Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152001 2004 JH_{18}	16.3	X	25.36922	274.44339	212.01434	6.75827	0.0402082	0.27556120	2.3387870	21	—	—
152002 2004 JE_{19}	15.2	X	57.58199	252.44187	30.52331	8.92241	0.0425536	0.18936721	3.0033056	21	9 26.5	19.3
152003 2004 JV_{21}	16.4	X	131.68866	248.35458	215.67321	3.49446	0.1105536	0.23335620	2.6129022	21	5 15.2	20.2
152004 2004 JX_{26}	16.8	X	313.88852	21.35205	217.69454	2.24983	0.1264243	0.28002845	2.3138468	21	2 4.6	19.8
152005 2004 JJ_{27}	15.5	X	312.10234	274.45300	38.50531	4.96562	0.2576315	0.23004744	2.6378966	21	5 1.1	18.6
152006 2004 JX_{30}	16.3	X	54.14527	120.12469	97.03029	3.63618	0.0981301	0.29295121	2.2452904	21	7 2.1	18.5
152007 2004 JR_{32}	15.9	X	307.93542	179.60250	148.10367	4.83909	0.2113210	0.23353228	2.6115886	21	5 24.5	19.1
152008 2004 JS_{32}	16.6	X	60.53645	325.44236	196.73023	5.86174	0.0303518	0.28668594	2.2778850	21	4 10.3	19.0
152009 2004 JW_{32}	16.5	X	27.80726	286.33323	204.36691	6.54304	0.0573219	0.27644434	2.3338033	21	1 5.6	19.3
152010 2004 JC_{33}	16.0	X	300.56757	179.51160	166.97130	5.92245	0.1094161	0.23629429	2.5911978	21	6 24.3	19.3
152011 2004 JM_{34}	16.0	X	321.36404	173.59632	140.27013	5.34945	0.1656843	0.23259248	2.6186187	21	6 3.6	19.0
152012 2004 JG_{35}	16.0	X	155.31673	203.06748	91.26266	9.69162	0.2414267	0.25965890	2.4333275	21	—	—
152013 2004 JG_{36}	16.4	X	44.67923	160.85072	139.35334	6.30140	0.1813423	0.24567435	2.5248147	21	10 30.0	19.6
152014 2004 JR_{42}	15.4	X	36.79962	220.50826	102.21382	4.12640	0.1023308	0.19088885	2.9873240	21	10 26.9	19.3
152015 2004 JH_{43}	16.5	X	351.07889	123.81037	97.57120	5.16205	0.1700673	0.28344054	2.2952398	21	3 4.6	18.7
152016 2004 JP_{51}	16.4	X	209.03498	159.81078	120.93463	7.04544	0.0967668	0.27057073	2.3674574	21	—	—
152017 2004 KR_{6}	16.1	X	184.06495	194.21227	147.44448	5.47818	0.1233242	0.21622230	2.7491750	21	2 8.4	20.3
152018 2004 KJ_{9}	17.0	X	323.49016	199.94389	28.47006	3.86970	0.1231543	0.28033415	2.3121644	21	2 6.1	19.7
152019 2004 KO_{10}	15.2	X	48.50731	120.43366	92.24807	28.98250	0.2848025	0.23112834	2.6296660	21	7 16.9	18.2
152020 2004 KS_{13}	16.3	X	282.50277	198.45661	145.87493	9.95685	0.1068602	0.29241880	2.2480149	21	5 26.3	19.2
152021 2004 LH_{2}	16.2	X	6.48736	348.07362	333.28398	1.36882	0.1637695	0.23996843	2.5646807	21	9 18.1	18.6
152022 2004 LF_{23}	16.1	X	188.98203	322.71361	330.52173	4.86674	0.1419647	0.26300442	2.4126483	21	—	—
152023 2004 MC_{4}	15.4	X	22.05500	164.37558	148.57619	14.09012	0.2467376	0.23991457	2.5650645	21	10 24.8	18.4
152024 2004 MZ_{6}	15.3	X	338.32206	252.99727	134.52135	10.47555	0.0872606	0.18418911	3.0593330	21	10 22.8	19.3
152025 2004 NP	16.2	X	123.74317	164.40993	62.41936	4.42273	0.0939508	0.24377652	2.5379017	21	10 15.3	19.8
152026 2004 NO_{5}	16.6	X	221.45239	228.86329	12.08775	3.13880	0.1459568	0.26086388	2.4258284	21	—	—
152027 2004 ND_{8}	16.4	X	229.06766	114.36070	150.75759	2.79549	0.2009619	0.26461072	2.4028746	21	—	—
152028 2004 NB_{21}	15.4	X	222.27039	170.03955	147.44849	10.17743	0.1695746	0.21218856	2.7839071	21	2 15.3	19.8
152029 2004 ND_{21}	15.9	X	270.17675	139.54233	171.33818	5.33615	0.1076504	0.21889909	2.7267171	21	3 30.4	19.7
152030 2004 NT_{21}	16.2	X	217.59762	336.47959	285.78726	2.50352	0.2062024	0.26187075	2.4196064	21	—	—
152031 2004 NL_{23}	16.3	X	105.89582	76.67242	180.90780	4.02831	0.1765433	0.24486157	2.5303987	21	11 9.8	20.3
152032 2004 NW_{23}	15.7	X	106.19436	322.12727	292.92523	12.61222	0.1525700	0.24182540	2.5515345	21	10 30.2	19.9
152033 2004 NF_{26}	16.0	X	240.38057	132.65724	164.20128	4.35101	0.1898736	0.21241710	2.7819099	21	2 5.2	20.5
152034 2004 NH_{27}	16.2	X	243.05369	210.78654	147.34921	6.55910	0.0608720	0.22231030	2.6987521	21	5 5.0	20.1
152035 2004 NQ_{29}	16.2	X	309.81815	303.21394	245.89172	5.55067	0.2406246	0.26776018	2.3839953	21	—	—
152036 2004 OR_{2}	15.8	X	224.58283	102.29148	223.13422	4.18749	0.0275274	0.21372810	2.7705222	21	3 1.5	19.7
152037 2004 OQ_{11}	14.5	X	350.53139	186.36374	115.77113	26.84243	0.1305362	0.17081537	3.2170027	21	7 14.5	18.4
152038 2004 OW_{12}	16.6	X	163.65205	140.98728	132.67818	2.05268	0.1624926	0.25489546	2.4635496	21	—	—
152039 2004 PR_{7}	15.2	X	9.33110	192.55419	147.90836	17.95695	0.1962039	0.17771388	3.1332026	21	10 20.2	19.0
152040 2004 PA_{10}	15.2	X	341.70207	90.65368	312.97878	9.82037	0.0759019	0.18410101	3.0603089	21	11 9.3	19.3
152041 2004 PA_{13}	16.4	X	206.06774	30.88544	237.21839	1.55680	0.1394672	0.25974090	2.4328154	21	—	—
152042 2004 PP_{14}	15.1	X	37.55064	274.52299	139.77377	11.44907	0.0665487	0.19306006	2.9648843	21	—	—
152043 2004 PP_{20}	14.7	X	351.16691	52.39086	309.64968	12.68485	0.0551948	0.17877343	3.1208105	21	9 26.7	19.0
152044 2004 PS_{21}	15.3	X	6.11609	54.20557	319.61751	10.42965	0.0894299	0.18381994	3.0634277	21	11 7.9	19.4
152045 2004 PS_{23}	15.4	X	92.17332	256.24920	112.99215	2.75914	0.1507925	0.19580945	2.9370654	21	—	—
152046 2004 PB_{30}	15.6	X	306.56924	119.38648	153.95973	9.57351	0.1383080	0.21594729	2.7515086	21	3 24.2	19.3
152047 2004 PJ_{31}	16.2	X	156.64534	154.35212	172.70235	0.71976	0.1225946	0.20037473	2.8922828	21	—	—
152048 2004 PB_{37}	15.8	X	148.54113	184.59422	174.53939	1.99383	0.0832688	0.20352059	2.8624010	21	1 22.4	20.0
152049 2004 PT_{38}	15.5	X	209.56848	9.08903	345.42180	6.87481	0.1007212	0.21152246	2.7897486	21	3 20.0	19.7
152050 2004 PB_{39}	15.2	X	339.75262	256.16128	94.07908	2.33546	0.1758952	0.17231669	3.1982899	21	8 28.8	18.6
152051 2004 PH_{39}	15.5	X	49.70876	290.01022	306.12411	5.48988	0.1085114	0.22716205	2.6601872	21	7 24.2	18.8
152052 2004 PC_{40}	15.3	X	306.55078	114.72551	164.54392	15.82151	0.1133428	0.21656780	2.7462503	21	4 5.5	19.0
152053 2004 PN_{44}	15.6	X	121.10358	249.89685	303.84641	13.05022	0.1133759	0.23476259	2.6024564	21	8 25.5	19.5
152054 2004 PR_{50}	15.6	X	67.56922	292.74431	69.45877	2.98226	0.0587692	0.19226414	2.9730612	21	—	—
152055 2004 PN_{54}	16.4	X	123.57524	342.71971	291.66330	3.35389	0.1333871	0.24659783	2.5185073	21	12 13.6	20.2
152056 2004 PD_{69}	15.9	X	15.40739	303.98818	67.18027	2.32651	0.2313373	0.18153336	3.0890985	21	12 9.9	19.5
152057 2004 PX_{71}	15.2	X	16.30370	216.90386	327.08115	14.17796	0.1478885	0.21604109	2.7507122	21	3 9.0	18.2
