5393738	21	1 5.7	21.5
282377 2003 QN_{60}	15.9	X	347.56757	248.14766	143.98418	11.84859	0.2647762	0.22262706	2.6961916	21	12 3.1	18.4
282378 2003 QQ_{63}	15.8	X	38.57330	218.83269	144.55177	10.85041	0.1359961	0.22784011	2.6549067	21	12 29.9	19.5
282379 2003 QU_{71}	16.5	X	124.73230	70.78714	297.58541	11.47713	0.2784742	0.24096297	2.5576190	21	1 24.9	20.2
282380 2003 QL_{86}	16.4	X	64.11079	146.33793	206.45152	12.78864	0.1076393	0.23371613	2.6102189	21	—	—
282381 2003 QS_{109}	16.3	X	148.19117	57.31820	239.38597	13.01082	0.1771839	0.23954567	2.5676974	21	—	—
282382 2003 RU_{22}	16.5	X	69.01679	246.18588	146.51312	14.15380	0.1746529	0.23703135	2.5858234	21	—	—
282383 2003 RU_{25}	15.9	X	127.21638	68.34505	240.22757	13.06271	0.1854580	0.23568388	2.5956699	21	—	—
282384 2003 SB_{11}	15.0	X	95.61520	311.45546	10.34903	9.03602	0.0778892	0.17530091	3.1618888	21	12 27.0	19.8
282385 2003 SU_{26}	16.9	X	82.24302	42.11302	251.86147	5.74957	0.0812750	0.28320242	2.2965262	21	11 26.8	19.9
282386 2003 SN_{35}	15.1	X	124.11345	298.10325	9.02761	11.28350	0.0521931	0.17767236	3.1336907	21	—	—
282387 2003 SC_{38}	15.3	X	27.10529	230.34385	248.31067	11.68574	0.1144610	0.18763311	3.0217816	21	1 9.7	19.0
282388 2003 SM_{81}	16.6	X	101.24329	68.67134	284.31333	10.97999	0.1177721	0.23658903	2.5890453	21	—	—
282389 2003 SA_{98}	16.7	X	177.95741	34.12968	316.26090	11.92493	0.1212217	0.24642245	2.5197021	21	2 8.4	20.4
282390 2003 SQ_{118}	17.0	X	298.72906	244.22136	136.82425	1.14471	0.0872471	0.21387035	2.7692936	21	8 12.2	20.5
282391 2003 SK_{131}	17.2	X	17.81029	142.84245	189.18325	3.12038	0.1636201	0.27503453	2.3417718	21	11 2.4	19.3
282392 2003 SX_{145}	16.1	X	6.45567	132.56204	231.03534	15.33998	0.1236410	0.22300777	2.6931221	21	11 10.3	19.2
282393 2003 SR_{194}	16.1	X	7.50049	147.47913	219.35972	10.47721	0.0870382	0.22206359	2.7007506	21	11 12.7	19.2
282394 2003 ST_{196}	16.2	X	12.33592	151.41163	212.64444	13.72084	0.1349113	0.22168211	2.7038481	21	11 22.7	19.4
282395 2003 SY_{214}	15.2	X	183.37138	11.11595	272.56025	27.94886	0.0323738	0.23880629	2.5729946	21	—	—
282396 2003 SA_{222}	16.4	X	159.08575	96.44117	190.63708	12.57150	0.2798836	0.23918537	2.5702753	21	—	—
282397 2003 SU_{257}	16.6	X	65.54992	218.66691	169.18432	8.82520	0.2160590	0.23356869	2.6113172	21	—	—
282398 2003 SM_{273}	16.7	X	122.60871	78.15577	327.74607	5.49929	0.3167308	0.24168756	2.5525045	21	3 13.6	20.7
282399 2003 SV_{294}	15.5	X	8.94909	144.94978	217.00754	28.50723	0.2164019	0.21923158	2.7239594	21	11 23.8	18.6
282400 2003 SQ_{303}	16.3	X	112.79822	71.75996	240.35168	10.65055	0.1408737	0.23144449	2.6272707	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282401 2003 SF_{305}	15.6	X	104.72655	303.89190	353.30289	13.53966	0.1489423	0.22743446	2.6580626	21	12 21.4	20.1
282402 2003 SA_{313}	16.2	X	86.32718	55.40980	210.02639	7.90757	0.0592703	0.22105523	2.7089575	21	10 13.1	19.8
282403 2003 SV_{320}	16.6	X	91.70572	185.26402	60.07593	2.01829	0.0752905	0.21867250	2.7286003	21	9 27.2	20.3
282404 2003 SH_{336}	16.1	X	60.79750	186.17346	99.97795	13.39405	0.1864781	0.21807565	2.7335767	21	11 1.4	20.1
282405 2003 TW_{13}	17.1	X	150.25662	117.81422	250.60550	18.49297	0.0886679	0.35699526	1.9680120	21	1 1.2	19.2
282406 2003 TR_{21}	15.8	X	9.55987	250.01424	122.61019	14.18624	0.2285072	0.22232022	2.6986718	21	12 14.6	18.9
282407 2003 TC_{56}	17.1	X	56.70711	224.12399	88.70403	5.29996	0.1305207	0.27858278	2.3218449	21	11 27.2	20.0
282408 2003 UW_{8}	16.0	X	76.04822	81.97975	235.33857	10.44310	0.2128619	0.22693264	2.6619797	21	12 23.1	20.2
282409 2003 UL_{11}	17.0	X	141.31741	105.90777	277.32261	18.19542	0.0806446	0.35529716	1.9742776	21	1 10.4	18.8
282410 2003 UX_{14}	16.4	X	126.77249	91.39791	219.69419	11.05920	0.2809254	0.23490326	2.6014172	21	—	—
282411 2003 UJ_{17}	16.3	X	34.01159	116.27202	249.99982	5.02620	0.0726253	0.22494051	2.6776734	21	12 17.7	19.8
282412 2003 UF_{62}	16.4	X	119.91725	200.76922	116.42304	8.63133	0.1909986	0.23373373	2.6100878	21	—	—
282413 2003 UQ_{144}	16.0	X	90.64713	98.60478	250.41483	11.08149	0.1745755	0.23056912	2.6339162	21	—	—
282414 2003 UQ_{179}	16.0	X	339.52182	203.26004	178.82237	6.77793	0.2302935	0.21836161	2.7311896	21	10 22.2	18.3
282415 2003 UK_{200}	16.1	X	323.28377	168.71322	203.29804	12.26633	0.1272723	0.21454167	2.7635137	21	8 31.4	19.5
282416 2003 UX_{202}	16.4	X	5.05697	133.53119	215.07053	11.66435	0.1381299	0.21854526	2.7296594	21	10 18.3	19.4
282417 2003 UA_{205}	15.5	X	21.51425	127.86085	244.98815	20.86693	0.0239200	0.22373139	2.6873121	21	12 2.5	18.9
282418 2003 UF_{213}	17.1	X	47.31582	258.89483	98.46091	2.37864	0.3229949	0.22638500	2.6662709	21	—	—
282419 2003 UX_{223}	16.8	X	132.37650	355.22833	12.10594	4.73935	0.3375229	0.23970583	2.5665535	21	2 9.2	20.8
282420 2003 UB_{251}	16.2	X	53.44097	130.04958	225.69323	25.24677	0.2634056	0.22545636	2.6735874	21	—	—
282421 2003 UQ_{274}	15.9	X	52.53524	127.71409	232.24507	8.22280	0.0993957	0.22705551	2.6610193	21	—	—
282422 2003 UF_{322}	16.5	X	241.10732	217.30989	202.81002	7.04860	0.0423851	0.20946277	2.8080068	21	7 21.9	20.6
282423 2003 UZ_{323}	16.2	X	48.83980	179.27579	247.86300	14.71421	0.1880321	0.24148877	2.5539051	21	—	—
282424 2003 UM_{362}	16.2	X	9.65608	185.51293	163.08508	9.45449	0.1018897	0.21956366	2.7212122	21	10 26.1	19.5
282425 2003 UQ_{374}	17.1	X	141.38073	22.09455	273.20860	3.94203	0.1106638	0.23622070	2.5917359	21	—	—
282426 2003 UO_{381}	16.7	X	68.06534	94.43827	165.05742	7.19766	0.0906160	0.21632422	2.7483115	21	9 17.4	20.3
282427 2003 WG_{54}	15.5	X	23.21209	56.75487	35.00429	13.26891	0.0510232	0.17777495	3.1324850	21	—	—
282428 2003 WU_{66}	17.4	X	7.27546	304.47722	59.44916	2.21264	0.2002715	0.27415287	2.3467897	21	12 5.9	19.5
282429 2003 WW_{78}	15.9	X	313.40089	165.66503	260.49738	8.20359	0.1251009	0.21761916	2.7373981	21	10 31.3	19.1
282430 2003 WS_{86}	17.2	X	9.78344	158.13215	255.11512	4.52802	0.1522547	0.27990044	2.3145523	21	—	—
282431 2003 WU_{86}	16.0	X	80.63399	94.59485	245.30692	6.84342	0.3599740	0.22906908	2.6454024	21	—	—
282432 2003 WK_{89}	16.0	X	346.17025	126.63821	232.96120	13.56939	0.0946627	0.21375202	2.7703155	21	9 22.9	19.6
282433 2003 WO_{137}	15.8	X	95.26044	104.18069	250.06580	11.04558	0.2228344	0.23022909	2.6365090	21	—	—
282434 2003 WX_{139}	15.6	X	63.96535	131.65853	254.14122	11.06522	0.2645361	0.22902233	2.6457623	21	—	—
282435 2003 WY_{161}	15.8	X	345.83780	175.38125	226.56897	16.81143	0.1340024	0.21815645	2.7329017	21	11 27.6	18.8
282436 2003 WR_{189}	15.8	X	93.70136	304.58625	152.03477	16.28695	0.2551260	0.18531997	3.0468745	21	4 19.3	20.4
282437 2003 XE_{6}	15.7	X	54.53559	77.13033	295.04375	11.62955	0.2044847	0.22573496	2.6713871	21	—	—
282438 2003 XV_{21}	15.9	X	299.88795	315.01996	131.19983	10.49426	0.2542230	0.21560145	2.7544502	21	10 25.0	18.8
282439 2003 XE_{22}	15.7	X	291.28747	275.21488	118.97190	17.55264	0.2999229	0.21039533	2.7997031	21	7 15.5	19.2
282440 2003 YL_{35}	16.3	X	87.24220	71.19910	277.38587	10.17369	0.3197638	0.22933474	2.6433590	21	—	—
282441 2003 YY_{42}	17.5	X	302.56860	294.36208	131.49923	2.15502	0.1624279	0.26738722	2.3862116	21	10 20.8	19.6
282442 2003 YX_{55}	17.4	X	287.40061	221.89371	241.37322	4.22121	0.1907715	0.27170742	2.3608499	21	11 12.3	19.2
282443 2003 YT_{90}	16.4	X	100.85555	197.70832	190.73996	5.72006	0.3705005	0.23606602	2.5928679	21	2 4.5	19.8
282444 2003 YJ_{102}	15.0	X	73.37403	330.50485	110.84993	29.16434	0.1715671	0.17749424	3.1357868	21	2 19.4	19.3
282445 2003 YP_{102}	17.1	X	315.31659	11.63701	140.71331	4.04992	0.1648652	0.27958738	2.3162797	21	—	—
282446 2003 YK_{152}	15.5	X	17.26878	94.09267	83.01877	10.14738	0.0420109	0.18186726	3.0853163	21	3 19.9	19.8
282447 2004 BC_{35}	16.1	X	335.15804	184.41472	111.55637	9.80156	0.0580029	0.19182054	2.9776431	21	6 15.8	19.9
282448 2004 BL_{81}	15.4	X	289.31692	123.55799	131.36901	16.54154	0.0558320	0.17710355	3.1403968	21	2 25.4	19.9
282449 2004 BS_{100}	15.5	X	32.19900	85.35042	126.46525	22.51757	0.1007039	0.18576313	3.0420268	21	5 29.5	19.7
282450 2004 BE_{109}	15.9	X	340.70880	266.46023	120.62907	14.23933	0.1600734	0.20980517	2.8049509	21	11 3.1	19.2
282451 2004 BH_{151}	15.2	X	64.92018	3.82517	140.26593	16.94268	0.0695274	0.18283591	3.0744095	21	4 15.6	19.6
282452 2004 CT_{18}	15.2	X	160.21013	298.34645	119.71877	18.53903	0.0762550	0.18302110	3.0723353	21	4 27.0	20.2
282453 2004 CH_{32}	16.3	X	15.32439	311.72042	294.54677	10.01972	0.1166389	0.18853478	3.0121394	21	6 10.9	19.9
282454 2004 CP_{47}	17.4	X	55.75285	291.45080	123.04541	5.76860	0.1317499	0.27957567	2.3163444	21	—	—
282455 2004 CY_{48}	16.5	X	208.53249	98.84057	126.32943	7.09356	0.0882870	0.27032300	2.3689036	21	—	—
282456 2004 CB_{68}	15.2	X	110.09614	314.00231	125.70195	12.49116	0.1191452	0.17861019	3.1227118	21	3 30.9	19.8
282457 2004 CY_{88}	16.1	X	282.65245	156.04328	86.94359	7.37554	0.1299871	0.17193268	3.2030503	21	1 25.3	21.0
282458 2004 CC_{99}	15.3	X	82.57174	340.52363	110.77576	18.48528	0.0609623	0.17519041	3.1632183	21	3 3.4	19.9
282459 2004 CF_{113}	15.4	X	342.24681	85.74558	107.98133	10.77722	0.0413744	0.17633563	3.1495076	21	2 19.8	19.7
282460 2004 DN_{11}	15.9	X	160.80662	310.54277	169.80233	9.56439	0.0415381	0.18982146	2.9985123	21	7 3.9	20.5
282461 2004 DO_{33}	16.8	X	287.34966	102.85667	146.72968	6.39655	0.1639783	0.28268367	2.2993349	21	1 13.7	20.2
282462 2004 DO_{35}	15.5	X	80.87679	285.19000	162.79340	26.40752	0.0999885	0.17443155	3.1723860	21	2 24.7	19.9
282463 2004 EJ_{59}	17.3	X	120.17939	286.68036	276.14597	6.17149	0.0962011	0.30615461	2.1802628	21	9 10.1	20.3
282464 2004 FY	16.9	X	33.83914	66.71092	159.73628	6.86692	0.1425680	0.29557335	2.2319915	21	6 14.9	18.9
282465 2004 FF_{13}	16.6	X	288.58256	286.75949	283.02777	4.65914	0.1882312	0.27621364	2.3351026	21	—	—
282466 2004 FK_{30}	15.1	X	23.26478	217.91032	249.83705	23.06684	0.2046928	0.22386949	2.6862068	21	—	—
282467 2004 FS_{56}	17.0	X	30.86971	215.45671	43.74530	6.38986	0.1728754	0.29722096	2.2237353	21	8 11.8	18.9
282468 2004 FF_{61}	17.7	X	17.34014	70.71141	153.22120	3.34924	0.1658325	0.29301528	2.2449631	21	5 4.4	19.2
282469 2004 FE_{141}	17.4	X	262.47779	28.66452	207.15129	5.06477	0.1819316	0.27429060	2.3460041	21	—	—
282470 2004 FY_{143}	17.8	X	327.12317	79.07043	184.43303	5.73466	0.3409535	0.28539270	2.2847612	21	2 20.5	20.7
282471 2004 GZ_{4}	16.9	X	111.98019	90.50955	98.41043	5.45504	0.0903873	0.30093571	2.2053976	21	8 15.4	19.6
282472 2004 GF_{21}	17.5	X	14.82407	120.87918	90.35681	5.27799	0.1434477	0.28833367	2.2691984	21	4 9.8	19.3
282473 2004 GZ_{23}	17.1	X	357.32405	166.73413	107.43205	7.63492	0.2074807	0.29252325	2.2474797	21	6 10.2	18.3
282474 2004 GZ_{28}	17.4	X	69.76964	357.97011	231.77434	2.61027	0.1310747	0.30029387	2.2085390	21	8 20.8	19.9
282475 2004 GE_{38}	16.4	X	290.05542	348.16925	210.77642	24.38059	0.1726097	0.27587043	2.3370390	21	—	—
282476 2004 GN_{50}	17.3	X	10.08671	26.17903	219.22135	6.49058	0.0738504	0.29325512	2.2437389	21	5 24.7	19.5
282477 2004 HU_{56}	16.9	X	11.22693	16.47181	173.79039	22.64373	0.1492654	0.28491475	2.2873156	21	2 21.5	19.2
282478 2004 JP_{11}	17.0	X	0.58450	31.30070	201.06421	22.44889	0.1203568	0.28762131	2.2729437	21	4 12.8	19.0
282479 2004 KL_{10}	17.3	X	11.48656	58.97049	217.92604	6.56519	0.1239499	0.29441883	2.2378226	21	7 18.0	19.2
282480 2004 KW_{10}	15.3	X	21.35938	84.23964	163.30710	10.01473	0.0739541	0.17825047	3.1269116	21	6 21.1	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282481 2004 KO_{12}	17.2	X	325.55508	124.70230	145.07998	8.01384	0.1707975	0.28571921	2.2830202	21	4 1.4	19.6
282482 2004 LP_{16}	16.0	X	352.65392	114.55468	102.96809	24.33095	0.2383450	0.27988236	2.3146519	21	2 22.7	18.6
282483 2004 MG_{6}	17.0	X	295.10501	61.74540	259.12834	11.05563	0.2546431	0.28095908	2.3087345	21	4 10.5	20.4
282484 2004 NL_{5}	15.9	X	314.00754	276.51637	313.58653	21.70790	0.2678601	0.27378477	2.3488928	21	1 10.8	19.4
282485 2004 NQ_{13}	17.0	X	344.64120	18.09614	254.26212	4.56701	0.1249386	0.28511798	2.2862285	21	5 14.7	19.1
282486 2004 NL_{18}	16.5	X	293.75637	90.77641	159.92020	6.82923	0.0706602	0.27360414	2.3499265	21	2 3.8	19.7
282487 2004 NW_{19}	17.3	X	261.12615	147.48805	158.05905	4.66947	0.2243532	0.27527015	2.3404353	21	2 24.3	21.2
282488 2004 NW_{32}	17.0	X	255.05125	34.09857	298.88708	4.79663	0.2519096	0.27530483	2.3402387	21	3 20.8	20.9
282489 2004 OL_{1}	15.8	X	2.22308	136.02744	133.98382	13.29395	0.0765223	0.22880364	2.6474479	21	6 21.1	19.1
282490 2004 PY_{5}	17.1	X	278.71385	41.53599	300.24251	6.36519	0.1245439	0.28135809	2.3065513	21	5 10.2	20.1
282491 2004 PC_{9}	17.2	X	259.81711	195.80021	127.51495	3.54387	0.1832635	0.27460628	2.3442058	21	3 22.1	20.7
282492 2004 PE_{11}	15.2	X	334.64997	165.77788	140.52889	19.91902	0.0575614	0.16965456	3.2316602	21	6 29.7	19.8
282493 2004 PB_{15}	16.5	X	249.16446	250.11777	12.68153	5.10573	0.1764957	0.26539062	2.3981647	21	—	—
282494 2004 PZ_{26}	17.4	X	166.62655	266.56657	107.75673	27.55267	0.1081679	0.38222335	1.8804332	21	2 4.6	19.5
282495 2004 PK_{34}	17.3	X	305.04011	147.98439	132.20533	7.05623	0.2161798	0.27797196	2.3252450	21	3 10.9	20.3
282496 2004 PW_{40}	17.1	X	238.34052	218.70118	126.78191	4.89409	0.2380791	0.27189373	2.3597713	21	3 28.1	21.0
282497 2004 PC_{43}	16.0	X	13.32352	75.50461	231.84473	12.52511	0.2940543	0.17510738	3.1642182	21	9 12.8	19.4
282498 2004 PA_{54}	17.4	X	291.81175	41.94557	286.70742	2.02578	0.2271681	0.28087744	2.3091819	21	4 24.6	20.5
282499 2004 PE_{55}	16.4	X	246.31789	249.88396	136.87976	24.85248	0.2654263	0.27943090	2.3171444	21	5 29.1	20.7
282500 2004 PL_{62}	17.1	X	291.65117	76.57368	192.35224	2.09089	0.1819774	0.27300378	2.3533704	21	2 11.4	20.5
282501 2004 PJ_{64}	16.2	X	11.93629	178.03342	223.00820	5.05468	0.2417031	0.18477931	3.0528150	21	—	—
282502 2004 PK_{83}	16.9	X	265.76646	199.23849	153.21001	12.35111	0.2127413	0.27808412	2.3246198	21	5 4.5	20.6
282503 2004 PM_{94}	16.9	X	304.07653	122.43990	151.25225	13.24899	0.2143517	0.27524295	2.3405895	21	2 28.3	19.9
282504 2004 PA_{101}	16.8	X	311.20058	24.56909	318.30157	6.65387	0.1395135	0.28382795	2.2931508	21	7 2.1	19.1
282505 2004 PA_{102}	16.6	X	277.47734	105.36720	240.79758	1.64634	0.2365209	0.27648867	2.3335538	21	5 1.6	19.9
282506 2004 PD_{102}	15.4	X	48.82684	178.95191	97.96269	19.86340	0.1998024	0.17765389	3.1339080	21	10 6.9	20.0
282507 2004 PW_{102}	17.1	X	206.09686	134.40423	205.85321	4.51823	0.2861880	0.26650199	2.3914928	21	2 22.3	21.5
282508 2004 PZ_{112}	17.1	X	266.68214	251.83317	86.42989	6.78431	0.1561611	0.27832411	2.3232832	21	4 21.8	20.4
282509 2004 PL_{114}	16.1	X	102.55753	145.28080	144.30266	13.76667	0.2766885	0.24405535	2.5359683	21	12 20.7	20.8
282510 2004 QJ_{10}	16.8	X	157.29428	261.83738	108.31504	8.98090	0.2171644	0.26259950	2.4151278	21	2 21.1	20.6
282511 2004 QL_{20}	16.5	X	263.89543	107.82704	253.59358	21.61405	0.3270076	0.27701166	2.3306158	21	4 26.1	20.6
282512 2004 QU_{27}	16.0	X	346.90684	354.80756	355.78487	4.73344	0.1824690	0.17523704	3.1626571	21	9 12.3	19.4
282513 2004 RR_{7}	17.0	X	167.15259	257.97034	107.97399	12.88740	0.2802064	0.26188651	2.4195093	21	3 2.7	21.3
282514 2004 RN_{45}	17.6	X	224.05433	137.48362	170.82958	1.07910	0.1990644	0.26663414	2.3907025	21	1 29.7	21.5
282515 2004 RY_{46}	16.9	X	316.43708	151.25057	172.60416	5.73263	0.1298128	0.28294600	2.2979135	21	6 12.9	19.3
282516 2004 RH_{48}	17.4	X	209.48005	185.75790	138.88332	3.21581	0.2154755	0.26602337	2.3943604	21	2 6.9	21.3
282517 2004 RT_{54}	16.6	X	321.57529	355.79901	244.44087	4.69191	0.1903503	0.27310298	2.3528004	21	2 6.8	19.5
282518 2004 RX_{66}	17.2	X	282.69214	286.00043	13.30130	5.65507	0.2337688	0.27464949	2.3439599	21	3 9.0	20.6
282519 2004 RA_{75}	17.1	X	155.80570	256.09818	98.47003	2.54503	0.2064662	0.25928044	2.4356948	21	1 28.9	20.7
282520 2004 RW_{79}	16.6	X	281.42454	199.27599	107.29043	16.61993	0.3157643	0.27527065	2.3404325	21	3 14.0	20.7
282521 2004 RV_{85}	17.4	X	233.18030	170.03076	184.22846	6.31611	0.1275420	0.27407803	2.3472169	21	4 7.4	20.7
282522 2004 RP_{97}	17.0	X	259.16996	99.95047	166.57147	4.46747	0.1918919	0.26718561	2.3874118	21	1 8.7	20.8
282523 2004 RX_{103}	17.1	X	327.84115	108.19293	229.92036	5.13305	0.2186777	0.28604274	2.2812984	21	7 14.4	18.8
282524 2004 RJ_{155}	17.1	X	311.32086	79.90722	289.12714	4.46487	0.1855328	0.28687792	2.2768686	21	8 4.7	18.8
282525 2004 RS_{169}	17.8	X	280.34177	47.34935	261.05930	1.70855	0.2100639	0.27551378	2.3390554	21	3 18.4	21.1
282526 2004 RF_{180}	17.1	X	187.64105	153.42954	190.29195	8.72788	0.2016731	0.26415912	2.4056124	21	2 9.6	21.1
282527 2004 RK_{180}	16.5	X	223.10038	62.29192	237.72653	5.69553	0.1406960	0.26367482	2.4085571	21	1 18.2	20.3
282528 2004 RK_{194}	16.5	X	293.97364	6.11874	328.70237	4.14732	0.1727068	0.27918293	2.3185162	21	5 14.3	19.5
282529 2004 RG_{195}	16.5	X	305.52804	346.02199	338.87909	5.54405	0.1775525	0.27945481	2.3170122	21	5 15.7	19.3
282530 2004 RV_{203}	15.8	X	349.52072	296.92175	310.09110	22.93815	0.2132408	0.27742360	2.3283081	21	3 16.0	18.7
282531 2004 RR_{215}	16.9	X	299.91123	44.37396	251.65617	7.22233	0.2929511	0.27750083	2.3278761	21	3 9.7	20.4
282532 2004 RM_{224}	17.1	X	252.48998	201.49246	187.45463	6.22802	0.2108684	0.27800662	2.3250518	21	6 5.3	20.6
282533 2004 RU_{234}	18.0	X	276.14892	78.99638	194.68401	1.97888	0.2814048	0.27321601	2.3521515	21	1 24.9	22.1
282534 2004 RD_{248}	16.5	X	147.02942	123.03281	251.71933	13.32716	0.2318320	0.26046776	2.4282873	21	2 10.4	20.5
282535 2004 RF_{257}	17.4	X	225.32620	156.60474	141.64107	3.10616	0.1747534	0.26499160	2.4005715	21	1 18.9	21.2
282536 2004 RZ_{260}	17.0	X	45.29856	298.46951	183.71746	5.65032	0.0761362	0.26164816	2.4209785	21	1 24.8	19.8
282537 2004 RF_{277}	17.3	X	237.85655	126.70918	140.62324	5.47496	0.1078023	0.26338620	2.4103163	21	—	—
282538 2004 RX_{289}	17.7	X	271.62508	160.80911	152.55780	3.52255	0.2348164	0.27405371	2.3473558	21	3 15.5	21.4
282539 2004 RC_{316}	15.4	X	293.77032	210.26662	217.26983	5.17845	0.0995871	0.17095758	3.2152184	21	9 28.4	19.7
282540 2004 RE_{325}	17.3	X	244.22210	35.00644	308.72179	4.13113	0.2528917	0.27107182	2.3645389	21	3 25.9	21.4
282541 2004 ST_{13}	17.4	X	228.02043	243.93209	140.89591	5.27754	0.1523131	0.27558541	2.3386500	21	5 11.9	21.0
282542 2004 SB_{59}	17.1	X	116.12987	199.90778	169.49144	4.26453	0.1538026	0.25517555	2.4617466	21	—	—
282543 2004 ST_{60}	16.0	X	22.04484	284.78652	139.87924	13.78181	0.1592279	0.24414701	2.5353336	21	—	—
282544 2004 TB_{54}	16.0	X	102.61437	99.28013	215.25436	7.11374	0.0717870	0.24024890	2.5626843	21	—	—
282545 2004 TL_{68}	16.0	X	339.71515	247.18554	92.79638	6.92938	0.1823825	0.22760405	2.6567420	21	8 20.8	18.5
282546 2004 TG_{121}	16.8	X	165.32761	198.56761	211.05844	6.27245	0.1043629	0.26625181	2.3929906	21	4 7.5	20.1
282547 2004 TE_{131}	17.4	X	223.60211	213.17567	140.14143	1.34585	0.2345019	0.26853524	2.3794058	21	3 24.8	21.5
282548 2004 TV_{160}	17.5	X	172.50596	107.32214	218.48904	1.74617	0.2083111	0.25618883	2.4552512	21	1 9.4	21.3
282549 2004 TN_{199}	17.5	X	307.29605	83.23105	189.92333	4.17977	0.1802193	0.27066928	2.3668827	21	3 7.6	20.4
282550 2004 TX_{199}	16.3	X	201.74467	250.01060	199.84348	11.32533	0.0597428	0.21896368	2.7261808	21	7 11.2	20.5
282551 2004 TG_{215}	16.3	X	359.22475	162.55452	222.25678	3.79745	0.1327596	0.17802588	3.1295408	21	11 17.9	20.0
282552 2004 TV_{328}	16.9	X	210.36512	231.23018	114.08191	7.68075	0.1379076	0.26661301	2.3908289	21	3 6.9	20.7
282553 2004 TF_{346}	16.0	X	192.31796	30.75690	221.91259	13.89595	0.0632700	0.24561600	2.5252145	21	—	—
282554 2004 TH_{356}	16.0	X	50.45896	288.03409	116.02025	17.79270	0.2025068	0.24399243	2.5364043	21	—	—
282555 2004 TU_{356}	16.5	X	186.53427	284.90823	116.78179	10.81076	0.2367431	0.26849195	2.3796616	21	4 28.5	20.7
282556 2004 UN_{9}	16.9	X	219.26989	67.86647	298.36612	12.58739	0.1944453	0.26830311	2.3807780	21	3 30.6	21.1
282557 2004 VM_{11}	15.9	X	184.03376	44.15823	220.77757	12.53785	0.1191270	0.24537880	2.5268416	21	—	—
282558 2004 VK_{28}	15.8	X	138.56711	257.75686	55.77123	9.04964	0.1467375	0.24560901	2.5252624	21	—	—
282559 2004 WS_{6}	17.4	X	260.92860	34.74739	323.84047	2.36742	0.2413219	0.27413826	2.3468732	21	4 29.9	21.0
282560 2004 XW_{35}	17.0	X	324.45785	319.60406	261.18226	18.74117	0.0730812	0.37321216	1.9105813	21	1 8.8	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282561 2004 XO_{61}	15.2	X	6.36517	309.00529	80.73213	29.18434	0.2307759	0.23081182	2.6320695	21	12 31.0	18.2
282562 2004 XO_{66}	16.0	X	152.03694	67.17927	83.40615	10.33793	0.0985490	0.21193242	2.7861497	21	8 8.0	20.3
282563 2004 XR_{68}	16.3	X	41.06854	274.72912	134.01838	13.83254	0.1876011	0.24272577	2.5452208	21	—	—
282564 2004 XE_{80}	16.1	X	43.20745	140.55666	289.16088	13.02385	0.1794098	0.24124414	2.5556313	21	—	—
282565 2004 XZ_{80}	15.7	X	115.41104	301.72760	46.86031	3.07776	0.2537271	0.24464403	2.5318986	21	—	—
282566 2004 XY_{90}	16.6	X	67.19557	230.14243	76.50571	5.50175	0.0469137	0.22699734	2.6614739	21	11 11.9	20.3
282567 2004 XH_{95}	16.3	X	88.46338	179.58430	108.71888	12.60851	0.0625442	0.22484779	2.6784094	21	11 19.2	20.3
282568 2004 YJ_{14}	16.4	X	229.19946	340.32865	104.68871	4.25714	0.0613301	0.21271486	2.7793133	21	8 9.4	20.3
282569 2004 YF_{24}	16.4	X	337.51176	291.82344	98.73945	5.08535	0.1193772	0.22461157	2.6802870	21	10 30.8	19.3
282570 2005 AT_{28}	17.6	X	166.25322	277.93943	116.23301	22.81473	0.0933506	0.37528802	1.9035294	21	3 11.3	20.2
282571 2005 AX_{34}	15.9	X	330.64015	329.18974	109.46432	14.35556	0.0425849	0.22853997	2.6494838	21	12 21.4	19.4
282572 2005 AH_{38}	16.1	X	359.87053	250.41491	131.79339	12.92123	0.1941750	0.22720351	2.6598635	21	12 7.2	19.1
282573 2005 AE_{40}	16.0	X	36.40708	253.47029	115.67535	10.51452	0.1300214	0.23106702	2.6301312	21	—	—
282574 2005 AB_{41}	16.2	X	54.98873	247.86212	122.32275	6.30604	0.2147614	0.23546807	2.5972557	21	—	—
282575 2005 AM_{55}	16.3	X	169.21385	62.63213	89.31012	5.44152	0.0180617	0.21395827	2.7685349	21	8 27.8	20.1
282576 2005 AP_{55}	17.5	X	227.64803	138.52888	12.85918	1.40161	0.1837784	0.28183116	2.3039694	21	10 24.3	20.4
282577 2005 CU	16.2	X	316.41017	277.76901	126.05531	13.00379	0.2103946	0.22395898	2.6854912	21	10 6.9	19.0
282578 2005 CG_{4}	17.1	X	184.59365	254.33443	138.15923	22.60899	0.1521790	0.37545661	1.9029595	21	4 5.8	20.0
282579 2005 CU_{13}	15.5	X	2.85186	211.02491	128.00368	15.11168	0.0969708	0.21383884	2.7695656	21	10 4.0	19.1