152058 2004 PZ_{71}	16.1	X	285.30392	321.21807	8.86469	1.13582	0.0784865	0.22277624	2.6949878	21	5 15.9	19.8
152059 2004 PB_{75}	16.0	X	326.93534	178.50637	117.57256	5.35010	0.0633534	0.22389547	2.6859990	21	6 1.8	19.4
152060 2004 PK_{76}	15.2	X	265.40432	285.87428	133.84170	11.72184	0.0580271	0.17399916	3.1776394	21	8 20.3	19.6
152061 2004 PM_{77}	14.9	X	15.63064	51.12451	297.76673	10.53823	0.0885051	0.18131479	3.0915806	21	10 19.6	19.1
152062 2004 PQ_{79}	16.0	X	95.76100	329.18393	268.37725	4.62562	0.2460821	0.23857989	2.5746221	21	10 8.9	20.2
152063 2004 PH_{90}	15.4	X	245.01723	161.59096	177.66727	10.20372	0.3423438	0.21317704	2.7752946	21	3 23.2	20.5
152064 2004 PL_{94}	15.8	X	289.14701	146.23640	159.42893	13.53873	0.1889816	0.21787117	2.7352868	21	4 6.5	19.8
152065 2004 PC_{96}	15.8	X	75.87971	205.82551	193.77611	1.69249	0.0816309	0.19694934	2.9257218	21	—	—
152066 2004 PT_{108}	16.3	X	96.87843	287.13769	335.65399	2.28520	0.2001041	0.24062886	2.5599859	21	11 7.4	20.3
152067 Deboy	16.1	X	209.26317	264.24284	44.78118	2.35599	0.1121724	0.20507953	2.8478766	21	1 26.9	20.5
152068 2004 QG_{11}	14.9	X	251.86106	96.12708	80.61793	8.61074	0.0474436	0.19100263	2.9861377	21	12 28.9	19.0
152069 2004 QV_{21}	15.6	X	136.57852	9.70033	262.81001	3.91868	0.1650950	0.18999851	2.9966493	21	12 15.6	20.5
152070 2004 RV_{5}	15.3	X	142.00432	37.59261	141.10686	22.65756	0.0887194	0.23091300	2.6313006	21	9 2.1	19.3
152071 2004 RW_{7}	16.7	X	5.38449	348.59816	280.67340	3.14584	0.1281013	0.22712717	2.6604595	21	6 24.9	19.5
152072 2004 RF_{9}	16.0	X	23.34703	97.21394	151.92622	14.01275	0.1297383	0.22541541	2.6739112	21	6 29.9	19.2
152073 2004 RH_{12}	15.0	X	121.08429	30.04611	231.06365	6.80645	0.0439768	0.18391380	3.0623853	21	11 11.1	19.5
152074 2004 RC_{14}	15.6	X	26.90212	172.70204	162.55357	10.46318	0.0981806	0.17941155	3.1134062	21	10 27.6	19.7
152075 2004 RL_{14}	15.4	X	4.34366	35.59454	167.14745	12.29778	0.1030354	0.21430104	2.7655820	21	3 22.0	18.5
152076 2004 RD_{16}	16.0	X	247.88640	135.90682	184.22169	4.12409	0.0629055	0.21272234	2.7792481	21	3 21.3	20.0
152077 2004 RA_{17}	16.0	X	38.73177	62.02153	189.68520	2.89688	0.0465328	0.22626102	2.6672449	21	7 19.7	19.3
152078 2004 RW_{19}	15.0	X	278.48824	122.44916	50.80991	10.14218	0.0201859	0.19306170	2.9648675	21	—	—
152079 2004 RS_{21}	16.0	X	323.41102	103.73509	170.83553	3.52455	0.1132357	0.21853661	2.7297314	21	4 21.4	19.3
152080 2004 RV_{21}	15.0	X	174.04999	318.79551	170.70892	6.73605	0.0605357	0.16694361	3.2665515	21	7 30.2	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152081 2004 RD_{27}	15.8	X	46.83711	229.73190	113.14669	3.87360	0.1022241	0.18314923	3.0709022	21	12 1.5	20.1
152082 2004 RR_{29}	16.4	X	207.20629	102.29088	146.30489	7.91936	0.1592030	0.25688151	2.4508354	21	—	—
152083 2004 RH_{30}	15.8	X	253.51866	300.44336	13.88732	4.76249	0.0649340	0.21371429	2.7706415	21	3 20.9	19.7
152084 2004 RR_{33}	15.2	X	96.68874	137.48813	138.81512	11.89776	0.1010804	0.18224780	3.0810200	21	11 11.8	20.0
152085 2004 RE_{34}	14.9	X	132.95930	72.44964	146.06213	10.66866	0.0464647	0.17753621	3.1352927	21	10 6.7	19.6
152086 2004 RT_{34}	15.3	X	89.14638	208.53522	97.97072	4.54891	0.0811028	0.18470727	3.0536088	21	12 4.2	19.7
152087 2004 RJ_{37}	15.1	X	129.66740	240.32743	16.00197	7.24634	0.0627588	0.18450598	3.0558293	21	11 14.4	19.7
152088 2004 RB_{39}	16.0	X	306.75223	99.78521	15.81144	1.28331	0.0540512	0.18794231	3.0184663	21	12 24.3	19.8
152089 2004 RW_{43}	15.5	X	38.18888	72.64887	232.33881	1.17491	0.1182150	0.17685819	3.1433007	21	10 4.3	19.4
152090 2004 RR_{49}	15.5	X	272.88929	328.64788	357.91560	3.83914	0.2190214	0.21791897	2.7348868	21	4 7.7	19.6
152091 2004 RD_{50}	16.2	X	192.74684	350.63888	356.98842	0.76857	0.0963630	0.20674175	2.8325913	21	2 24.6	20.6
152092 2004 RB_{63}	15.9	X	221.65118	69.38481	245.45016	1.08894	0.0798124	0.20635553	2.8361246	21	2 13.9	20.3
152093 2004 RX_{63}	15.7	X	103.94907	210.08901	172.05169	2.00944	0.1213456	0.19627400	2.9324292	21	1 4.2	19.7
152094 2004 RO_{71}	13.9	X	1.23855	277.03611	151.74538	9.62786	0.2309840	0.12551022	3.9507844	21	—	—
152095 2004 RP_{72}	14.7	X	187.19336	337.10960	184.67648	9.45465	0.0329053	0.17424359	3.1746670	21	9 24.9	19.2
152096 2004 RT_{74}	15.6	X	188.59157	163.97262	146.79005	6.86623	0.1687947	0.20023259	2.8936514	21	1 11.5	20.4
152097 2004 RB_{90}	15.1	X	114.03657	358.68951	313.11293	8.01359	0.0651427	0.19064914	2.9898276	21	—	—
152098 2004 RZ_{91}	15.3	X	343.98769	129.23311	256.91771	7.56251	0.0734567	0.17983998	3.1084595	21	10 21.9	19.5
152099 2004 RT_{92}	15.3	X	69.89152	22.22942	288.60521	8.85279	0.0503852	0.18296154	3.0730020	21	11 10.6	19.8
152100 2004 RD_{101}	14.6	X	346.31317	121.28777	223.22885	3.82820	0.1994776	0.17237395	3.1975816	21	8 30.7	18.0
152101 2004 RU_{101}	16.0	X	60.83760	354.30644	273.38924	2.13499	0.2114214	0.23413926	2.6070732	21	10 7.2	19.5
152102 2004 RD_{107}	15.2	X	279.08089	107.02267	323.65188	3.69806	0.1451655	0.17384180	3.1795568	21	9 6.5	19.5
152103 2004 RN_{109}	15.3	X	54.10612	177.43202	156.73689	3.30960	0.1008479	0.18073784	3.0981563	21	11 29.4	19.6
152104 2004 RX_{120}	15.1	X	174.64964	353.71122	158.86610	17.87703	0.1349838	0.17166704	3.2063538	21	8 28.9	20.2
152105 2004 RM_{121}	15.8	X	354.83329	10.50931	30.59155	2.22846	0.1000561	0.18259410	3.0771232	21	11 29.8	19.7
152106 2004 RJ_{146}	15.5	X	3.75871	229.88814	353.47196	7.84988	0.1122896	0.21652452	2.7466163	21	4 13.8	18.7
152107 2004 RF_{149}	16.5	X	282.30544	224.65110	68.67359	2.21031	0.2264090	0.27281109	2.3544784	21	3 1.7	20.0
152108 2004 RK_{153}	15.1	X	320.27473	279.32899	220.81242	9.08524	0.0257107	0.19348193	2.9605731	21	—	—
152109 2004 RE_{154}	15.2	X	307.95723	172.00353	332.30930	10.71667	0.0629196	0.19226553	2.9730469	21	—	—
152110 2004 RS_{170}	15.0	X	28.59215	32.93379	352.17134	9.06792	0.0706092	0.18296037	3.0730151	21	12 24.9	19.3
152111 2004 RA_{182}	14.0	X	204.18612	65.89740	343.91965	16.83754	0.1219805	0.15729089	3.3988631	21	5 20.0	19.7
152112 2004 RJ_{192}	14.7	X	109.81937	355.28427	296.22836	9.71612	0.1352378	0.18276851	3.0751654	21	12 11.5	19.7
152113 2004 RG_{207}	14.1	X	203.34888	123.57878	268.42443	17.68163	0.1045491	0.15696260	3.4036007	21	4 30.2	19.6
152114 2004 RV_{209}	15.0	X	150.98588	91.47046	235.97368	10.91332	0.0918085	0.19764947	2.9188086	21	—	—
152115 2004 RB_{210}	14.8	X	74.48982	9.12865	265.99281	10.85207	0.0281954	0.17625843	3.1504273	21	9 26.2	19.5
152116 2004 RU_{224}	15.8	X	51.02366	238.38038	51.30328	1.65171	0.1362284	0.17861646	3.1226386	21	10 6.4	19.9
152117 2004 RK_{242}	15.9	X	69.59780	166.53815	120.60720	1.00952	0.1713090	0.17926361	3.1151189	21	10 30.9	20.4
152118 2004 RZ_{253}	15.0	X	115.37845	250.42750	82.16701	11.73823	0.1045525	0.19168497	2.9790470	21	—	—
152119 2004 RN_{255}	15.0	X	182.67382	189.30042	82.61120	13.18987	0.0276669	0.19100108	2.9861538	21	—	—
152120 2004 RL_{276}	16.5	X	106.73755	279.86996	327.00959	2.28621	0.1486158	0.23972231	2.5664359	21	10 23.8	20.3
152121 2004 RA_{315}	15.6	X	48.10383	225.99955	72.58370	2.15413	0.1458871	0.17612275	3.1520450	21	10 15.1	19.7
152122 2004 RT_{318}	14.2	X	330.19404	231.74452	215.79376	8.09908	0.2249640	0.12430839	3.9762080	21	12 2.3	18.5
152123 2004 SU_{13}	15.8	X	228.00628	138.24204	146.07523	8.90837	0.0947301	0.20305451	2.8667795	21	1 15.1	20.4
152124 2004 SX_{20}	14.7	X	34.47992	189.56442	151.40312	32.30559	0.1982741	0.17838660	3.1253205	21	12 2.5	19.5
152125 2004 SR_{33}	15.3	X	47.38501	178.27444	147.51498	5.63688	0.2681453	0.17816776	3.1278792	21	12 4.3	19.7
152126 2004 SU_{56}	15.3	X	260.59901	90.38642	172.26864	14.83409	0.1251191	0.20477084	2.8507380	21	1 18.3	19.9
152127 2004 TL_{25}	15.2	X	273.52292	239.62356	359.34564	6.97044	0.2652902	0.20351306	2.8624717	21	—	—
152128 2004 TF_{58}	15.6	X	34.38769	90.90081	290.83875	0.50660	0.0394078	0.18336555	3.0684865	21	12 23.8	19.7
152129 2004 TL_{99}	15.6	X	159.91936	167.12913	92.72088	1.98656	0.1617830	0.18504988	3.0498385	21	12 19.9	20.7
152130 2004 TZ_{116}	15.3	X	357.18617	291.55605	269.20369	11.18698	0.1189670	0.21146364	2.7902658	21	2 27.1	18.8
152131 2004 TW_{117}	15.0	X	65.59721	147.63827	172.91601	5.65367	0.1364866	0.17815906	3.1279811	21	12 1.2	19.6
152132 2004 TG_{123}	13.8	X	359.21720	274.33386	165.79086	9.39931	0.1087110	0.12518878	3.9575443	21	—	—
152133 2004 TN_{126}	14.0	X	347.86580	6.96056	68.31634	7.16593	0.0680902	0.12539038	3.9533012	21	12 16.9	19.2
152134 2004 TR_{129}	14.9	X	60.37767	242.52535	44.85253	9.52785	0.0704232	0.17467646	3.1694200	21	10 8.3	19.3
152135 2004 TC_{145}	14.8	X	14.01001	302.07693	35.81791	3.32876	0.0876498	0.17020690	3.2246650	21	10 7.4	18.9
152136 2004 TW_{192}	15.7	X	92.64173	121.62074	146.91084	2.30875	0.0867723	0.17572018	3.1568573	21	10 23.7	20.2
152137 2004 TE_{298}	14.6	X	5.24214	84.02443	252.55577	12.15978	0.0244336	0.17045644	3.2215171	21	9 12.5	19.4
152138 2004 TU_{334}	15.6	X	321.54019	252.92569	154.41274	1.89257	0.0502524	0.17815727	3.1280019	21	10 19.9	19.7
152139 2004 TA_{364}	15.5	X	99.84022	263.40804	103.28076	3.51633	0.0102877	0.19506411	2.9445424	21	—	—
152140 2004 UO_{2}	14.8	X	113.53866	220.12166	62.26378	12.15605	0.2125322	0.18406243	3.0607365	21	12 8.5	20.0
152141 2004 VZ_{61}	14.2	X	346.66714	298.62009	64.21958	23.47014	0.0865075	0.17008999	3.2261424	21	10 10.9	18.7
152142 2005 JT	16.6	X	233.53869	121.28561	124.92950	4.63884	0.2526663	0.22466298	2.6798781	21	—	—
152143 2005 JK_{3}	17.2	X	131.65126	50.73079	171.85059	1.17433	0.1390635	0.26619316	2.3933421	21	10 21.4	20.9
152144 2005 JZ_{17}	16.6	X	3.37366	321.78721	42.94090	4.98504	0.1149619	0.26724472	2.3870598	21	11 15.2	18.9
152145 2005 JW_{112}	14.5	X	305.10392	111.49877	208.47546	15.83762	0.2716348	0.24147324	2.5540146	21	4 28.1	17.6
152146 Rosenlappin	17.0	X	178.91830	291.87381	58.44922	0.30097	0.2278847	0.28208252	2.3026005	21	2 11.9	20.7
152147 2005 LD_{16}	16.4	X	118.96658	209.67741	120.82269	9.43499	0.0367147	0.27317336	2.3523963	21	—	—
152148 2005 MH_{1}	16.5	X	56.31550	124.72541	315.23063	6.04403	0.0807252	0.27454964	2.3445282	21	—	—
152149 2005 MN_{21}	16.8	X	11.82301	114.78229	271.53335	0.48712	0.1964235	0.25882946	2.4385233	21	—	—
152150 2005 MS_{33}	17.3	X	191.16665	213.62923	152.65352	2.94055	0.1782519	0.28832502	2.2692438	21	3 11.5	20.8
152151 2005 MC_{36}	16.3	X	73.16382	323.54401	21.91153	1.62128	0.1966378	0.26438359	2.4042505	21	—	—
152152 2005 MY_{37}	16.1	X	174.07850	254.66827	131.38956	12.21489	0.2027116	0.22494855	2.6776095	21	3 31.9	20.7
152153 2005 MD_{39}	16.6	X	275.46374	29.27021	128.43167	6.44008	0.0350689	0.26831526	2.3807062	21	—	—
152154 2005 MU_{44}	15.8	X	282.20112	21.31474	259.06321	8.69772	0.0910168	0.22929774	2.6436433	21	3 1.1	19.7
152155 2005 MQ_{47}	16.9	X	84.52884	283.39991	145.86757	5.83186	0.1434545	0.28131034	2.3068123	21	1 17.7	18.9
152156 2005 MV_{50}	15.7	X	240.85164	270.06715	119.79988	7.21795	0.2436289	0.17427909	3.1742358	21	5 27.8	21.0
152157 2005 NF_{11}	16.1	X	95.09560	350.12384	269.77886	3.90041	0.0909544	0.25806630	2.4433285	21	10 24.1	19.4
152158 2005 NY_{13}	16.4	X	203.27612	75.97134	319.68621	13.57343	0.2015460	0.22814179	2.6525657	21	4 25.8	21.2
152159 2005 NE_{56}	16.2	X	312.76361	321.97426	36.50142	4.50231	0.1926376	0.24575109	2.5242890	21	7 20.8	18.8
152160 2005 NX_{68}	16.0	X	178.92372	50.24016	291.96000	7.09523	0.1979201	0.27872187	2.3210724	21	1 30.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152161 2005 NH_{96}	15.8	X	296.42877	301.52130	73.88197	0.75054	0.1851400	0.18375118	3.0641918	21	7 16.0	19.6
152162 2005 NQ_{96}	16.7	X	288.75695	8.13444	296.57585	7.64082	0.2050048	0.29553127	2.2322033	21	3 17.6	19.8
152163 2005 NO_{97}	16.3	X	30.43729	186.62228	197.64167	4.77537	0.1488449	0.25999659	2.4312201	21	—	—
152164 2005 NV_{100}	16.3	X	108.71787	134.02057	234.05102	6.65984	0.1468318	0.27114827	2.3640944	21	—	—
152165 2005 OF	16.1	X	158.28704	36.70281	307.62469	5.85699	0.2055577	0.27422242	2.3463929	21	1 16.1	19.3
152166 2005 OY_{3}	15.6	X	296.46061	237.37880	103.67331	6.20441	0.1646846	0.17881509	3.1203258	21	6 4.6	19.9
152167 2005 OA_{4}	16.3	X	4.94663	341.24378	66.44338	7.38879	0.1416980	0.26066887	2.4270382	21	—	—
152168 2005 OL_{4}	16.1	X	291.43130	312.29996	80.60525	6.02182	0.1995405	0.24428845	2.5343549	21	8 2.6	19.1
152169 2005 OK_{5}	16.9	X	349.96534	165.50574	239.26532	1.61723	0.1619276	0.25745058	2.4472226	21	12 23.0	19.0
152170 2005 OM_{12}	16.8	X	165.98192	9.15424	16.63111	3.42931	0.1688219	0.28337996	2.2955669	21	3 12.9	20.2
152171 2005 OE_{14}	15.5	X	176.86091	40.44285	336.34422	12.30475	0.1185458	0.22148971	2.7054137	21	3 12.7	19.7