282580 2005 CQ_{15}	15.9	X	351.83901	287.54221	291.12742	6.64391	0.1955775	0.18913521	3.0057611	21	3 12.9	19.4
282581 2005 CS_{61}	17.3	X	272.21267	188.49074	145.53790	24.55332	0.0742633	0.37790807	1.8947210	21	4 30.4	20.0
282582 2005 EG_{102}	15.8	X	18.22442	5.14718	145.79434	9.30929	0.2274848	0.18040748	3.1019374	21	2 5.2	18.6
282583 2005 EW_{138}	16.1	X	275.06006	91.86878	185.13375	7.44095	0.2310722	0.17580952	3.1557877	21	2 12.2	21.2
282584 2005 EV_{145}	16.2	X	287.59394	158.29841	169.71602	11.53774	0.0496097	0.19346232	2.9607730	21	5 25.1	20.5
282585 2005 ED_{146}	16.1	X	320.37159	115.28975	172.87262	10.36809	0.0741130	0.19126653	2.9833902	21	5 14.6	20.2
282586 2005 EX_{171}	15.8	X	358.66732	358.13551	212.21869	8.50224	0.0958708	0.18616852	3.0376090	21	3 25.1	19.7
282587 2005 EW_{173}	15.7	X	225.47884	194.02584	207.69937	7.57120	0.0222971	0.19667282	2.9284635	21	6 12.3	19.9
282588 2005 EX_{174}	16.3	X	267.38553	299.39118	187.17940	4.92795	0.0593275	0.22084506	2.7106759	21	11 21.8	19.9
282589 2005 EP_{203}	16.4	X	82.26226	160.13949	129.69287	9.74861	0.0833913	0.21952285	2.7215494	21	11 14.9	20.4
282590 2005 EU_{217}	16.0	X	244.48932	157.39768	166.87736	4.52533	0.0612771	0.18321075	3.0702147	21	3 26.9	20.6
282591 2005 EC_{236}	15.8	X	16.52931	56.79030	164.45169	8.08794	0.0242073	0.19104563	2.9856895	21	5 9.9	19.9
282592 2005 EL_{252}	16.0	X	353.43374	341.21793	195.52615	5.58922	0.0970146	0.17784457	3.1316675	21	2 4.1	20.2
282593 2005 EQ_{264}	16.2	X	291.47508	199.65709	189.16584	13.14218	0.1478320	0.20592272	2.8400973	21	7 30.1	20.1
282594 2005 EF_{275}	15.9	X	5.61012	121.77135	123.29323	3.00568	0.0366908	0.19457981	2.9494261	21	5 24.1	19.8
282595 2005 FU_{1}	16.0	X	240.94925	151.01369	182.04299	9.08886	0.0067235	0.18370898	3.0646612	21	4 8.0	20.2
282596 2005 FG_{6}	15.4	X	14.31262	48.42076	179.07281	10.66302	0.0580556	0.18994752	2.9971856	21	5 15.4	19.4
282597 2005 GK_{31}	16.0	X	50.19462	345.64507	160.77016	10.00098	0.2029914	0.18491599	3.0513106	21	4 8.6	19.4
282598 2005 GF_{50}	15.8	X	324.58873	39.94124	197.98260	10.02393	0.0310522	0.18147911	3.0897140	21	3 19.7	20.0
282599 2005 GX_{55}	16.0	X	287.86281	58.48004	238.97987	1.30046	0.0576683	0.18720136	3.0264260	21	4 12.8	20.3
282600 2005 GR_{82}	15.7	X	29.66980	120.68402	167.27895	15.04087	0.1422765	0.20430018	2.8551147	21	9 5.2	19.0
282601 2005 GA_{94}	15.6	X	350.91300	45.74267	110.73687	15.65931	0.2279151	0.17480878	3.1678204	21	—	—
282602 2005 GY_{114}	15.8	X	286.24188	47.45156	211.58781	11.21278	0.0320155	0.17739855	3.1369144	21	2 24.1	20.5
282603 2005 GP_{130}	15.7	X	338.36044	125.07334	110.86067	17.52609	0.1776186	0.18071068	3.0984667	21	3 28.2	19.8
282604 2005 GQ_{151}	16.1	X	82.74745	7.71144	213.98535	4.60348	0.1014141	0.20015036	2.8944439	21	8 15.8	20.1
282605 2005 GA_{153}	15.1	X	359.62650	330.25235	196.26648	16.15491	0.1543663	0.17609611	3.1523629	21	1 24.6	19.3
282606 2005 GW_{154}	15.7	X	220.69839	133.47754	198.31697	6.81960	0.0588361	0.17810457	3.1286190	21	3 8.7	20.3
282607 2005 GR_{163}	15.8	X	49.18342	280.78084	204.84707	11.81215	0.0828434	0.17814007	3.1282033	21	2 21.3	20.0
282608 2005 GN_{177}	16.2	X	211.07398	108.45474	210.14621	16.88107	0.1486063	0.17308365	3.1888348	21	2 7.3	21.7
282609 2005 JN_{2}	16.1	X	313.72426	55.40285	202.35869	12.13182	0.1552507	0.18205270	3.0832208	21	3 11.7	20.4
282610 2005 JV_{20}	15.7	X	38.82135	27.46689	163.08671	12.71336	0.1005303	0.18513722	3.0488792	21	5 8.1	19.7
282611 2005 JH_{24}	16.0	X	161.72344	170.72854	213.17960	8.70791	0.0840184	0.17532500	3.1615992	21	3 9.0	20.8
282612 2005 JQ_{31}	15.6	X	334.68606	316.76162	231.35236	27.22540	0.1785659	0.17485073	3.1673137	21	1 6.8	20.2
282613 2005 JA_{33}	15.9	X	294.49795	131.15116	160.20585	14.47469	0.2743063	0.17977773	3.1091771	21	3 17.3	20.5
282614 2005 JZ_{37}	15.9	X	68.45718	284.22343	205.73628	8.81872	0.1073631	0.18318857	3.0704626	21	3 31.3	19.9
282615 2005 JH_{44}	15.6	X	339.65330	329.29079	223.13646	15.91529	0.1594463	0.17579564	3.1559539	21	1 23.9	20.0
282616 2005 JZ_{51}	15.9	X	241.30675	116.15758	190.65517	5.10215	0.1026033	0.17495040	3.1661107	21	2 26.7	20.7
282617 2005 JK_{99}	15.8	X	284.85932	169.15229	171.53826	9.15716	0.2222937	0.18456691	3.0551567	21	5 13.2	20.3
282618 2005 JZ_{99}	15.9	X	295.45077	65.52854	181.42750	9.97951	0.0179947	0.17351479	3.1835503	21	2 25.3	20.4
282619 2005 JM_{100}	15.9	X	320.69645	350.91520	200.50114	13.54284	0.0376088	0.16904842	3.2393806	21	1 17.3	20.7
282620 2005 JK_{135}	15.7	X	268.74001	210.04121	113.51064	12.67238	0.2042711	0.17885347	3.1198793	21	4 11.7	20.7
282621 2005 JG_{157}	15.2	X	221.26271	273.72590	84.67672	14.09791	0.3193945	0.17485881	3.1672161	21	4 8.7	21.2
282622 2005 KH_{7}	15.3	X	305.25019	92.55072	125.31059	16.87980	0.0857107	0.16967113	3.2314498	21	1 26.2	19.6
282623 2005 LR_{19}	15.6	X	342.42766	140.27008	98.04259	13.31355	0.0426422	0.17906329	3.1174417	21	4 19.9	20.0
282624 2005 LN_{20}	17.0	X	11.68035	334.09278	121.22475	6.86225	0.0434582	0.28276842	2.2988755	21	—	—
282625 2005 LL_{28}	15.3	X	239.86490	203.60884	123.54406	18.83941	0.1528905	0.16940450	3.2348396	21	3 25.6	20.7
282626 2005 MQ_{4}	15.8	X	290.04013	189.57531	148.20142	12.89119	0.1014109	0.18504246	3.0499201	21	6 2.9	20.2
282627 2005 PO_{24}	16.4	X	194.95399	155.57027	330.19372	14.90583	0.1096734	0.24320583	2.5418704	21	8 20.6	20.2
282628 2005 QC_{104}	16.9	X	100.55117	184.77877	229.48767	3.66390	0.0679413	0.21461323	2.7628993	21	1 27.2	20.5
282629 2005 QY_{182}	18.2	X	40.14179	117.50983	177.97737	4.82287	0.2111688	0.31225434	2.1517760	21	10 31.3	20.5
282630 2005 RL_{50}	15.2	X	301.42892	130.80204	205.50737	10.23783	0.1268495	0.17642594	3.1484327	21	6 10.8	19.5
282631 2005 SV_{1}	15.4	X	347.75046	107.21843	237.32007	8.47331	0.0867261	0.18109829	3.0940440	21	9 2.0	19.5
282632 2005 SE_{34}	17.2	X	6.15350	169.05011	136.52938	3.74056	0.1728945	0.30430932	2.1890678	21	9 3.5	18.4
282633 2005 SG_{208}	16.3	X	129.99027	107.39482	2.66226	12.63440	0.1441815	0.22328281	2.6909101	21	5 21.2	20.6
282634 2005 SQ_{263}	16.8	X	25.40825	349.25772	189.18579	7.09863	0.0376449	0.28135309	2.3065786	21	3 10.2	19.3
282635 2005 SK_{276}	16.7	X	125.31282	91.42582	66.13244	6.66838	0.1246895	0.23123434	2.6288623	21	7 20.1	20.6
282636 2005 SH_{293}	16.2	X	172.41525	117.32977	226.51628	5.48065	0.1040155	0.21503743	2.7592645	21	1 27.9	20.4
282637 2005 TT_{1}	16.1	X	128.81321	143.76317	244.16177	8.02674	0.1762149	0.21276190	2.7789036	21	2 11.1	20.3
282638 2005 TY_{11}	16.4	X	347.14745	259.47102	122.69324	1.81902	0.2000640	0.18474731	3.0531675	21	10 29.6	19.5
282639 2005 TC_{46}	17.3	X	282.98230	217.57581	124.42007	6.38529	0.2786245	0.29389347	2.2404887	21	4 28.6	20.5
282640 2005 TG_{63}	17.4	X	22.28993	82.87749	40.69336	5.42668	0.0622003	0.26993038	2.3712001	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282641 2005 TK_{74}	15.9	X	304.18870	232.35735	173.59266	10.13132	0.1798347	0.17862956	3.1224859	21	9 6.8	19.6
282642 2005 TB_{100}	17.4	X	245.94441	148.37015	221.22202	6.26287	0.0985061	0.29142644	2.2531153	21	5 13.2	20.4
282643 2005 TQ_{104}	16.4	X	17.76530	294.65210	358.38381	10.66603	0.1245934	0.24086345	2.5583234	21	8 27.7	19.1
282644 2005 TN_{138}	15.7	X	345.28769	154.56765	198.49895	20.47530	0.0992327	0.17996743	3.1069918	21	9 10.0	19.8
282645 2005 TA_{172}	17.3	X	148.01167	242.51070	16.39408	21.51561	0.0459797	0.38016489	1.8872150	21	—	—
282646 2005 UR_{17}	15.6	X	335.50081	177.78824	208.96449	11.24388	0.2227580	0.18152508	3.0891924	21	10 7.4	18.6
282647 2005 UB_{53}	17.3	X	240.21343	314.18819	75.09860	3.67775	0.2045147	0.29259408	2.2471170	21	5 23.9	20.8
282648 2005 UM_{60}	17.4	X	31.26919	212.85974	128.18421	4.46447	0.2123267	0.31169662	2.1543420	21	12 21.3	20.0
282649 2005 UP_{98}	17.9	X	18.72169	152.30839	114.03389	3.12171	0.1207524	0.29484156	2.2356831	21	7 17.5	19.5
282650 2005 UF_{99}	16.8	X	27.57925	321.68265	201.22969	10.80436	0.0652887	0.27536136	2.3399184	21	2 17.3	19.5
282651 2005 UU_{106}	17.1	X	317.85732	98.50201	110.73156	2.74910	0.0852699	0.27153541	2.3618469	21	1 9.9	20.0
282652 2005 UP_{113}	15.8	X	25.68329	27.03724	40.35524	6.50991	0.0785393	0.19515329	2.9436452	21	—	—
282653 2005 UO_{141}	17.6	X	295.03934	171.57070	198.97942	6.78330	0.2357704	0.29958870	2.2120033	21	6 27.7	20.0
282654 2005 UF_{156}	15.9	X	216.78002	148.52134	262.57017	23.09853	0.2947761	0.28657500	2.2784728	21	5 27.4	20.0
282655 2005 US_{166}	17.2	X	327.48829	323.01989	219.48468	6.11585	0.1202821	0.26952739	2.3735631	21	—	—
282656 2005 UU_{198}	17.5	X	305.10990	66.66680	189.57460	6.23047	0.1495115	0.28668085	2.2779119	21	2 11.1	20.5
282657 2005 UW_{312}	17.1	X	335.16097	47.92044	270.16744	3.94550	0.2015056	0.29868821	2.2164469	21	6 30.9	18.4
282658 2005 UJ_{347}	17.1	X	334.95898	322.64450	219.19593	1.76393	0.1358658	0.26786805	2.3833552	21	—	—
282659 2005 UD_{352}	17.2	X	224.68965	129.43359	307.17831	4.96024	0.1046384	0.29603554	2.2296677	21	7 20.6	20.1
282660 2005 UR_{353}	15.4	X	75.77118	259.00923	357.53987	7.58770	0.2310731	0.24135857	2.5548235	21	10 12.5	19.3
282661 2005 UN_{393}	17.1	X	218.11184	286.90575	93.49042	7.76791	0.1146515	0.28697316	2.2763648	21	4 28.2	20.4
282662 2005 UJ_{399}	15.9	X	179.37965	251.47639	100.94724	10.84245	0.1811806	0.21642786	2.7474340	21	2 23.2	20.5
282663 2005 UE_{405}	17.8	X	317.63186	118.57365	195.16482	2.80404	0.1926872	0.29300386	2.2450214	21	5 17.9	19.8
282664 2005 UL_{436}	17.3	X	283.98538	337.71643	218.46986	4.08568	0.1773735	0.26174045	2.4204093	21	—	—
282665 2005 UT_{469}	15.7	X	179.38487	241.37687	253.87134	9.82392	0.0458354	0.17050434	3.2209137	21	8 9.7	20.6
282666 2005 UE_{479}	15.7	X	30.28602	193.22282	115.25374	1.98215	0.2506288	0.18410639	3.0602493	21	10 18.9	19.3
282667 2005 UF_{513}	17.5	X	1.82239	356.84806	256.31832	0.38568	0.0773019	0.28765064	2.2727892	21	5 21.4	19.6
282668 2005 UK_{521}	17.8	X	124.90558	268.23658	170.27544	5.44947	0.0983563	0.28158239	2.3053262	21	3 27.8	20.5
282669 Erguël	17.4	X	26.15432	288.15392	228.07492	5.61045	0.0326096	0.27515182	2.3411062	21	2 7.9	20.2
282670 2005 VP_{67}	18.1	X	38.30905	26.25029	256.70942	3.02088	0.1847555	0.30228310	2.1988392	21	9 30.6	20.4
282671 2005 VC_{95}	15.6	X	5.39695	183.59136	224.32379	9.07795	0.0744458	0.18762160	3.0219051	21	12 22.4	19.6
282672 2005 WZ_{2}	17.3	X	282.26874	188.41034	164.35990	5.49040	0.1957336	0.29441832	2.2378252	21	5 22.7	20.2
282673 2005 WX_{7}	17.0	X	327.27258	99.73473	241.26695	5.48682	0.0376757	0.29529553	2.2333912	21	8 7.2	19.4
282674 2005 WF_{44}	15.6	X	350.92760	119.03472	261.81997	10.83763	0.0655955	0.17892406	3.1190587	21	10 24.2	19.8
282675 2005 WX_{73}	16.2	X	334.22533	272.61433	153.34442	13.91246	0.1750912	0.18449547	3.0559453	21	12 3.5	19.8
282676 2005 WO_{93}	17.9	X	293.23291	285.21438	73.90402	1.33872	0.0984165	0.29268198	2.2466671	21	7 2.9	20.4
282677 2005 WN_{105}	15.7	X	319.66004	20.31144	22.10945	2.09054	0.1549957	0.17906607	3.1174094	21	10 2.9	19.4
282678 2005 WG_{110}	16.3	X	12.69565	280.64275	75.65491	4.40914	0.2333255	0.18295216	3.0731071	21	11 17.3	19.6
282679 2005 WG_{119}	15.3	X	285.30844	180.52508	261.92027	16.82946	0.1637341	0.17689369	3.1428802	21	9 19.5	19.9
282680 2005 WM_{179}	15.5	X	57.38401	165.29824	199.26794	9.86568	0.0957944	0.19071339	2.9891561	21	—	—
282681 2005 WG_{180}	15.5	X	328.91498	25.44132	45.16268	10.34778	0.0749430	0.18565371	3.0432220	21	11 27.2	19.4
282682 2005 WN_{180}	17.2	X	218.18945	262.65279	106.04941	6.56479	0.1201061	0.28304845	2.2973590	21	4 13.0	20.6
282683 2005 XT_{2}	17.3	X	315.20093	88.56675	296.13863	5.35868	0.1350047	0.30161242	2.2020976	21	9 15.5	19.1
282684 2005 XB_{19}	15.8	X	275.87285	317.79822	115.75896	33.74099	0.2890618	0.23357119	2.6112986	21	8 22.6	19.7
282685 2005 XC_{24}	16.6	X	234.90222	126.93522	283.03090	9.85864	0.1020596	0.29040548	2.2583929	21	6 25.4	19.4
282686 2005 XB_{31}	16.5	X	7.31333	292.95033	151.89131	2.01195	0.2432502	0.19190929	2.9767250	21	—	—
282687 2005 YW_{27}	16.5	X	89.73405	202.74772	88.51793	5.08223	0.1503514	0.23777245	2.5804475	21	12 1.8	20.5
282688 2005 YJ_{32}	16.1	X	260.52796	118.97843	109.80767	10.82036	0.0287618	0.19174432	2.9784322	21	—	—
282689 2005 YO_{53}	17.0	X	284.52129	354.97575	292.77924	5.74595	0.0881431	0.27133803	2.3629921	21	3 9.6	20.1
282690 2005 YN_{90}	16.6	X	304.79999	276.74027	275.75744	5.03111	0.1531969	0.25482974	2.4639732	21	—	—
282691 2005 YM_{164}	16.8	X	116.27067	218.80618	272.35197	5.87773	0.0545837	0.27959658	2.3162289	21	5 21.6	19.7
282692 2005 YZ_{176}	17.2	X	279.77903	118.42969	106.60814	3.30478	0.1265285	0.25788466	2.4444756	21	—	—
282693 2005 YD_{270}	16.5	X	330.55279	83.03471	127.23211	7.81419	0.0322817	0.26365395	2.4086842	21	2 7.8	19.3
282694 2006 AO_{5}	16.9	X	52.20368	49.51605	332.46965	19.10785	0.0805655	0.37523624	1.9037045	21	—	—
282695 2006 AJ_{22}	15.5	X	312.12529	69.85670	52.99910	10.66567	0.1335940	0.18175153	3.0866259	21	—	—
282696 2006 AD_{62}	16.9	X	176.03262	66.67560	188.75750	3.23529	0.1541935	0.24376554	2.5379779	21	—	—
282697 2006 AS_{86}	15.9	X	292.31899	110.95179	85.21028	4.79615	0.1837820	0.18697491	3.0288690	21	—	—
282698 2006 BF_{27}	16.7	X	245.70574	26.66558	128.32741	6.07099	0.0465730	0.23805341	2.5784167	21	12 4.9	20.1
282699 2006 BY_{37}	16.6	X	121.51436	61.73452	143.16633	10.82961	0.2586825	0.21939400	2.7226149	21	9 25.1	21.3
282700 2006 BS_{43}	15.9	X	297.03620	216.01780	325.37731	8.27615	0.2039515	0.18464243	3.0543236	21	—	—
282701 2006 BD_{65}	16.0	X	336.58211	107.86199	335.05251	15.58176	0.2435265	0.17965819	3.1105561	21	12 31.6	19.3
282702 2006 BL_{74}	16.8	X	241.26786	20.16736	115.19447	9.52760	0.1360447	0.23455912	2.6039611	21	10 24.6	20.5
282703 2006 BF_{77}	17.1	X	263.98787	81.11892	172.64872	2.40651	0.1624659	0.25788580	2.4444684	21	—	—
282704 2006 BJ_{79}	16.1	X	67.77244	90.34515	130.06685	10.15893	0.0911062	0.21351600	2.7723567	21	7 25.7	19.6
282705 2006 BD_{96}	16.4	X	77.56618	205.63988	156.16251	12.20189	0.0380793	0.24213949	2.5493275	21	—	—
282706 2006 BZ_{96}	16.4	X	235.32552	176.39732	157.92792	10.22579	0.2214342	0.26291145	2.4132170	21	3 12.4	20.4
282707 2006 BK_{115}	16.3	X	129.85249	40.93672	258.98927	2.13614	0.1058896	0.24103365	2.5571190	21	—	—
282708 2006 BC_{122}	17.0	X	141.66182	100.28319	151.59987	8.47526	0.1166721	0.23277390	2.6172580	21	12 2.9	21.2
282709 2006 BC_{153}	16.8	X	171.60841	110.05569	130.89270	9.54925	0.1295632	0.23741581	2.5830310	21	12 17.9	20.9
282710 2006 BD_{156}	15.9	X	355.95252	309.28990	107.81371	2.86651	0.1149314	0.17632927	3.1495834	21	12 21.5	19.9
282711 2006 BX_{193}	13.9	X	330.52283	95.55270	188.98315	4.35438	0.0571881	0.08320116	5.1965661	21	5 30.4	20.5
282712 2006 BN_{199}	16.6	X	37.38000	223.79212	171.51803	4.62332	0.0885237	0.24293276	2.5437748	21	—	—
282713 2006 BP_{231}	16.8	X	252.93772	128.26926	108.45333	7.02012	0.0951739	0.25275919	2.4774111	21	—	—
282714 2006 BW_{244}	16.8	X	358.99144	12.53154	90.24542	2.75403	0.1658140	0.18705706	3.0279822	21	—	—
282715 2006 BG_{249}	16.8	X	205.91804	195.01145	118.74210	4.12647	0.1714448	0.25662230	2.4524855	21	1 22.3	20.7
282716 2006 BV_{257}	16.5	X	131.82456	226.20696	90.83550	3.71385	0.1988578	0.24336824	2.5407394	21	—	—
282717 2006 BZ_{264}	15.6	X	205.93150	232.22579	342.31620	9.61882	0.0597613	0.17364011	3.1820183	21	12 15.2	20.4
282718 2006 BH_{265}	16.8	X	197.37249	179.80712	137.33488	2.75133	0.2011417	0.25399932	2.4693407	21	1 20.2	20.8
282719 2006 BP_{270}	16.9	X	57.06310	256.61341	234.62510	4.87207	0.0912809	0.26359282	2.4090565	21	2 25.6	19.4
282720 2006 CD_{34}	16.8	X	302.35497	311.94801	150.64185	8.56338	0.0751972	0.24093297	2.5578313	21	12 13.7	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282721 2006 CX_{65}	17.1	X	275.39439	129.00196	164.39405	5.17593	0.2357408	0.26206186	2.4184299	21	2 22.2	21.0
282722 2006 DD_{15}	16.8	X	135.50121	225.24672	59.66681	3.13255	0.1427558	0.23839254	2.5759708	21	—	—
282723 2006 DD_{39}	16.7	X	198.68665	343.60404	169.35300	9.68190	0.1226838	0.22466926	2.6798281	21	9 26.8	20.7
282724 2006 DV_{46}	17.1	X	152.47019	79.02256	173.35618	4.58426	0.1626260	0.23077495	2.6323499	21	12 11.7	21.5
282725 2006 DF_{57}	15.7	X	336.85565	347.25291	110.92774	16.23478	0.3430357	0.18272185	3.0756888	21	—	—
282726 2006 DU_{57}	16.4	X	46.47127	183.16256	178.82123	12.13434	0.1897107	0.23530936	2.5984234	21	—	—
282727 2006 DG_{71}	16.3	X	185.94017	27.26833	164.09527	15.00021	0.0186989	0.23038065	2.6353525	21	11 11.4	20.2
282728 2006 DK_{76}	17.1	X	137.97409	93.48394	122.82754	4.05090	0.1054317	0.22517627	2.6758040	21	10 15.9	21.1
282729 2006 DR_{78}	17.3	X	188.76839	39.91930	128.71451	2.42715	0.0370083	0.22748729	2.6576511	21	10 12.2	21.1
282730 2006 DB_{91}	16.6	X	116.71630	146.88067	154.37835	5.12221	0.2400751	0.23125870	2.6286776	21	—	—
282731 2006 DL_{119}	16.4	X	131.73837	80.76813	77.45818	10.38510	0.1866926	0.21635774	2.7480276	21	8 2.4	20.9
282732 2006 DO_{130}	16.6	X	143.00415	122.09055	141.33688	12.09264	0.1684496	0.23556976	2.5965082	21	12 17.9	21.0
282733 2006 DA_{140}	16.4	X	354.07612	267.93174	144.74286	10.72204	0.0462057	0.23613759	2.5923440	21	12 22.5	19.8
282734 2006 DC_{196}	16.2	X	205.24749	122.41835	105.74835	13.04370	0.1347987	0.23809267	2.5781333	21	—	—
282735 2006 DK_{198}	16.6	X	284.87512	51.56253	117.60795	15.11189	0.1110517	0.24462955	2.5319985	21	—	—
282736 2006 DG_{200}	16.1	X	145.30768	313.25410	324.45342	14.95871	0.2965533	0.23038764	2.6352992	21	—	—
282737 2006 DO_{204}	16.2	X	200.72963	329.98242	203.98284	24.46371	0.0948632	0.22844949	2.6501834	21	10 27.6	20.1
282738 2006 DJ_{206}	16.9	X	131.16544	102.77095	186.41315	4.65822	0.2007984	0.23311725	2.6146874	21	—	—
282739 2006 DY_{213}	14.8	X	275.19579	256.35173	243.03088	24.46902	0.2081583	0.17596133	3.1539725	21	11 17.6	19.0
282740 2006 DR_{214}	15.7	X	7.43192	160.58082	122.66691	13.12613	0.0826412	0.20376463	2.8601152	21	7 17.6	19.1
282741 2006 DD_{217}	16.1	X	74.84114	206.23919	114.77062	15.48306	0.0442349	0.22294248	2.6936479	21	12 9.8	20.0
282742 2006 ET_{39}	16.6	X	116.86811	87.04223	156.60634	6.40443	0.0695879	0.22482609	2.6785818	21	10 25.6	20.5
282743 2006 EZ_{51}	16.4	X	20.62401	142.31391	177.95971	9.44407	0.1745930	0.22022660	2.7157484	21	10 13.5	19.3
282744 2006 EY_{70}	16.0	X	237.59719	5.36580	127.91842	29.77455	0.1331412	0.23110984	2.6298063	21	10 24.9	20.4
282745 2006 FL_{7}	15.9	X	64.05819	199.71524	196.38417	13.33477	0.2718928	0.24101349	2.5572616	21	—	—
282746 2006 FO_{27}	16.8	X	321.04694	164.62707	191.64313	6.08501	0.0091147	0.21343084	2.7730940	21	8 17.8	20.6
282747 2006 FL_{46}	15.7	X	257.12647	63.29421	130.78091	14.86018	0.2440558	0.17559293	3.1583823	21	12 26.1	20.2
282748 2006 GA_{3}	16.2	X	55.80555	209.34054	127.49036	15.56251	0.1582730	0.22761540	2.6566538	21	12 21.8	20.2
282749 2006 GN_{35}	16.4	X	122.52717	339.55103	192.43618	13.20385	0.0992174	0.21186418	2.7867479	21	7 28.6	20.8
282750 2006 GO_{39}	16.1	X	135.31832	136.63592	116.04944	11.65778	0.1912964	0.22533497	2.6745475	21	11 29.2	20.7
282751 2006 GW_{41}	15.9	X	69.19717	153.41257	97.72455	14.70532	0.1589224	0.21235818	2.7824245	21	9 24.9	20.1
282752 2006 GE_{49}	15.8	X	97.11673	128.82066	140.78688	16.07097	0.2351690	0.22074901	2.7114621	21	11 21.5	20.6
282753 2006 GK_{50}	16.2	X	69.11897	36.14872	226.96497	8.79161	0.2898650	0.21181379	2.7871900	21	10 18.3	20.4
282754 2006 HF_{13}	16.0	X	22.51886	144.20236	184.67984	10.94343	0.1835186	0.21597759	2.7512512	21	10 29.6	19.2
282755 2006 HL_{14}	17.3	X	74.79802	49.47575	202.93054	2.73783	0.0503174	0.21459743	2.7630349	21	9 9.3	21.1
282756 2006 HX_{17}	15.7	X	97.48670	53.57031	240.29085	12.25768	0.2500152	0.22313705	2.6920819	21	12 16.4	20.3
282757 2006 HE_{26}	16.3	X	25.30859	260.35164	196.97734	5.21896	0.0992728	0.24241241	2.5474137	21	—	—
282758 2006 HK_{27}	15.9	X	153.43085	27.72312	224.24849	13.87508	0.1163635	0.22592013	2.6699272	21	12 11.5	20.2
282759 2006 HO_{31}	15.9	X	144.65116	338.36045	200.23406	13.28316	0.0882373	0.21533708	2.7567042	21	8 29.6	20.2
282760 2006 HB_{37}	16.3	X	161.16116	300.04423	214.49304	7.38906	0.1826169	0.21800437	2.7341725	21	8 18.9	21.0
282761 2006 HU_{49}	16.0	X	25.10023	201.70612	190.33886	10.36533	0.1588051	0.23454655	2.6040542	21	—	—
282762 2006 HV_{49}	17.7	X	122.46870	235.86717	47.71765	2.89262	0.1775407	0.29259395	2.2471177	21	—	—
282763 2006 HA_{68}	16.3	X	326.11061	113.56104	227.60947	5.35778	0.0293000	0.20866275	2.8151796	21	8 2.5	20.1
282764 2006 HT_{71}	15.9	X	347.08401	43.80151	195.68820	11.80598	0.0207894	0.19455333	2.9496938	21	4 22.1	19.9
282765 2006 HT_{79}	16.3	X	359.70977	81.20027	219.02566	9.14557	0.0581338	0.20674759	2.8325380	21	7 25.5	20.0
282766 2006 HV_{79}	16.6	X	137.55214	58.26705	218.13398	4.97686	0.0812022	0.22749905	2.6575594	21	12 25.6	20.6
282767 2006 HT_{103}	16.2	X	27.09939	95.40969	178.18699	14.73229	0.1167601	0.20520505	2.8467152	21	8 6.2	19.8
282768 2006 HZ_{105}	15.3	X	259.44504	344.72176	251.06724	11.87680	0.1301812	0.17878024	3.1207313	21	—	—
282769 2006 HC_{106}	16.3	X	212.45491	280.08398	184.82167	8.91944	0.1210281	0.21429116	2.7656669	21	8 7.5	20.6
282770 2006 HY_{151}	16.5	X	112.70277	148.04004	123.88905	5.94005	0.1338765	0.22129200	2.7070249	21	11 28.0	20.8
282771 2006 JF_{26}	15.8	X	145.31734	355.49129	259.74542	10.83762	0.1359695	0.22607889	2.6686771	21	12 7.8	20.0
282772 2006 JU_{27}	16.6	X	91.55659	100.96663	214.12076	11.91620	0.1776708	0.22484726	2.6784137	21	12 30.5	21.1
282773 2006 JG_{48}	16.7	X	180.98112	146.48379	145.98676	4.63947	0.1473561	0.23715456	2.5849277	21	—	—
282774 2006 JA_{49}	15.7	X	256.52452	18.90782	134.15105	14.63508	0.1995009	0.23278689	2.6171605	21	11 25.9	19.3
282775 2006 JO_{55}	16.0	X	207.55521	37.70180	161.07459	13.44900	0.1164434	0.22979622	2.6398189	21	12 4.4	20.1
282776 2006 JB_{57}	15.1	X	61.29531	251.79217	86.12490	25.45493	0.1819311	0.21987104	2.7186754	21	12 28.4	19.1
282777 2006 KP_{11}	17.5	X	66.51317	188.03565	108.85305	3.38472	0.1761017	0.27994616	2.3143003	21	11 24.1	20.6
282778 2006 KH_{12}	15.9	X	108.81183	172.59829	157.99219	12.31594	0.1793794	0.23052858	2.6342250	21	—	—
282779 2006 KZ_{13}	15.4	X	328.47775	322.38296	183.75607	16.02703	0.0262334	0.17546661	3.1598980	21	—	—
282780 2006 KL_{16}	15.8	X	3.61389	218.01406	145.02610	14.51393	0.1144834	0.21967903	2.7202594	21	11 8.7	19.3
282781 2006 KO_{16}	15.9	X	87.47450	139.88227	159.68993	12.15929	0.1894713	0.22248356	2.6973508	21	12 11.8	20.4
282782 2006 KK_{18}	16.2	X	335.17262	226.44589	183.63360	14.94163	0.1215386	0.22481278	2.6786875	21	11 23.0	19.4