152172 2005 OO_{14}	16.2	X	126.27162	219.28712	139.83860	4.16478	0.2186275	0.27161574	2.3613812	21	—	—
152173 2005 OH_{21}	17.1	X	231.92275	287.69952	118.05362	6.06619	0.1432426	0.29896090	2.2150989	21	6 11.9	20.3
152174 2005 OW_{22}	16.8	X	24.52723	101.70863	285.44477	0.43415	0.1819669	0.25995150	2.4315013	21	—	—
152175 2005 OL_{26}	15.9	X	96.17449	219.31565	163.04909	11.79190	0.1947287	0.27210234	2.3585651	21	—	—
152176 2005 PO_{3}	15.8	X	216.42929	224.84990	48.10524	12.94186	0.1504150	0.21791867	2.7348893	21	—	—
152177 2005 PD_{15}	16.5	X	236.33698	41.35079	26.36763	4.92945	0.2388567	0.23862462	2.5743004	21	7 8.2	20.7
152178 2005 QB_{4}	17.0	X	85.45946	46.30736	310.65883	1.71268	0.1966666	0.26517361	2.3994729	21	—	—
152179 2005 QJ_{4}	16.6	X	110.27877	27.90852	345.00365	1.87801	0.2255801	0.27081213	2.3660503	21	—	—
152180 2005 QP_{8}	15.2	X	281.69167	159.89574	178.91218	4.53060	0.1539335	0.17298204	3.1900835	21	5 16.1	19.7
152181 2005 QU_{8}	17.3	X	330.69100	27.56502	326.95041	1.88834	0.1215343	0.30754670	2.1736786	21	9 2.9	19.0
152182 2005 QZ_{8}	16.3	X	65.19810	221.21282	152.21783	4.75993	0.1456042	0.26363023	2.4088286	21	—	—
152183 2005 QK_{9}	16.7	X	353.57563	285.70267	135.80054	2.64033	0.1776366	0.25707436	2.4496096	21	—	—
152184 2005 QV_{11}	16.9	X	154.22344	38.60951	341.80991	7.15958	0.2182141	0.28130234	2.3068560	21	2 26.6	20.2
152185 2005 QY_{16}	17.0	X	2.26975	269.58696	24.24058	2.02491	0.1121553	0.30370397	2.1919757	21	7 29.9	18.6
152186 2005 QC_{27}	16.5	X	276.16498	136.38927	96.12030	4.14568	0.0270071	0.27549962	2.3391355	21	—	—
152187 2005 QY_{32}	16.3	X	40.44666	189.54423	196.54511	2.08907	0.1696916	0.26324064	2.4112047	21	—	—
152188 Morricone	15.7	X	247.40838	28.75431	30.38546	14.79439	0.1806665	0.24088749	2.5581532	21	7 16.4	19.8
152189 2005 QX_{55}	16.9	X	94.12877	22.49746	22.81871	1.58351	0.1826891	0.27182183	2.3601874	21	1 9.7	19.0
152190 2005 QZ_{56}	15.9	X	184.17003	197.60715	178.08470	5.61541	0.2575042	0.22088623	2.7103390	21	3 25.5	20.7
152191 2005 QP_{59}	16.4	X	94.68144	99.36069	258.61227	1.10133	0.2468488	0.26591285	2.3950238	21	—	—
152192 2005 QL_{60}	15.9	X	153.25256	56.02365	328.15855	13.41950	0.2137651	0.21784314	2.7355214	21	3 6.0	20.5
152193 2005 QQ_{63}	16.6	X	345.15262	108.21264	354.80117	7.34373	0.0838123	0.26560580	2.3968693	21	—	—
152194 2005 QZ_{64}	15.7	X	256.23056	245.87592	138.97949	5.95122	0.2016887	0.17231250	3.1983417	21	6 8.0	20.7
152195 2005 QV_{79}	15.9	X	176.58614	59.16382	293.65779	8.01506	0.1946993	0.21880947	2.7274616	21	2 16.1	20.4
152196 2005 QK_{85}	15.6	X	138.08056	13.22981	353.86139	13.76361	0.2011379	0.21146648	2.7902409	21	2 6.5	20.0
152197 2005 QY_{85}	15.2	X	172.35843	24.98919	339.05753	11.73280	0.1653721	0.21635170	2.7480787	21	2 26.8	19.5
152198 2005 QN_{100}	16.1	X	115.61794	108.79473	313.27632	8.75218	0.1200423	0.21775843	2.7362308	21	3 2.8	19.9
152199 2005 QG_{104}	16.8	X	159.41965	283.27734	187.11383	4.69821	0.1898185	0.23247384	2.6195096	21	6 26.1	21.1
152200 2005 QD_{112}	17.2	X	101.84346	31.86001	344.68316	1.93161	0.1300223	0.27016620	2.3698201	21	—	—
152201 2005 QA_{142}	16.3	X	111.12023	60.31561	285.27084	2.88572	0.1120171	0.26624736	2.3930173	21	—	—
152202 2005 QE_{143}	15.7	X	60.20645	193.40503	211.96119	12.54540	0.2534233	0.20335087	2.8639935	21	—	—
152203 2005 QD_{153}	16.7	X	269.90461	13.80549	325.49509	2.10109	0.1910061	0.29232013	2.2485207	21	4 17.5	19.7
152204 2005 QQ_{154}	16.2	X	223.40054	55.79434	302.93453	13.38807	0.1768332	0.22767478	2.6561918	21	3 28.4	20.8
152205 2005 QP_{155}	16.1	X	134.66321	318.27683	43.67137	2.99986	0.2239501	0.27139311	2.3626724	21	1 16.3	19.1
152206 2005 QW_{168}	14.9	X	65.12464	350.38894	271.64112	10.45932	0.0459876	0.18231001	3.0803190	21	9 1.1	19.4
152207 2005 QX_{168}	16.0	X	82.41375	170.57418	247.72479	7.34837	0.1747235	0.20932705	2.8092204	21	1 22.0	19.4
152208 2005 QS_{171}	15.6	X	301.53645	82.32620	293.56391	4.16380	0.1773674	0.17833206	3.1259577	21	7 25.2	19.3
152209 2005 QF_{173}	16.8	X	185.17154	68.31898	250.82114	1.88242	0.1691935	0.27602766	2.3361514	21	1 6.8	20.1
152210 2005 QH_{174}	16.5	X	180.99632	45.27387	294.64176	6.15029	0.1372068	0.27939355	2.3173509	21	1 25.4	20.0
152211 2005 QH_{176}	16.1	X	47.80679	92.00966	3.31891	6.60062	0.0782289	0.27219332	2.3580395	21	—	—
152212 2005 RG	16.4	X	159.51547	220.66913	121.14620	7.14627	0.1480812	0.27593932	2.3366500	21	1 7.0	19.5
152213 2005 RS_{5}	16.5	X	252.63243	8.70828	329.57465	2.33994	0.2241886	0.22908937	2.6452462	21	4 1.7	20.8
152214 2005 RJ_{9}	15.8	X	19.85419	336.13141	45.49981	11.42068	0.2329369	0.25657068	2.4528145	21	—	—
152215 2005 RA_{10}	15.8	X	35.56715	71.57770	318.89560	11.39306	0.2130210	0.19456307	2.9495954	21	—	—
152216 2005 RH_{21}	16.7	X	195.59141	110.25314	24.54893	6.08092	0.1257508	0.24210993	2.5495350	21	9 3.1	20.6
152217 Akosipov	16.2	X	143.13429	11.12029	328.22994	5.64243	0.1684176	0.27072022	2.3665858	21	—	—
152218 2005 RQ_{23}	15.1	X	337.02075	67.19708	317.80030	11.33762	0.1208574	0.18276358	3.0752207	21	10 5.9	19.0
152219 2005 RX_{23}	16.1	X	205.75701	356.49510	330.48604	6.85395	0.1400942	0.27887843	2.3202036	21	2 4.1	19.7
152220 2005 RC_{25}	15.3	X	150.57952	186.11045	216.30579	11.81839	0.1422688	0.21820536	2.7324933	21	3 19.5	19.6
152221 2005 RV_{27}	16.1	X	208.23269	49.55630	311.06091	7.30270	0.1432342	0.28349413	2.2949506	21	3 16.4	19.8
152222 2005 RS_{28}	15.2	X	257.35876	92.95418	324.76483	24.36383	0.3060618	0.17437542	3.1730667	21	7 13.4	20.6
152223 2005 RF_{33}	15.7	X	354.58417	208.66830	135.90234	12.06663	0.2931074	0.18338190	3.0683041	21	10 1.7	18.4
152224 2005 SJ	15.4	X	129.10442	244.76743	122.26106	14.08590	0.2154806	0.21159006	2.7891543	21	1 25.7	19.6
152225 2005 ST_{2}	15.4	X	280.33637	256.14370	178.35268	8.63119	0.1953503	0.18081234	3.0973052	21	9 5.8	19.5
152226 Saracole	15.0	X	291.67687	13.45361	11.56131	5.20448	0.1695137	0.17667655	3.1454547	21	7 25.6	19.2
152227 Argoli	16.5	X	81.57940	226.60602	302.07899	5.54390	0.1205372	0.22778256	2.6553539	21	6 8.7	19.9
152228 2005 SK_{9}	15.5	X	89.25696	232.98694	223.27710	7.53976	0.1620723	0.21465199	2.7625667	21	3 19.3	19.1
152229 2005 SU_{12}	17.0	X	285.78635	189.72404	5.27176	1.27110	0.0876255	0.27034380	2.3687820	21	—	—
152230 2005 SU_{13}	16.3	X	168.65534	211.07331	170.79095	2.78544	0.0850290	0.21815251	2.7329346	21	3 11.3	20.3
152231 2005 SF_{15}	16.5	X	82.14961	188.59003	275.25280	2.10170	0.0589764	0.21724992	2.7404989	21	3 5.2	20.1
152232 2005 SV_{17}	15.9	X	264.45861	227.22114	162.68372	0.50655	0.1685521	0.17313757	3.1881727	21	6 26.1	20.4
152233 Van Till	15.9	X	286.65460	243.46604	165.02380	0.75738	0.2024497	0.17646185	3.1480056	21	8 11.4	20.1
152234 2005 SU_{22}	16.3	X	108.70333	343.05885	50.07246	4.20486	0.0975740	0.21032577	2.8003204	21	1 18.6	20.0
152235 2005 SK_{28}	16.1	X	187.36666	54.77530	340.96924	6.75451	0.0797099	0.22340135	2.6899581	21	4 14.4	20.3
152236 2005 SQ_{43}	16.8	X	325.22793	201.79554	349.07275	4.55809	0.1280129	0.27361543	2.3498618	21	—	—
152237 2005 SA_{51}	15.1	X	255.23941	90.56684	22.81118	9.71615	0.0383031	0.18454273	3.0554235	21	10 16.8	19.3
152238 2005 SZ_{63}	17.0	X	39.78491	289.93828	193.28163	1.19375	0.0694083	0.27454996	2.3445264	21	1 14.9	19.6
152239 2005 SJ_{68}	15.9	X	90.24308	264.10807	202.21315	11.43074	0.1551232	0.21645594	2.7471964	21	4 3.5	19.5
152240 2005 SR_{69}	14.8	X	262.64589	349.87842	80.74848	18.49448	0.2078966	0.17585743	3.1552145	21	8 13.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152241 2005 SR_{70}	15.5	X	32.04385	332.55343	68.20637	11.58573	0.0777372	0.19650218	2.9301587	21	—	—
152242 2005 SX_{70}	16.4	X	196.66550	336.83100	94.78415	4.65586	0.0672600	0.23241081	2.6199832	21	6 12.9	20.2
152243 2005 SS_{76}	16.8	X	11.47288	357.52919	180.62194	5.98388	0.0443784	0.28150605	2.3057430	21	2 15.6	19.3
152244 2005 SD_{88}	16.4	X	192.33024	46.44076	16.20346	6.47833	0.0897612	0.28999265	2.2605358	21	5 22.4	19.6
152245 2005 SH_{89}	16.1	X	84.50333	130.81788	14.40818	9.94145	0.1005737	0.22197775	2.7014468	21	5 6.3	19.6
152246 2005 SO_{89}	16.0	X	223.38044	124.93896	226.84256	1.20515	0.1014423	0.22224915	2.6992471	21	3 30.3	20.0
152247 2005 SW_{90}	16.4	X	280.27007	138.29152	15.72924	3.08878	0.1229075	0.25756727	2.4464833	21	—	—
152248 2005 SJ_{91}	17.3	X	343.03304	72.35780	197.99414	2.47593	0.1363809	0.29319646	2.2440381	21	5 6.8	19.0
152249 2005 SF_{97}	16.0	X	173.14251	117.16053	309.35674	13.66566	0.0862170	0.22637939	2.6663150	21	5 5.9	20.4
152250 2005 SN_{98}	17.0	X	354.87023	279.13783	300.73948	5.33325	0.1443507	0.28545282	2.2844403	21	3 7.4	19.1
152251 2005 SM_{100}	16.9	X	213.50955	31.02665	262.39082	2.59319	0.1075517	0.27433196	2.3457683	21	—	—
152252 2005 SQ_{101}	16.6	X	232.81217	103.83006	345.82149	6.85054	0.1207429	0.23796750	2.5790373	21	8 14.8	20.2
152253 2005 SQ_{114}	16.6	X	225.03777	131.67396	238.88459	2.20241	0.0843033	0.28901271	2.2656427	21	4 19.9	19.6
152254 2005 SD_{116}	16.4	X	42.01871	85.31759	344.32719	1.38149	0.0543543	0.20366197	2.8610762	21	—	—
152255 2005 SW_{116}	15.7	X	129.69625	216.12179	180.84644	16.90799	0.1883959	0.21531849	2.7568629	21	2 25.6	19.9
152256 2005 SU_{128}	15.7	X	283.66093	199.08655	231.71381	2.88655	0.2032837	0.17871797	3.1214562	21	9 3.8	19.8
152257 2005 SJ_{129}	16.1	X	78.93537	17.27146	24.82596	2.24018	0.0712281	0.20434577	2.8546899	21	—	—
152258 2005 SZ_{129}	17.0	X	323.60105	317.23173	355.45493	4.90809	0.1721111	0.29866529	2.2165603	21	5 29.2	19.0
152259 2005 ST_{134}	15.4	X	357.03080	197.93556	210.24272	12.39248	0.1181255	0.19178192	2.9780428	21	12 15.9	19.2
152260 2005 SY_{141}	15.7	X	246.09631	290.58161	165.27203	5.08805	0.1208269	0.17858007	3.1230628	21	9 1.9	20.4
152261 2005 SC_{146}	17.2	X	359.68459	131.43612	56.10459	3.92424	0.1565505	0.28051775	2.3111554	21	1 30.2	19.4
152262 2005 SY_{148}	15.0	X	303.22228	2.35603	32.87429	10.08115	0.0891756	0.17885435	3.1198691	21	9 8.9	19.2
152263 2005 SZ_{162}	16.3	X	99.38041	293.58699	184.14303	4.65505	0.1413274	0.22000260	2.7175915	21	4 29.9	19.9
152264 2005 SL_{166}	15.6	X	154.40205	257.49407	126.58040	10.45995	0.1529371	0.21596332	2.7513724	21	3 7.8	19.9
152265 2005 SU_{173}	16.4	X	79.84316	153.82158	227.25726	4.08330	0.1396206	0.26685811	2.3893647	21	—	—
152266 2005 SV_{180}	17.1	X	287.77516	141.40803	157.93219	2.87192	0.1823999	0.29131272	2.2537016	21	3 17.4	19.9
152267 2005 SB_{191}	17.0	X	135.40231	234.94827	125.57314	1.92885	0.1353603	0.27187336	2.3598892	21	1 1.8	19.9
152268 2005 SV_{193}	15.4	X	327.25593	246.38755	211.98964	8.41203	0.1128748	0.19244878	2.9711593	21	12 31.7	19.1
152269 2005 SZ_{197}	15.6	X	184.98441	323.83125	175.44604	6.46922	0.1630391	0.17972434	3.1097928	21	8 21.4	20.8
152270 2005 SC_{209}	15.1	X	292.88494	238.65808	141.83233	8.30246	0.1609178	0.17559970	3.1583012	21	7 20.6	19.3
152271 2005 SP_{213}	16.1	X	235.72334	133.30104	306.17121	0.85923	0.1210699	0.17255803	3.1953070	21	8 1.0	21.0
152272 2005 SK_{217}	14.9	X	329.50349	228.61323	34.37841	11.93103	0.1570364	0.22459660	2.6804061	21	4 9.1	18.0
152273 2005 SL_{220}	15.1	X	345.81308	14.86215	281.02410	14.68806	0.1105488	0.23499553	2.6007363	21	6 28.1	17.8
152274 2005 SD_{231}	15.1	X	179.15879	281.56425	166.50145	14.69251	0.1970913	0.22686514	2.6625077	21	6 16.7	19.8
152275 2005 SV_{231}	16.9	X	280.21110	51.47858	209.73916	1.84063	0.0254855	0.21411330	2.7671983	21	2 17.4	20.6
152276 2005 SF_{234}	17.3	X	130.19066	242.44743	173.47653	3.27699	0.0717625	0.28350662	2.2948832	21	2 26.0	19.9
152277 2005 SO_{237}	15.4	X	294.70613	50.43786	308.48992	1.53163	0.0576311	0.17132623	3.2106045	21	7 10.9	19.8
152278 2005 SQ_{255}	16.7	X	328.61380	243.48357	226.60515	0.79007	0.1028545	0.26204409	2.4185392	21	—	—
152279 2005 SS_{262}	16.9	X	168.99961	49.00784	31.49306	3.53418	0.0952226	0.22667822	2.6639712	21	5 24.3	21.0
152280 2005 TE_{1}	15.3	X	142.22074	135.29275	306.85370	13.88659	0.0719689	0.22461839	2.6802327	21	4 17.8	19.4
152281 2005 TT_{2}	15.7	X	89.97249	122.82891	4.10126	13.62034	0.1738093	0.22024506	2.7155967	21	4 28.8	19.4
152282 2005 TH_{5}	15.7	X	181.55427	27.25429	350.79742	10.90957	0.1916877	0.21927229	2.7236223	21	3 22.7	20.3
152283 2005 TK_{6}	15.3	X	301.70185	81.26960	327.72316	9.50303	0.1213937	0.18083410	3.0970568	21	9 13.2	19.2
152284 2005 TP_{8}	16.2	X	170.75165	192.96698	158.65383	2.72153	0.0483330	0.21250860	2.7811114	21	2 2.0	20.2
152285 2005 TJ_{10}	15.5	X	317.40113	95.28347	278.72025	6.62362	0.1859354	0.17894815	3.1187788	21	8 14.8	19.1
152286 2005 TL_{10}	15.3	X	300.32947	66.22387	8.41569	15.81868	0.2056385	0.18303558	3.0721733	21	10 5.2	18.8