282783 2006 KM_{26}	16.0	X	94.70788	170.25499	138.73920	13.71120	0.1413711	0.22512447	2.6762145	21	12 25.6	20.3
282784 2006 KP_{37}	15.3	X	94.15474	221.83206	144.39388	11.33427	0.1093255	0.17101013	3.2145597	21	—	—
282785 2006 KC_{53}	15.8	X	298.08317	260.79241	86.87758	10.13437	0.0590546	0.20260673	2.8710019	21	6 30.4	19.6
282786 2006 KD_{55}	15.9	X	247.79430	138.25389	137.28875	3.60216	0.0391761	0.18109143	3.0941221	21	2 1.7	20.4
282787 2006 KL_{82}	16.0	X	73.11750	4.89304	214.41454	17.80990	0.0630205	0.20397937	2.8581074	21	7 21.9	20.3
282788 2006 KX_{102}	16.1	X	312.27836	350.19008	129.68884	11.18154	0.0312134	0.23386685	2.6090972	21	—	—
282789 2006 KO_{114}	17.1	X	132.19906	252.79340	94.70181	23.31264	0.1106801	0.36783366	1.9291607	21	—	—
282790 2006 ME_{12}	17.1	X	348.22576	343.68351	10.61406	10.95889	0.2212321	0.26679761	2.3897259	21	10 9.3	18.6
282791 2006 NA	15.8	X	286.83283	103.12584	192.15419	15.36478	0.0840037	0.18429685	3.0581405	21	4 6.1	19.9
282792 2006 OM_{4}	15.5	X	290.94870	307.64764	344.12400	16.88156	0.3031663	0.18006476	3.1058720	21	3 8.5	20.2
282793 2006 OV_{13}	16.5	X	258.55367	185.77256	147.22154	5.14201	0.2868822	0.18293746	3.0732717	21	4 1.6	21.7
282794 2006 OF_{14}	15.6	X	217.73221	274.84713	131.10413	16.51321	0.2597873	0.18175275	3.0866121	21	5 30.0	21.2
282795 2006 PR_{17}	16.6	X	343.63643	131.86945	241.08768	3.13910	0.3051708	0.26551038	2.3974435	21	11 8.2	17.5
282796 2006 PA_{19}	15.5	X	246.61733	166.95169	142.28976	11.84126	0.0742536	0.17729461	3.1381403	21	3 12.2	20.2
282797 2006 PO_{43}	17.2	X	188.25362	157.98651	207.67945	20.68423	0.0981557	0.37016453	1.9210538	21	2 12.5	20.1
282798 2006 QR_{60}	15.9	X	341.90450	170.22431	139.25912	16.33502	0.1340613	0.19301284	2.9653679	21	7 8.9	19.5
282799 2006 QS_{62}	15.9	X	277.51299	220.08159	144.87841	9.02513	0.3151835	0.18552582	3.0446203	21	5 23.8	20.8
282800 2006 QK_{64}	17.1	X	353.82872	7.43445	322.54901	1.97261	0.1043870	0.26435860	2.4044020	21	9 4.9	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282801 2006 QN_{91}	15.6	X	233.13056	178.53878	163.56353	17.91548	0.2140743	0.17849612	3.1240420	21	3 28.7	20.9
282802 2006 QG_{92}	17.5	X	20.68150	252.24008	143.45013	1.09471	0.2055638	0.27823778	2.3237638	21	—	—
282803 2006 QD_{100}	15.3	X	201.58972	128.49874	216.95362	19.85850	0.2368166	0.17063804	3.2192310	21	3 1.5	21.2
282804 2006 QC_{116}	15.4	X	230.70844	107.54752	279.66783	7.68562	0.0618881	0.18273706	3.0755182	21	5 27.0	19.9
282805 2006 QU_{136}	15.4	X	247.04587	139.72773	275.20725	9.64536	0.1259639	0.19235037	2.9721726	21	7 12.7	19.9
282806 2006 QN_{141}	15.5	X	269.07685	32.92101	306.54386	8.75931	0.0964332	0.18180960	3.0859687	21	5 4.9	20.2
282807 2006 QG_{147}	16.3	X	295.81436	157.92881	153.83117	2.61643	0.2457001	0.18377568	3.0639196	21	4 15.4	20.7
282808 2006 QP_{184}	15.8	X	328.54255	195.77687	157.72060	9.72154	0.0829305	0.19298168	2.9656871	21	8 19.3	19.5
282809 2006 RB_{3}	15.2	X	307.00720	334.42177	308.86778	14.94498	0.0532353	0.17811624	3.1284823	21	4 13.5	19.9
282810 2006 RC_{5}	15.1	X	297.40775	27.90503	293.11037	10.05812	0.0834230	0.18376986	3.0639843	21	5 20.5	19.4
282811 2006 RZ_{9}	15.7	X	40.29726	44.97685	288.14453	5.00370	0.0694329	0.20315758	2.8658097	21	11 7.7	19.6
282812 2006 RQ_{18}	16.0	X	256.32855	121.17874	197.54057	16.02519	0.3097771	0.17627018	3.1502872	21	3 9.5	21.5
282813 2006 RJ_{20}	15.6	X	243.16372	87.59013	289.09651	9.54021	0.1920072	0.18135152	3.0911631	21	5 14.4	20.8
282814 2006 RQ_{38}	15.5	X	222.37331	120.60401	207.90997	10.02767	0.1537261	0.17141114	3.2095442	21	3 2.4	20.8
282815 2006 RN_{60}	16.1	X	281.41183	164.17252	172.47857	10.31561	0.0705269	0.18294924	3.0731397	21	5 25.4	20.6
282816 2006 RL_{80}	15.9	X	261.72842	156.82754	176.28512	9.22895	0.0945647	0.17719568	3.1393083	21	4 24.3	20.6
282817 2006 RT_{90}	16.3	X	267.22222	126.69577	189.18689	9.70466	0.2292893	0.17648109	3.1477768	21	3 23.5	21.3
282818 2006 SD_{43}	16.9	X	204.82023	218.95551	193.58634	17.56511	0.1786205	0.24225692	2.5485036	21	5 25.7	21.3
282819 2006 SR_{44}	15.1	X	253.83394	242.94124	101.83585	12.45748	0.1592838	0.17902239	3.1179165	21	4 26.6	20.1
282820 2006 SH_{59}	15.9	X	259.41566	96.42811	204.34810	25.74402	0.1940437	0.17408656	3.1765758	21	2 26.0	21.3
282821 2006 SP_{111}	17.1	X	253.60136	80.89491	206.05452	20.74637	0.0709525	0.36715554	1.9315353	21	1 12.2	20.0
282822 2006 SA_{118}	17.5	X	211.87873	199.28634	193.64096	3.41017	0.2112702	0.24155685	2.5534252	21	5 5.5	21.9
282823 2006 SL_{214}	16.4	X	356.59968	188.00189	147.72650	2.51691	0.1330628	0.19483894	2.9468105	21	9 12.2	19.8
282824 2006 SY_{219}	15.4	X	193.07837	197.82888	176.31499	8.54056	0.0535344	0.17181713	3.2044863	21	4 1.9	20.2
282825 2006 SS_{249}	15.9	X	267.26856	67.62511	216.01743	3.27959	0.1352883	0.16915089	3.2380722	21	2 23.2	20.9
282826 2006 SL_{306}	16.8	X	250.46087	145.68061	188.40138	8.53219	0.1744156	0.23958891	2.5673884	21	3 29.3	20.7
282827 2006 SD_{349}	15.6	X	279.65420	244.33666	122.23981	19.61832	0.3634317	0.18338520	3.0682674	21	5 25.8	20.8
282828 2006 SL_{405}	15.9	X	260.66183	188.50783	118.92465	2.17993	0.1564019	0.17218300	3.1999451	21	3 16.2	20.9
282829 2006 TP_{45}	17.3	X	217.85182	171.27102	213.48064	8.23868	0.1691297	0.23942678	2.5685473	21	5 1.8	21.4
282830 2006 TU_{67}	16.0	X	272.48930	46.82169	287.98388	11.73348	0.2154560	0.17916090	3.1163093	21	4 16.5	21.0
282831 2006 TZ_{70}	17.2	X	232.35179	232.57935	145.18118	4.95700	0.1751857	0.24334288	2.5409159	21	5 7.4	21.2
282832 2006 TN_{77}	15.5	X	320.11441	25.50706	287.12996	9.98282	0.1444068	0.18449621	3.0559372	21	6 4.0	19.4
282833 2006 TK_{95}	15.4	X	244.85448	263.80302	109.49054	26.75178	0.2245908	0.17894525	3.1188125	21	5 20.9	20.9
282834 2006 UZ_{2}	15.2	X	252.85295	273.71679	55.60645	15.12183	0.2574462	0.17357755	3.1827828	21	4 1.1	20.7
282835 2006 UG_{8}	16.1	X	239.19905	165.36292	165.34454	4.83047	0.1241981	0.16959308	3.2324412	21	3 25.5	21.2
282836 2006 UJ_{28}	16.4	X	1.51657	46.73952	211.55667	12.81300	0.0309616	0.24408260	2.5357796	21	6 2.5	19.7
282837 2006 UO_{47}	15.5	X	277.80781	70.84806	233.17368	10.46096	0.0706136	0.17619914	3.1511339	21	4 5.9	20.2
282838 2006 UU_{76}	15.8	X	231.91838	116.81051	232.80697	10.71746	0.1628533	0.17193456	3.2030270	21	4 3.9	21.1
282839 2006 UH_{124}	15.4	X	307.03693	32.25039	297.45939	9.30050	0.2032888	0.18483924	3.0521551	21	5 27.7	19.4
282840 2006 US_{139}	16.8	X	194.51635	252.16282	179.20660	3.07967	0.1377919	0.24049848	2.5609111	21	6 8.8	20.8
282841 2006 UW_{146}	16.3	X	337.21868	81.60761	251.53249	9.07270	0.1360798	0.19219631	2.9737607	21	7 30.4	19.9
282842 2006 UM_{184}	16.3	X	188.39991	66.14912	320.02148	6.53561	0.2073658	0.23398934	2.6081866	21	4 4.9	20.9
282843 2006 UX_{186}	15.2	X	225.79094	100.75225	222.57254	24.61908	0.1944810	0.16946763	3.2340362	21	2 21.4	21.1
282844 2006 UP_{203}	16.3	X	246.38996	256.91747	247.57482	20.27082	0.1844601	0.26433480	2.4045464	21	11 2.6	19.5
282845 2006 UZ_{291}	15.7	X	151.81108	186.64437	283.60084	9.24350	0.0543133	0.18404987	3.0608758	21	6 12.0	20.3
282846 2006 VQ_{12}	16.4	X	46.90296	169.01771	280.93117	22.36637	0.0363534	0.35147984	1.9885466	21	—	—
282847 2006 VJ_{30}	16.7	X	122.40579	236.21742	257.04580	3.71765	0.1084697	0.23632486	2.5909743	21	6 11.5	20.4
282848 2006 VL_{34}	15.7	X	316.46198	314.87579	35.83060	1.45638	0.2160077	0.18555523	3.0442986	21	7 10.3	19.2
282849 2006 VV_{56}	16.3	X	291.69326	239.05303	141.96407	1.23060	0.2488229	0.18470087	3.0536793	21	7 6.4	20.2
282850 2006 WX_{100}	15.4	X	218.88619	88.30961	295.29696	6.26733	0.0777236	0.17011974	3.2257663	21	5 7.7	20.3
282851 2006 XE_{6}	16.7	X	249.20638	117.03557	253.87417	19.68297	0.0955504	0.37663880	1.8989754	21	5 12.3	19.0
282852 2006 XK_{69}	16.8	X	229.49122	166.72807	111.20419	7.63143	0.0948803	0.27772115	2.3266448	21	—	—
282853 2007 AL_{30}	17.7	X	7.23854	117.72543	229.47935	1.51872	0.1526527	0.31790866	2.1261855	21	11 13.7	19.2
282854 2007 BZ_{12}	17.7	X	352.13362	184.60598	17.51393	2.08427	0.1338696	0.28255134	2.3000528	21	2 9.8	19.9
282855 2007 BP_{21}	16.9	X	126.02946	231.57170	330.98753	3.98780	0.1414457	0.24110612	2.5566065	21	9 16.9	20.8
282856 2007 BA_{42}	16.3	X	244.76783	15.56594	137.02328	7.00444	0.0770680	0.25476878	2.4643662	21	11 29.8	19.5
282857 2007 BN_{47}	17.4	X	30.91552	102.34225	90.64266	3.40274	0.0966467	0.28718705	2.2752344	21	4 12.9	19.5
282858 2007 CX_{12}	17.2	X	162.24454	73.06950	119.05291	5.65143	0.1511145	0.24436006	2.5338597	21	10 12.7	21.3
282859 2007 CU_{23}	17.1	X	341.76450	295.71070	142.54069	7.82265	0.1511478	0.26169317	2.4207008	21	—	—
282860 2007 CM_{27}	17.7	X	16.29829	32.24397	141.33788	5.00221	0.1746057	0.28195940	2.3032708	21	2 5.9	19.2
282861 2007 DQ_{25}	16.4	X	332.75763	260.56190	357.51532	5.69557	0.0196159	0.21876202	2.7278559	21	4 21.9	20.1
282862 2007 DE_{31}	17.9	X	23.19605	125.53731	156.32881	3.90148	0.1454159	0.29914774	2.2141765	21	8 25.8	19.5
282863 2007 DF_{33}	17.6	X	359.11538	143.77328	152.51989	5.68497	0.1379389	0.29675557	2.2260596	21	7 25.9	19.1
282864 2007 DQ_{49}	17.0	X	330.59811	109.13071	126.55702	6.06978	0.1131836	0.28243014	2.3007108	21	2 27.7	19.5
282865 2007 DB_{97}	17.3	X	300.58048	37.15848	185.63311	2.59386	0.1816666	0.27077065	2.3662919	21	—	—
282866 2007 DC_{110}	15.7	X	325.84949	221.92368	193.85488	4.80663	0.1559150	0.17939339	3.1136163	21	11 1.3	19.3
282867 2007 DZ_{116}	16.3	X	140.57517	88.52255	8.11922	25.31070	0.3595558	0.22704185	2.6611260	21	5 25.7	21.6
282868 2007 EQ_{1}	16.3	X	32.50840	268.48333	333.28667	11.83004	0.2285454	0.22383537	2.6864797	21	7 23.1	19.0
282869 2007 EV_{17}	17.7	X	321.45409	36.93353	172.76008	0.97960	0.1334184	0.27321942	2.3521319	21	1 7.4	20.5
282870 2007 EV_{30}	17.2	X	346.24513	185.61805	125.84408	4.17014	0.1800429	0.30071785	2.2064626	21	7 21.3	18.4
282871 2007 EO_{47}	17.7	X	287.98563	70.24170	176.08590	6.41977	0.0673574	0.27276312	2.3547544	21	1 22.1	20.9
282872 2007 EV_{55}	17.4	X	285.82887	221.77933	111.94155	3.89037	0.1500042	0.29026327	2.2591305	21	5 7.4	20.1
282873 2007 ET_{65}	17.2	X	28.95652	222.37722	103.95845	3.65627	0.2375735	0.30579811	2.1819570	21	11 30.9	19.6
282874 2007 EH_{68}	17.1	X	39.12000	53.79333	147.97123	2.56513	0.1499581	0.28655880	2.2785587	21	5 17.2	18.8
282875 2007 EH_{90}	17.1	X	351.38790	356.71453	132.99363	4.83763	0.1774487	0.26846417	2.3798258	21	—	—
282876 2007 EU_{101}	16.9	X	256.91702	105.05308	124.97165	4.67781	0.0668722	0.26357054	2.4091923	21	—	—
282877 2007 ER_{104}	16.9	X	65.87573	169.69863	11.94721	4.79376	0.0505977	0.22038433	2.7144525	21	5 23.5	20.5
282878 2007 EO_{110}	17.3	X	284.97462	117.77721	92.11471	3.19348	0.1675537	0.26386366	2.4074078	21	—	—
282879 2007 EV_{132}	17.9	X	282.82825	80.83058	168.26801	2.68345	0.1518714	0.27143075	2.3624539	21	1 11.8	21.4
282880 2007 EA_{157}	17.2	X	284.83873	162.35136	106.50595	3.13040	0.2224370	0.27136313	2.3628464	21	2 1.5	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282881 2007 EN_{158}	17.2	X	354.69463	108.23886	158.81501	5.93243	0.0765497	0.29463027	2.2367518	21	5 31.4	19.4
282882 2007 EA_{159}	18.4	X	330.61666	67.31877	177.05336	2.83468	0.1446885	0.28380785	2.2932590	21	3 4.7	21.0
282883 2007 EQ_{160}	17.3	X	296.41841	359.40495	208.30064	10.75750	0.1704813	0.26596200	2.3947287	21	—	—
282884 2007 ED_{167}	17.1	X	290.80726	111.69689	151.78126	2.48753	0.1716871	0.27157665	2.3616077	21	2 5.3	20.2
282885 2007 ES_{169}	17.6	X	272.79328	37.52480	184.88800	6.52669	0.0750969	0.26312943	2.4118841	21	—	—
282886 2007 ER_{175}	17.2	X	253.26789	66.42844	209.17392	3.87551	0.0879366	0.26937138	2.3744795	21	1 18.9	20.6
282887 2007 EE_{191}	17.4	X	133.74627	229.93600	188.85299	6.91491	0.0499271	0.27653162	2.3333122	21	3 3.6	20.4
282888 2007 EO_{210}	17.7	X	19.19123	346.98944	186.41893	4.22036	0.0947545	0.28052444	2.3111187	21	2 18.0	19.9
282889 2007 FP_{25}	17.6	X	286.86615	153.59769	30.23283	1.95216	0.1350980	0.26141512	2.4224170	21	—	—
282890 2007 FZ_{30}	17.2	X	255.44144	103.08015	190.17840	5.86523	0.1414663	0.27209075	2.3586320	21	2 8.1	20.8
282891 2007 GE_{8}	17.6	X	308.35126	116.81895	196.80502	4.12143	0.1752713	0.28610774	2.2809529	21	5 6.0	19.9
282892 2007 GB_{11}	17.5	X	82.36518	54.92140	153.78852	5.72517	0.0268402	0.29642221	2.2277283	21	7 21.3	20.1
282893 2007 GQ_{18}	17.0	X	103.48362	30.81490	234.79653	1.85662	0.1740379	0.23478519	2.6022894	21	11 14.9	21.0
282894 2007 GH_{21}	17.3	X	278.73792	92.81264	185.43974	2.16434	0.1811841	0.27006240	2.3704273	21	2 10.4	20.8
282895 2007 GZ_{24}	15.9	X	111.94054	30.66740	93.98609	19.52744	0.0657693	0.21704454	2.7422274	21	5 19.3	19.9
282896 2007 GW_{25}	17.5	X	214.40675	124.72187	148.34805	4.75938	0.1308840	0.25876150	2.4389503	21	—	—
282897 Kaltenbrunner	17.4	X	272.11539	201.45738	81.44461	2.62962	0.1317955	0.26986744	2.3715688	21	2 15.9	20.7
282898 2007 GQ_{30}	16.8	X	250.71488	63.19590	201.97553	5.95717	0.0982696	0.26527709	2.3988489	21	1 3.5	20.4
282899 2007 GW_{35}	16.6	X	72.37627	195.06670	68.22795	4.88547	0.1850667	0.22926472	2.6438972	21	10 14.1	20.3
282900 2007 GG_{50}	15.7	X	108.50220	333.29235	221.43265	14.09065	0.1229299	0.22631070	2.6668545	21	8 11.9	20.0
282901 2007 GV_{50}	15.7	X	93.34136	71.96749	199.41719	28.81991	0.3403146	0.23102975	2.6304140	21	11 24.7	20.7
282902 2007 HN_{11}	17.4	X	263.22421	300.75015	278.84311	0.52396	0.1392839	0.25974286	2.4328032	21	—	—
282903 Masada	17.2	X	17.77868	107.09094	120.13437	6.85980	0.0564049	0.28207267	2.3026541	21	5 13.1	19.7
282904 2007 HV_{27}	17.2	X	277.81298	41.57715	205.47386	5.46896	0.1779932	0.26480378	2.4017065	21	1 2.9	21.0
282905 2007 HP_{47}	17.1	X	286.52520	36.05224	154.15588	3.14308	0.0350492	0.25799529	2.4437768	21	—	—
282906 2007 HV_{54}	16.8	X	344.16203	30.90478	103.80392	6.86510	0.0496379	0.26019565	2.4299800	21	—	—
282907 2007 HA_{66}	16.7	X	237.56985	169.96652	128.15170	11.96646	0.2703357	0.26218028	2.4177016	21	1 27.7	20.8
282908 2007 HE_{81}	17.0	X	332.18152	331.14411	211.55024	5.84690	0.0424654	0.26704327	2.3882601	21	—	—
282909 2007 HQ_{88}	16.9	X	227.84777	177.84320	110.82860	5.13376	0.0772904	0.26582569	2.3955473	21	1 9.9	20.2
282910 2007 HY_{95}	16.6	X	274.54896	201.23821	92.65955	8.07624	0.1138098	0.27180319	2.3602953	21	3 9.5	19.9
282911 2007 HD_{97}	16.2	X	63.50363	85.34740	122.52749	6.25987	0.0958946	0.21849603	2.7300694	21	7 3.2	19.7
282912 2007 JR_{3}	17.0	X	218.17588	112.40116	145.35366	6.93171	0.1152381	0.25475167	2.4644765	21	—	—
282913 2007 JE_{43}	15.9	X	18.40066	175.27300	74.70813	13.38668	0.2543815	0.21324183	2.7747325	21	7 2.1	18.2
282914 2007 LR_{14}	17.2	X	241.49949	222.07831	125.51157	3.24124	0.2454128	0.27097601	2.3650962	21	4 1.4	21.1
282915 2007 LF_{19}	16.1	X	128.18744	153.19977	89.46518	13.16822	0.2902750	0.23115247	2.6294830	21	11 15.9	21.0
282916 2007 LH_{24}	17.5	X	286.94920	45.75062	212.27714	2.10424	0.1689810	0.26732194	2.3866001	21	1 25.9	21.1
282917 2007 LA_{33}	16.6	X	231.51072	52.46233	284.44994	7.56690	0.3316318	0.25994153	2.4315634	21	3 5.2	21.3
282918 2007 NA_{3}	16.2	X	93.04480	219.14457	99.66489	13.09566	0.1922415	0.23384451	2.6092635	21	—	—
282919 2007 NW_{6}	15.9	X	49.64614	241.21261	102.90610	17.63497	0.2477168	0.22665797	2.6641299	21	—	—
282920 2007 OS_{5}	16.4	X	264.92444	347.69890	345.75690	6.30435	0.1315214	0.26634766	2.3924165	21	4 11.9	19.8
282921 2007 OA_{6}	16.3	X	188.63409	163.25600	110.08732	7.49869	0.1368967	0.24183866	2.5514412	21	—	—
282922 2007 PL_{3}	16.4	X	135.27929	180.72999	132.39292	9.33698	0.1352790	0.23846166	2.5754730	21	—	—
282923 2007 PO_{3}	16.4	X	97.79121	227.03271	133.25349	16.91589	0.1947313	0.23690551	2.5867390	21	—	—
282924 2007 PP_{11}	17.0	X	249.42601	347.00070	343.30987	7.95343	0.2180942	0.26247822	2.4158717	21	3 17.3	20.8
282925 2007 PF_{16}	16.0	X	76.45055	195.27341	139.65247	9.05502	0.1182839	0.22762231	2.6566000	21	—	—
282926 2007 PN_{18}	16.7	X	236.60158	77.53699	306.62679	6.68487	0.1180438	0.26960569	2.3731035	21	5 19.6	20.2
282927 2007 PB_{24}	16.6	X	215.33401	86.89496	279.75175	5.45716	0.1862614	0.26014873	2.4302721	21	4 1.7	20.7
282928 2007 PD_{24}	15.3	X	29.27178	333.43765	318.86004	12.96451	0.1859279	0.21308691	2.7760771	21	9 12.9	18.7
282929 2007 PH_{29}	15.8	X	83.82183	356.98481	287.07529	13.27905	0.2282692	0.22569763	2.6716817	21	11 20.8	20.3
282930 2007 PM_{30}	15.9	X	35.79639	169.80630	142.72709	10.46253	0.1697940	0.21657964	2.7461503	21	10 28.7	19.5
282931 2007 PC_{31}	16.4	X	191.46066	180.64037	154.15057	7.62599	0.1789030	0.25301700	2.4757279	21	2 4.0	20.5
282932 2007 PU_{34}	16.3	X	41.65365	193.41264	151.95686	9.65444	0.2931215	0.22316639	2.6918459	21	12 31.9	20.3
282933 2007 PP_{40}	15.5	X	320.59037	185.74645	209.29535	14.03405	0.3177030	0.21116176	2.7929246	21	9 3.5	18.0
282934 2007 PX_{44}	15.6	X	65.85543	260.39449	125.27020	29.60695	0.3244556	0.22918033	2.6445461	21	—	—
282935 2007 PK_{49}	16.8	X	162.71960	124.48304	196.23645	0.20255	0.1311749	0.24524405	2.5277671	21	—	—
282936 2007 QA_{10}	15.3	X	191.36284	265.29972	148.08859	9.46372	0.0944581	0.19127695	2.9832819	21	5 18.5	20.0
282937 2007 QV_{11}	15.7	X	71.31088	253.16474	181.09656	10.65998	0.0244063	0.17235873	3.1977698	21	1 17.1	20.3
282938 2007 RQ_{11}	16.5	X	336.97416	192.56421	182.76754	13.06039	0.1950805	0.21279155	2.7786454	21	10 3.4	18.9
282939 2007 RG_{13}	16.5	X	115.81945	159.82150	161.94566	14.33757	0.1836013	0.23234025	2.6205136	21	—	—
282940 2007 RD_{18}	16.1	X	282.83343	119.02906	217.84912	7.93794	0.0622577	0.19657712	2.9294139	21	5 26.6	20.1
282941 2007 RO_{24}	15.2	X	9.75125	136.07490	266.59881	21.06906	0.0862829	0.22610297	2.6684877	21	12 31.6	18.6
282942 2007 RQ_{37}	15.8	X	140.31378	263.73216	154.91849	5.89566	0.1404776	0.17993938	3.1073147	21	4 6.1	20.6
282943 2007 RU_{39}	17.1	X	102.37653	59.49139	237.81595	3.28584	0.2503949	0.23066508	2.6331857	21	12 25.4	21.6
282944 2007 RQ_{42}	16.2	X	304.53660	164.83058	237.89419	5.75885	0.0177717	0.21142279	2.7906252	21	9 24.4	19.9
282945 2007 RS_{45}	16.6	X	115.86909	111.44816	205.88686	6.51006	0.1950475	0.23179666	2.6246089	21	—	—
282946 2007 RA_{75}	16.3	X	107.08527	284.35361	137.08969	2.06417	0.1652574	0.17568439	3.1572861	21	3 7.4	20.7
282947 2007 RG_{99}	16.5	X	335.57488	223.48616	190.51662	2.93412	0.0952411	0.22120241	2.7077557	21	11 25.7	19.5
282948 2007 RY_{101}	16.1	X	30.14083	84.20848	214.91946	6.89030	0.2116174	0.21311212	2.7758582	21	10 2.0	19.4
282949 2007 RQ_{112}	15.7	X	82.49987	297.75841	177.81847	10.34968	0.0655286	0.17967956	3.1103095	21	3 28.8	19.8
282950 2007 RZ_{125}	16.2	X	337.68750	198.79167	163.06971	12.37359	0.2230433	0.20926631	2.8097640	21	9 12.7	18.7
282951 2007 RN_{144}	16.1	X	73.88550	171.31221	189.34513	14.45109	0.2913214	0.22887367	2.6469079	21	—	—
282952 2007 RV_{187}	16.1	X	144.76525	25.14355	257.52509	11.73267	0.1704512	0.23231561	2.6206988	21	—	—
282953 2007 RN_{200}	16.5	X	70.44354	16.08523	332.30285	2.85237	0.1735053	0.22579822	2.6708882	21	—	—
282954 2007 RX_{201}	16.3	X	75.49140	127.10861	191.48462	12.77468	0.0970625	0.22122732	2.7075524	21	12 11.9	20.4
282955 2007 RE_{222}	16.0	X	240.03804	160.43637	201.64981	10.30847	0.0769921	0.18816532	3.0160809	21	5 6.1	20.4
282956 2007 RY_{236}	15.9	X	91.62352	112.32461	230.94870	13.18272	0.1332680	0.22769149	2.6560618	21	—	—
282957 2007 RG_{241}	15.4	X	181.03186	210.96177	186.18147	17.44427	0.2386661	0.18158923	3.0884648	21	4 20.9	20.8
282958 2007 RM_{253}	17.3	X	166.83389	61.69900	174.02332	13.93307	0.2699033	0.23415257	2.6069744	21	12 2.9	22.2
282959 2007 RR_{257}	17.4	X	71.53790	107.46841	159.73179	9.91589	0.2706205	0.21791388	2.7349294	21	10 28.2	21.7
282960 2007 RZ_{260}	15.7	X	45.16643	4.09602	165.27222	11.30179	0.0199081	0.18330001	3.0692179	21	4 12.4	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
282961 2007 RU_{263}	17.1	X	211.56326	195.18033	168.06596	2.64543	0.1899283	0.25913696	2.4365938	21	3 28.6	20.9
282962 2007 RV_{273}	16.7	X	51.07074	129.04230	211.18092	5.48817	0.0266127	0.21891153	2.7266138	21	11 29.3	20.4
282963 2007 RO_{277}	16.0	X	131.38632	148.79306	123.45249	15.52233	0.2149347	0.22929501	2.6436643	21	12 18.6	20.7
282964 2007 RN_{281}	15.2	X	328.85742	151.90005	296.20649	21.27315	0.0489866	0.22626879	2.6671838	21	—	—
282965 2007 RB_{287}	16.6	X	87.09614	165.83790	150.86185	10.37773	0.2674036	0.22606909	2.6687543	21	—	—
282966 2007 RA_{310}	16.3	X	27.30681	158.21014	175.50600	17.43185	0.1278032	0.21903605	2.7255803	21	11 6.4	19.9
282967 2007 RK_{311}	16.2	X	34.49422	135.89527	154.50698	20.98733	0.1949531	0.21281720	2.7784222	21	9 29.8	19.6
282968 2007 SS	16.4	X	104.74250	216.09863	127.94372	16.64643	0.1955846	0.23424778	2.6062679	21	—	—
282969 2007 SP_{4}	15.4	X	274.59840	242.44593	352.76961	15.84996	0.1866593	0.17694848	3.1422314	21	1 3.3	20.6
282970 2007 SA_{9}	15.8	X	190.35501	225.64248	177.61359	11.05166	0.0246066	0.18619264	3.0373468	21	5 4.7	20.3
282971 2007 SP_{23}	16.8	X	104.61535	4.31015	300.40093	5.71234	0.1983187	0.22812209	2.6527185	21	—	—
282972 2007 TE_{4}	16.0	X	30.88899	258.11794	78.85020	13.65237	0.1831916	0.21278716	2.7786836	21	11 21.8	19.5
282973 2007 TJ_{11}	17.0	X	109.82248	126.70916	205.72198	2.33976	0.2597686	0.23105392	2.6302306	21	—	—
282974 2007 TQ_{14}	16.1	X	359.93772	101.44091	223.07732	13.89484	0.2071763	0.20930743	2.8093960	21	9 1.8	19.2
282975 2007 TS_{14}	15.3	X	179.61496	142.68190	251.05645	9.94376	0.1727365	0.18044963	3.1014543	21	4 9.6	20.5
282976 2007 TP_{27}	16.3	X	66.08781	92.47644	199.78489	2.80282	0.1493338	0.21396105	2.7685109	21	11 4.0	20.0
282977 2007 TW_{39}	15.9	X	177.40135	172.71431	200.46664	10.00073	0.1087651	0.17565334	3.1576581	21	3 14.1	20.9
282978 2007 TA_{41}	16.7	X	1.31267	162.35885	210.34689	8.06162	0.2042734	0.21224674	2.7833983	21	11 21.9	19.6
282979 2007 TV_{41}	16.5	X	91.85241	144.24997	250.14295	6.74614	0.1933536	0.23349127	2.6118944	21	1 2.9	19.4
282980 2007 TQ_{55}	16.5	X	20.98274	8.03226	299.20739	0.98501	0.0593913	0.20338423	2.8636803	21	9 7.9	20.1
282981 2007 TL_{66}	15.9	X	220.90141	223.42458	117.65191	16.17328	0.0762674	0.18051238	3.1007355	21	3 26.9	20.9
282982 2007 TM_{80}	16.1	X	194.68771	262.54407	120.74262	3.25322	0.1482486	0.18273659	3.0755235	21	4 14.4	21.1
282983 2007 TL_{94}	16.0	X	11.94607	200.88243	208.27359	13.01725	0.1698651	0.22342877	2.6897380	21	—	—
282984 2007 TU_{109}	16.6	X	79.60900	94.56366	229.37813	3.79639	0.1748783	0.22353360	2.6888970	21	12 30.6	20.8
282985 2007 TO_{122}	15.8	X	313.07716	194.28074	95.91740	2.52239	0.2003809	0.19062220	2.9901093	21	4 16.8	19.5
282986 2007 TA_{136}	16.0	X	106.00919	16.40044	301.14535	13.73017	0.1696494	0.22908111	2.6453097	21	—	—
282987 2007 TK_{155}	16.7	X	154.49288	34.07553	294.86046	3.62488	0.2602018	0.23953015	2.5678083	21	1 4.7	20.8
282988 2007 TD_{156}	15.5	X	216.35278	140.17349	218.47568	12.99641	0.1141126	0.18280544	3.0747511	21	4 2.2	20.4
282989 2007 TP_{184}	16.1	X	129.69868	213.96064	135.80063	6.16839	0.3417435	0.23628195	2.5912880	21	1 15.8	20.1
282990 2007 TJ_{222}	16.0	X	279.63010	96.89392	185.88542	6.94446	0.1216240	0.18090760	3.0962178	21	3 7.6	20.4
282991 2007 TC_{245}	16.0	X	75.03288	94.36443	336.57379	12.70502	0.1447038	0.23731825	2.5837389	21	1 20.5	18.9
282992 2007 TL_{246}	16.4	X	49.56313	328.41816	359.40846	13.01326	0.2367043	0.21855917	2.7295436	21	12 9.2	20.5
282993 2007 TN_{246}	16.3	X	126.14175	19.96735	342.43585	10.37578	0.1632470	0.23462218	2.6034946	21	1 7.2	19.9
282994 2007 TJ_{248}	16.6	X	18.76355	111.48732	257.98448	7.35871	0.1934747	0.21654409	2.7464508	21	12 16.4	19.8
282995 2007 TF_{282}	16.4	X	287.57668	101.20507	227.26056	0.99714	0.0831812	0.19457210	2.9495041	21	5 18.3	20.3
282996 2007 TP_{283}	16.6	X	30.94866	127.58192	194.54850	11.64370	0.1879399	0.21338593	2.7734831	21	11 2.7	19.9
282997 2007 TR_{316}	16.0	X	208.15244	285.19092	74.26425	4.54397	0.1597295	0.17989728	3.1077995	21	3 29.9	21.1
282998 2007 TV_{370}	15.2	X	225.33446	123.63818	250.77603	15.92622	0.2015857	0.18538494	3.0461626	21	4 24.5	20.5
282999 2007 TM_{373}	16.1	X	211.87225	231.67868	125.49124	1.96761	0.1710640	0.18106856	3.0943827	21	3 28.8	21.1
283000 2007 TE_{386}	15.4	X	274.99879	181.34547	136.43723	10.58595	0.1092696	0.18849724	3.0125393	21	4 20.1	19.9
283001 2007 TF_{386}	16.5	X	28.08465	228.32976	116.01934	8.67804	0.1389174	0.21574034	2.7532679	21	11 21.6	20.1
283002 2007 TH_{387}	16.1	X	255.44991	102.57326	206.31557	4.49994	0.1023430	0.18152192	3.0892282	21	3 14.8	20.8
283003 2007 TS_{390}	16.5	X	245.75329	160.96461	187.41862	3.83665	0.1282333	0.18781704	3.0198084	21	4 20.1	21.1
283004 2007 TQ_{393}	15.6	X	47.85213	337.44836	239.74190	13.29419	0.0336376	0.19008190	2.9957728	21	6 14.8	19.8
283005 2007 TZ_{411}	16.0	X	70.60572	58.14293	267.82432	13.37021	0.1787138	0.22321474	2.6914572	21	12 24.6	19.9
283006 2007 TU_{418}	16.2	X	10.42678	185.72096	186.72558	13.33246	0.1503150	0.21405573	2.7676945	21	12 1.7	19.7
283007 2007 UF	17.9	X	160.78817	28.42122	259.16184	1.72119	0.1740327	0.30350061	2.1929548	21	—	—
283008 2007 UR_{46}	16.5	X	15.74204	174.85083	205.88967	7.94268	0.2000494	0.21589457	2.7519566	21	12 26.7	19.9
283009 2007 UT_{50}	16.8	X	69.64030	188.43446	183.53556	6.14613	0.3299531	0.22579749	2.6708939	21	—	—
283010 2007 UG_{83}	16.9	X	70.96866	117.39665	228.44490	8.24527	0.1602382	0.22108718	2.7086965	21	—	—
283011 2007 UH_{116}	15.5	X	230.70150	349.37157	67.54234	11.68764	0.0935241	0.19054178	2.9909505	21	7 1.0	20.0
283012 2007 VQ_{38}	15.3	X	217.07644	118.17868	270.08570	11.60243	0.0561196	0.18299402	3.0726384	21	5 12.2	20.0
283013 2007 VA_{50}	16.1	X	248.84585	124.82564	259.08280	7.36343	0.0376051	0.18942200	3.0027265	21	6 16.6	20.2
283014 2007 VC_{94}	16.5	X	131.30382	17.71643	6.94172	6.38353	0.1996039	0.23849235	2.5752521	21	2 14.3	20.3
283015 2007 VT_{98}	18.4	X	134.69069	17.64942	331.00971	1.74261	0.1976935	0.30771263	2.1728972	21	—	—
283016 2007 VF_{124}	15.9	X	10.00647	74.48510	244.33388	8.49674	0.1815681	0.20202466	2.8765137	21	9 13.3	19.1
283017 2007 VW_{126}	15.4	X	155.21192	171.94209	269.55106	9.17409	0.0924840	0.17993355	3.1073818	21	5 12.1	20.2
283018 2007 VA_{156}	16.5	X	146.44196	301.36220	323.58037	3.47348	0.0268620	0.21682455	2.7440820	21	12 19.6	20.4
283019 2007 VD_{182}	16.2	X	343.24364	188.03722	287.23967	11.88991	0.1165798	0.22472787	2.6793622	21	—	—
283020 2007 VU_{193}	17.5	X	61.68618	145.66595	288.95107	4.83524	0.1612422	0.29834241	2.2181592	21	—	—
283021 2007 VN_{208}	15.5	X	266.51915	203.52042	131.24877	14.09174	0.1135939	0.18673097	3.0315063	21	5 2.4	20.2
283022 2007 VA_{234}	15.3	X	150.99809	161.63283	239.69925	27.00301	0.1842295	0.17207665	3.2012634	21	3 21.8	20.9
283023 2007 VJ_{253}	15.4	X	144.14239	197.06717	260.12433	10.46059	0.1086651	0.18168136	3.0874206	21	5 21.9	20.2
283024 2007 VV_{267}	15.7	X	223.70050	142.35765	293.37859	9.42695	0.1184489	0.19234256	2.9722531	21	7 15.2	20.0
283025 2007 VN_{269}	15.7	X	190.59020	123.27258	239.36292	14.44771	0.2084694	0.17438549	3.1729446	21	3 12.1	21.4
283026 2007 VH_{284}	15.2	X	345.19052	9.90278	239.21700	17.27834	0.0810849	0.17890976	3.1192249	21	4 26.1	19.3
283027 2007 VQ_{321}	15.5	X	231.58569	238.46867	136.09821	15.43079	0.1711742	0.18509172	3.0493789	21	5 9.9	20.7
283028 2007 VY_{321}	17.7	X	130.79191	254.78831	107.91332	5.45720	0.1601967	0.30682188	2.1771006	21	—	—
283029 2007 WH_{5}	16.0	X	334.78353	81.45629	230.78773	9.37359	0.0989805	0.19270542	2.9685208	21	7 1.9	19.8
283030 2007 WG_{8}	15.6	X	332.97959	47.49065	268.44202	8.98897	0.0959074	0.19308059	2.9646742	21	7 5.0	19.1
283031 2007 WV_{15}	16.2	X	53.58091	95.55176	230.39088	7.50202	0.1803570	0.21189991	2.7864347	21	12 4.8	20.0
283032 2007 WD_{19}	15.6	X	323.07668	29.13175	225.48862	7.59696	0.0792515	0.17473768	3.1686797	21	4 1.9	19.9
283033 2007 WH_{40}	15.0	X	278.27575	72.35863	278.95818	15.06220	0.0945285	0.18891934	3.0080504	21	6 3.4	19.4
283034 2007 XG_{15}	15.2	X	289.92465	31.67133	255.32863	19.26425	0.1051734	0.17693749	3.1423615	21	3 19.6	20.1
283035 2007 XJ_{46}	15.5	X	205.49161	299.27090	115.47817	10.75020	0.1363013	0.18377414	3.0639366	21	6 1.9	20.5
283036 2007 YE_{52}	15.9	X	29.43726	188.02251	155.67391	15.71153	0.2082425	0.21200126	2.7855466	21	12 3.1	19.7
283037 2008 BG_{8}	15.8	X	246.98144	283.93833	125.24647	22.34848	0.2810649	0.18488166	3.0516883	21	6 22.8	21.1
283038 2008 BS_{14}	15.8	X	243.83431	254.26718	164.30793	11.19891	0.0713069	0.18301736	3.0723772	21	7 19.6	20.4
283039 2008 BV_{29}	17.3	X	5.13036	135.11280	293.56086	4.96560	0.1273572	0.28446072	2.2897488	21	—	—
283040 2008 BJ_{30}	16.5	X	228.69167	192.88917	140.31491	8.60758	0.1001455	0.23341039	2.6124977	21	3 13.9	20.5

ELEMENTS AND OPPOSITION DATES IN 2021

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2021 JULY 5.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283041 2008 CC	17.3	X	248.01263	221.49507	113.66456	24.45581	0.0513764	0.38494835	1.8715484	21	4 2.7	20.0
283042 2008 CC_{73}	16.8	X	172.96101	236.32404	124.69787	24.30645	0.0841094	0.37299114	1.9113360	21	1 21.2	18.7
283043 2008 DD_{15}	17.3	X	38.98449	148.37053	330.25304	5.05551	0.0982579	0.29555900	2.2320637	21	—	—
283044 2008 DH_{67}	16.3	X	35.37232	358.30754	342.17460	8.08974	0.0542480	0.26126721	2.4233312	21	11 17.6	19.5
283045 2008 EW_{16}	17.8	X	356.23321	62.69528	13.43347	1.63021	0.2104889	0.27773804	2.3265504	21	—	—
283046 2008 EB_{36}	15.7	X	47.87523	84.35729	280.41274	8.13218	0.0343153	0.19890696	2.9064938	21	12 22.5	19.5
283047 2008 EU_{84}	17.1	X	201.95134	239.20094	127.15012	22.64724	0.1003172	0.37975240	1.8885814	21	3 14.1	19.7
283048 2008 EA_{143}	17.0	X	294.62055	90.27362	94.76970	7.37981	0.1341312	0.28216234	2.3021663	21	—	—
283049 2008 EQ_{148}	17.4	X	252.84643	236.95095	210.91579	3.94560	0.1546897	0.25767890	2.4457768	21	8 30.2	20.7
283050 2008 FX_{22}	15.6	X	62.52792	284.81057	43.53976	12.22104	0.1667272	0.18518382	3.0483678	21	12 9.6	20.2
283051 2008 FZ_{123}	15.3	X	31.46983	264.85031	53.74690	16.63098	0.0754293	0.17450766	3.1714635	21	10 13.4	19.7
283052 2008 GA_{38}	15.5	X	22.97366	316.28412	55.00735	11.64694	0.0754612	0.18358351	3.0660573	21	11 30.1	19.6
283053 2008 GJ_{120}	17.0	X	315.66056	358.80493	114.69741	5.56498	0.1787724	0.27636937	2.3342253	21	—	—
283054 2008 HN_{19}	16.2	X	291.04724	212.45936	91.10112	16.20057	0.1350425	0.22281088	2.6947084	21	4 18.8	20.2
283055 2008 HS_{29}	15.9	X	117.75771	116.38858	163.10951	12.84498	0.1153640	0.18344773	3.0675701	21	12 5.9	20.9
283056 2008 OH	16.3	X	73.72027	198.34796	122.78058	3.81647	0.1815180	0.24671850	2.5176861	21	12 26.4	20.0
283057 Casteldipiazza	17.3	X	261.71005	168.15752	140.58166	7.80326	0.2211682	0.28505753	2.2865518	21	3 1.0	20.8
283058 2008 ON_{23}	16.0	X	320.14610	260.27749	193.91015	21.56578	0.0607485	0.23593240	2.5938468	21	12 26.1	19.7
283059 2008 PM_{22}	17.1	X	254.58894	171.57205	187.90183	3.52935	0.1915129	0.27949045	2.3168152	21	4 30.9	20.5
283060 2008 QF_{3}	17.3	X	0.77242	149.26551	159.98131	6.54353	0.1730038	0.30243670	2.1980947	21	8 25.7	18.4
283061 2008 QZ_{5}	17.3	X	341.76687	154.43196	156.21355	7.43559	0.1949871	0.29960009	2.2119472	21	7 5.2	18.7
283062 2008 QB_{13}	17.2	X	199.15519	122.80005	166.22489	7.64236	0.1868273	0.26428008	2.4048782	21	—	—
283063 2008 QH_{13}	18.0	X	300.76431	184.46135	147.96828	0.49624	0.2135351	0.29237101	2.2482599	21	5 14.6	20.6
283064 2008 QE_{29}	16.9	X	356.56056	99.15857	245.62430	5.83346	0.2306397	0.30315459	2.1946231	21	10 25.5	18.1
283065 2008 RQ_{36}	18.2	X	311.86307	94.83541	200.42547	1.84454	0.1701469	0.28814132	2.2702082	21	4 14.2	20.8
283066 2008 RC_{41}	17.2	X	283.41891	328.13679	179.94338	4.33155	0.0284244	0.24535963	2.5269733	21	—	—
283067 2008 RL_{45}	18.3	X	308.08933	183.84518	151.73600	1.88960	0.2393145	0.29384784	2.2407206	21	5 26.5	20.4
283068 2008 RB_{98}	15.9	X	143.06192	31.86312	229.56283	16.39891	0.1911566	0.23328137	2.6134609	21	12 13.5	20.4
283069 2008 RK_{112}	17.3	X	3.07144	304.42540	229.49524	2.68162	0.0687195	0.26640860	2.3920516	21	1 29.2	19.9
283070 2008 RE_{132}	16.8	X	162.26053	261.40420	103.04510	6.73277	0.1047107	0.26678684	2.3897902	21	2 6.3	20.0
283071 2008 RS_{145}	17.3	X	208.57742	116.85767	169.54560	7.54941	0.0476763	0.26020948	2.4298939	21	—	—
283072 2008 SZ_{2}	17.1	X	355.55700	174.89461	123.21211	4.98387	0.1915430	0.29992155	2.2103664	21	7 21.8	18.2
283073 2008 SP_{81}	17.6	X	243.33598	98.62147	238.36618	5.72668	0.1251791	0.28086394	2.3092559	21	3 22.8	21.1
283074 2008 SK_{92}	16.8	X	49.55673	99.94721	196.72535	11.46064	0.1621563	0.22903690	2.6456502	21	10 24.6	20.1
283075 2008 SK_{145}	15.5	X	23.19176	82.55303	27.00018	9.60968	0.0620821	0.17599334	3.1535900	21	—	—
283076 2008 SW_{155}	16.8	X	333.03455	309.27022	43.73395	8.96701	0.1784179	0.29955030	2.2121923	21	9 8.8	18.4
283077 2008 SW_{175}	17.7	X	347.83891	103.59005	239.98657	5.81621	0.2049297	0.30117927	2.2042085	21	9 23.1	18.9
283078 2008 ST_{176}	17.5	X	280.43806	160.70888	157.14449	5.50940	0.1895716	0.28358497	2.2944604	21	4 3.9	20.7
283079 2008 SS_{242}	17.0	X	315.98476	198.03441	187.76406	4.68327	0.0188407	0.22164749	2.7041296	21	9 20.8	20.6
283080 2008 SS_{244}	17.5	X	247.18575	131.74930	157.15906	6.32126	0.1157647	0.26942941	2.3741385	21	1 27.9	20.9
283081 2008 SZ_{269}	17.5	X	359.52142	101.61796	236.30182	5.47595	0.1655488	0.30194354	2.2004874	21	10 9.8	19.2
283082 2008 ST_{271}	15.3	X	83.96248	275.48386	193.43522	12.73998	0.1323610	0.18165079	3.0877670	21	3 30.7	19.4
283083 2008 SA_{281}	16.7	X	0.41511	107.60855	236.08807	5.48758	0.0385676	0.21904739	2.7254862	21	9 24.9	20.2
283084 2008 TD_{9}	17.9	X	273.16391	335.15704	38.59463	3.25467	0.1771165	0.28887724	2.2663509	21	6 11.3	20.8
283085 2008 TZ_{18}	17.3	X	250.28642	237.25071	33.89665	1.80132	0.1647742	0.26220542	2.4175471	21	1 9.2	21.0
283086 2008 TB_{21}	16.9	X	353.64229	299.34862	31.41054	6.11532	0.0443194	0.21750613	2.7383464	21	9 2.7	20.4
283087 2008 TT_{89}	17.4	X	292.20914	105.63172	174.18339	0.66088	0.1253010	0.27456175	2.3444593	21	3 5.8	20.6
283088 2008 TX_{94}	17.0	X	18.78090	357.46859	336.72136	6.06232	0.1962980	0.30427049	2.1892540	21	11 16.3	19.2
283089 2008 TN_{117}	16.4	X	306.35829	173.56030	237.49050	4.49024	0.0373852	0.22409400	2.6844123	21	10 8.7	19.9
283090 2008 TK_{166}	17.3	X	181.33729	226.55937	137.79120	6.94131	0.1226900	0.26801852	2.3824631	21	2 27.8	20.7
283091 2008 TK_{171}	16.1	X	68.25807	243.23499	78.84182	6.07943	0.0443451	0.23187283	2.6240341	21	12 2.6	19.4
283092 2008 UK_{51}	16.6	X	12.51554	115.10400	239.44281	4.65795	0.0718680	0.22430000	2.6827685	21	11 1.5	20.0
283093 2008 US_{80}	16.2	X	204.63062	326.33387	255.89975	10.81349	0.2208872	0.23708802	2.5854113	21	12 18.3	20.3
283094 2008 UX_{81}	16.7	X	334.68185	146.14495	122.59224	3.06660	0.0176843	0.20299827	2.8673090	21	5 13.1	20.6
283095 2008 UK_{100}	16.3	X	246.57890	224.32712	209.89870	4.92597	0.1019392	0.21329020	2.7743129	21	8 8.6	20.3
283096 2008 UB_{128}	16.4	X	122.02255	111.89006	212.35572	3.84194	0.1604795	0.24269854	2.5454112	21	—	—
283097 2008 UZ_{130}	17.0	X	232.15506	80.63638	228.92015	8.90214	0.0991970	0.26573125	2.3961149	21	2 5.9	20.7
283098 2008 UR_{138}	16.4	X	133.34968	65.45887	217.50207	9.42848	0.1130484	0.23802505	2.5786215	21	12 30.6	20.6
283099 2008 UE_{145}	17.3	X	203.46316	144.26006	218.08627	12.15425	0.2177207	0.27110265	2.3643597	21	3 15.9	21.5
283100 2008 UX_{159}	15.7	X	312.90419	153.80326	244.59549	26.09676	0.0994550	0.21878896	2.7276320	21	9 15.3	19.7
283101 2008 UV_{173}	17.0	X	324.47125	59.94628	292.98196	4.77830	0.1652349	0.29744642	2.2226115	21	8 10.6	18.6
283102 2008 UY_{176}	16.1	X	287.91281	197.13638	224.19942	8.77056	0.1103628	0.22141771	2.7060002	21	9 13.9	19.5
283103 2008 UB_{188}	16.6	X	32.93934	91.81889	184.98048	4.72514	0.1264889	0.21054201	2.7984026	21	8 23.7	20.0
283104 2008 UX_{188}	18.2	X	357.90709	112.68729	202.92161	2.87271	0.2199071	0.29816393	2.2190443	21	9 1.9	19.3
283105 2008 UD_{210}	17.3	X	196.02063	40.84799	229.31969	4.65960	0.1806721	0.25139921	2.4863377	21	—	—
283106 2008 UJ_{243}	16.0	X	180.09524	328.07457	260.68988	16.72670	0.1497592	0.23209130	2.6223872	21	12 8.6	20.1
283107 2008 UX_{261}	16.8	X	70.82530	142.54917	173.56516	2.84073	0.1093700	0.23008637	2.6375991	21	12 6.5	20.5
283108 2008 UR_{271}	16.3	X	261.24235	8.82343	250.13708	5.32357	0.0873868	0.25870311	2.4393172	21	1 8.8	19.7
283109 2008 UK_{280}	16.4	X	33.48655	288.11999	101.67828	14.41009	0.1820863	0.23877355	2.5732298	21	—	—
283110 2008 UD_{290}	15.7	X	155.83851	5.12122	79.81394	11.44083	0.0935040	0.19372248	2.9581217	21	5 19.6	20.2
283111 2008 UU_{298}	15.8	X	184.88429	231.68372	34.02304	13.73842	0.1476769	0.24386111	2.5373148	21	—	—
283112 2008 US_{304}	16.9	X	260.92546	137.63597	164.44785	5.73245	0.1188428	0.27021329	2.3695447	21	2 28.3	20.2
283113 2008 UE_{336}	16.2	X	221.92962	31.19621	235.15457	13.72911	0.1112892	0.24993257	2.4960550	21	—	—
283114 2008 UD_{342}	16.9	X	322.60104	343.90073	291.78038	7.76310	0.1078084	0.28028722	2.3124225	21	4 9.1	19.6
283115 2008 UD_{354}	16.6	X	65.10087	356.94693	177.35708	1.90173	0.0317743	0.19461182	2.9491027	21	5 13.5	20.6
283116 2008 UX_{360}	15.8	X	310.42324	300.24505	136.59735	12.47051	0.0826669	0.22941093	2.6427737	21	11 21.5	19.2
283117 2008 VU	15.9	X	292.85543	225.70742	224.94492	18.04744	0.0739418	0.22793105	2.6542005	21	11 9.5	19.2
283118 2008 VX	16.9	X	33.93699	245.18417	120.54750	4.90422	0.0949120	0.23372193	2.6101757	21	12 22.2	20.1
283119 2008 VB_{18}	16.5	X	315.98243	208.34595	205.55374	6.35597	0.1305943	0.22560158	2.6724400	21	10 22.3	19.4
283120 2008 VX_{20}	15.9	X	102.80418	60.10944	115.71754	3.14218	0.0054089	0.20320435	2.8653700	21	6 30.0	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283121 2008 VA_{50}	16.5	X	317.17514	216.64343	227.59623	13.56415	0.0384352	0.23449667	2.6044234	21	12 10.1	19.9
283122 2008 VQ_{53}	16.4	X	107.29512	218.20038	103.59731	5.70592	0.1117857	0.24140968	2.5544629	21	—	—
283123 2008 VD_{57}	16.5	X	11.98479	277.24621	88.29902	3.59796	0.0696533	0.22720103	2.6598829	21	11 16.9	19.7
283124 2008 VS_{59}	16.5	X	28.54253	298.57912	77.92156	3.58263	0.0860944	0.23418301	2.6067485	21	12 27.6	19.8
283125 2008 WF_{37}	16.2	X	15.75598	144.23215	75.69619	2.80319	0.0958048	0.19284003	2.9671392	21	5 6.1	19.6
283126 2008 WK_{38}	16.5	X	125.82780	312.47872	197.77148	1.34013	0.0206276	0.20172798	2.8793334	21	6 28.4	20.4
283127 2008 WE_{43}	16.9	X	244.88738	28.04480	261.20314	3.80940	0.1691769	0.26077749	2.4263642	21	1 25.2	20.9
283128 2008 WO_{67}	16.5	X	24.32023	81.22536	89.92238	2.71993	0.0592933	0.18237788	3.0795548	21	3 18.0	20.4
283129 2008 WR_{76}	16.2	X	138.08114	5.46739	84.55221	6.63162	0.1188619	0.19075483	2.9887231	21	5 9.2	20.7
283130 2008 WC_{85}	15.3	X	130.88694	317.87957	96.76245	12.84926	0.1573031	0.17728768	3.1382221	21	3 29.7	20.3
283131 2008 WM_{90}	15.8	X	155.90071	297.06511	110.04510	16.79815	0.1910880	0.18149797	3.0895000	21	4 16.8	21.2
283132 2008 WS_{96}	16.6	X	6.92280	174.36423	222.85027	5.23396	0.2803878	0.23095601	2.6309739	21	—	—
283133 2008 XH_{39}	16.4	X	72.23789	263.33908	54.57104	5.14670	0.1595574	0.22858014	2.6491734	21	12 15.3	20.2
283134 2008 XO_{48}	15.9	X	223.03650	258.00695	116.64209	11.07175	0.1244273	0.18819025	3.0158145	21	5 3.6	20.8
283135 2008 XL_{50}	14.7	X	159.63601	197.90395	125.40454	15.47641	0.0753774	0.15572085	3.4216707	21	1 1.1	19.9
283136 2008 XV_{52}	15.7	X	42.47136	127.63047	282.53723	21.16764	0.0473439	0.23626546	2.5914086	21	—	—
283137 2008 XM_{55}	15.6	X	66.64741	19.23989	93.90600	12.60160	0.0540958	0.17712228	3.1401755	21	3 8.8	20.0
283138 2008 YJ_{4}	16.2	X	68.38324	243.11742	128.01158	5.58933	0.2816391	0.23670352	2.5882104	21	—	—
283139 2008 YQ_{11}	16.1	X	328.44686	268.31442	94.35253	5.39849	0.0738919	0.21394718	2.7686305	21	9 6.5	19.5
283140 2008 YX_{24}	16.1	X	38.68903	153.70873	265.09414	13.80933	0.1508800	0.23747926	2.5825710	21	—	—
283141 Dittsche	15.8	X	260.17374	285.88635	242.86035	16.63146	0.1071617	0.22978257	2.6399234	21	12 28.4	19.3
283142 Weena	15.7	X	352.88921	172.03479	253.36482	21.25958	0.0408889	0.23010647	2.6374455	21	12 31.7	19.3
283143 2008 YO_{34}	15.5	X	65.48042	43.95942	117.45172	18.19959	0.1172340	0.18040651	3.1019485	21	5 16.3	19.9
283144 2008 YJ_{50}	15.8	X	134.79424	296.56898	95.84879	6.12522	0.1669126	0.17103402	3.2142603	21	3 5.2	20.8
283145 2008 YX_{73}	16.7	X	323.20076	35.85953	18.95849	2.15037	0.0695376	0.21848184	2.7301876	21	11 5.8	19.9
283146 2008 YW_{121}	16.1	X	356.93642	113.72519	121.45079	8.94222	0.1390171	0.18140653	3.0905381	21	4 28.3	19.8
283147 2008 YS_{124}	16.3	X	334.16478	277.73264	104.65418	10.44770	0.2231104	0.21620969	2.7492819	21	10 13.5	18.9
283148 2008 YF_{134}	17.2	X	28.65504	14.28216	263.43674	5.48625	0.0997191	0.28656830	2.2785083	21	8 18.6	19.5
283149 2008 YX_{139}	15.6	X	208.80940	246.79043	120.78094	10.74956	0.1253286	0.18408760	3.0604575	21	4 12.1	20.6
283150 2008 YT_{149}	15.3	X	312.53910	318.41470	292.77027	25.39293	0.1439749	0.17402797	3.1772887	21	2 22.2	20.1
283151 2009 AD_{8}	15.4	X	47.36285	297.17613	275.44340	10.60273	0.0393586	0.18950546	3.0018447	21	6 9.1	19.4
283152 2009 AH_{31}	15.9	X	2.25054	236.28814	119.42564	7.36801	0.0665367	0.21178600	2.7874337	21	10 20.5	19.5
283153 2009 AZ_{43}	17.0	X	220.83258	231.65724	148.86356	7.29254	0.1068519	0.26724143	2.3870794	21	5 2.6	20.6
283154 2009 AD_{47}	16.1	X	73.41018	199.68151	135.90481	14.61204	0.2519481	0.22512565	2.6762051	21	—	—
283155 2009 BC_{14}	16.3	X	197.18050	127.78491	334.48466	22.77649	0.3109766	0.27507145	2.3415622	21	7 22.9	20.8
283156 2009 BR_{55}	16.8	X	33.82884	134.66556	270.21789	6.42431	0.0936021	0.23291973	2.6161654	21	—	—
283157 2009 BL_{60}	15.9	X	199.17325	359.71494	134.70182	15.93739	0.0801024	0.20364544	2.8612310	21	9 6.9	20.2
283158 2009 BZ_{65}	16.4	X	80.88697	344.63745	318.41453	2.94179	0.0851147	0.21036534	2.7999693	21	11 24.5	20.4
283159 2009 BW_{99}	15.5	X	22.72920	86.87143	124.06853	10.97604	0.0249223	0.17846010	3.1244623	21	5 8.0	19.9
283160 2009 BC_{151}	15.6	X	154.31299	314.18818	106.53212	28.60087	0.1805259	0.18110500	3.0939676	21	5 6.4	21.2
283161 2009 BX_{162}	16.0	X	202.57947	336.71446	78.56398	4.19590	0.0535842	0.18609997	3.0383550	21	5 31.5	20.5
283162 2009 BV_{172}	15.6	X	78.64159	199.55770	277.75390	5.38564	0.0309021	0.17008893	3.2261559	21	3 19.0	20.1
283163 2009 BL_{190}	14.5	X	132.90912	72.70514	154.41963	14.21602	0.0972041	0.12521244	3.9570457	21	10 15.1	20.6
283164 2009 CR_{24}	15.7	X	279.95980	141.26779	147.53562	27.54359	0.1571692	0.16952918	3.2332534	21	3 16.0	20.7
283165 2009 CP_{64}	15.4	X	291.23019	42.84854	181.02418	10.33713	0.0405126	0.15690171	3.4044812	21	1 23.5	20.4
283166 2009 DZ_{15}	15.4	X	50.93417	11.37516	153.84133	16.62190	0.0344730	0.17325233	3.1867646	21	4 19.3	20.0
283167 2009 DN_{26}	16.3	X	71.23670	213.02881	135.83250	13.02057	0.1792966	0.22513072	2.6761649	21	—	—
283168 2009 DT_{117}	14.9	X	271.82741	156.55229	171.39368	15.21537	0.2759126	0.17441828	3.1725469	21	4 9.0	20.0
283169 2009 DC_{140}	17.7	X	307.42579	264.24908	167.17429	23.48865	0.0696369	0.37105886	1.9179657	21	12 13.9	20.0
283170 2009 ER_{4}	15.3	X	31.29044	94.79322	157.79357	15.49182	0.2540499	0.17797094	3.1301849	21	8 2.8	18.9
283171 2009 FR_{5}	16.1	X	24.36627	183.25721	169.40877	4.22048	0.1131972	0.20862808	2.8154914	21	11 20.5	19.7
283172 2009 FV_{26}	17.7	X	117.11752	221.89453	79.50986	4.03814	0.1174243	0.29019500	2.2594848	21	—	—
283173 2009 HZ_{62}	13.2	X	279.47159	156.33536	161.98002	12.61358	0.0467468	0.08253840	5.2243472	21	5 11.4	20.2
283174 2009 HD_{81}	16.2	X	107.72830	161.53346	153.88860	11.05697	0.0832050	0.20296827	2.8675915	21	—	—
283175 2009 JU_{10}	16.2	X	207.97461	108.95309	148.72901	10.31871	0.1132267	0.21607821	2.7503971	21	—	—
283176 2009 QF_{59}	12.8	X	316.55990	37.29761	31.62109	7.13736	0.2089741	0.08333389	5.1910469	21	10 10.6	18.9
283177 2009 RR_{52}	17.0	X	168.06206	118.64315	39.58274	4.76925	0.1717212	0.23439047	2.6052101	21	9 4.4	21.2
283178 2009 SF_{1}	13.6	X	332.58835	128.28340	157.76325	14.64431	0.1659469	0.08294141	5.2074098	21	5 27.6	20.0
283179 2009 SS_{35}	15.7	X	302.07800	169.03612	6.98074	7.16992	0.0303447	0.18924734	3.0045737	21	—	—
283180 2009 SC_{160}	16.0	X	165.40413	120.60500	12.06688	13.93611	0.1260204	0.22786324	2.6547270	21	8 3.2	20.4
283181 2009 US	16.6	X	323.19557	308.64449	258.38487	20.41857	0.0520797	0.36932425	1.9239665	21	—	—
283182 2009 UJ_{28}	16.0	X	233.17392	226.77934	229.52177	12.70482	0.0498969	0.23469613	2.6029476	21	8 25.4	19.8
283183 2009 UG_{106}	16.1	X	194.00649	95.24512	50.50510	12.66591	0.0095761	0.23499556	2.6007361	21	9 27.1	19.7
283184 2009 WA_{33}	17.5	X	62.02380	151.00596	69.01005	5.09021	0.1165662	0.30251346	2.1977228	21	7 24.8	19.8
283185 2010 AR_{30}	16.7	X	196.40689	115.56722	112.95518	6.13322	0.1665501	0.23739223	2.5832021	21	12 23.4	20.5
283186 2010 BG_{3}	17.5	X	302.11147	94.07466	128.06494	3.43419	0.1463799	0.26229183	2.4170161	21	1 1.0	20.8
283187 2010 BB_{13}	15.2	X	85.10469	287.89561	97.88086	10.72836	0.1350319	0.15429956	3.4426504	21	—	—