152287 2005 TM_{11}	15.7	X	22.67253	12.51642	48.84138	5.89948	0.0303321	0.19707053	2.9245222	21	—	—
152288 2005 TS_{12}	15.9	X	227.27577	143.67731	186.20485	4.99274	0.1665334	0.21985615	2.7187981	21	3 4.7	20.4
152289 2005 TB_{18}	15.5	X	133.99488	238.48229	101.46530	3.37002	0.0565976	0.20529229	2.8459087	21	—	—
152290 Lorettaoberheim	16.3	X	141.61609	76.75359	333.12217	4.32176	0.1281329	0.21818004	2.7327047	21	3 19.8	20.3
152291 2005 TD_{24}	15.5	X	341.03174	179.13089	186.25719	2.69868	0.0908690	0.18037282	3.1023347	21	9 22.9	19.4
152292 2005 TH_{28}	15.1	X	325.59285	19.19242	37.94374	9.16951	0.0962450	0.18569618	3.0427579	21	11 5.3	18.8
152293 2005 TJ_{28}	14.4	X	286.54558	239.52764	216.27581	15.99884	0.1522299	0.18345596	3.0674782	21	10 18.8	18.4
152294 2005 TX_{38}	15.8	X	144.84695	200.87797	195.60009	13.32350	0.0363537	0.21529026	2.7571038	21	2 22.7	19.9
152295 2005 TX_{42}	16.2	X	256.57840	314.36847	15.68727	7.39003	0.1612657	0.28551278	2.2841205	21	3 27.5	19.3
152296 2005 TE_{47}	15.4	X	213.45992	260.52210	270.31977	9.17402	0.2017438	0.18950677	3.0018309	21	10 19.0	20.4
152297 2005 TH_{49}	13.1	X	305.95793	166.01220	133.72412	13.04190	0.0662727	0.08471089	5.1346388	21	5 19.3	19.9
152298 2005 TV_{49}	16.3	X	145.45214	293.72527	233.07650	7.29824	0.0847088	0.23798255	2.5789285	21	8 16.4	20.2
152299 Vanautgaerden	16.4	X	133.68427	174.35716	140.68574	6.76474	0.1342148	0.26194311	2.4191608	21	—	—
152300 2005 TF_{51}	16.1	X	165.20903	260.51206	319.55121	6.53026	0.0548776	0.25384537	2.4703390	21	11 18.9	19.7
152301 2005 TN_{57}	16.3	X	299.15474	124.02160	35.04254	4.32924	0.0513570	0.26243863	2.4161147	21	—	—
152302 2005 TF_{73}	15.5	X	116.48557	246.86011	145.78055	12.91230	0.0785600	0.20921896	2.8101879	21	1 23.6	19.4
152303 2005 TG_{73}	15.0	X	318.20617	246.13394	124.58470	11.22648	0.0576523	0.17755713	3.1350464	21	8 30.5	19.2
152304 2005 TK_{73}	15.1	X	283.38814	321.45981	85.24977	11.55822	0.0883224	0.17623019	3.1507637	21	8 26.6	19.6
152305 2005 TN_{73}	15.5	X	175.73878	262.25489	161.38316	11.70863	0.1894153	0.22250332	2.6971911	21	5 16.3	20.2
152306 2005 TP_{73}	16.2	X	151.16347	282.41779	102.85832	4.02322	0.1069529	0.21762616	2.7373394	21	2 28.3	20.2
152307 2005 TL_{74}	14.9	X	321.84871	213.19922	178.61460	12.58807	0.1155820	0.18021050	3.1041973	21	9 26.1	18.5
152308 2005 TW_{74}	15.5	X	308.22834	89.72239	332.50545	11.45191	0.2116833	0.18293784	3.0732674	21	9 27.9	19.1
152309 2005 TS_{95}	16.2	X	216.41413	99.40031	13.84375	5.34365	0.0618330	0.23864620	2.5741452	21	9 2.6	19.8
152310 2005 TJ_{125}	17.1	X	250.78660	29.10388	214.74556	5.94985	0.0718203	0.27044674	2.3681809	21	—	—
152311 2005 TU_{132}	16.8	X	271.74065	159.56105	172.79227	1.04556	0.0988987	0.22743547	2.6580547	21	4 28.8	20.4
152312 2005 TL_{141}	16.8	X	166.52090	38.85866	125.43326	2.91863	0.1390686	0.23941488	2.5686324	21	9 9.7	20.8
152313 2005 TQ_{148}	16.6	X	70.22469	32.94850	157.52185	5.61750	0.0939019	0.29192080	2.2505709	21	6 17.2	19.0
152314 2005 TF_{153}	16.5	X	190.98007	136.17557	226.08510	3.00676	0.1410040	0.22061159	2.7125880	21	3 10.7	20.8
152315 2005 TT_{164}	17.2	X	331.32367	276.25174	337.00263	1.91717	0.1006277	0.28609892	2.2809997	21	3 25.5	19.7
152316 2005 TF_{172}	15.8	X	80.84370	26.49636	274.14615	13.89033	0.1247578	0.25348431	2.4726842	21	12 3.5	19.4
152317 2005 TW_{176}	15.0	X	226.41531	327.02454	129.43952	8.18050	0.1128323	0.17411795	3.1761940	21	8 13.5	19.9
152318 2005 TQ_{183}	15.0	X	145.43892	175.05322	131.82008	14.61438	0.1263404	0.20037387	2.8922911	21	—	—
152319 Pynchon	15.9	X	34.76597	298.69210	351.17020	9.57878	0.1105225	0.24029975	2.5623228	21	9 15.8	18.7
152320 Lichtenknecker	15.8	X	354.93120	195.28159	176.90693	2.69192	0.1078978	0.18269407	3.0760007	21	10 25.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152321 2005 US_{8}	16.2	X	66.75194	162.26921	212.91598	5.57826	0.1151744	0.26422669	2.4052022	21	—	—
152322 2005 UP_{10}	15.4	X	42.50114	187.91249	183.04483	10.38577	0.1090620	0.19248409	2.9707959	21	12 31.6	19.7
152323 2005 UZ_{11}	15.2	X	285.21537	19.95116	66.72379	10.77785	0.0675404	0.18199762	3.0838429	21	10 21.8	19.5
152324 2005 UO_{17}	16.0	X	204.30746	214.64238	154.10574	3.42068	0.1372199	0.21953641	2.7214374	21	4 2.3	20.3
152325 2005 UT_{17}	15.8	X	354.28007	157.44535	114.80610	4.86655	0.0620841	0.22810035	2.6528870	21	6 10.8	19.0
152326 2005 UJ_{18}	16.6	X	84.63664	191.99461	3.57256	5.32588	0.1276023	0.29416046	2.2391328	21	7 24.6	19.3
152327 2005 UV_{18}	14.9	X	284.10455	24.37971	61.70578	17.72142	0.0792638	0.18048039	3.1011019	21	10 20.9	19.3
152328 2005 UM_{20}	14.3	X	321.06355	45.33900	44.13220	4.51403	0.1637260	0.12568618	3.9470961	21	11 21.8	19.2
152329 2005 UR_{24}	15.7	X	305.13088	184.60735	28.44805	4.70390	0.0124761	0.20932648	2.8092255	21	1 24.1	19.6
152330 2005 UT_{26}	15.8	X	117.90342	276.16956	244.80316	3.78917	0.0755733	0.22932830	2.6434085	21	7 8.9	19.5
152331 2005 UW_{29}	14.7	X	132.91106	73.85998	40.67285	17.79934	0.1205818	0.15885679	3.3764905	21	5 30.7	20.0
152332 2005 UC_{30}	14.7	X	303.66347	352.29848	57.55126	8.09371	0.0694740	0.17802668	3.1295315	21	9 29.7	18.9
152333 2005 UC_{35}	15.7	X	10.71983	342.52907	227.94493	6.80229	0.1223193	0.21771225	2.7366178	21	4 8.5	18.7
152334 2005 UC_{37}	15.3	X	287.44217	258.82305	224.24270	6.16177	0.1485410	0.18727780	3.0256023	21	11 26.4	19.0
152335 2005 UZ_{42}	14.9	X	260.01288	352.06278	55.68609	7.20880	0.1187417	0.17185523	3.2040126	21	7 21.4	19.6
152336 2005 UN_{51}	14.5	X	212.12286	205.39284	233.76149	14.54689	0.0442652	0.16903354	3.2395707	21	7 9.2	19.5
152337 2005 UO_{55}	15.5	X	301.02508	30.20920	16.42256	1.07732	0.1857904	0.17701389	3.1414572	21	9 2.5	19.5
152338 2005 UK_{61}	15.2	X	69.75823	302.60567	69.41726	19.25924	0.0478036	0.19419869	2.9532838	21	—	—
152339 2005 UU_{61}	15.8	X	236.01474	292.50334	54.65932	5.98925	0.1358692	0.22125924	2.7072920	21	4 7.0	20.0
152340 2005 UN_{63}	16.4	X	28.00424	64.37829	193.01321	1.72765	0.0569185	0.22974828	2.6401861	21	7 12.8	19.7
152341 2005 UE_{67}	15.2	X	344.93021	21.02712	82.31038	13.79984	0.0652234	0.19605490	2.9346135	21	—	—
152342 2005 UP_{73}	15.6	X	93.01484	319.32137	67.22063	2.94319	0.0688943	0.20156308	2.8809035	21	—	—
152343 2005 UW_{73}	15.6	X	211.26943	315.93781	46.22434	5.70011	0.1265275	0.21902461	2.7256752	21	4 1.9	19.9
152344 2005 UY_{75}	15.7	X	246.59360	106.75950	327.85516	13.49785	0.0674066	0.23737009	2.5833627	21	8 17.6	19.1
152345 2005 UO_{79}	16.2	X	212.49612	226.91553	140.24174	3.42333	0.1306786	0.22045424	2.7138785	21	4 8.5	20.4
152346 2005 UY_{79}	15.7	X	265.02350	205.33322	166.50947	4.09845	0.1213076	0.23011056	2.6374143	21	6 8.9	19.4
152347 2005 UC_{83}	16.3	X	39.36447	209.44556	43.47088	4.89477	0.0741466	0.23413487	2.6071058	21	7 28.5	19.4
152348 2005 UD_{83}	16.9	X	232.81313	188.96107	30.08466	1.51531	0.1316261	0.26125697	2.4233946	21	—	—
152349 2005 UK_{84}	16.8	X	4.72603	342.42902	103.66440	1.24343	0.1485571	0.19611763	2.9339877	21	—	—
152350 2005 UN_{87}	16.4	X	49.53541	359.19146	107.32067	1.66297	0.0316535	0.20877175	2.8141996	21	1 23.3	20.1
152351 2005 UD_{97}	16.3	X	296.15431	228.73491	135.17325	2.72175	0.0823818	0.23413152	2.6071306	21	7 16.6	19.4
152352 2005 UZ_{112}	15.5	X	0.03824	357.48188	238.01664	6.85935	0.0374255	0.22045169	2.7138995	21	4 29.6	18.9
152353 2005 UZ_{114}	14.8	X	260.69388	341.03684	70.59759	10.46768	0.1396839	0.17201890	3.2019799	21	7 24.6	19.6
152354 2005 UZ_{116}	16.0	X	223.40621	102.67311	281.33599	1.42964	0.1102144	0.22521123	2.6755271	21	5 9.3	20.0
152355 2005 UC_{117}	16.1	X	166.07672	143.99891	147.59398	2.38661	0.0464434	0.19786766	2.9166624	21	—	—
152356 2005 UO_{121}	16.3	X	14.29057	239.75751	8.28814	1.53614	0.0352319	0.22775538	2.6555651	21	6 7.3	19.5
152357 2005 UE_{125}	16.7	X	210.27352	217.51268	20.00167	2.55706	0.1690278	0.25910233	2.4368110	21	—	—
152358 2005 UG_{126}	16.3	X	219.47300	328.51574	44.18329	2.50875	0.0898952	0.22216113	2.6999600	21	4 22.6	20.3
152359 2005 UM_{129}	16.1	X	298.47330	161.49767	312.75304	0.73419	0.0706173	0.18900585	3.0071324	21	12 10.1	20.0
152360 2005 UM_{130}	14.8	X	308.33274	300.84055	92.06834	13.44436	0.1500228	0.17742341	3.1366214	21	9 7.2	18.9
152361 2005 UX_{140}	15.1	X	286.81387	43.79772	73.54041	10.48126	0.0267612	0.18877020	3.0096345	21	12 2.8	19.0
152362 2005 UD_{141}	15.2	X	359.44223	244.50639	109.57567	3.45978	0.0908582	0.17959389	3.1112985	21	10 8.9	19.1
152363 2005 US_{141}	15.1	X	225.35240	100.69221	69.40905	11.33759	0.0864289	0.18583025	3.0412943	21	11 14.9	19.5
152364 2005 UK_{142}	15.2	X	314.16360	252.34009	155.34971	9.59424	0.1196403	0.18049336	3.1009533	21	10 6.4	19.0
152365 2005 UK_{143}	15.2	X	244.48207	161.03380	150.07040	13.13369	0.1169509	0.21521648	2.7577339	21	3 3.0	19.4
152366 2005 UW_{150}	15.5	X	260.45723	50.75594	21.53140	1.66957	0.0803534	0.17359798	3.1825331	21	8 26.5	19.9
152367 2005 UN_{155}	15.4	X	157.44174	305.32454	91.58496	14.53297	0.1281352	0.21436950	2.7649931	21	3 29.7	19.9
152368 2005 UM_{158}	15.0	X	298.12004	17.69564	63.45497	9.72610	0.0433257	0.18397882	3.0616638	21	11 2.3	19.1
152369 2005 UO_{159}	16.1	X	141.15220	203.01287	155.98999	5.06269	0.1193353	0.20860821	2.8156702	21	1 17.1	20.1
152370 2005 UZ_{159}	15.8	X	23.50878	37.88195	35.83220	10.38799	0.0625143	0.19951707	2.9005655	21	—	—
152371 2005 UN_{162}	15.3	X	302.03658	331.25287	136.51934	9.94684	0.0980613	0.18881629	3.0091447	21	12 6.6	19.2
152372 2005 UT_{169}	16.1	X	128.71249	141.08488	334.82690	1.15323	0.0352168	0.22284749	2.6944134	21	5 18.2	19.7
152373 2005 UG_{171}	15.0	X	319.25489	187.86562	278.73197	2.25930	0.1761120	0.12590159	3.9425926	21	12 8.6	19.7
152374 2005 UH_{173}	16.7	X	102.76711	209.86626	51.83825	0.58528	0.1047161	0.24547864	2.5261565	21	11 5.3	20.3
152375 2005 UW_{173}	16.3	X	103.23743	38.40047	294.82803	1.01320	0.0856471	0.19549404	2.9402236	21	—	—
152376 2005 UO_{180}	15.3	X	246.77302	58.10660	74.76748	6.72915	0.1049609	0.18104080	3.0946990	21	10 23.3	19.7
152377 2005 UT_{182}	16.2	X	336.44061	205.77009	222.80003	0.30301	0.0566677	0.18676594	3.0311279	21	12 6.8	20.1
152378 2005 UK_{184}	15.7	X	270.64431	274.30999	50.47038	5.72489	0.0817975	0.22302991	2.6929439	21	4 20.9	19.4
152379 2005 UW_{184}	16.1	X	298.44532	162.25849	95.97188	1.81045	0.0195904	0.21383467	2.7696016	21	3 11.0	19.8
152380 2005 UB_{202}	16.0	X	349.50507	173.14697	83.28350	3.26455	0.0262840	0.22344276	2.6896258	21	5 14.6	19.5
152381 2005 UK_{205}	16.1	X	86.64874	134.97400	64.87797	5.42343	0.1396460	0.22786044	2.6547488	21	8 2.2	19.8
152382 2005 UO_{205}	15.9	X	50.33838	209.44582	141.05765	1.37545	0.1315428	0.18884887	3.0087986	21	12 19.6	20.1
152383 2005 UW_{205}	16.0	X	25.49586	145.65271	54.15835	13.72818	0.1051261	0.21810322	2.7333463	21	4 24.8	19.2
152384 2005 UH_{206}	16.1	X	223.48890	259.85852	56.75851	2.94414	0.0477989	0.21662159	2.7457957	21	2 19.3	20.0
152385 2005 UE_{216}	15.7	X	71.73937	68.27118	57.52418	6.03822	0.0802325	0.21466967	2.7624150	21	3 26.5	19.3
152386 2005 UB_{217}	15.8	X	278.34125	47.17222	51.28944	2.30770	0.1476614	0.18292268	3.0734372	21	10 12.7	19.9
152387 2005 UD_{226}	15.9	X	63.83392	126.86521	202.84613	1.78079	0.0865977	0.18828453	3.0148077	21	12 4.5	20.1
152388 2005 UF_{226}	16.2	X	61.61419	254.04634	208.00838	2.25166	0.0418074	0.20872137	2.8146524	21	2 2.7	19.9
152389 2005 US_{228}	16.5	X	117.23109	155.77328	70.32995	4.49428	0.1299604	0.24026831	2.5625463	21	10 10.0	20.4
152390 2005 UJ_{237}	15.8	X	0.27334	210.30729	90.62810	6.16094	0.1996732	0.23615717	2.5922007	21	8 6.8	17.9
152391 2005 UU_{243}	14.9	X	103.55453	256.08950	309.12444	3.65791	0.0785220	0.16738830	3.2607636	21	8 16.6	19.6
152392 2005 UH_{245}	16.0	X	182.28156	13.34248	265.52107	9.53561	0.1987506	0.26193037	2.4192392	21	—	—
152393 2005 UL_{245}	15.1	X	1.89848	352.68434	28.42344	10.61679	0.1181823	0.18362184	3.0656307	21	11 15.2	18.9
152394 2005 UN_{250}	15.5	X	320.85815	86.09390	308.41275	8.89827	0.0765690	0.18241595	3.0791264	21	9 26.2	19.6
152395 2005 UJ_{253}	16.3	X	268.65479	22.68251	344.30214	1.33840	0.1197301	0.23066039	2.6332214	21	6 6.5	19.8
152396 2005 UB_{270}	16.0	X	37.04020	228.59640	127.09515	1.68840	0.1112923	0.18840124	3.0135625	21	12 6.5	20.0
152397 2005 UC_{271}	15.3	X	10.13204	202.87698	136.70731	2.82702	0.1290250	0.17977041	3.1092615	21	10 9.3	19.0
152398 2005 UP_{282}	15.8	X	291.07618	214.75002	60.14126	5.92787	0.1251436	0.22045546	2.7138686	21	3 9.2	19.6
152399 2005 UT_{287}	16.3	X	48.31976	250.31928	137.21765	2.76787	0.1012789	0.19591275	2.9360329	21	—	—