283188 2010 BV_{15}	14.5	X	318.59150	329.63468	275.11795	26.39497	0.1485262	0.17320484	3.1873471	21	2 20.0	19.4
283189 2010 CG_{4}	16.4	X	40.85894	208.63255	153.83226	8.27070	0.0504311	0.23497105	2.6009169	21	12 21.1	20.0
283190 2010 CO_{5}	17.6	X	268.09042	306.62833	331.47960	0.43700	0.1693989	0.26749549	2.3855677	21	2 1.9	21.3
283191 2010 CQ_{39}	17.3	X	27.46731	340.18665	338.06609	5.30900	0.1850972	0.30379034	2.1915602	21	11 4.6	19.5
283192 2010 CE_{44}	16.2	X	307.01875	281.56228	149.47580	22.30666	0.0507463	0.22800945	2.6535920	21	11 13.2	20.1
283193 2010 CM_{88}	17.0	X	206.59715	31.88027	241.93770	2.04470	0.1620609	0.25028672	2.4936998	21	—	—
283194 2010 CS_{91}	16.5	X	335.96548	33.06644	180.38090	4.05562	0.1208423	0.18049260	3.1009621	21	2 22.1	20.5
283195 2010 CS_{120}	16.6	X	178.37466	22.66285	114.31806	5.71686	0.0131754	0.21381624	2.7697608	21	8 18.6	20.4
283196 2010 CC_{150}	15.2	X	42.58805	144.90763	327.83109	22.93750	0.2593857	0.18119023	3.0929972	21	2 11.6	18.1
283197 2010 CT_{170}	16.3	X	331.75647	208.75184	178.96713	12.44013	0.1439805	0.22150562	2.7052841	21	10 14.8	19.1
283198 2010 CK_{184}	16.2	X	131.15122	141.23831	122.26410	10.60993	0.1713810	0.22479929	2.6787947	21	12 7.0	20.7
283199 2010 DP_{13}	15.5	X	238.32164	248.70321	118.74202	4.44749	0.1189644	0.17785139	3.1315874	21	5 8.3	20.3
283200 2010 DH_{37}	17.2	X	161.29018	111.61573	130.03078	3.06653	0.1481178	0.22856459	2.6492936	21	12 6.7	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283201 2010 DG_{55}	15.4	X	316.55881	119.84926	180.22697	15.95931	0.2118388	0.17672225	3.1449125	21	5 6.3	19.5
283202 2010 EA_{43}	15.4	X	0.80328	336.96252	195.79737	18.17085	0.1637684	0.17556014	3.1587756	21	2 2.2	19.5
283203 2010 FV_{13}	15.9	X	325.60454	94.48972	166.61464	13.17159	0.0811025	0.17997601	3.1068930	21	4 17.7	20.1
283204 2010 FE_{20}	15.1	X	82.64699	166.12477	116.91468	5.26605	0.2156881	0.12603052	3.9399033	21	11 8.6	21.0
283205 2010 FV_{48}	16.4	X	87.60734	114.09998	163.63878	5.08863	0.0893657	0.21505176	2.7591420	21	11 4.4	20.3
283206 2010 GK_{139}	16.0	X	197.64297	178.95729	173.58037	9.53134	0.0765335	0.17496769	3.1659020	21	3 10.7	20.8
283207 2010 HH_{79}	16.1	X	292.75740	181.60755	140.32768	10.21772	0.1456134	0.18234979	3.0798711	21	5 11.6	20.5
283208 2010 HG_{105}	16.4	X	302.94826	255.39056	208.50297	2.81935	0.0419509	0.22342669	2.6897547	21	12 13.3	19.7
283209 2010 LE_{92}	15.3	X	28.66176	300.30577	190.18305	21.74789	0.1534381	0.17228968	3.1986241	21	1 29.6	19.4
283210 2010 MG_{46}	15.9	X	287.01013	256.95307	336.80462	13.06156	0.1636084	0.22800100	2.6536576	21	1 6.6	20.1
283211 2010 MH_{69}	16.9	X	230.38875	2.22486	341.12083	11.75938	0.1830561	0.23729082	2.5839380	21	3 19.5	21.1
283212 2010 NM_{24}	17.0	X	71.53141	345.67848	258.84133	4.65525	0.1920333	0.26597823	2.3946313	21	9 18.5	20.3
283213 2010 NY_{55}	16.7	X	153.02888	47.09473	269.69722	3.78756	0.2005404	0.21159678	2.7890952	21	—	—
283214 2010 OL_{23}	17.2	X	256.54714	92.84027	195.44833	11.08779	0.1940075	0.23064820	2.6333142	21	2 4.1	21.8
283215 2010 OQ_{46}	15.4	X	303.51699	167.56316	136.04446	28.72236	0.1108713	0.18050939	3.1007698	21	5 14.6	20.2
283216 2010 OO_{63}	15.4	X	351.14331	187.07086	191.19571	17.78150	0.1391054	0.17921975	3.1156271	21	10 29.1	19.1
283217 2010 OV_{70}	15.6	X	299.80964	122.90717	182.30302	16.80173	0.1487045	0.17843612	3.1247423	21	4 28.4	20.0
283218 2010 OQ_{95}	16.8	X	215.30242	258.54034	116.40056	6.02492	0.2977717	0.23615179	2.5922401	21	4 16.8	21.6
283219 2010 OW_{123}	15.5	X	352.58533	156.15530	216.59891	27.10759	0.1290550	0.17780879	3.1320876	21	10 21.1	19.3
283220 2010 PG_{10}	15.6	X	344.26626	124.77620	260.78200	7.88028	0.1359360	0.18827537	3.0149056	21	10 23.9	19.1
283221 2010 PR_{26}	16.9	X	30.68843	130.62974	167.37737	6.40189	0.1399373	0.27294403	2.3537138	21	10 1.3	19.4
283222 2010 PM_{41}	15.1	X	315.84804	15.22360	52.53460	13.23304	0.0706745	0.17984088	3.1084491	21	11 6.1	19.1
283223 2010 PS_{79}	15.6	X	357.49662	2.19609	325.32415	8.84799	0.0919597	0.17683834	3.1435359	21	8 28.8	19.5
283224 2010 QO_{1}	15.5	X	247.82733	45.96091	293.03543	13.28430	0.2551706	0.23693081	2.5865549	21	3 20.4	20.2
283225 2010 QX_{2}	17.1	X	349.77273	271.11758	21.66409	3.24073	0.1829742	0.26055839	2.4277241	21	6 26.2	18.9
283226 2010 RA_{51}	16.9	X	54.58871	359.89310	48.01350	0.60886	0.1669841	0.20377742	2.8599954	21	—	—
283227 2010 RW_{60}	17.2	X	171.50030	253.61769	349.56311	2.71714	0.0472132	0.28563176	2.2834861	21	—	—
283228 2010 RD_{65}	16.2	X	282.62312	118.65046	231.65003	6.32264	0.1454020	0.25544218	2.4600332	21	5 28.3	19.2
283229 2010 RS_{74}	16.3	X	221.93741	96.91167	179.00292	15.72347	0.1656694	0.22763616	2.6564922	21	—	—
283230 2010 RL_{118}	15.5	X	293.40278	42.13526	31.43595	14.10768	0.0949927	0.17847918	3.1242396	21	10 11.0	19.6
283231 2010 RX_{169}	16.9	X	323.71597	291.85302	286.62177	1.58877	0.0618113	0.23243552	2.6197974	21	2 10.2	20.3
283232 2010 RY_{171}	17.2	X	293.38009	227.65286	180.89079	4.91836	0.1076296	0.26494379	2.4008602	21	9 12.9	19.9
283233 2010 SB_{14}	15.6	X	26.38653	120.35187	194.70947	11.90909	0.0197925	0.17575292	3.1564653	21	9 17.8	20.0
283234 2010 TG_{34}	17.6	X	171.65873	195.49162	48.32504	5.07132	0.0766898	0.28536673	2.2848998	21	—	—
283235 2010 TX_{147}	16.4	X	216.54762	9.12404	19.67246	7.72178	0.2331054	0.23654850	2.5893410	21	5 1.8	20.9
283236 2010 TT_{162}	13.3	X	288.92572	23.97279	65.35329	7.60790	0.1387831	0.08391868	5.1669026	21	10 7.1	20.0
283237 2010 UY_{2}	16.7	X	225.92955	354.65125	339.05045	2.33012	0.2007524	0.23037893	2.6353656	21	3 6.6	21.2
283238 2010 UL_{16}	17.3	X	32.80353	276.50699	53.02763	4.30120	0.2492237	0.27349364	2.3505594	21	12 4.9	20.0
283239 2010 UC_{65}	16.7	X	223.60378	338.41229	22.73584	1.81569	0.0936527	0.23260216	2.6185461	21	4 11.1	20.6
283240 2010 VJ_{45}	16.9	X	264.04694	290.67210	54.99149	4.00325	0.2545896	0.24039590	2.5616395	21	4 19.3	20.9
283241 2010 VA_{74}	16.4	X	223.46845	300.16578	63.53572	8.42471	0.2022319	0.23509490	2.6000034	21	4 12.6	20.8
283242 2011 AS_{30}	17.7	X	90.96545	152.09516	291.92267	2.66954	0.0843254	0.29838378	2.2179542	21	2 6.8	19.8
283243 2011 DR_{3}	15.5	X	330.39705	13.74131	143.90060	6.97168	0.0609427	0.17895848	3.1186588	21	—	—
283244 2011 DO_{8}	16.1	X	152.61500	102.29443	20.12046	12.68595	0.1167448	0.21901788	2.7257311	21	7 2.9	20.5
283245 2011 DM_{11}	16.1	X	108.20735	148.52802	13.85854	27.47312	0.1923770	0.21627970	2.7486886	21	7 23.6	20.9
283246 2011 DK_{16}	16.4	X	31.49733	311.09339	154.87883	2.38155	0.1402006	0.18799930	3.0178563	21	1 2.2	19.8
283247 2011 EU_{17}	16.2	X	175.83172	313.51948	179.92585	25.54951	0.2027512	0.23030774	2.6359087	21	8 5.6	21.0
283248 2011 EY_{19}	15.5	X	214.10272	238.11913	49.56423	10.53960	0.0439538	0.18110982	3.0939127	21	1 11.3	20.2
283249 2011 ET_{28}	15.2	X	266.74709	7.38297	121.15382	4.30590	0.0525466	0.15513733	3.4302453	21	11 13.5	20.0
283250 2011 EC_{29}	15.6	X	21.26732	333.39460	158.98859	10.99445	0.0670450	0.18622204	3.0370271	21	1 20.6	19.6
283251 2011 EY_{29}	14.9	X	329.69041	317.44683	118.07620	9.60113	0.1402140	0.16226165	3.3290894	21	12 1.2	19.0
283252 2011 EL_{53}	16.4	X	156.43019	198.11152	114.01710	7.56721	0.1255517	0.26084544	2.4259428	21	—	—
283253 2011 EO_{78}	15.4	X	326.60423	20.73816	116.95268	3.69664	0.1199659	0.17124448	3.2116262	21	—	—
283254 2011 FH_{1}	15.9	X	319.26594	122.33455	84.20338	11.68848	0.0498297	0.18472367	3.0534280	21	2 3.3	20.2
283255 2011 FA_{3}	15.7	X	284.05296	177.30076	88.52404	4.75105	0.0530233	0.19212280	2.9745192	21	3 2.5	19.9
283256 2011 FG_{4}	17.1	X	98.80518	60.98758	46.18940	8.15718	0.0548748	0.29505826	2.2345884	21	3 25.5	19.7
283257 2011 FA_{8}	15.4	X	312.26677	321.76696	191.03989	15.44413	0.0741245	0.16900207	3.2399728	21	—	—
283258 2011 FH_{18}	17.1	X	342.69238	33.33350	215.95117	4.51787	0.1118233	0.29585506	2.2305744	21	4 4.1	19.3
283259 2011 FD_{34}	17.2	X	268.92837	131.34911	144.68756	3.43506	0.2427933	0.27445872	2.3450459	21	1 24.6	21.1
283260 2011 FN_{47}	17.3	X	250.90950	266.06082	50.95868	6.09265	0.1139956	0.28379676	2.2933188	21	3 10.9	20.6
283261 2011 FR_{142}	15.7	X	273.98871	260.67588	16.71393	5.50421	0.1392442	0.18258544	3.0772205	21	2 23.7	20.4
283262 2011 FU_{147}	15.9	X	79.83270	299.59498	187.75690	17.75584	0.1419834	0.19869768	2.9085342	21	4 19.1	19.7
283263 2011 FH_{151}	16.2	X	226.13910	19.48943	216.62409	11.02563	0.1936601	0.25847926	2.4407254	21	—	—
283264 2011 FT_{151}	15.3	X	25.11079	240.37027	314.03541	13.88635	0.1032960	0.19742681	2.9210027	21	4 7.8	19.1
283265 2011 FM_{155}	15.6	X	193.84226	217.20267	124.74848	8.73108	0.0911262	0.18333910	3.0687817	21	2 23.4	20.4
283266 2011 GX_{46}	15.8	X	234.54408	235.32797	53.72620	5.00857	0.0465455	0.17757853	3.1347945	21	2 4.9	20.5
283267 2011 GC_{57}	16.7	X	289.51656	193.23201	38.05561	7.40455	0.0687375	0.27386450	2.3484369	21	1 6.0	19.9
283268 2011 HB_{4}	15.3	X	336.87095	71.25257	190.03953	13.98513	0.2179727	0.19147138	2.9812619	21	4 13.9	18.6
283269 2011 HY_{5}	16.3	X	141.84691	117.43757	146.34458	5.92683	0.1784696	0.24082781	2.5585758	21	12 17.3	20.6
283270 2011 HS_{12}	16.1	X	81.17489	185.92314	101.04565	13.22371	0.1950961	0.22734023	2.6587970	21	11 23.8	20.3
283271 2011 HS_{18}	17.1	X	218.15290	148.09520	128.40866	7.80685	0.1943538	0.26187031	2.4196091	21	—	—
283272 2011 HR_{19}	15.9	X	211.58863	115.29071	211.31190	8.59842	0.0545008	0.18178751	3.0862186	21	2 19.0	20.6
283273 2011 HU_{25}	17.0	X	243.42015	156.95517	123.25834	7.08169	0.1036199	0.27221199	2.3579317	21	1 13.9	20.5
283274 2011 HR_{28}	17.2	X	284.51533	157.08891	89.09657	6.68373	0.0825474	0.27641393	2.3339745	21	1 17.1	20.2
283275 2011 HE_{29}	15.7	X	13.80115	203.96755	115.50676	14.10258	0.1783380	0.21444780	2.7643200	21	10 5.4	19.0
283276 2011 HF_{33}	16.2	X	77.48381	43.81326	61.72123	7.11822	0.1108226	0.18756316	3.0225328	21	3 17.6	20.2
283277 Faber	17.5	X	219.40957	140.78147	131.53851	3.23689	0.1592772	0.26115378	2.4240329	21	—	—
283278 2011 HE_{36}	16.4	X	70.51052	211.82301	66.25933	18.85092	0.2346074	0.22124499	2.7074083	21	11 7.2	20.6
283279 Qianweichang	16.3	X	142.87129	163.00488	78.31248	11.29829	0.0927628	0.23662744	2.5887651	21	11 21.5	20.3
283280 2011 HC_{39}	15.4	X	295.33310	172.36947	118.85504	11.30455	0.0543976	0.19101624	2.9859958	21	4 20.3	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283281 2011 HR_{54}	15.6	X	41.05232	195.03095	98.69996	19.17879	0.1417239	0.21711510	2.7416333	21	10 13.9	19.6
283282 2011 HS_{55}	15.7	X	272.63787	122.60796	137.98628	10.91136	0.1742297	0.17405000	3.1770206	21	1 29.2	20.6
283283 2011 HF_{63}	15.4	X	349.14643	304.97122	183.41522	12.58820	0.0633236	0.17009138	3.2261249	21	—	—
283284 2011 HK_{66}	15.4	X	315.45190	144.52370	114.48329	11.48174	0.0684120	0.18894335	3.0077956	21	4 4.2	19.6
283285 2011 HJ_{67}	17.0	X	181.64598	157.31646	147.75422	12.19483	0.2090639	0.25653377	2.4530497	21	—	—
283286 2011 HL_{67}	16.1	X	65.19181	102.31962	135.08797	12.07702	0.1305360	0.21186952	2.7867011	21	8 21.4	19.8
283287 2011 HN_{74}	16.4	X	45.33435	161.76062	134.45252	11.19944	0.3181920	0.21535265	2.7565713	21	11 11.9	20.4
283288 2011 HQ_{74}	15.2	X	150.41847	222.77872	146.59754	14.41943	0.1070385	0.16873237	3.2434243	21	2 13.7	20.2
283289 2011 HK_{80}	15.6	X	187.80222	255.80957	97.76556	15.77268	0.1677454	0.17577983	3.1561431	21	3 10.6	21.0
283290 2011 HJ_{81}	15.7	X	305.63086	169.39703	58.36380	5.46160	0.1656157	0.17788178	3.1312308	21	1 27.5	20.1
283291 2011 JB_{18}	17.3	X	5.37286	6.37226	226.99977	6.62352	0.1197632	0.29319379	2.2440518	21	4 22.4	19.2
283292 2011 JQ_{27}	15.9	X	0.68314	83.63961	121.61031	6.09785	0.0835114	0.18715832	3.0268899	21	3 26.8	19.8
283293 2011 JZ_{28}	15.8	X	325.85098	40.64985	213.16817	8.26082	0.1007550	0.18798541	3.0180050	21	3 31.7	19.7
283294 2011 JA_{31}	17.6	X	285.59129	215.45012	19.62103	2.52128	0.1445972	0.27213100	2.3583995	21	—	—
283295 2011 KK_{1}	17.2	X	135.29661	129.98294	182.89252	3.55377	0.2272845	0.24522825	2.5278757	21	—	—
283296 2011 KZ_{1}	15.2	X	66.75432	259.11125	191.71355	22.20896	0.1360622	0.17234731	3.1979111	21	2 9.8	19.6
283297 2011 KT_{7}	17.7	X	10.43068	359.60357	201.25804	3.48416	0.1249638	0.28736281	2.2743066	21	3 11.7	19.7
283298 2011 KB_{8}	17.5	X	284.01719	251.88493	73.79428	6.14556	0.1998109	0.28852976	2.2681702	21	4 17.8	20.5
283299 2011 KN_{8}	16.4	X	223.03239	125.69179	61.88540	10.30749	0.0784544	0.24384464	2.5374291	21	12 12.6	19.7
283300 2011 KT_{8}	16.1	X	144.82309	72.23516	191.89557	13.15676	0.1662575	0.23672289	2.5880692	21	12 19.2	20.6
283301 2011 KA_{9}	17.5	X	311.63092	357.07446	246.42875	2.40602	0.1296958	0.27863282	2.3215669	21	2 7.4	20.3
283302 2011 KB_{9}	16.4	X	331.20984	160.28143	78.26379	1.48071	0.2092867	0.18545440	3.0454020	21	3 7.0	20.0
283303 2011 KH_{11}	17.7	X	300.07898	137.00149	120.97329	3.27509	0.1640537	0.27982143	2.3149880	21	2 8.8	20.7
283304 2011 KL_{22}	17.6	X	288.93609	144.53948	146.93758	5.94292	0.0879880	0.28437900	2.2901875	21	3 23.3	20.4
283305 2011 KK_{23}	16.8	X	115.64423	94.14269	173.10376	7.27834	0.1900837	0.23094877	2.6310289	21	11 29.4	21.2
283306 2011 KS_{24}	16.3	X	97.79756	346.64486	130.78776	1.66931	0.0385148	0.18997370	2.9969102	21	4 14.9	20.5
283307 2011 KU_{24}	16.7	X	157.83289	48.65615	110.85081	3.22702	0.0191066	0.21616088	2.7496958	21	8 21.9	20.5
283308 2011 KW_{24}	15.7	X	292.73057	160.92725	58.01766	19.05861	0.0621223	0.17279047	3.1924408	21	1 17.6	20.6
283309 2011 KZ_{24}	17.8	X	3.81693	108.99843	119.61958	4.35585	0.0864230	0.29077885	2.2564593	21	4 17.9	19.9
283310 2011 KB_{25}	16.7	X	326.26106	130.38303	167.13932	2.09012	0.0416649	0.20053356	2.8907554	21	6 5.7	20.4
283311 2011 KO_{26}	17.1	X	81.47680	274.26824	135.80595	5.37372	0.1041521	0.26255965	2.4153722	21	—	—
283312 2011 KR_{26}	17.0	X	138.52526	296.01318	91.61602	7.76727	0.1180886	0.27106699	2.3645670	21	2 10.4	20.1
283313 2011 KE_{27}	17.2	X	318.18449	239.93259	75.69136	6.44835	0.2137233	0.29487189	2.2355298	21	5 18.1	19.1
283314 2011 KG_{29}	16.4	X	29.15041	185.38694	106.20623	5.96280	0.1324574	0.21428347	2.7657331	21	9 12.5	19.7
283315 2011 KE_{35}	15.5	X	350.04703	345.79177	225.03569	8.31681	0.0618263	0.18688464	3.0298443	21	3 14.1	19.6
283316 1029 $T\text{–}3$	16.1	X	241.48316	132.39036	228.85599	14.47976	0.2873629	0.17388703	3.1790054	21	4 18.8	21.6
283317 2049 $T\text{–}3$	16.5	X	260.14350	80.12895	248.65961	2.59550	0.3169298	0.17510439	3.1642542	21	3 24.5	22.0
283318 1992 DE_{1}	14.2	X	210.69759	206.86292	346.95821	8.25346	0.0626336	0.12385529	3.9858995	21	11 16.4	20.1
283319 1992 WR_{4}	17.9	X	145.67618	201.60541	228.74114	5.34303	0.3362292	0.35889224	1.9610711	21	4 27.7	20.8
283320 1994 SB_{12}	17.8	X	293.43844	148.94988	176.44754	4.75060	0.1389928	0.28461448	2.2889241	21	5 8.0	20.5
283321 1995 SR_{27}	17.2	X	40.26246	262.49429	13.86995	5.46097	0.1752370	0.30183121	2.2010333	21	9 24.6	19.2
283322 1995 SX_{35}	15.9	X	215.60111	252.00332	175.20201	13.08844	0.1733142	0.18156765	3.0887095	21	6 22.9	21.2
283323 1996 AZ_{5}	16.8	X	326.96135	358.09341	82.66657	3.81014	0.0628814	0.22497482	2.6774011	21	12 17.6	20.0
283324 1996 VE_{19}	17.1	X	317.70793	127.07289	210.88377	15.76925	0.2928853	0.19238380	2.9718284	21	6 10.9	20.7
283325 1997 AA_{23}	16.1	X	209.86986	223.23643	146.33413	10.96317	0.0868038	0.17284374	3.1917849	21	4 16.4	21.1
283326 1997 CE_{2}	16.4	X	132.63930	217.53513	121.93650	8.32124	0.1250183	0.24143561	2.5542800	21	—	—
283327 1997 JN_{5}	16.4	X	86.29369	173.88484	141.40919	6.26920	0.0678618	0.22381247	2.6866630	21	12 17.1	20.3
283328 1997 KN_{2}	17.1	X	88.34612	103.85553	170.73549	3.47721	0.1628268	0.21751243	2.7382935	21	11 9.1	21.3
283329 1997 RG_{8}	17.1	X	297.09413	128.95764	170.00464	22.42367	0.2728036	0.27932356	2.3177380	21	3 17.4	20.2
283330 1998 FL_{14}	16.6	X	228.13037	223.24541	328.38187	4.51827	0.2143097	0.23914624	2.5705557	21	12 4.8	20.3
283331 1998 HJ_{129}	16.8	X	204.27958	349.14746	224.67336	3.20345	0.2190502	0.23762559	2.5815106	21	12 8.5	20.9
283332 1998 MW_{17}	17.1	X	146.81624	180.05769	147.12712	4.26849	0.2525869	0.23731487	2.5837635	21	—	—
283333 1998 QW_{29}	16.2	X	85.78444	10.97726	303.53380	10.93089	0.1821196	0.22435186	2.6823551	21	12 27.0	20.5
283334 1998 VY_{13}	15.5	X	351.58624	113.79797	239.90653	12.01460	0.2252828	0.21290658	2.7776445	21	9 29.9	18.2
283335 1998 XN_{6}	16.7	X	5.74983	283.64414	90.24493	4.43528	0.1971443	0.21489097	2.7605181	21	12 1.2	19.7
283336 1999 CW_{133}	17.0	X	18.56640	19.94722	142.87587	5.52622	0.1069817	0.26818110	2.3815001	21	2 4.6	19.5
283337 1999 CW_{137}	17.6	X	335.32240	252.31840	321.35189	1.65504	0.1614262	0.26711184	2.3878514	21	1 29.0	20.2
283338 1999 RR_{62}	17.2	X	137.90615	193.57109	159.84251	6.11313	0.2620958	0.24388041	2.5371810	21	1 17.3	21.0
283339 1999 RT_{174}	17.2	X	132.87669	213.62277	148.85211	4.65110	0.2676503	0.24322098	2.5417648	21	1 24.5	21.0
283340 1999 TY_{165}	17.0	X	93.88117	115.56216	267.61997	3.22658	0.2153553	0.23920157	2.5701592	21	—	—
283341 1999 TF_{209}	16.8	X	138.94537	351.13878	348.39970	6.85077	0.2158309	0.24049841	2.5609115	21	—	—
283342 1999 TV_{249}	16.6	X	63.11168	154.17738	231.10928	7.08838	0.1297737	0.23574950	2.5951882	21	—	—
283343 1999 TA_{263}	17.1	X	129.66861	125.08029	218.18697	2.32741	0.2206112	0.23958306	2.5674302	21	—	—
283344 1999 UE_{30}	16.4	X	346.21289	255.97299	189.91661	6.94087	0.1787851	0.23169970	2.6253411	21	—	—
283345 1999 VT_{13}	17.9	X	48.61838	69.63174	6.88994	19.30540	0.1754053	0.37339028	1.9099737	21	—	—
283346 1999 VG_{35}	16.3	X	74.45372	345.01625	61.24564	6.82845	0.2837820	0.23630241	2.5911384	21	—	—
283347 1999 VP_{48}	16.5	X	141.85886	56.30408	293.85150	3.70129	0.2385423	0.24127931	2.5553829	21	1 15.8	20.4
283348 1999 VH_{51}	16.3	X	97.36698	128.66210	245.10655	12.33823	0.2652560	0.23708525	2.5854315	21	—	—
283349 1999 VG_{55}	16.7	X	111.78044	128.06496	218.91783	12.41610	0.2200543	0.23718535	2.5847039	21	—	—
283350 1999 VL_{61}	17.3	X	120.69600	312.91821	49.25385	2.31078	0.2425504	0.23948969	2.5680975	21	1 8.9	20.6
283351 1999 VX_{61}	16.8	X	113.25747	138.22951	227.12627	4.76449	0.2358519	0.23877252	2.5732372	21	1 1.8	20.0
283352 1999 VV_{64}	16.6	X	44.62471	179.84399	221.94052	11.30169	0.1835970	0.23278735	2.6171572	21	—	—
283353 1999 VX_{89}	17.6	X	106.11005	176.35163	219.82992	3.72000	0.2568995	0.24118670	2.5560371	21	2 3.1	20.9
283354 1999 XU_{145}	17.3	X	103.68326	123.17594	227.42989	1.49514	0.1978483	0.23492806	2.6012342	21	—	—
283355 1999 XX_{232}	17.3	X	277.32834	187.21269	269.10221	19.13600	0.0397562	0.35799243	1.9643558	21	11 23.8	19.2
283356 2000 AZ_{29}	16.5	X	15.10876	120.67211	296.96309	10.97908	0.2730013	0.22744466	2.6579831	21	—	—
283357 2000 AO_{37}	16.0	X	340.73480	150.58087	293.10657	12.93161	0.2259952	0.22529234	2.6748849	21	—	—
283358 2000 AS_{44}	16.3	X	62.54820	0.34167	315.83651	4.45785	0.0536056	0.21759159	2.7376293	21	11 15.1	20.0
283359 2000 AF_{86}	15.7	X	309.04552	149.12014	291.98138	13.17833	0.0948361	0.21940024	2.7225633	21	11 15.0	19.2
283360 2000 AK_{93}	15.7	X	84.74019	273.52975	110.61571	29.19489	0.3408050	0.23253926	2.6190182	21	1 3.0	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283361 2000 AU_{146}	16.8	X	124.72583	292.53159	134.56364	12.67644	0.3214103	0.24327300	2.5414024	21	4 17.5	21.1
283362 2000 AL_{185}	15.8	X	358.83368	186.98621	253.25507	7.56722	0.2345513	0.22628667	2.6670433	21	—	—
283363 2000 AQ_{196}	15.6	X	21.29720	135.11355	269.15329	12.12408	0.2425236	0.22507812	2.6765818	21	—	—
283364 2000 BE_{20}	17.0	X	94.22099	307.01677	307.95957	3.08685	0.0550797	0.21078797	2.7962254	21	10 6.7	20.9
283365 2000 BO_{20}	16.4	X	61.99827	71.48828	312.05155	5.69537	0.2988833	0.22794271	2.6541099	21	—	—
283366 2000 CW_{114}	15.4	X	53.37445	248.92894	134.77061	15.29460	0.2114908	0.22557028	2.6726871	21	—	—
283367 2000 DO_{63}	15.8	X	334.01689	104.97341	333.19179	8.31703	0.2542609	0.22037033	2.7145674	21	—	—
283368 2000 DW_{104}	16.6	X	334.48610	114.06966	129.55925	7.34119	0.2075824	0.28151479	2.3056953	21	3 1.7	19.0
283369 2000 EX_{13}	17.4	X	326.41476	271.25144	340.12037	4.82937	0.3724430	0.27889182	2.3201294	21	2 2.6	20.6
283370 2000 EF_{45}	17.0	X	350.10343	239.05916	343.99921	4.45452	0.2258941	0.27949030	2.3168161	21	2 22.4	19.1
283371 2000 ES_{99}	16.6	X	342.83171	205.74538	168.28911	4.63094	0.0836925	0.20958819	2.8068865	21	10 12.8	20.0
283372 2000 FE_{7}	17.6	X	345.83182	104.11880	192.55754	5.22463	0.0535085	0.28916628	2.2648405	21	7 1.2	20.0
283373 2000 GL_{119}	15.9	X	302.00788	310.42408	188.49501	13.41197	0.1494106	0.21617396	2.7495849	21	—	—
283374 2000 HA_{46}	17.4	X	268.42742	237.81936	43.82522	21.59394	0.0746799	0.36727252	1.9311252	21	2 7.5	20.3
283375 2000 HZ_{94}	17.1	X	279.46780	203.81851	84.67166	23.04242	0.0441677	0.36999639	1.9216357	21	3 10.3	19.9
283376 2000 KJ_{39}	17.9	X	285.78770	117.79886	174.60720	3.08240	0.2463921	0.27478996	2.3431611	21	2 28.1	21.3
283377 2000 PO_{9}	16.4	X	144.89837	84.65726	323.05087	16.32010	0.3096693	0.35328139	1.9817805	21	3 18.5	19.4
283378 2000 QV_{1}	15.6	X	270.74023	120.78718	233.84579	25.64693	0.3508006	0.17860894	3.1227263	21	4 28.8	20.8
283379 2000 QY_{2}	17.5	X	264.82253	187.67704	146.83889	4.98242	0.2519588	0.27085878	2.3657786	21	4 4.7	21.3
283380 2000 QY_{6}	16.8	X	242.28404	354.77470	335.04503	12.13436	0.2621239	0.26803033	2.3823931	21	3 7.6	20.8
283381 2000 QH_{7}	16.8	X	235.97165	358.59530	329.07728	24.54714	0.1834380	0.26633266	2.3925064	21	2 28.4	20.7
283382 2000 QY_{23}	17.4	X	221.79817	37.10380	318.34590	0.91017	0.2012669	0.26681281	2.3896351	21	3 25.9	21.4
283383 2000 QH_{43}	17.8	X	218.88061	125.23885	228.03854	0.98396	0.2631461	0.26648412	2.3915997	21	3 19.9	21.9
283384 2000 QR_{47}	17.3	X	214.13277	8.39466	334.63290	3.89076	0.1369948	0.26523892	2.3990790	21	3 4.7	21.0
283385 2000 QW_{71}	16.9	X	256.93916	342.31164	328.49650	6.38794	0.2402413	0.26817557	2.3815328	21	2 26.4	20.7
283386 2000 QN_{81}	17.3	X	211.91425	5.76505	344.82881	2.20421	0.2061929	0.26509015	2.3999765	21	3 12.1	21.3
283387 2000 QC_{167}	17.1	X	222.99418	54.04626	310.66406	4.55930	0.1944812	0.26780062	2.3837553	21	4 5.8	21.2
283388 2000 QO_{201}	17.0	X	205.56288	258.53285	92.05097	3.30698	0.2254310	0.26420853	2.4053124	21	3 8.9	21.0
283389 2000 QV_{202}	17.0	X	269.07084	283.00277	8.46072	7.23682	0.3480190	0.26891432	2.3771692	21	2 9.1	21.3
283390 2000 QF_{205}	15.4	X	263.59617	11.48831	349.44394	17.87225	0.2201007	0.17780138	3.1321745	21	5 6.8	20.6
283391 2000 RD_{25}	16.1	X	182.12163	123.53840	259.70427	8.19975	0.2026557	0.26382977	2.4076139	21	3 23.5	20.2
283392 2000 RR_{36}	16.8	X	141.30222	82.14730	303.67848	18.67371	0.1055928	0.35499593	1.9753943	21	1 21.2	18.6
283393 2000 RO_{49}	16.4	X	143.17303	262.14166	185.08703	20.02521	0.3902676	0.26057959	2.4275925	21	5 26.9	21.2
283394 2000 RR_{82}	15.4	X	294.75355	191.59699	185.29510	17.59524	0.2065880	0.18239575	3.0793536	21	7 9.9	19.8
283395 2000 RK_{96}	16.7	X	191.74358	83.68377	289.87159	4.37417	0.1010541	0.26451019	2.4034833	21	3 18.4	20.2
283396 2000 RC_{98}	12.7	X	285.79366	27.62572	319.21555	25.42212	0.1374507	0.08305100	5.2028279	21	6 4.4	19.9
283397 2000 RV_{100}	14.7	X	172.45415	207.82013	214.50975	29.51801	0.1909910	0.16988492	3.2287382	21	5 11.6	20.2
283398 2000 RE_{102}	16.4	X	164.24457	107.45563	297.19533	9.02819	0.2208800	0.26202496	2.4186570	21	4 3.9	20.6
283399 2000 SZ_{6}	16.3	X	299.57006	92.57279	260.53163	10.72397	0.1394342	0.22862829	2.6488014	21	6 26.9	19.4
283400 2000 SR_{15}	16.7	X	238.04132	50.28411	233.90260	9.91710	0.2492396	0.26187639	2.4195717	21	1 10.4	21.1
283401 2000 SV_{15}	12.5	X	320.18861	336.00135	322.67427	16.00175	0.1113134	0.08255973	5.2234471	21	5 24.4	19.3
283402 2000 SX_{16}	12.8	X	316.32350	344.27364	331.25780	17.09246	0.0655409	0.08278637	5.2139095	21	6 16.2	19.7
283403 2000 SX_{18}	17.0	X	147.08379	84.86788	313.60280	4.40016	0.1562665	0.26035388	2.4289954	21	3 8.9	20.4
283404 2000 SW_{25}	16.4	X	168.46924	202.53917	180.22465	20.70816	0.1686979	0.26335050	2.4105341	21	3 11.9	20.1
283405 2000 SK_{26}	14.9	X	231.52667	119.86791	291.06674	15.35834	0.3122122	0.17860781	3.1227395	21	6 8.6	20.5
283406 2000 SA_{33}	16.7	X	168.09956	317.44993	67.67397	3.52736	0.1998169	0.26135803	2.4227698	21	3 19.5	20.5
283407 2000 SZ_{39}	16.8	X	167.78207	260.31101	103.55240	4.99396	0.1670613	0.25862678	2.4397971	21	2 18.6	20.5
283408 2000 SA_{63}	16.7	X	182.26823	180.97760	205.82532	5.63598	0.1419350	0.26346772	2.4098191	21	3 28.9	20.3
283409 2000 SS_{65}	16.9	X	212.54550	217.39777	163.24115	4.12219	0.2250965	0.26661127	2.3908392	21	4 19.8	20.9
283410 2000 SC_{100}	16.9	X	249.83901	56.84332	288.07968	1.73170	0.2096273	0.26807293	2.3821407	21	4 5.3	20.8
283411 2000 SJ_{106}	17.3	X	199.50138	41.91145	307.97672	0.36754	0.2057182	0.26181987	2.4199199	21	3 1.5	21.3
283412 2000 SE_{112}	16.6	X	207.22747	16.22205	2.84223	1.84032	0.2218330	0.26516840	2.3995043	21	4 12.0	20.7
283413 2000 SS_{130}	15.5	X	273.78919	126.45236	223.40314	15.80857	0.2256513	0.17869277	3.1217496	21	5 10.5	20.2
283414 2000 SZ_{139}	15.8	X	235.65360	6.22957	353.90313	11.35973	0.2264002	0.17280468	3.1922658	21	4 14.7	21.3
283415 2000 SU_{148}	16.6	X	145.56963	190.42922	209.63607	4.27947	0.1943669	0.25846670	2.4408045	21	3 13.8	20.3
283416 2000 SO_{153}	17.2	X	239.37693	171.39474	178.78578	3.63906	0.2649352	0.26663093	2.3907218	21	4 1.2	21.3
283417 2000 SR_{180}	15.1	X	268.14240	112.75646	227.28678	24.94689	0.2639581	0.17384873	3.1794723	21	4 17.3	20.3
283418 2000 SV_{197}	15.5	X	241.23782	174.81686	187.83236	9.12574	0.0954433	0.17468454	3.1693223	21	5 7.8	20.3
283419 2000 SK_{201}	13.3	X	294.57577	333.01729	359.31903	17.52171	0.1776772	0.08348925	5.1846049	21	5 19.0	20.2
283420 2000 SO_{228}	17.0	X	210.43239	315.55575	6.87778	1.46580	0.1923704	0.25983396	2.4322345	21	2 5.9	20.8
283421 2000 SL_{249}	16.7	X	225.25211	273.31899	42.62628	6.35281	0.1399909	0.26191566	2.4193298	21	2 13.2	20.5
283422 2000 SH_{276}	16.2	X	252.73387	118.05449	229.45135	14.37719	0.3268288	0.17566391	3.1575315	21	4 7.5	21.8
283423 2000 SZ_{285}	15.3	X	222.65760	53.97703	325.29155	10.95102	0.1106729	0.17268705	3.1937153	21	5 1.6	20.5
283424 2000 SN_{317}	12.8	X	291.02399	18.23504	318.88213	28.44420	0.0992712	0.08321315	5.1960670	21	6 4.9	20.0
283425 2000 SX_{322}	15.6	X	236.18773	91.12284	269.67319	12.95382	0.2621913	0.17333311	3.1857745	21	4 12.6	21.3
283426 2000 SL_{324}	17.4	X	118.61307	254.70483	188.34263	0.98512	0.1579619	0.26004047	2.4309466	21	4 5.5	20.7
283427 2000 SB_{363}	17.1	X	108.53716	99.94686	300.18402	17.06883	0.0987884	0.35179542	1.9873572	21	—	—
283428 2000 TZ_{13}	17.8	X	222.95716	290.47419	50.31996	0.32995	0.2551232	0.26392262	2.4070493	21	3 8.8	21.8
283429 2000 TW_{29}	16.3	X	191.46688	38.91000	282.18159	12.51917	0.3042532	0.25839052	2.4412841	21	1 22.2	20.8
283430 2000 TB_{33}	16.0	X	132.34801	155.73092	252.62228	23.58925	0.1926438	0.25721510	2.4487160	21	2 27.5	20.1
283431 2000 TZ_{40}	16.9	X	233.35574	63.39711	259.45192	5.84804	0.1762153	0.26484573	2.4014528	21	2 22.3	20.9
283432 2000 TH_{41}	15.6	X	290.50529	14.48247	11.53018	9.69913	0.0976593	0.18330566	3.0691548	21	8 7.7	19.8
283433 2000 UB_{11}	15.7	X	204.51745	171.56939	221.57591	13.40450	0.1779435	0.21719532	2.7409581	21	4 30.9	20.2
283434 2000 UR_{71}	16.4	X	173.94382	129.55223	243.01284	6.46114	0.1426262	0.25825856	2.4421157	21	2 28.9	20.2
283435 2000 UJ_{75}	16.3	X	72.27826	188.29556	262.96367	12.82528	0.1562345	0.25308554	2.4752810	21	2 1.6	19.1
283436 2000 UY_{105}	16.6	X	196.83679	280.07179	109.53419	6.61188	0.1933562	0.26399133	2.4066315	21	4 20.1	20.6
283437 2000 US_{106}	17.2	X	178.67930	294.16672	101.65963	5.96854	0.2539740	0.26202105	2.4186810	21	4 14.1	21.4
283438 2000 VB_{54}	17.4	X	204.31380	47.44030	319.07520	3.86833	0.3346534	0.26274984	2.4142065	21	3 24.6	22.0
283439 2000 WE_{10}	16.5	X	94.28207	96.25538	342.05008	1.95568	0.1618775	0.25331224	2.4738038	21	2 26.6	19.1
283440 2000 WE_{12}	16.8	X	153.17032	267.61256	103.85808	3.25294	0.2505790	0.25236430	2.4799948	21	2 21.8	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283441 2000 WU_{71}	16.2	X	178.87706	65.62729	301.95518	5.95978	0.1639577	0.25825734	2.4421234	21	3 1.8	20.1
283442 2000 WO_{84}	16.3	X	41.37315	58.59141	28.79575	4.88449	0.0836571	0.24726838	2.5139521	21	—	—
283443 2000 WO_{105}	16.5	X	252.96386	314.71797	248.49928	6.30609	0.0924351	0.24242977	2.5472921	21	—	—
283444 2000 WS_{111}	15.7	X	352.46552	171.26091	302.57116	5.58380	0.2184913	0.24225681	2.5485044	21	—	—
283445 2000 WP_{138}	16.1	X	203.66092	91.52459	279.25903	1.04290	0.3064118	0.16743399	3.2601704	21	4 4.9	22.1
283446 2000 WD_{168}	16.2	X	126.04859	241.34736	139.92243	13.71062	0.2072132	0.25299720	2.4758571	21	1 31.2	19.5
283447 2000 WA_{190}	16.1	X	202.20958	80.93887	254.18469	2.68337	0.1908122	0.25802723	2.4435751	21	2 12.9	20.2
283448 2000 YK_{11}	15.0	X	243.29648	258.84339	129.74068	25.28888	0.3239066	0.17550919	3.1593869	21	5 28.3	20.9
283449 2000 YC_{65}	16.7	X	89.33811	275.13885	135.71240	3.31442	0.1881861	0.24710433	2.5150646	21	1 17.0	19.1
283450 2001 AW_{1}	15.3	X	95.54155	198.71871	344.60960	32.84056	0.3663725	0.30511644	2.1852056	21	8 26.4	19.0
283451 2001 DL_{47}	17.1	X	161.27021	71.91973	143.24467	12.41672	0.1522924	0.22215873	2.6999794	21	11 8.1	21.7
283452 2001 FJ_{4}	16.5	X	322.76036	301.61306	134.56316	4.15407	0.0357368	0.22567439	2.6718651	21	12 6.3	19.9
283453 2001 FV_{104}	16.1	X	203.26616	61.04493	136.21696	11.78254	0.0743408	0.22414873	2.6839754	21	12 1.7	20.2
283454 2001 FX_{196}	15.7	X	73.28922	153.18376	105.45659	10.34958	0.1052878	0.20897923	2.8123366	21	9 29.3	19.8
283455 2001 FV_{221}	16.8	X	95.17140	244.69580	347.25720	1.56939	0.1928476	0.21164028	2.7887131	21	9 25.9	21.0
283456 2001 HB_{46}	15.6	X	195.36571	98.89568	75.17319	10.38239	0.0731557	0.21759705	2.7375835	21	10 25.7	19.7
283457 2001 MQ_{3}	19.0	X	339.44300	25.18828	313.33611	5.56863	0.4551921	0.29533533	2.2331906	21	7 6.1	18.3
283458 2001 NZ_{4}	17.9	X	356.73933	178.04166	118.16675	5.97869	0.1948386	0.29562444	2.2317343	21	7 21.5	19.0
283459 2001 OA_{78}	17.1	X	304.23907	324.30923	53.04940	8.03698	0.2503523	0.29465504	2.2366265	21	7 26.1	19.1
283460 2001 PD_{1}	18.3	X	328.87879	95.20072	282.01685	5.96090	0.4585882	0.29516862	2.2340313	21	8 18.1	17.7
283461 Leacipaola	17.9	X	314.07571	35.36777	316.51486	6.48833	0.2899858	0.29289512	2.2455770	21	6 22.9	19.9
283462 2001 PT_{61}	17.5	X	270.96895	54.93336	333.06858	6.49934	0.2305505	0.29026849	2.2591035	21	6 21.5	20.6
283463 2001 QZ_{37}	17.6	X	354.81481	161.51684	135.59571	4.98622	0.2172692	0.29473188	2.2362377	21	7 16.7	18.5
283464 2001 QN_{72}	17.6	X	262.68373	46.95150	325.74165	6.62242	0.0453080	0.28985594	2.2612465	21	6 16.0	20.3
283465 2001 QD_{111}	15.2	X	322.16780	34.02527	296.49296	24.28540	0.3570251	0.19198305	2.9759626	21	5 27.0	18.9
283466 2001 QZ_{116}	16.9	X	298.75993	40.67903	311.66685	6.23397	0.1326451	0.28937643	2.2637438	21	6 25.8	19.2
283467 2001 QA_{124}	17.3	X	345.28022	308.87987	10.79560	5.29859	0.1785620	0.29453588	2.2372297	21	8 5.9	18.7
283468 2001 QJ_{145}	16.1	X	263.80186	185.11197	212.17606	1.67558	0.1482076	0.19031162	2.9933616	21	7 7.1	20.3
283469 2001 QK_{151}	16.7	X	248.39042	143.36726	293.02106	23.12569	0.2515119	0.28948149	2.2631961	21	7 27.1	20.0
283470 2001 QM_{153}	16.2	X	325.13721	87.38105	323.78360	22.05754	0.3890368	0.29487807	2.2354986	21	12 19.1	17.2
283471 2001 QW_{172}	17.4	X	271.63429	131.74427	235.67974	4.80507	0.1199594	0.28918630	2.2647359	21	6 9.3	20.1
283472 2001 QT_{205}	17.8	X	307.99192	122.33957	237.10936	3.64616	0.1996769	0.29300138	2.2450341	21	7 10.4	19.8
283473 2001 QA_{233}	18.1	X	325.38402	332.41910	342.40938	1.78123	0.2242978	0.29060315	2.2573687	21	5 28.0	19.8
283474 2001 QJ_{259}	15.7	X	256.04741	99.86928	289.55229	8.69349	0.1364276	0.18796271	3.0182479	21	6 20.1	20.2
283475 2001 QY_{289}	16.9	X	14.25293	294.41100	309.38291	6.63072	0.0878066	0.28942447	2.2634933	21	5 28.4	19.1
283476 2001 QY_{293}	17.6	X	300.73137	73.97064	301.24797	4.51853	0.1995414	0.29379723	2.2409780	21	7 23.0	19.7
283477 2001 QY_{305}	15.6	X	292.63289	117.91867	175.69122	10.58564	0.0148513	0.18265648	3.0764226	21	4 23.3	20.0
283478 2001 QR_{327}	16.4	X	263.32053	130.90484	292.18544	11.11725	0.2467325	0.24133770	2.5549708	21	7 26.9	20.0
283479 2001 RO_{40}	15.9	X	297.52016	42.29183	357.52912	14.88737	0.2724415	0.19478500	2.9473546	21	8 11.5	19.7
283480 2001 RT_{64}	15.6	X	272.35185	81.79811	324.07143	10.00683	0.0120083	0.19205657	2.9752030	21	8 18.3	19.6
283481 2001 RT_{96}	18.0	X	342.37782	354.36971	321.03382	1.60470	0.1731251	0.29326255	2.2437010	21	7 18.8	19.3
283482 2001 RU_{113}	17.8	X	276.13322	338.75247	23.71507	3.24308	0.1398785	0.28844000	2.2686407	21	6 4.5	20.7
283483 2001 RC_{130}	17.1	X	333.21466	105.54762	162.20062	7.89901	0.0977798	0.28438242	2.2901691	21	4 23.5	19.6
283484 2001 SR_{7}	16.2	X	253.72911	274.54443	132.99798	2.21338	0.1364471	0.19126156	2.9834419	21	7 10.2	20.6
283485 2001 SQ_{18}	16.3	X	265.17514	252.60490	145.40269	2.53527	0.2780132	0.18890718	3.0081794	21	6 23.5	21.1
283486 2001 SW_{24}	16.6	X	263.04171	13.82557	359.19495	4.80763	0.1758560	0.28647332	2.2790119	21	5 28.1	19.7
283487 2001 SZ_{40}	17.7	X	296.04505	182.84735	164.98533	4.81641	0.2214966	0.28806742	2.2705964	21	5 30.3	20.3
283488 2001 SU_{102}	17.4	X	253.47783	46.00390	342.17854	6.58901	0.1442005	0.28700699	2.2761859	21	6 11.5	20.6
283489 2001 SJ_{103}	18.0	X	283.22298	161.65735	196.36099	4.34853	0.1592796	0.28800896	2.2709037	21	6 5.7	20.7
283490 2001 SZ_{116}	17.0	X	215.79915	154.63680	275.71812	5.44309	0.1347721	0.28791645	2.2713901	21	6 28.5	20.2
283491 2001 ST_{122}	17.3	X	308.55896	61.47793	311.49174	7.23895	0.1672726	0.29415410	2.2391651	21	8 9.7	19.1
283492 2001 SH_{131}	17.3	X	296.40067	36.26417	336.88234	2.96734	0.1758921	0.29124152	2.2540689	21	7 16.7	19.4
283493 2001 SA_{132}	17.2	X	213.20072	92.44407	187.00935	4.85131	0.2285081	0.27062535	2.3671388	21	—	—
283494 2001 SZ_{155}	17.3	X	222.59503	32.75376	12.55845	21.13573	0.0507698	0.38337759	1.8766570	21	5 26.3	19.8
283495 2001 SZ_{156}	17.0	X	271.58015	101.55927	279.07909	4.41466	0.1703759	0.28851351	2.2682554	21	6 20.5	19.8
283496 2001 ST_{157}	15.6	X	261.90971	159.78568	232.39429	4.67170	0.1422188	0.18851641	3.0123351	21	6 29.0	20.0
283497 2001 SL_{183}	18.1	X	337.39545	306.46040	5.75145	3.46227	0.2349649	0.29284769	2.2458195	21	6 20.6	19.4
283498 2001 SO_{227}	16.0	X	247.12877	357.42588	11.35739	4.09380	0.1288514	0.18373128	3.0644132	21	5 15.3	20.8
283499 2001 SH_{232}	15.8	X	290.81406	211.11759	164.28508	1.75047	0.1949852	0.18961820	3.0006548	21	7 6.2	19.6
283500 2001 SK_{258}	15.9	X	325.60090	324.34046	330.06980	8.98689	0.0458550	0.18733558	3.0249802	21	5 29.8	20.1
283501 2001 SW_{263}	16.7	X	298.58888	87.76644	242.37337	22.12386	0.2000604	0.28734131	2.2744200	21	5 9.8	19.4
283502 2001 SJ_{290}	17.0	X	312.82543	70.30628	279.12209	7.53698	0.1356705	0.29109577	2.2548212	21	7 15.1	18.9
283503 2001 SU_{299}	17.5	X	350.23022	285.24204	343.44772	5.82884	0.2008755	0.28832223	2.2692584	21	5 8.2	19.1
283504 2001 SF_{309}	15.7	X	21.00493	271.78865	348.72735	10.77827	0.0231795	0.18888049	3.0084628	21	7 6.3	19.9
283505 2001 SA_{325}	17.5	X	297.77580	247.45744	107.93605	6.94199	0.1421423	0.28997161	2.2606451	21	6 26.8	19.7
283506 2001 SV_{334}	16.5	X	310.10725	213.71381	135.01709	1.54478	0.1493242	0.19293487	2.9661668	21	7 6.6	20.0
283507 2001 SN_{338}	17.0	X	278.17595	164.49379	220.58680	3.23829	0.1781702	0.18951889	3.0017029	21	7 4.5	21.3
283508 2001 ST_{340}	18.6	X	296.24908	173.80642	170.30481	2.83105	0.1914854	0.28894174	2.2660137	21	5 29.8	21.1
283509 2001 SV_{346}	16.7	X	228.79030	137.30090	273.39524	8.16814	0.1112242	0.28619819	2.2804722	21	6 17.9	19.7
283510 2001 SD_{355}	12.9	X	292.83048	104.94664	227.84908	20.47032	0.0937229	0.08426007	5.1529371	21	6 2.8	19.7
283511 2001 TZ_{13}	15.9	X	276.26367	292.48816	96.51719	7.02944	0.2267652	0.18924923	3.0045536	21	6 30.6	20.2
283512 2001 TH_{24}	13.0	X	254.91314	1.96442	10.33562	16.19677	0.0291844	0.08420398	5.1552250	21	6 11.2	20.1
283513 2001 TN_{24}	12.7	X	245.00672	105.66718	263.99212	5.05611	0.1150901	0.08300841	5.2046074	21	5 20.9	19.9
283514 2001 TL_{26}	17.6	X	266.92700	126.04263	247.73263	3.37656	0.1587107	0.28594911	2.2817963	21	6 6.4	20.4
283515 2001 TN_{28}	17.4	X	268.78747	16.00303	354.98810	4.47397	0.2242465	0.28559735	2.2836696	21	5 25.8	20.8
283516 2001 TA_{29}	15.8	X	218.01476	164.79905	248.24329	4.64382	0.1625073	0.18190560	3.0848828	21	6 8.5	20.7
283517 2001 TQ_{30}	15.5	X	165.41652	339.47458	105.42894	6.50061	0.1470484	0.17851165	3.1238608	21	5 31.5	20.5
283518 2001 TD_{31}	14.9	X	248.23306	78.57372	261.32073	10.57842	0.1350635	0.17773795	3.1329198	21	4 7.9	19.9
283519 2001 TP_{47}	13.1	X	253.07444	230.47521	135.85573	10.71674	0.0642466	0.08237344	5.2313193	21	6 2.3	20.2
283520 2001 TU_{47}	17.1	X	295.08216	210.64383	92.92625	7.87462	0.1257847	0.28133340	2.3066862	21	4 14.6	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283521 2001 TM_{83}	15.7	X	248.46528	119.56062	257.09169	4.02239	0.1702195	0.18486829	3.0518354	21	5 22.9	20.5
283522 2001 TF_{92}	17.9	X	284.90423	132.76954	217.03109	5.06643	0.2370651	0.28679333	2.2773163	21	5 15.0	21.0
283523 2001 TX_{112}	16.9	X	334.90134	272.68027	10.06027	7.96004	0.1115405	0.28333883	2.2957891	21	5 12.3	19.3
283524 2001 TD_{118}	15.8	X	306.94393	18.77727	285.18804	15.90061	0.2318259	0.18609514	3.0384076	21	4 13.0	20.3
283525 2001 TE_{120}	15.1	X	183.18930	148.36736	295.19260	11.86345	0.2474247	0.18012688	3.1051580	21	6 14.7	20.7
283526 2001 TH_{130}	17.1	X	104.78432	304.94639	209.73991	6.45990	0.0458500	0.28107370	2.3081068	21	6 8.2	19.9
283527 2001 TG_{131}	16.1	X	305.99130	220.45853	135.73177	7.56062	0.2688969	0.19070888	2.9892032	21	6 21.2	19.9
283528 2001 TF_{141}	17.0	X	199.61979	320.76934	111.68463	5.18692	0.1041308	0.28419777	2.2911610	21	6 15.3	20.1
283529 2001 TV_{173}	16.2	X	262.09242	203.06412	161.01682	1.45146	0.1243589	0.18449435	3.0559577	21	5 27.6	20.6
283530 2001 TT_{175}	17.5	X	312.16153	80.17890	232.69867	4.59939	0.2035918	0.28737435	2.2742457	21	5 4.7	20.0
283531 2001 TJ_{179}	15.3	X	189.15320	56.57966	7.83697	10.72096	0.0924379	0.18079454	3.0975085	21	5 24.9	20.3
283532 2001 TW_{184}	13.1	X	234.89052	9.35537	12.13985	11.36172	0.0673194	0.08243686	5.2286363	21	5 26.5	20.3
283533 2001 TR_{194}	15.7	X	192.57136	168.36056	275.87503	7.91875	0.1758322	0.18062026	3.0995007	21	6 23.3	20.9
283534 2001 TQ_{208}	17.9	X	256.60413	4.55804	10.18836	2.75136	0.1632497	0.28423996	2.2909343	21	5 25.1	21.2
283535 2001 TE_{216}	15.6	X	195.35228	102.77449	307.38264	8.77981	0.1570966	0.17864685	3.1222846	21	5 13.3	20.9
283536 2001 TA_{218}	17.4	X	269.25233	106.67267	244.21909	6.06329	0.1238137	0.28449133	2.2895846	21	5 12.5	20.4
283537 2001 TN_{223}	18.3	X	235.10519	81.42066	330.35028	3.50807	0.2148324	0.28507936	2.2864350	21	6 17.1	21.8
283538 2001 TB_{234}	13.3	X	290.39511	111.82245	231.51703	3.30788	0.0604777	0.08424651	5.1534899	21	6 16.7	20.0
283539 2001 TK_{240}	17.6	X	10.94971	344.70365	348.71448	5.23301	0.1883365	0.29587058	2.2304964	21	10 28.6	19.5
283540 2001 UA_{19}	17.0	X	348.61300	267.22234	37.54929	8.19789	0.1355831	0.29136676	2.2534229	21	7 19.5	18.9
283541 2001 UA_{41}	15.6	X	245.39459	323.37134	52.29758	8.87584	0.1139296	0.18278576	3.0749719	21	5 23.9	20.3
283542 2001 UN_{53}	15.2	X	193.28532	198.00721	206.90153	18.39466	0.1761926	0.17604180	3.1530112	21	5 8.7	20.5
283543 2001 UG_{59}	13.3	X	316.87864	283.15809	29.99803	14.43240	0.1269154	0.08509764	5.1190696	21	6 4.3	19.9
283544 2001 UK_{89}	15.5	X	224.43757	264.89742	126.19144	11.45976	0.1113782	0.18161821	3.0881363	21	5 24.9	20.5
283545 2001 UL_{97}	16.3	X	300.46725	293.16409	63.27160	2.31571	0.1945833	0.18888106	3.0084568	21	6 25.0	20.0
283546 2001 UK_{123}	17.2	X	269.02492	133.06515	228.89535	19.91667	0.1253697	0.38224815	1.8803518	21	5 22.8	19.1
283547 2001 UQ_{124}	15.7	X	284.13083	272.97526	99.52307	12.75329	0.1553774	0.18778018	3.0202036	21	6 29.6	19.8
283548 2001 UW_{131}	17.5	X	265.15424	335.91406	51.15580	6.96928	0.2221709	0.28653997	2.2786585	21	6 13.7	20.8
283549 2001 UJ_{134}	13.3	X	285.91156	120.32723	217.93398	34.45391	0.1385972	0.08330008	5.1924513	21	5 24.8	20.3
283550 2001 UM_{140}	16.7	X	330.65809	133.55084	183.05920	5.01944	0.3367280	0.19133878	2.9826391	21	5 30.3	19.6
283551 2001 UY_{172}	17.6	X	278.85267	111.15509	208.84501	5.60757	0.1366897	0.28060065	2.3107002	21	4 10.1	20.6
283552 2001 UY_{220}	17.5	X	266.58261	135.88296	243.57163	2.57972	0.1745452	0.28492961	2.2872361	21	6 11.9	20.5
283553 2001 UJ_{225}	13.8	X	246.84135	234.59637	147.39603	10.38796	0.0850314	0.08504448	5.1212026	21	6 10.4	20.9
283554 2001 UR_{227}	16.0	X	302.16308	260.99869	88.75279	4.86476	0.1713970	0.18921152	3.0049529	21	6 22.3	19.9
283555 2001 UV_{230}	16.6	X	246.05313	240.34807	151.57442	9.10964	0.2374657	0.18433415	3.0577279	21	6 4.0	21.8
283556 2001 VT_{1}	16.9	X	222.72529	71.47427	306.89284	19.50359	0.0572854	0.38015745	1.8872396	21	4 7.5	19.6
283557 2001 VV_{2}	16.3	X	287.26529	261.06559	79.19892	10.60057	0.2913964	0.28416558	2.2913340	21	4 30.8	19.6
283558 2001 VO_{32}	16.8	X	227.37511	114.89380	262.91875	5.94151	0.1189183	0.27740922	2.3283886	21	4 30.4	20.2
283559 2001 VW_{32}	15.6	X	183.78473	175.64294	252.24120	5.92766	0.2263345	0.17625423	3.1504773	21	5 27.2	20.9
283560 2001 VF_{56}	13.1	X	266.23970	143.52793	237.30003	29.18768	0.0809620	0.08322411	5.1956108	21	6 24.5	20.3
283561 2001 VP_{57}	17.1	X	239.32155	145.46985	256.54484	7.77468	0.1356552	0.28242104	2.3007601	21	6 15.7	20.1
283562 2001 VK_{60}	15.8	X	173.28161	307.64267	242.62251	11.33539	0.0190060	0.24428262	2.5343952	21	10 20.7	19.4
283563 2001 VA_{63}	15.4	X	252.32003	5.36861	25.91368	10.41446	0.1414936	0.18341954	3.0678843	21	6 16.7	20.1
283564 2001 VB_{74}	15.5	X	197.94442	159.57728	271.99900	16.50317	0.1872468	0.18068282	3.0987852	21	6 12.6	20.7
283565 2001 VR_{93}	15.9	X	247.79577	263.31819	134.17769	11.23114	0.3127610	0.18348337	3.0671728	21	6 6.3	21.2
283566 2001 VS_{107}	17.6	X	273.82421	152.51551	231.03510	5.41880	0.2122243	0.28671411	2.2777357	21	6 21.1	20.6
283567 2001 VH_{108}	18.0	X	228.54815	46.78247	342.04332	1.76267	0.1949717	0.28037226	2.3119549	21	5 12.5	21.7
283568 2001 VF_{128}	17.1	X	347.18010	83.91223	132.61643	7.63348	0.0644178	0.27407093	2.3472575	21	3 7.6	19.7
283569 2001 VM_{133}	17.3	X	136.02607	311.80665	141.92293	7.23029	0.0702751	0.27689971	2.3312439	21	5 1.3	20.4
283570 2001 WN_{18}	15.3	X	275.75971	129.04293	229.95841	8.22206	0.1291965	0.18453386	3.0555214	21	6 5.6	19.6
283571 2001 WL_{26}	16.0	X	270.29269	281.23527	82.08087	2.12034	0.2170466	0.18424422	3.0587229	21	5 24.1	20.7
283572 2001 WF_{75}	16.2	X	230.59731	321.70907	65.41966	2.59694	0.1915716	0.18068574	3.0987519	21	5 17.8	21.1
283573 2001 WM_{77}	17.4	X	146.46582	193.54502	228.80980	5.33252	0.0668538	0.27229657	2.3574433	21	3 27.5	20.4
283574 2001 XV_{20}	16.6	X	255.12213	15.13847	334.59461	6.52323	0.1845497	0.27598900	2.3363695	21	4 15.9	20.3
283575 2001 XB_{32}	16.0	X	220.93406	18.23200	4.76691	0.63166	0.1604590	0.17845630	3.1245067	21	5 5.8	21.2
283576 2001 XT_{38}	16.8	X	181.92773	118.79488	315.47180	7.54501	0.2252269	0.27707903	2.3302380	21	5 29.4	20.8
283577 2001 XO_{67}	15.9	X	239.57753	124.92003	267.88178	16.73555	0.2704413	0.23032360	2.6357877	21	5 24.5	20.6
283578 2001 XP_{76}	15.5	X	213.91955	141.02517	235.35982	15.74483	0.1760119	0.17653196	3.1471720	21	4 19.5	20.8
283579 2001 XU_{80}	15.6	X	272.74277	275.89593	88.83300	9.22899	0.2595499	0.18292091	3.0734570	21	5 24.5	20.4
283580 2001 XC_{97}	15.4	X	239.19253	109.95986	281.04353	7.33342	0.2624955	0.18106352	3.0944400	21	5 23.9	20.7
283581 2001 XN_{109}	15.7	X	229.18351	279.51248	92.80573	6.17510	0.1298733	0.17866936	3.1220222	21	5 4.6	20.7
283582 2001 XP_{134}	16.9	X	50.51379	222.33807	259.81603	6.10817	0.0877162	0.26447671	2.4036861	21	2 1.3	19.5
283583 2001 XK_{182}	17.4	X	174.47510	295.29090	101.48365	24.54804	0.1009983	0.37005932	1.9214178	21	4 3.9	20.4
283584 2001 XP_{183}	15.8	X	254.73329	131.81732	273.22550	11.84497	0.1606149	0.23094238	2.6310774	21	7 4.8	19.7
283585 2001 XR_{200}	16.8	X	158.14617	135.63247	282.80845	6.51042	0.0938753	0.27232656	2.3572703	21	4 6.6	20.1
283586 2001 XJ_{205}	15.1	X	148.00154	320.95908	106.39360	8.89209	0.1522834	0.17160325	3.2071484	21	4 27.7	20.3
283587 2001 XH_{228}	15.4	X	191.65239	140.54102	260.48318	15.49113	0.2244828	0.17535771	3.1612061	21	4 29.0	21.0
283588 2001 XN_{229}	16.7	X	150.47287	69.01758	68.23974	6.57095	0.1912427	0.22878619	2.6475826	21	7 23.5	21.1
283589 2001 XQ_{233}	15.5	X	170.51368	156.45677	263.30864	8.26620	0.1317388	0.17326960	3.1865529	21	5 3.0	20.7
283590 2001 XD_{242}	15.6	X	268.44154	96.89618	258.15470	7.33166	0.1461712	0.17980827	3.1088250	21	5 20.1	20.2
283591 2001 XV_{245}	17.0	X	239.28365	117.92845	280.64606	5.41037	0.1744842	0.28216457	2.3021541	21	6 7.0	20.3
283592 2001 XK_{262}	15.9	X	285.74992	105.41214	233.59753	9.11031	0.2540832	0.18410921	3.0602181	21	5 5.3	20.5
283593 2001 YU_{4}	17.4	X	76.95786	171.36127	314.36139	16.62749	0.0991135	0.36761764	1.9299164	21	2 26.3	18.8
283594 2001 YF_{12}	15.4	X	166.00837	208.52383	239.37150	14.11607	0.0404602	0.17786668	3.1314080	21	5 30.7	19.9
283595 2001 YP_{19}	16.9	X	79.29413	173.61160	279.55718	5.43030	0.0681598	0.26105249	2.4246598	21	2 6.8	19.6
283596 2001 YR_{33}	15.7	X	216.58029	68.13566	336.28669	4.14341	0.1381847	0.17802026	3.1296067	21	5 28.1	20.7
283597 2001 YE_{58}	17.2	X	261.39450	109.71990	276.00892	4.40795	0.1725393	0.28258844	2.2998514	21	6 14.6	20.4
283598 2001 YZ_{68}	16.6	X	334.87409	90.01984	83.11377	7.16239	0.0774132	0.25790047	2.4443757	21	—	—
283599 2001 YU_{103}	17.0	X	160.51475	315.11658	121.88662	1.96539	0.1642668	0.27286752	2.3541538	21	5 13.4	20.6
283600 2001 YJ_{110}	15.0	X	251.71178	314.29444	91.14962	19.81140	0.2994422	0.18061598	3.0995497	21	6 18.7	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283601 2001 YW_{114}	16.2	X	252.92382	249.77864	174.30520	14.78902	0.3444850	0.18525680	3.0475671	21	7 6.7	21.6
283602 2001 YL_{118}	15.2	X	234.60228	285.63669	107.86635	16.86826	0.2494712	0.17660928	3.1462534	21	5 28.9	20.7
283603 2001 YH_{153}	16.1	X	305.71862	37.32150	335.64554	13.38087	0.1920278	0.23561749	2.5961575	21	7 31.6	19.0
283604 2002 AV_{49}	16.9	X	81.82276	148.11172	296.41003	5.84236	0.0689519	0.26030382	2.4293068	21	1 31.0	19.6
283605 2002 AH_{96}	17.5	X	170.63022	107.52632	310.98284	2.64004	0.2298939	0.27222017	2.3578845	21	4 30.4	21.4
283606 2002 AX_{96}	17.4	X	314.60888	229.47331	301.77147	9.75781	0.1734414	0.25236281	2.4800045	21	—	—
283607 2002 AB_{99}	17.1	X	89.46749	142.16424	323.21024	6.35730	0.1597032	0.26461636	2.4028404	21	3 23.8	19.9
283608 2002 AK_{131}	17.2	X	155.36745	308.44212	130.70784	23.47705	0.0939465	0.37148727	1.9164909	21	5 8.1	20.2
283609 2002 AT_{173}	16.8	X	208.59700	264.87872	304.29142	25.48083	0.3161609	0.23901622	2.5714878	21	11 26.6	21.7
283610 2002 CO_{8}	17.1	X	173.83702	139.10839	278.27443	3.19834	0.1952995	0.27123629	2.3635829	21	4 30.4	20.9
283611 2002 CD_{23}	14.9	X	257.17873	98.16865	304.53917	19.42210	0.1836175	0.17695591	3.1421434	21	7 4.7	19.8
283612 2002 CV_{43}	16.7	X	213.21733	336.60444	347.27979	18.99562	0.0839433	0.35894329	1.9608852	21	1 29.5	19.4
283613 2002 CG_{48}	16.5	X	128.23377	237.06428	204.98291	6.05618	0.2315156	0.21651660	2.7466833	21	4 27.5	20.7
283614 2002 CQ_{50}	16.7	X	218.24383	279.25999	140.70474	5.49038	0.1149420	0.22417133	2.6837950	21	6 19.6	20.8
283615 2002 CG_{66}	16.0	X	295.00079	275.61214	125.66264	28.81569	0.1539283	0.23492674	2.6012439	21	8 29.4	19.3
283616 2002 CL_{87}	17.0	X	244.66235	37.04335	129.94716	12.73483	0.1146221	0.24092685	2.5578746	21	12 10.5	20.6
283617 2002 CH_{110}	16.0	X	118.19334	140.67080	355.25094	9.00194	0.0994323	0.21749053	2.7384773	21	6 8.2	20.1
283618 2002 CB_{138}	15.0	X	213.30659	96.69446	301.58455	23.65984	0.3784282	0.17479183	3.1680252	21	5 3.8	21.4
283619 2002 CE_{144}	16.8	X	161.12042	106.15463	316.45090	10.69915	0.2356542	0.26832917	2.3806239	21	4 24.1	21.0
283620 2002 CO_{153}	17.5	X	182.06207	94.86443	324.77768	0.77358	0.1851725	0.27225536	2.3576812	21	5 11.2	21.2
283621 2002 CO_{172}	16.6	X	250.65163	143.51440	61.54790	5.26573	0.1297369	0.24514720	2.5284329	21	—	—
283622 2002 CQ_{175}	16.6	X	333.51159	74.41628	95.83562	8.00672	0.0578234	0.25650671	2.4532223	21	—	—
283623 2002 CU_{175}	16.7	X	183.99362	73.22123	331.97181	6.93215	0.1055311	0.27046243	2.3680894	21	4 19.2	20.2
283624 2002 CZ_{194}	17.2	X	207.54326	52.64261	335.80367	3.05522	0.2141345	0.27083499	2.3659172	21	4 22.8	21.2
283625 2002 CU_{208}	16.8	X	171.36326	221.53987	27.37012	2.83319	0.2106945	0.23788983	2.5795986	21	12 22.4	21.0
283626 2002 CK_{210}	16.5	X	256.63783	43.01249	348.88200	3.27103	0.3041317	0.27811085	2.3244708	21	6 2.6	20.3
283627 2002 CK_{230}	17.1	X	216.09064	49.81657	153.60140	5.45554	0.2190264	0.23774058	2.5806781	21	12 7.6	21.1
283628 2002 CN_{273}	17.2	X	187.11173	297.30834	142.13052	2.66660	0.1808797	0.22231182	2.6987398	21	6 12.1	21.7
283629 2002 CK_{274}	17.1	X	192.28729	256.84840	133.62533	9.49258	0.2059347	0.26843221	2.3800147	21	4 17.9	21.2
283630 2002 CV_{309}	16.7	X	342.98748	19.35450	153.96822	11.65176	0.1107972	0.25562960	2.4588307	21	—	—
283631 2002 DO_{10}	16.5	X	237.81761	40.82889	183.85279	4.58149	0.0664961	0.24606068	2.5221713	21	—	—
283632 2002 DL_{17}	16.8	X	325.53848	49.49076	133.42862	24.89978	0.0670990	0.35366728	1.9803387	21	—	—
283633 2002 EG_{5}	16.9	X	231.57608	219.96233	7.97130	2.50012	0.0792777	0.24401361	2.5362575	21	—	—
283634 2002 EM_{39}	16.6	X	54.17389	58.22664	168.35692	11.57753	0.1386305	0.21807438	2.7335873	21	7 20.3	20.1
283635 2002 EE_{50}	16.7	X	45.37749	73.66812	168.57593	9.49395	0.1440730	0.21881143	2.7274453	21	7 29.1	20.0
283636 2002 EZ_{112}	16.9	X	18.52921	108.92129	156.82082	8.84395	0.2503130	0.21559932	2.7544684	21	7 26.8	19.3
283637 2002 EX_{160}	16.4	X	281.78647	61.80129	122.18019	12.90100	0.1172062	0.24518117	2.5281993	21	—	—
283638 2002 FL_{22}	16.2	X	226.01698	113.69952	107.17844	11.63207	0.1122030	0.24086921	2.5582826	21	—	—
283639 2002 FT_{22}	15.7	X	209.60784	153.50052	99.75132	13.10583	0.1177384	0.24346082	2.5400952	21	—	—
283640 2002 GC_{16}	16.4	X	247.71759	198.38812	21.86655	4.73854	0.0775913	0.24380452	2.5377074	21	—	—
283641 2002 GX_{55}	15.6	X	167.65916	321.27529	351.90362	11.26740	0.0589985	0.24472738	2.5313236	21	—	—
283642 2002 GJ_{56}	16.4	X	286.65277	274.90676	256.64760	5.19748	0.1761426	0.24309255	2.5426600	21	—	—
283643 2002 GJ_{71}	16.4	X	221.63045	196.73356	43.11672	8.16485	0.1053100	0.24173972	2.5521373	21	—	—
283644 2002 GV_{133}	16.2	X	115.86534	13.72558	348.17577	2.50734	0.0322638	0.24348444	2.5399309	21	—	—
283645 2002 GJ_{182}	16.7	X	119.28888	285.57747	186.08306	12.63831	0.2047111	0.21328513	2.7743569	21	5 24.5	21.1
283646 2002 HA_{6}	17.1	X	232.41039	328.99511	206.63126	6.54242	0.1474169	0.23323638	2.6137970	21	11 28.7	20.8
283647 2002 JW_{36}	17.2	X	180.04397	73.96371	169.29982	5.47343	0.3016792	0.23271968	2.6176644	21	12 17.7	21.9
283648 2002 JV_{87}	16.3	X	102.66050	64.55852	228.67464	13.43332	0.2161618	0.22694074	2.6619164	21	12 18.1	20.8
283649 2002 JS_{145}	16.3	X	145.50508	164.68422	110.32213	15.49227	0.2442268	0.23145092	2.6272220	21	12 31.4	21.0
283650 2002 JJ_{150}	17.2	X	116.85937	195.68810	118.98267	3.00968	0.1958988	0.23074592	2.6325706	21	—	—
283651 2002 KR_{13}	16.3	X	103.45096	227.71047	74.82195	9.61908	0.2952655	0.22606270	2.6688046	21	—	—
283652 2002 KU_{15}	17.2	X	111.26663	46.72969	225.81165	3.27751	0.1889707	0.22570994	2.6715845	21	11 30.1	21.6
283653 2002 LH_{13}	16.9	X	104.32496	163.40966	142.94151	5.27091	0.3060872	0.22600237	2.6692795	21	—	—
283654 2002 LJ_{47}	16.2	X	83.87576	80.28564	208.05801	11.66535	0.1258995	0.22232638	2.6986220	21	11 17.9	20.2
283655 2002 LB_{62}	16.3	X	118.20567	20.34807	261.12412	4.01458	0.2399194	0.22442816	2.6817471	21	12 17.9	20.9
283656 2002 MZ_{1}	15.9	X	69.55663	273.83681	103.53792	14.53847	0.3689164	0.22412988	2.6841259	21	—	—
283657 2002 NT_{57}	16.3	X	52.44714	106.18316	241.82484	5.76298	0.1149028	0.21961057	2.7208246	21	12 22.8	20.0
283658 2002 OE_{15}	16.2	X	40.84923	144.36467	203.21686	8.98543	0.2819931	0.21597981	2.7512325	21	12 30.2	20.2
283659 2002 OE_{31}	16.8	X	338.81448	275.35571	109.42315	7.34897	0.0549704	0.21533251	2.7567432	21	10 24.1	20.3
283660 2002 PV_{7}	16.9	X	95.92055	29.29922	273.65654	3.33319	0.1672686	0.22190767	2.7020155	21	12 20.3	21.2
283661 2002 PM_{13}	16.1	X	68.95944	4.52964	297.27770	8.81391	0.1533365	0.21857053	2.7294490	21	11 17.9	20.2
283662 2002 PD_{33}	16.1	X	41.15106	85.83909	262.48514	3.82434	0.1750634	0.21718333	2.7410591	21	12 17.6	19.7
283663 2002 PK_{90}	16.3	X	51.47040	43.94459	259.55193	10.90650	0.1866943	0.21357911	2.7718104	21	11 3.2	20.1
283664 2002 PW_{90}	15.3	X	23.30179	100.48733	277.39344	11.18912	0.1958573	0.21549427	2.7553635	21	—	—
283665 2002 PV_{98}	16.1	X	105.38583	218.08746	133.11700	7.53033	0.2343403	0.22567526	2.6718582	21	—	—
283666 2002 PK_{106}	16.1	X	348.57500	140.07398	253.39522	7.79880	0.1698502	0.21428850	2.7656898	21	11 21.8	19.0
283667 2002 PH_{113}	16.2	X	43.81361	65.24206	325.92000	23.66926	0.2907801	0.22026295	2.7154496	21	—	—
283668 2002 PD_{115}	16.7	X	28.80467	184.21880	161.40046	3.79883	0.0999502	0.21452791	2.7636318	21	11 17.0	20.2
283669 2002 PD_{118}	16.0	X	67.69769	350.19013	276.55290	8.28709	0.2393495	0.21335992	2.7737085	21	10 12.6	20.3
283670 2002 PN_{137}	16.8	X	56.26708	198.13766	120.26975	10.83053	0.2898393	0.21593113	2.7516459	21	12 13.9	21.0
283671 2002 PV_{163}	16.1	X	29.17320	33.47161	321.19757	8.62029	0.0285133	0.21850520	2.7299930	21	11 16.3	19.9
283672 2002 PG_{176}	16.7	X	347.86481	226.07210	172.18218	6.58083	0.1757585	0.21584193	2.7524039	21	11 29.8	19.6
283673 2002 PO_{177}	17.0	X	67.58518	292.02980	10.90427	3.31908	0.1888600	0.21705005	2.7421810	21	11 23.3	20.9
283674 2002 QA_{5}	15.7	X	331.14786	111.39008	295.90820	6.49163	0.2245321	0.21184631	2.7869047	21	11 2.4	18.2
283675 2002 QS_{21}	16.3	X	4.35495	208.46127	135.25119	6.67725	0.0598769	0.21157973	2.7892451	21	10 6.3	19.8
283676 2002 QT_{26}	17.1	X	30.12511	323.56946	10.61880	1.24612	0.2137593	0.21320279	2.7750712	21	11 19.5	20.5
283677 2002 QG_{49}	16.9	X	94.42421	287.41143	354.26043	6.69072	0.2617850	0.21965897	2.7204249	21	11 29.3	21.6
283678 2002 QA_{57}	16.9	X	63.43079	209.91916	117.38470	4.65872	0.1894400	0.21772978	2.7364709	21	12 19.5	21.0
283679 2002 QE_{64}	16.5	X	103.88885	130.72600	119.36265	4.91707	0.0186832	0.21263445	2.7800139	21	10 12.1	20.4
283680 2002 QZ_{79}	16.5	X	315.71781	335.12481	71.87221	3.10100	0.0716610	0.21363649	2.7713141	21	10 15.7	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283681 2002 QB_{90}	16.5	X	47.58343	213.83334	93.92453	6.16696	0.1205815	0.21251928	2.7810181	21	10 29.3	20.2
283682 2002 QX_{103}	16.3	X	16.60114	216.56248	173.04786	13.81778	0.0695653	0.21909087	2.7251256	21	12 22.4	20.1
283683 2002 QV_{112}	15.8	X	2.33395	261.57756	167.62339	13.76460	0.1131644	0.16998040	3.2275290	21	—	—
283684 2002 QL_{121}	17.1	X	40.24899	160.64467	197.58759	3.02052	0.2059115	0.21731402	2.7399600	21	—	—
283685 2002 QD_{124}	16.7	X	117.47227	317.90974	280.27629	5.27537	0.1088472	0.21610160	2.7501986	21	10 16.8	20.9
283686 2002 QD_{128}	16.3	X	18.74545	210.49423	138.23039	7.26009	0.0652733	0.21392318	2.7688376	21	11 3.9	19.9
283687 2002 QG_{139}	16.4	X	54.94811	206.82081	132.84324	15.55937	0.1160609	0.21970952	2.7200077	21	12 17.6	20.4
283688 2002 QM_{146}	16.5	X	14.57356	351.81947	354.78132	4.37941	0.0823501	0.21355025	2.7720602	21	10 23.6	19.8
283689 2002 RZ_{34}	15.8	X	153.34703	347.64801	326.78867	10.48294	0.1228668	0.17549614	3.1595435	21	—	—
283690 2002 RS_{36}	16.7	X	58.90203	46.81795	316.02576	8.34479	0.2048351	0.21974072	2.7197502	21	—	—
283691 2002 RH_{80}	16.1	X	341.30399	240.57365	170.54408	13.01669	0.1348546	0.21341189	2.7732582	21	12 2.7	19.4
283692 2002 RJ_{109}	15.9	X	322.59678	51.52984	329.18093	6.75819	0.0804233	0.20819223	2.8194196	21	9 16.3	19.3
283693 2002 RE_{112}	16.0	X	341.36941	152.14184	261.98986	5.20468	0.0614946	0.21594735	2.7515081	21	12 1.8	19.5
283694 2002 RC_{116}	17.7	X	61.99091	201.54737	112.80199	2.94971	0.3074384	0.21668665	2.7452461	21	12 15.6	21.9
283695 2002 RY_{133}	16.3	X	6.78085	261.04933	98.85361	9.35537	0.2230418	0.21116838	2.7928662	21	11 18.8	19.3
283696 2002 RR_{155}	16.7	X	297.10019	115.24830	304.60299	3.32703	0.0955198	0.20877934	2.8141314	21	9 28.2	20.2
283697 2002 RM_{183}	15.9	X	342.95384	80.89921	304.94964	14.19240	0.2374712	0.20923408	2.8100525	21	10 24.5	18.7
283698 2002 RT_{186}	16.3	X	31.27714	51.52571	294.36547	8.00899	0.1769342	0.21291139	2.7776026	21	11 29.9	19.9
283699 2002 RP_{222}	17.0	X	33.71522	239.34918	94.88257	2.89524	0.2327515	0.21287066	2.7779569	21	11 28.2	20.5
283700 2002 RG_{239}	16.3	X	344.71024	46.44638	317.37332	5.78923	0.0678610	0.20980253	2.8049744	21	9 27.9	19.8
283701 2002 RP_{243}	16.4	X	34.44665	67.45081	255.46629	7.96995	0.1614535	0.21324624	2.7746943	21	11 1.6	20.0
283702 2002 RV_{243}	16.9	X	11.24776	216.06375	156.89670	9.34599	0.1770152	0.21484090	2.7609470	21	12 7.6	20.2
283703 2002 RH_{255}	16.7	X	354.91031	241.73721	144.71460	8.42414	0.2209647	0.21311343	2.7758469	21	12 1.9	19.6
283704 2002 RT_{269}	17.3	X	39.67930	331.11569	23.19724	1.41782	0.0888496	0.21733929	2.7397476	21	12 10.5	21.0
283705 2002 SX	15.6	X	43.90165	87.90303	324.22284	22.93762	0.3231495	0.21924951	2.7238110	21	—	—
283706 2002 SA_{5}	16.7	X	345.13073	208.46315	183.32530	1.95086	0.2319604	0.20979121	2.8050753	21	11 16.4	19.0
283707 2002 SA_{10}	16.9	X	33.46219	162.80534	167.76246	4.50412	0.2016474	0.21120155	2.7925738	21	11 18.9	20.4
283708 2002 SW_{55}	16.1	X	12.88615	297.86312	63.41481	6.74849	0.2066998	0.21099815	2.7943681	21	11 26.6	19.1
283709 2002 TJ_{17}	17.3	X	33.32568	70.08048	350.05310	3.60434	0.1885460	0.27288470	2.3540549	21	—	—
283710 2002 TK_{57}	15.7	X	93.34877	287.66642	34.39934	11.95667	0.0991579	0.21499934	2.7595904	21	—	—
283711 2002 TR_{98}	16.7	X	9.81604	354.20991	357.86887	3.35235	0.1061888	0.20905764	2.8116334	21	10 25.7	20.0
283712 2002 TA_{104}	16.1	X	26.67188	26.70822	317.01196	8.30497	0.0836311	0.21247156	2.7814345	21	11 4.3	19.8
283713 2002 TS_{108}	16.1	X	70.55659	261.08968	67.47032	8.75515	0.2212659	0.21715257	2.7413179	21	12 31.2	20.5
283714 2002 TL_{143}	16.5	X	40.64082	258.45800	67.18334	8.71987	0.2923515	0.21236898	2.7823302	21	12 4.5	20.2
283715 2002 TL_{144}	15.5	X	49.55579	218.56108	97.28103	12.71409	0.2273363	0.21195729	2.7859318	21	11 26.5	19.4
283716 2002 TU_{148}	15.7	X	2.62235	145.50249	255.08895	11.15485	0.1691341	0.21570504	2.7535683	21	12 27.1	18.8
283717 2002 TB_{160}	16.6	X	26.45095	210.17821	132.53951	10.38283	0.2691793	0.21099328	2.7944111	21	12 5.8	20.1
283718 2002 TP_{162}	15.4	X	3.10738	274.82659	107.50417	13.98285	0.2158711	0.21030296	2.8005229	21	12 10.7	18.5
283719 2002 TX_{165}	15.1	X	164.19712	40.63757	258.32142	15.56520	0.1017576	0.17468540	3.1693119	21	—	—
283720 2002 TA_{170}	15.7	X	335.86956	143.55664	282.64289	11.40036	0.0606973	0.21397738	2.7683700	21	12 9.0	19.2
283721 2002 TC_{172}	15.9	X	31.95999	99.02306	241.90204	11.25295	0.1967481	0.21285043	2.7781330	21	11 28.5	19.4
283722 2002 TR_{186}	15.7	X	14.35761	12.82788	342.18082	8.95265	0.1893779	0.21094374	2.7948486	21	11 14.8	19.0
283723 2002 TU_{189}	15.9	X	346.66233	75.22349	324.05183	7.71775	0.1942447	0.21095443	2.7947542	21	11 25.6	18.8
283724 2002 TO_{218}	16.2	X	341.41488	87.40141	307.33895	7.53271	0.1477476	0.21045602	2.7991649	21	11 4.8	19.3
283725 2002 TA_{226}	15.6	X	273.34918	299.53654	62.65474	15.17855	0.1580725	0.24575645	2.5242524	21	5 30.3	19.0
283726 2002 TR_{230}	15.8	X	88.48115	246.31648	102.76133	13.15907	0.1702341	0.22225182	2.6992255	21	—	—
283727 2002 TM_{292}	15.7	X	60.45682	18.78991	338.36891	8.94045	0.2650181	0.21583184	2.7524897	21	—	—
283728 2002 TY_{341}	16.4	X	45.91114	171.50997	135.55148	5.76576	0.1082720	0.20854040	2.8162805	21	10 23.6	20.1
283729 2002 UX	18.0	X	194.31525	84.34578	263.85697	20.20488	0.1634349	0.55101845	1.4735288	21	—	—
283730 2002 VU_{2}	16.0	X	53.18451	99.30329	250.22560	3.66282	0.1646513	0.21321661	2.7749513	21	12 30.9	20.0
283731 2002 VJ_{13}	16.2	X	297.88855	107.42468	319.25456	1.34382	0.1869835	0.20356227	2.8620103	21	9 26.5	19.4
283732 2002 VB_{68}	13.6	X	300.40353	109.07038	213.67758	11.59472	0.1642037	0.08382240	5.1708586	21	5 23.2	20.3
283733 2002 VZ_{125}	15.5	X	15.57410	299.61510	280.69577	24.37098	0.2384245	0.27872406	2.3210602	21	4 3.9	18.0
283734 2002 VT_{147}	15.8	X	290.22802	63.43391	322.12253	9.52994	0.1310762	0.19748653	2.9204139	21	7 30.5	19.6
283735 2002 WY_{6}	17.7	X	295.04044	87.26100	326.31111	3.72218	0.0963433	0.30725391	2.1750593	21	9 29.9	19.8
283736 2002 WO_{7}	15.9	X	59.24715	254.51922	71.33717	10.33985	0.2893795	0.21148201	2.7901043	21	12 23.4	20.2
283737 2002 WB_{9}	15.9	X	56.68725	306.24958	23.07342	9.80195	0.2707843	0.21257111	2.7805661	21	12 23.3	20.2
283738 2002 XB_{21}	16.0	X	196.51060	138.47427	302.88017	2.67804	0.1105262	0.19056630	2.9906940	21	6 24.8	20.8
283739 2002 XO_{34}	15.5	X	36.37021	44.56760	296.86950	10.59259	0.1729560	0.21001605	2.8030729	21	11 29.9	19.3
283740 2002 XF_{75}	15.3	X	116.17236	208.50189	286.58422	8.96965	0.2170016	0.18126588	3.0921367	21	6 20.3	20.2
283741 2002 XH_{118}	17.3	X	21.49085	77.93888	125.58089	2.27899	0.1634020	0.27742813	2.3282827	21	4 11.7	19.0
283742 2003 AG_{9}	16.2	X	88.70544	237.44052	304.28007	22.65031	0.2192764	0.28698838	2.2762843	21	7 23.2	19.2
283743 2003 AP_{40}	15.4	X	136.49661	211.43167	267.57370	7.71994	0.1904720	0.17959502	3.1112854	21	6 17.1	20.3
283744 2003 AR_{41}	15.0	X	96.87010	351.47486	143.31314	18.39978	0.1706717	0.17446639	3.1719636	21	5 29.5	19.9
283745 2003 BL_{8}	15.1	X	37.67596	262.74659	291.08877	13.53184	0.0880046	0.17455571	3.1708814	21	5 2.5	19.5
283746 2003 BJ_{16}	15.2	X	198.80662	301.90807	126.70828	14.37956	0.1376714	0.18121517	3.0927135	21	6 12.6	20.3
283747 2003 BT_{53}	15.4	X	129.15866	168.07619	280.79591	8.43530	0.0737984	0.17437450	3.1730779	21	4 19.3	20.2
283748 2003 CN_{14}	17.6	X	193.26858	343.84623	109.65528	7.20837	0.1117177	0.29092972	2.2556791	21	7 6.7	20.6
283749 2003 CJ_{20}	17.2	X	142.89323	8.74472	101.39651	6.96983	0.1163633	0.28531247	2.2851895	21	6 4.2	20.4
283750 2003 CD_{25}	16.3	X	268.71901	144.77875	76.09149	13.67209	0.1740959	0.26301284	2.4125968	21	—	—
283751 2003 DR_{11}	17.3	X	251.06697	255.84274	167.86874	3.78447	0.1139589	0.29361684	2.2418957	21	8 2.6	20.2
283752 2003 DN_{24}	17.0	X	76.94991	170.23419	347.63555	6.80709	0.0776710	0.27998543	2.3140839	21	5 4.1	19.7
283753 2003 EW_{6}	16.8	X	105.63702	160.52530	327.08743	6.78026	0.0417570	0.27957744	2.3163347	21	4 26.6	19.7
283754 2003 EP_{30}	17.3	X	37.41476	192.79451	327.63967	2.99019	0.1751442	0.27415557	2.3467744	21	3 7.3	18.8
283755 2003 EO_{43}	17.2	X	50.85882	344.33019	8.05552	19.31524	0.0628808	0.35828931	1.9632705	21	—	—
283756 2003 EB_{57}	16.3	X	299.50448	218.38043	36.03924	23.67671	0.1936793	0.26788025	2.3832829	21	2 13.8	20.3
283757 2003 EU_{61}	17.2	X	316.16260	33.07812	180.69620	2.43133	0.1367228	0.26473897	2.4020984	21	1 7.3	20.2
283758 2003 FC_{22}	17.8	X	264.99766	40.35088	234.04731	0.59443	0.1654839	0.26621906	2.3931869	21	1 25.6	21.6
283759 2003 FO_{53}	16.4	X	291.06054	132.19220	110.81150	8.56497	0.2187478	0.26474367	2.4020700	21	1 7.5	19.9
283760 2003 FS_{61}	16.8	X	111.21450	328.08735	136.74889	8.31138	0.0489250	0.27542510	2.3395574	21	4 10.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283761 2003 FO_{73}	16.4	X	279.99879	132.90843	119.96092	7.06075	0.0910416	0.26497193	2.4006903	21	1 21.2	19.7
283762 2003 FG_{92}	16.8	X	273.53132	81.82660	166.60835	8.04335	0.2397887	0.26184012	2.4197951	21	—	—
283763 2003 FO_{131}	16.9	X	248.49448	81.20342	175.25420	7.04083	0.1905328	0.25990576	2.4317865	21	—	—
283764 2003 GW_{8}	16.9	X	287.88230	20.83829	196.96119	3.85082	0.1737441	0.26056376	2.4276908	21	—	—
283765 2003 GP_{48}	16.7	X	310.95836	160.45489	139.90025	4.53569	0.1608733	0.27552965	2.3389655	21	4 25.5	19.5
283766 2003 GR_{49}	16.6	X	237.91881	246.04928	40.85844	12.01412	0.2165906	0.26090175	2.4255937	21	1 18.6	20.9
283767 2003 GB_{51}	16.8	X	33.56220	87.46716	72.91836	5.31899	0.1413775	0.27022277	2.3694893	21	3 3.5	18.9
283768 2003 HE_{19}	17.3	X	255.31386	343.16801	297.32959	1.15634	0.1935329	0.26346235	2.4098518	21	1 23.2	21.2
283769 2003 HH_{22}	16.9	X	283.69104	118.57681	108.78758	3.61598	0.1788282	0.26020704	2.4299091	21	—	—
283770 2003 HN_{44}	16.8	X	29.80408	58.64878	96.29318	7.24660	0.0936018	0.26808634	2.3820613	21	2 16.7	19.2
283771 2003 JN_{16}	16.1	X	270.46416	176.06366	93.98672	13.03418	0.1608111	0.26295273	2.4129644	21	1 28.0	19.8
283772 2003 JX_{16}	15.9	X	186.71882	130.18618	188.02842	9.88182	0.3055939	0.25286612	2.4767127	21	1 16.3	20.5
283773 2003 NE_{5}	15.5	X	126.15705	56.55418	278.50003	29.01076	0.3944834	0.23825879	2.5769348	21	—	—
283774 2003 OE_{1}	17.2	X	151.74116	156.29327	152.60954	7.27126	0.2911461	0.24253228	2.5465743	21	—	—
283775 2003 OX_{1}	16.3	X	185.99285	141.39916	118.39706	17.66300	0.1285171	0.24319459	2.5419487	21	—	—
283776 2003 OR_{9}	16.6	X	162.67266	171.89080	155.54797	4.55299	0.1612617	0.24670531	2.5177758	21	—	—
283777 2003 OB_{21}	16.3	X	161.20026	2.60264	302.33792	7.86800	0.1566572	0.24426741	2.5345004	21	—	—
283778 2003 PS_{9}	15.1	X	79.15623	69.62269	269.51760	28.16310	0.3599851	0.23152832	2.6266365	21	—	—
283779 2003 QA_{10}	16.8	X	158.14690	247.68249	64.12118	6.66540	0.2336282	0.24356933	2.5393407	21	—	—
283780 2003 QJ_{22}	17.0	X	114.30702	27.12142	307.83949	8.56929	0.1398086	0.23765008	2.5813332	21	—	—
283781 2003 QZ_{28}	16.5	X	152.95931	249.47652	55.54886	4.66336	0.2022445	0.24026886	2.5625424	21	—	—
283782 2003 QN_{35}	16.9	X	131.46516	23.31153	333.60325	12.38348	0.2734833	0.24237453	2.5476791	21	1 20.3	20.7
283783 2003 QF_{59}	16.5	X	161.82932	230.66697	50.63310	4.31481	0.2783122	0.23974711	2.5662588	21	—	—
283784 2003 QN_{70}	17.5	X	296.67218	276.24105	329.71421	16.75271	0.0609791	0.36341994	1.9447490	21	1 19.9	19.7
283785 2003 QE_{103}	16.7	X	131.19572	176.26098	154.65332	9.36991	0.1123496	0.24037256	2.5618053	21	—	—
283786 Rutebeuf	14.4	X	352.92527	179.33944	254.56080	7.50236	0.1163062	0.12354768	3.9925127	21	12 23.6	19.3
283787 2003 QD_{105}	16.6	X	132.47027	176.62612	156.26125	7.27278	0.1554242	0.23925855	2.5697512	21	—	—
283788 2003 QF_{106}	16.9	X	130.32169	199.60148	159.06350	7.94434	0.3302845	0.24076006	2.5590558	21	1 24.5	20.9
283789 2003 QD_{107}	16.4	X	107.05526	215.28198	136.48380	15.10919	0.1626308	0.23947801	2.5681810	21	—	—
283790 2003 RG_{1}	16.7	X	57.54760	274.11313	121.35975	6.76926	0.2656827	0.23309862	2.6148268	21	—	—
283791 2003 RJ_{11}	16.7	X	125.10089	40.21842	292.48743	6.98730	0.1804141	0.23873742	2.5734894	21	—	—
283792 2003 RY_{19}	16.7	X	109.73199	219.10038	173.92239	12.23041	0.2114778	0.24243606	2.5472480	21	1 26.9	20.0
283793 2003 SS_{13}	17.3	X	107.45350	200.23568	151.90996	3.71697	0.2265838	0.23783707	2.5799801	21	—	—
283794 2003 SC_{23}	16.2	X	177.16862	49.06819	224.56640	5.52258	0.2396532	0.23868504	2.5738659	21	—	—
283795 2003 SN_{32}	17.0	X	320.35962	251.27713	358.19669	21.23248	0.0532831	0.36582446	1.9362179	21	3 3.3	18.9
283796 2003 SD_{37}	15.9	X	67.09315	195.63225	237.43527	13.00444	0.0685654	0.24445513	2.5332027	21	—	—
283797 2003 SU_{42}	16.2	X	143.22577	68.92812	265.38111	6.51790	0.0819745	0.24171615	2.5523033	21	—	—
283798 2003 SS_{59}	16.8	X	117.77889	336.31321	9.44906	3.47407	0.1716217	0.23928213	2.5695824	21	—	—
283799 2003 SJ_{77}	15.2	X	119.36428	170.01306	216.23864	10.53649	0.0612442	0.18833771	3.0142402	21	1 19.0	19.6
283800 2003 SJ_{85}	16.0	X	108.41614	12.36589	268.99594	12.95424	0.2289311	0.23060314	2.6336572	21	12 10.7	20.5
283801 2003 SA_{94}	15.7	X	92.39559	5.86665	11.13567	17.56271	0.2296142	0.18030907	3.1030659	21	1 4.8	20.1
283802 2003 SX_{101}	15.5	X	33.17080	183.30587	244.52633	10.11366	0.1095402	0.17843747	3.1247265	21	—	—
283803 2003 SR_{106}	17.2	X	105.93618	257.90138	53.63886	2.70599	0.1286257	0.23005042	2.6378739	21	—	—
283804 2003 SW_{116}	16.5	X	112.08565	78.55588	299.78610	11.44781	0.2056743	0.24069083	2.5595465	21	1 13.1	19.7
283805 2003 SE_{130}	16.3	X	69.76111	181.64134	194.94396	21.61097	0.0470308	0.23487623	2.6016169	21	—	—
283806 2003 SM_{133}	16.1	X	133.57896	27.07139	285.24575	8.95316	0.1166907	0.23879531	2.5730735	21	—	—
283807 2003 SM_{137}	16.8	X	96.33164	353.97545	356.24509	4.59415	0.1994324	0.23344201	2.6122619	21	—	—
283808 2003 SN_{143}	17.0	X	51.08729	52.72482	338.22283	4.98024	0.1590878	0.23141443	2.6274982	21	—	—
283809 2003 SE_{176}	16.2	X	59.88867	151.91520	178.33512	11.82456	0.0461471	0.22732870	2.6588869	21	12 3.3	20.0
283810 2003 SU_{182}	17.4	X	257.60453	277.78958	6.93102	19.70925	0.1114131	0.36194981	1.9500114	21	1 27.1	20.4
283811 2003 SA_{204}	16.5	X	9.31053	156.62206	280.55606	5.45569	0.1879445	0.23136120	2.6279012	21	—	—
283812 2003 SQ_{208}	16.8	X	85.94486	123.76363	285.31699	3.92079	0.2037804	0.24147967	2.5539693	21	1 12.9	19.4
283813 2003 SD_{233}	17.0	X	124.24784	236.67243	111.04782	4.00632	0.2546033	0.23903346	2.5713642	21	—	—
283814 2003 SS_{244}	17.2	X	147.00631	301.46416	16.38951	4.67642	0.2133427	0.24008625	2.5638416	21	—	—
283815 2003 SU_{251}	16.5	X	84.34215	338.59738	41.31195	6.48640	0.2782677	0.23341704	2.6124481	21	—	—
283816 2003 SK_{266}	17.2	X	50.19307	177.15474	230.06356	1.73491	0.2262621	0.23306637	2.6150679	21	—	—
283817 2003 SP_{274}	16.9	X	27.66269	318.05506	65.58387	2.11568	0.0617266	0.22731585	2.6589871	21	12 30.5	20.4
283818 2003 SV_{297}	15.8	X	347.22073	188.60756	234.29255	14.31923	0.2381239	0.17138609	3.2098569	21	12 20.7	19.2
283819 2003 SE_{303}	17.5	X	99.26230	125.26570	233.27206	5.03742	0.2606741	0.23567228	2.5957551	21	—	—
283820 2003 SE_{309}	16.6	X	68.05004	73.95589	291.15438	11.63691	0.0704019	0.23078143	2.6323006	21	—	—
283821 2003 SK_{324}	16.1	X	316.50335	258.08876	183.41147	10.67431	0.0587222	0.22704150	2.6611287	21	12 4.8	19.5
283822 2003 SB_{340}	16.4	X	152.04670	255.81953	67.89004	13.41588	0.2229849	0.23931256	2.5693645	21	—	—
283823 2003 SX_{401}	16.0	X	166.60029	50.57747	153.15116	14.40431	0.0327139	0.21785143	2.7354520	21	11 1.7	20.1
283824 2003 TB_{5}	16.5	X	38.29902	145.71219	229.77455	6.58516	0.0966868	0.22755123	2.6571532	21	—	—
283825 2003 TE_{9}	16.1	X	105.43702	59.99617	253.74519	13.23649	0.2161183	0.23077521	2.6323479	21	—	—
283826 2003 TP_{12}	17.0	X	108.34619	62.74162	286.48636	2.55866	0.2679870	0.23619973	2.5918893	21	—	—
283827 2003 TP_{15}	17.1	X	129.18314	267.04027	95.76735	7.16136	0.3495095	0.24043191	2.5613837	21	2 1.8	21.1
283828 2003 TE_{28}	16.9	X	98.85460	97.34211	229.28603	1.76587	0.0966113	0.23091261	2.6313035	21	—	—
283829 2003 TT_{53}	16.3	X	268.76808	292.56219	187.75697	21.25624	0.0802157	0.22227766	2.6990163	21	11 14.4	20.1
283830 2003 TT_{58}	17.2	X	56.25153	242.18812	181.74763	11.26537	0.1777058	0.23584421	2.5944934	21	—	—
283831 2003 UP_{4}	16.8	X	181.95531	98.52071	288.10602	17.59280	0.0973356	0.36294510	1.9464448	21	3 3.6	19.6
283832 2003 UC_{9}	16.3	X	62.16318	261.52679	142.53320	16.91962	0.2356731	0.23313801	2.6145322	21	—	—
283833 2003 US_{18}	16.5	X	115.36532	277.96173	71.60550	12.15688	0.2917031	0.23657375	2.5891567	21	—	—
283834 2003 UY_{31}	16.3	X	304.25762	300.55404	193.02341	11.34105	0.2328298	0.22746573	2.6578190	21	—	—
283835 2003 UT_{34}	17.1	X	71.58953	173.32464	221.55855	3.94495	0.2363225	0.23419817	2.6066360	21	—	—
283836 2003 UY_{58}	16.8	X	84.97070	89.57192	298.09372	7.68537	0.1620793	0.23544953	2.5973920	21	—	—
283837 2003 UP_{59}	16.7	X	119.13563	26.63166	318.47574	11.07704	0.1918270	0.23666629	2.5884818	21	—	—
283838 2003 UM_{83}	16.8	X	68.60413	173.17052	230.01373	14.17046	0.1583912	0.23464090	2.6033560	21	—	—
283839 2003 UJ_{98}	17.1	X	103.44129	223.16004	147.35046	5.88002	0.3107946	0.23613787	2.5923419	21	1 7.7	20.1
283840 2003 UV_{102}	17.1	X	81.98338	200.94061	158.03534	3.05303	0.1680801	0.23219819	2.6215823	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
283841 2003 UW_{106}	15.0	X	13.58732	201.43961	252.31459	11.30341	0.0259917	0.17715142	3.1398311	21	—	—
283842 2003 UQ_{108}	17.1	X	100.17714	60.38529	250.19564	1.15501	0.1287808	0.22689199	2.6622976	21	12 31.5	21.3
283843 2003 UH_{113}	16.2	X	97.96585	257.76397	65.63152	12.84389	0.2020157	0.23059809	2.6336956	21	—	—
283844 2003 UH_{116}	16.6	X	42.12194	328.70861	72.36617	4.51112	0.1990365	0.23019712	2.6367531	21	—	—
283845 2003 UE_{126}	16.0	X	84.57854	257.82813	101.58088	15.97084	0.2116790	0.23120730	2.6290672	21	—	—
283846 2003 UO_{134}	16.5	X	66.98038	9.18469	343.47710	4.07860	0.1007341	0.22796348	2.6539487	21	—	—
283847 2003 UX_{136}	17.2	X	93.86185	187.27646	188.85138	3.49970	0.2426392	0.23605664	2.5929367	21	—	—
283848 2003 UG_{146}	17.4	X	81.50710	201.90269	190.10412	5.95567	0.3452684	0.23460505	2.6036213	21	1 5.9	19.8
283849 2003 UR_{151}	16.4	X	354.03330	336.35477	85.21830	4.93420	0.1995774	0.22412210	2.6841880	21	—	—
283850 2003 UL_{181}	17.5	X	68.71240	177.88083	173.83625	4.00129	0.2164731	0.28455304	2.2892536	21	—	—
283851 2003 UU_{212}	16.2	X	115.25968	278.20256	49.09459	15.62637	0.2592587	0.23305475	2.6151549	21	—	—
283852 2003 UF_{233}	16.1	X	74.84498	12.33023	316.67506	3.77012	0.1013785	0.22481634	2.6786592	21	12 24.8	19.9
283853 2003 UQ_{256}	15.8	X	94.63257	280.16980	61.23561	12.58985	0.2593778	0.23159972	2.6260966	21	—	—
283854 2003 UX_{274}	16.3	X	133.51385	300.51928	93.97697	8.91213	0.2531296	0.24230767	2.5481478	21	3 8.4	20.3
283855 2003 UD_{277}	16.5	X	20.29248	181.53816	247.06044	4.17175	0.2925062	0.22775743	2.6555492	21	—	—
283856 2003 UW_{331}	17.7	X	78.14636	101.00860	297.14209	3.52153	0.2010090	0.23804263	2.5784946	21	—	—
283857 2003 UP_{341}	15.8	X	13.30898	338.61476	212.55841	14.68896	0.0841213	0.20235927	2.8733420	21	3 19.3	19.5
283858 2003 VY_{10}	16.4	X	339.81971	162.69088	248.78417	6.06885	0.1465819	0.22052370	2.7133087	21	11 30.9	19.3
283859 2003 WS_{28}	16.4	X	33.53390	85.93497	288.54798	9.18049	0.1153533	0.22379583	2.6867962	21	—	—
283860 2003 WG_{38}	16.4	X	71.52631	52.84587	325.53204	6.62581	0.1999784	0.22991437	2.6389144	21	—	—
283861 2003 WB_{39}	17.0	X	68.82251	63.72887	301.28447	5.15767	0.1386160	0.22889642	2.6467325	21	—	—
283862 2003 WB_{73}	16.6	X	94.20042	58.55491	309.20737	3.82142	0.3278805	0.23357841	2.6112448	21	—	—
283863 2003 WG_{76}	16.2	X	0.86118	313.02823	47.09580	4.72813	0.0139407	0.21456822	2.7632857	21	10 18.5	19.8
283864 2003 WY_{82}	17.2	X	119.22247	5.84008	331.56335	2.86808	0.1686160	0.23515712	2.5995447	21	—	—
283865 2003 WC_{98}	16.1	X	4.44325	285.46092	145.80443	8.58266	0.2854873	0.22285537	2.6943498	21	—	—
283866 2003 WY_{102}	16.3	X	23.93737	89.43675	319.98130	14.40242	0.1530703	0.22648911	2.6654538	21	—	—
283867 2003 WC_{104}	15.7	X	5.02836	338.60027	74.68167	6.42559	0.1880398	0.22320188	2.6915605	21	—	—
283868 2003 WU_{150}	16.3	X	320.49225	250.18660	161.63325	5.15482	0.1098821	0.21675553	2.7446645	21	10 28.6	19.4
283869 2003 WL_{166}	16.8	X	175.75131	95.22376	259.56129	18.99745	0.0571980	0.35212943	1.9861002	21	1 12.1	19.2
283870 2003 WC_{168}	16.7	X	2.59829	301.87529	130.44749	6.92257	0.2784433	0.22616812	2.6679752	21	—	—
283871 2003 WB_{189}	16.3	X	84.74370	204.03740	157.09366	14.48023	0.2760557	0.23049684	2.6344668	21	—	—
283872 2003 XP_{5}	16.8	X	147.51400	157.70768	256.75477	18.87232	0.0802193	0.35837167	1.9629697	21	2 24.9	19.6
283873 2003 XX_{23}	16.6	X	161.93757	82.65388	80.54692	3.05727	0.1168124	0.20539325	2.8449760	21	9 2.3	21.1
283874 2003 YB	15.8	X	283.07322	346.40017	100.75234	14.01283	0.2629493	0.20988785	2.8042142	21	9 27.0	19.6
283875 2003 YS_{9}	16.2	X	62.07535	109.67491	284.48222	11.28021	0.2327494	0.23230075	2.6208106	21	—	—
283876 2003 YP_{35}	16.5	X	72.63865	138.76386	240.56199	3.99024	0.3010278	0.23024252	2.6364064	21	—	—
283877 2003 YV_{43}	15.5	X	4.48634	88.48700	292.64696	23.68120	0.1888394	0.21459789	2.7630310	21	12 8.4	18.9
283878 2003 YB_{58}	15.9	X	56.97892	316.41793	95.40564	12.70192	0.1855088	0.22972248	2.6403837	21	—	—
283879 2003 YZ_{113}	15.9	X	208.31940	242.52274	259.46296	5.43814	0.1605798	0.20530129	2.8458254	21	9 14.7	20.5
283880 2003 YV_{154}	14.9	X	42.74835	73.41818	95.99220	18.53477	0.2122771	0.17732976	3.1377257	21	5 4.5	18.7
283881 2003 YW_{157}	15.9	X	50.28742	7.17678	321.37596	5.79208	0.0522283	0.21869356	2.7284252	21	11 14.7	19.6
283882 2003 YB_{158}	15.9	X	111.81907	69.04334	275.92876	12.41370	0.1687809	0.23389059	2.6089208	21	—	—
283883 2003 YM_{180}	15.7	X	141.35153	201.78751	298.63485	10.40099	0.0538061	0.19526951	2.9424771	21	7 8.9	19.9
283884 2004 BT_{22}	15.9	X	18.61803	248.36373	118.70261	10.26465	0.1979407	0.21416264	2.7667733	21	12 14.2	19.2
283885 2004 BE_{54}	15.5	X	8.68900	249.29459	318.09893	13.47193	0.1802136	0.18009198	3.1055591	21	3 29.7	19.1
283886 2004 BN_{54}	14.7	X	18.66860	97.55556	115.12471	13.56886	0.2285607	0.18103578	3.0947562	21	5 11.9	18.0
283887 2004 BZ_{68}	16.2	X	74.15544	280.17428	182.50537	27.45268	0.3884710	0.23495467	2.6010378	21	4 14.1	19.2
283888 2004 BY_{70}	15.8	X	311.38735	118.32765	322.38882	6.95620	0.1988788	0.21281414	2.7784487	21	11 8.6	18.7
283889 2004 BL_{89}	16.6	X	12.91846	287.58553	282.57273	7.17233	0.2649625	0.29166941	2.2518639	21	3 11.9	17.9
283890 2004 BY_{110}	15.7	X	338.33232	90.40604	296.18405	23.47278	0.2038751	0.21060958	2.7978041	21	10 5.8	19.1
283891 2004 BF_{130}	16.9	X	251.42337	223.43404	216.39843	1.27035	0.0358596	0.20223285	2.8745393	21	9 1.0	20.9
283892 2004 BY_{153}	16.0	X	12.34455	223.35732	344.77555	9.59038	0.0413520	0.17805115	3.1292447	21	4 12.5	20.3
283893 2004 CB_{6}	15.7	X	116.11355	202.26774	305.82666	5.26491	0.0425092	0.18936723	3.0033055	21	6 16.3	19.9
283894 2004 CL_{8}	16.0	X	250.41775	325.90502	131.90029	11.67454	0.0840392	0.20469683	2.8514251	21	9 20.5	20.1
283895 2004 CD_{20}	16.1	X	306.00043	213.67812	122.96246	12.68755	0.0082917	0.19320198	2.9634323	21	7 3.7	20.3
283896 2004 CL_{20}	15.0	X	320.24488	303.23036	322.38408	22.94755	0.1958943	0.18124622	3.0923602	21	3 15.8	19.5
283897 2004 CD_{56}	15.7	X	17.32100	253.52836	301.66992	14.58716	0.1968975	0.17805448	3.1292057	21	3 29.2	19.3
283898 2004 CZ_{63}	15.6	X	46.51470	47.10616	119.52684	17.57749	0.1662605	0.17901516	3.1180005	21	5 1.2	19.7
283899 2004 CU_{98}	15.3	X	96.32901	332.40856	159.76112	17.89558	0.1682916	0.18178929	3.0861984	21	5 24.3	20.1
283900 2004 DQ_{15}	15.7	X	18.42974	300.26997	290.42323	12.79644	0.0827422	0.18484741	3.0520652	21	5 23.1	19.7
283901 2004 DO_{28}	15.7	X	125.34844	319.76916	147.67307	17.46387	0.0705857	0.18355988	3.0663204	21	5 15.6	20.5
283902 2004 DP_{28}	15.8	X	66.07403	196.09581	350.12581	6.70298	0.1070955	0.18461667	3.0546076	21	6 9.3	19.9
283903 2004 DT_{43}	17.6	X	21.12863	190.43916	17.99010	4.01217	0.1048461	0.29292725	2.2454128	21	4 15.0	19.6
283904 2004 DX_{43}	17.5	X	79.72951	142.73281	98.43247	3.05369	0.0636129	0.30700356	2.1762416	21	9 13.7	19.9
283905 2004 EB_{42}	17.2	X	257.69945	291.17916	257.85942	1.27756	0.1487169	0.26983631	2.3717512	21	—	—
283906 2004 EH_{45}	17.8	X	96.80366	42.48722	4.80357	2.07843	0.0305842	0.28067519	2.3102910	21	—	—
283907 2004 ES_{93}	18.2	X	110.66803	52.27022	152.47520	6.38941	0.1915459	0.30479899	2.1867226	21	9 14.7	21.3
283908 2004 FY_{8}	15.7	X	76.56477	346.83307	150.58617	11.25982	0.1738146	0.17701976	3.1413877	21	5 6.6	20.1
283909 2004 FM_{13}	16.0	X	108.90450	174.45004	332.30182	8.76240	0.0458197	0.18354769	3.0664562	21	6 5.1	20.5
283910 2004 FK_{23}	17.9	X	58.58951	87.75979	182.11858	3.23764	0.1470275	0.30596838	2.1811474	21	10 7.8	20.3
283911 2004 FE_{38}	17.3	X	62.41886	341.56898	270.28017	3.84190	0.1375318	0.30325997	2.1941147	21	9 12.2	19.9
283912 2004 FW_{111}	15.3	X	62.95955	226.60969	301.15629	8.92151	0.1689641	0.17803629	3.1294188	21	5 19.8	19.4
283913 2004 FX_{111}	15.7	X	329.04467	113.83840	180.11535	10.61395	0.0583906	0.18264881	3.0765087	21	6 4.9	20.0
283914 2004 FQ_{121}	17.2	X	79.09075	82.89164	150.65049	7.59976	0.1158159	0.30232453	2.1986383	21	9 8.6	19.8
283915 2004 FG_{124}	15.0	X	321.78492	182.45047	107.66958	19.71301	0.1697428	0.18042079	3.1017848	21	5 12.8	19.2
283916 2004 FB_{125}	17.6	X	42.27399	280.59578	354.49408	7.47140	0.1803500	0.30221840	2.1991530	21	9 25.3	19.7
283917 2004 FF_{143}	15.9	X	174.36672	109.00811	326.46884	2.35948	0.0397731	0.18448969	3.0560092	21	5 23.8	20.4
283918 2004 GL_{31}	17.1	X	23.03665	214.53426	65.21849	3.12572	0.1336777	0.29909286	2.2144473	21	8 22.2	19.0
283919 2004 HU_{12}	17.4	X	44.60721	158.12894	122.39230	6.30536	0.1828735	0.30423066	2.1894451	21	10 12.1	19.8
283920 2004 HL_{25}	17.4	X	268.14551	74.73207	129.74333	1.92466	0.1287765	0.27062860	2.3671199	21	—	—

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
283921	2004 HH_{53}	15.8	X	109.12604	289.88141	221.72771	7.17429	0.0793912	0.18044167	3.1015455	21	6 17.2	20.3
283922	2004 HX_{60}	17.0	X	37.71617	95.87992	136.18319	5.88420	0.1137244	0.29339086	2.2430468	21	6 28.0	19.0
283923	2004 JH_{26}	17.0	X	49.42247	203.01166	48.76427	7.86792	0.0683835	0.29722298	2.2237252	21	8 16.9	19.5
283924	2004 KA_{11}	17.5	X	16.95231	130.07887	123.05585	6.79654	0.1733921	0.29244059	2.2479033	21	6 24.9	19.1
283925	2004 LJ_{12}	16.8	X	113.65866	161.48237	165.05483	6.80462	0.1536290	0.26021636	2.4298510	21	—	—
283926	2004 NT_{8}	17.5	X	291.57356	315.73960	345.76709	4.01936	0.2105361	0.28006603	2.3136399	21	3 21.2	20.6
283927	2004 NW_{14}	17.3	X	280.05459	215.52026	128.73834	6.83096	0.2284270	0.28233755	2.3012137	21	5 5.6	20.6
283928	2004 OZ_{6}	17.4	X	268.99356	247.18031	111.39557	4.41581	0.2278190	0.28245430	2.3005795	21	5 11.5	20.7
283929	2004 PA_{2}	17.1	X	244.68893	347.37592	32.69769	3.66094	0.2365059	0.27965823	2.3158885	21	5 13.3	20.8
283930	2004 PM_{7}	17.6	X	303.88765	349.46328	305.39963	1.74973	0.2057285	0.27960179	2.3162002	21	3 27.6	20.3
283931	2004 PT_{17}	16.8	X	191.87056	291.60416	122.27463	9.02838	0.1988622	0.27590302	2.3368549	21	5 15.8	20.8
283932	2004 PS_{18}	17.0	X	270.38297	4.94070	314.63490	7.16246	0.1081097	0.27641592	2.3339633	21	3 30.9	20.3
283933	2004 PS_{30}	17.3	X	276.31261	205.06145	113.25221	2.50850	0.2478319	0.27814936	2.3242562	21	3 25.0	20.9
283934	2004 PX_{30}	17.6	X	346.31186	124.65501	139.45629	4.38276	0.1100589	0.28214346	2.3022690	21	5 9.3	19.8
283935	2004 PH_{31}	17.4	X	271.63485	199.07539	140.90316	2.76857	0.2477273	0.27907027	2.3191402	21	4 17.3	20.8
283936	2004 PG_{34}	17.5	X	274.28662	222.02404	133.59055	2.35127	0.2459928	0.28074558	2.3099049	21	5 10.5	20.7
283937	2004 PY_{35}	16.5	X	302.91907	180.03525	173.88975	6.53944	0.2503236	0.28305884	2.2973028	21	6 13.8	19.1
283938	2004 PR_{40}	16.8	X	262.83814	31.48561	280.39467	5.91963	0.1301511	0.27329448	2.3517012	21	3 10.6	20.3
283939	2004 PJ_{48}	17.0	X	286.13153	348.83576	299.74986	5.30984	0.1894692	0.27658813	2.3329944	21	2 28.0	20.3
283940	2004 PU_{55}	17.1	X	242.46092	208.88611	128.34373	6.41336	0.1281824	0.27317841	2.3523673	21	3 28.1	20.6
283941	2004 PJ_{59}	17.2	X	266.42081	218.03445	164.36568	7.94090	0.2727439	0.28259284	2.2998276	21	6 4.4	20.8
283942	2004 PD_{61}	17.0	X	249.48187	16.11964	308.82396	6.33604	0.1237953	0.27231822	2.3573184	21	3 14.3	20.6
283943	2004 PL_{61}	17.2	X	252.77514	187.35622	172.07140	6.41725	0.1169800	0.27779642	2.3262245	21	5 7.7	20.4
283944	2004 PS_{62}	17.4	X	242.13233	276.84903	75.85293	3.58830	0.2190620	0.27625138	2.3348899	21	4 9.5	21.1
283945	2004 PB_{63}	17.9	X	278.90335	120.42306	204.02991	0.80848	0.2052275	0.27856903	2.3219213	21	4 7.9	21.0
283946	2004 PV_{64}	17.4	X	274.39159	59.08180	309.49621	1.73205	0.2264406	0.27969265	2.3156985	21	5 29.7	20.5
283947	2004 PF_{65}	16.3	X	247.27292	341.99409	355.73882	8.97936	0.1985284	0.27063811	2.3670644	21	3 25.3	20.1
283948	2004 PU_{85}	17.3	X	279.59461	210.84264	146.11423	5.86547	0.2949616	0.27878462	2.3207241	21	5 13.2	20.8
283949	2004 PG_{94}	17.5	X	301.55220	10.10018	297.94597	2.97844	0.1547691	0.28015302	2.3131609	21	4 19.4	20.2
283950	2004 PL_{103}	16.4	X	254.92090	27.44927	332.40769	7.43435	0.2059169	0.27500332	2.3419490	21	4 26.6	20.0
283951	2004 PY_{112}	17.3	X	295.16891	75.00964	259.09145	6.24217	0.1374565	0.28233262	2.3012405	21	5 21.9	20.0
283952	2004 QH_{1}	16.1	X	267.71873	94.05301	277.22766	10.88577	0.2721905	0.27497220	2.3421256	21	5 19.6	19.7
283953	2004 QT_{3}	17.8	X	307.30469	79.77356	223.53368	4.91374	0.2530187	0.28121517	2.3073327	21	4 4.9	20.8
283954	2004 QS_{7}	17.4	X	275.56548	313.89316	341.33973	1.68126	0.2176014	0.27370897	2.3493264	21	2 25.4	20.7
283955	2004 QW_{19}	17.3	X	267.07806	165.03104	169.26992	5.33943	0.2421382	0.27612390	2.3356085	21	4 6.3	20.8
283956	2004 QH_{24}	15.7	X	264.87204	144.51089	254.96422	24.77430	0.2182079	0.27994350	2.3143149	21	6 28.4	19.1
283957	2004 RF	16.9	X	305.27764	326.87609	291.85340	6.21200	0.0928701	0.27273530	2.3549145	21	2 24.6	20.1
283958	2004 RX	18.4	X	287.40812	304.73489	347.12318	21.66931	0.1654016	0.39156270	1.8504123	21	2 26.0	20.5
283959	2004 RZ_{12}	17.2	X	266.77785	211.41651	138.52775	6.26384	0.1724993	0.27781591	2.3261157	21	5 5.3	20.6
283960	2004 RJ_{13}	17.1	X	280.75401	257.34343	65.06036	5.77813	0.1914731	0.27680730	2.3317627	21	4 11.6	20.3
283961	2004 RB_{19}	17.5	X	321.48697	130.49897	161.61470	3.28322	0.2209917	0.28129991	2.3068693	21	4 17.9	19.7
283962	2004 RD_{21}	18.0	X	232.47888	61.18405	296.01004	1.18256	0.1894605	0.27345322	2.3507910	21	4 6.1	21.6
283963	2004 RO_{27}	18.1	X	287.15359	337.45476	325.69346	1.98130	0.1747841	0.27686924	2.3314150	21	3 23.3	21.3
283964	2004 RA_{47}	17.5	X	283.57790	310.12812	330.13554	1.89742	0.1965244	0.27272790	2.3549571	21	2 16.5	20.8
283965	2004 RW_{49}	17.4	X	265.46047	152.55891	146.77942	1.92494	0.1937955	0.27198710	2.3592312	21	2 23.3	21.1
283966	2004 RQ_{55}	17.3	X	176.91869	109.74973	291.72053	3.92347	0.2071610	0.26952622	2.3735700	21	4 12.6	21.3
283967	2004 RG_{58}	17.1	X	208.01532	219.37095	158.58026	7.70806	0.2392280	0.27070635	2.3663520	21	4 13.4	21.2
283968	2004 RV_{65}	17.4	X	162.01960	241.45955	176.53218	2.22445	0.2177585	0.26797922	2.3826960	21	4 23.7	21.3
283969	2004 RG_{66}	17.4	X	210.84846	85.89990	280.66997	0.46976	0.2032747	0.27005036	2.3704977	21	3 30.4	21.2
283970	2004 RN_{83}	17.8	X	205.30883	263.08294	137.91632	2.58928	0.2112382	0.27350153	2.3505142	21	5 8.9	21.6
283971	2004 RZ_{97}	17.1	X	253.17544	16.32072	305.11315	5.14703	0.1363487	0.27272320	2.3549842	21	3 13.2	20.7
283972	2004 RP_{101}	17.1	X	276.27300	88.07209	193.78481	5.46215	0.2229842	0.27163197	2.3612871	21	2 7.5	20.8
283973	2004 RW_{109}	17.3	X	200.31443	341.10080	336.28115	24.22474	0.0739030	0.37844791	1.8929187	21	—	—
283974	2004 RE_{148}	17.1	X	310.30445	294.09417	26.22492	6.72545	0.1394181	0.28081911	2.3095016	21	5 23.9	19.7
283975	2004 RL_{155}	17.1	X	228.54775	80.21538	238.74477	5.42125	0.1246012	0.26721919	2.3872118	21	2 14.4	20.9
283976	2004 RW_{158}	17.7	X	202.70240	136.82223	252.00863	1.24954	0.1923733	0.27132625	2.3630605	21	4 20.1	21.5
283977	2004 RS_{161}	16.8	X	255.24193	333.49616	183.63933	11.33733	0.1092115	0.24433315	2.5340458	21	12 12.2	20.1
283978	2004 RQ_{169}	17.2	X	232.23163	14.86242	320.07200	6.55491	0.1313587	0.27039516	2.3684821	21	3 10.0	20.8
283979	2004 RN_{170}	17.5	X	302.92506	247.64352	6.60086	2.73324	0.1673913	0.27298207	2.3534951	21	2 8.5	20.6
283980	2004 RN_{172}	16.9	X	247.82660	141.08745	234.22506	6.05979	0.1284877	0.27852110	2.3221877	21	5 20.7	20.1
283981	2004 RZ_{181}	16.9	X	217.36783	36.65186	331.86846	7.20292	0.1264773	0.27164340	2.3612208	21	4 6.1	20.5
283982	2004 RO_{184}	17.0	X	132.68449	156.03411	311.12306	6.19648	0.0622484	0.27498103	2.3420755	21	5 9.4	20.1
283983	2004 RC_{189}	17.0	X	215.35801	170.23443	230.99012	5.30835	0.1971623	0.27430327	2.3459318	21	5 17.5	20.6
283984	2004 RB_{192}	16.7	X	260.37227	328.53770	337.27149	6.03095	0.1102785	0.26938003	2.3744286	21	3 5.1	20.1
283985	2004 RS_{222}	16.0	X	207.87958	123.65029	298.44142	23.64443	0.2574872	0.27611154	2.3356782	21	6 5.6	20.4
283986	2004 RJ_{224}	17.6	X	284.57846	36.69804	319.35747	1.17996	0.2461967	0.28036313	2.3120051	21	5 21.7	20.6
283987	2004 RK_{237}	18.1	X	281.09208	58.46716	250.09531	1.71101	0.1943799	0.27543123	2.3395227	21	3 21.2	21.4
283988	2004 RY_{310}	17.2	X	180.11355	233.02495	144.76096	2.02112	0.1783173	0.26472912	2.4021580	21	3 18.4	20.8
283989	2004 RR_{323}	16.5	X	238.69797	75.88622	249.83917	6.79466	0.2282874	0.26896974	2.3768427	21	2 27.5	20.6
283990	Randallrosenfeld	17.6	X	235.77597	266.16426	77.64110	2.35324	0.2041696	0.27171212	2.3608227	21	3 24.6	21.5
283991	2004 SL_{30}	16.8	X	252.69102	292.65002	52.99677	1.20897	0.1639017	0.27381614	2.3487134	21	4 13.3	20.3
283992	2004 SS_{31}	14.9	X	23.96385	174.01629	237.20790	1.67342	0.2350760	0.12675810	3.9248123	21	—	—
283993	2004 SG_{44}	17.4	X	205.64559	178.11919	236.17846	5.97692	0.2149937	0.27426486	2.3461509	21	5 25.3	21.4
283994	2004 TT_{33}	17.3	X	316.10412	7.26335	249.55875	1.59860	0.1660660	0.26922693	2.3753287	21	2 27.5	20.1
283995	2004 TC_{34}	17.5	X	193.99643	161.79647	224.44346	1.79034	0.1952501	0.26807041	2.3821556	21	4 9.6	21.3
283996	2004 TJ_{46}	17.3	X	243.04833	298.51746	14.00056	2.38414	0.2189165	0.26673440	2.3901034	21	2 19.8	21.2
283997	2004 TM_{46}	16.5	X	246.64359	40.51962	210.96392	5.82396	0.0215316	0.25351694	2.4724721	21	—	—
283998	2004 TP_{49}	17.4	X	236.56805	155.11935	153.54139	1.65685	0.1830868	0.26443734	2.4039247	21	2 10.3	21.3
283999	2004 TY_{67}	16.7	X	195.68080	272.38950	97.44847	6.91077	0.1777688	0.26616527	2.3935093	21	3 25.5	20.6
284000	2004 TR_{95}	17.8	X	232.18344	90.59349	207.44221	0.63735	0.1806855	0.26267490	2.4146656	21	1 24.9	21.8