152400 2005 UN_{293}	16.7	X	16.57549	274.18183	309.60210	2.37154	0.1524639	0.22200167	2.7012527	21	5 9.3	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152401 2005 UQ_{294}	15.8	X	306.66742	299.26697	260.45967	5.29097	0.1574500	0.20392395	2.8586252	21	—	—
152402 2005 US_{299}	16.3	X	315.42014	16.86033	204.03787	0.71148	0.1174853	0.21000151	2.8032023	21	1 29.9	20.0
152403 2005 UT_{307}	16.3	X	236.74098	302.90708	39.41929	3.58159	0.0257049	0.21870166	2.7283579	21	4 8.7	20.0
152404 2005 UE_{313}	15.1	X	225.06137	218.97263	268.13821	7.82117	0.0391486	0.17775986	3.1326624	21	9 22.2	19.8
152405 2005 UF_{316}	16.3	X	125.90775	358.94125	223.87160	3.21781	0.1113352	0.24156708	2.5533532	21	10 11.0	20.2
152406 2005 UM_{319}	16.5	X	191.00052	101.65116	338.28456	1.56033	0.0557598	0.22802119	2.6535010	21	6 17.4	20.2
152407 2005 UD_{322}	16.0	X	233.03480	13.26133	294.29614	2.76133	0.0817769	0.21179560	2.7873495	21	2 15.9	20.1
152408 2005 US_{322}	15.1	X	320.38099	319.38537	66.00567	12.00599	0.0764984	0.17865642	3.1221730	21	9 24.8	19.3
152409 2005 US_{323}	14.3	X	359.48879	296.22965	91.44591	13.12913	0.2477077	0.18180755	3.0859918	21	12 6.0	17.4
152410 2005 UY_{333}	15.8	X	88.32243	153.63828	190.29357	2.65706	0.0317456	0.19156756	2.9802640	21	—	—
152411 2005 UE_{340}	15.7	X	59.39191	250.90100	105.23192	3.15501	0.0712909	0.19146082	2.9813715	21	12 29.4	19.9
152412 2005 UA_{343}	14.6	X	246.26833	130.99756	301.23982	15.01184	0.1460031	0.23607587	2.5927958	21	8 1.4	18.4
152413 2005 UG_{345}	16.1	X	278.37187	188.48764	85.47361	4.94316	0.0622078	0.21248822	2.7812892	21	3 1.7	20.0
152414 2005 UW_{349}	14.6	X	53.62511	295.15356	26.20525	15.12368	0.0431376	0.18320529	3.0702757	21	11 2.6	18.8
152415 2005 UT_{357}	15.7	X	114.30186	199.87636	131.62269	7.70551	0.1251209	0.19838074	2.9116313	21	—	—
152416 2005 UW_{365}	16.5	X	71.70208	77.01454	168.58404	5.35268	0.1032688	0.29930139	2.2134186	21	9 12.7	19.2
152417 2005 UX_{373}	17.3	X	260.07370	263.37351	30.12997	4.07223	0.1225849	0.27812879	2.3243709	21	2 16.9	20.6
152418 2005 UX_{381}	14.7	X	266.06019	272.66064	116.79492	14.33948	0.1476406	0.17242349	3.1969690	21	6 30.5	19.4
152419 2005 UG_{382}	14.9	X	295.36925	319.44722	71.99891	17.97348	0.1473973	0.17736006	3.1373683	21	8 16.7	19.3
152420 2005 UH_{383}	14.0	X	313.87592	291.19160	76.06389	27.57956	0.2114768	0.17554682	3.1589353	21	8 1.2	18.2
152421 2005 UK_{384}	15.8	X	306.39553	205.14579	144.99849	16.10002	0.1503873	0.23404336	2.6077853	21	7 2.7	19.2
152422 2005 UE_{386}	15.8	X	88.48787	319.83778	152.19960	9.61192	0.0837120	0.21728601	2.7401954	21	3 31.9	19.4
152423 2005 UK_{386}	16.4	X	170.56254	337.74403	54.66443	2.92933	0.0700020	0.21739106	2.7393126	21	3 26.8	20.5
152424 2005 UJ_{393}	15.0	X	246.59991	11.79198	79.11457	12.18950	0.1323543	0.17456767	3.1707366	21	8 31.4	19.9
152425 2005 UL_{396}	15.7	X	190.61736	256.23141	156.20535	15.70407	0.0281935	0.22340555	2.6899244	21	5 16.2	19.8
152426 2005 UW_{396}	15.9	X	354.42039	289.93628	128.12563	7.53571	0.1170557	0.19188982	2.9769264	21	12 24.8	19.5
152427 2005 UM_{397}	15.5	X	80.19293	37.76816	206.32766	14.65833	0.0621203	0.23833322	2.5763982	21	9 5.9	19.1
152428 2005 UY_{397}	15.2	X	238.46148	31.51271	51.40868	3.94001	0.1809125	0.17122553	3.2118631	21	8 3.3	20.3
152429 2005 UO_{398}	15.5	X	99.59870	187.33726	42.45728	15.84299	0.0905708	0.23863016	2.5742605	21	9 27.1	19.3
152430 2005 UX_{406}	16.4	X	328.14754	357.04723	140.62541	2.79201	0.0137181	0.20289266	2.8683039	21	—	—
152431 2005 UV_{408}	16.2	X	131.56753	65.75316	76.00720	3.18390	0.1467479	0.22743487	2.6580594	21	7 7.2	20.1
152432 2005 UZ_{414}	15.2	X	128.13031	63.97201	114.24973	2.70951	0.0836883	0.16959321	3.2324395	21	8 12.3	20.1
152433 2005 UO_{438}	17.3	X	254.21678	337.99086	273.08190	0.71481	0.1469138	0.27177816	2.3604402	21	—	—
152434 2005 UV_{438}	15.1	X	46.28099	338.27249	47.18406	12.07471	0.0828915	0.19274397	2.9681250	21	—	—
152435 2005 UJ_{439}	14.9	X	230.96247	124.25733	306.12658	10.20864	0.1460807	0.17202213	3.2019399	21	7 14.2	20.0
152436 2005 UA_{440}	14.9	X	208.88251	222.45472	248.30145	10.12903	0.1213655	0.17356593	3.1829249	21	8 7.8	20.0
152437 2005 UM_{442}	15.7	X	336.84502	357.56414	305.98838	12.90562	0.1354788	0.23420942	2.6065525	21	6 21.2	18.6
152438 2005 UO_{442}	15.1	X	177.60293	159.14383	352.13533	12.99673	0.1662646	0.23452426	2.6042192	21	9 3.9	19.2
152439 2005 UP_{446}	15.3	X	106.70538	313.73819	18.06335	12.16722	0.0620010	0.19697392	2.9254784	21	—	—
152440 2005 UN_{447}	15.1	X	272.66542	221.77323	252.32193	9.94759	0.1175486	0.18312557	3.0711667	21	10 26.2	19.3
152441 2005 UE_{449}	16.6	X	114.46965	235.57473	352.80631	2.96116	0.1718714	0.24002501	2.5642777	21	10 10.4	20.7
152442 2005 US_{455}	15.1	X	287.47730	96.46082	306.48499	8.49021	0.0658079	0.17681030	3.1438683	21	8 23.8	19.5
152443 2005 UY_{460}	15.6	X	81.28769	48.27079	330.90852	1.20447	0.1127463	0.19698889	2.9253302	21	—	—
152444 2005 UV_{468}	15.1	X	177.88125	223.26185	281.06520	3.96858	0.0559856	0.17134545	3.2103645	21	8 21.7	20.0
152445 2005 UF_{473}	16.4	X	63.75737	284.06049	345.96187	2.14600	0.1224464	0.23761217	2.5816078	21	10 1.8	19.9
152446 2005 UQ_{476}	15.6	X	70.26066	106.06968	160.09465	13.71929	0.1341765	0.24154123	2.5535353	21	10 10.9	19.2
152447 2005 US_{476}	16.4	X	81.14793	325.51550	115.36954	8.86921	0.0697608	0.27089059	2.3655934	21	1 23.5	19.0
152448 2005 UZ_{484}	16.0	X	344.48539	181.70485	117.01559	6.29735	0.2067037	0.23561636	2.5961658	21	6 21.8	18.2
152449 2005 UK_{491}	15.9	X	92.32240	7.01601	78.71782	4.65455	0.0645295	0.21365743	2.7711331	21	2 28.5	19.5
152450 2005 UK_{496}	15.0	X	301.21141	283.87722	125.07119	12.25467	0.0379960	0.17703370	3.1412229	21	9 29.5	19.4
152451 2005 UA_{501}	15.8	X	39.18903	105.92995	150.55090	14.48689	0.0825355	0.23330227	2.6133048	21	7 31.6	19.1
152452 2005 UB_{501}	15.7	X	304.57693	179.65332	120.91485	12.63784	0.0647744	0.22503413	2.6769307	21	5 10.1	19.4
152453 2005 UP_{501}	15.4	X	255.92877	351.23021	148.10325	12.29860	0.0749260	0.18441765	3.0568049	21	11 17.0	19.9
152454 Darnyi	17.0	X	285.11658	227.68370	28.98269	6.51483	0.0416505	0.28000527	2.3139746	21	2 7.2	20.0
152455 2005 VN_{7}	15.1	X	35.04073	345.58879	53.02542	10.21790	0.0570028	0.19225632	2.9731418	21	—	—
152456 2005 VF_{8}	16.6	X	276.72030	185.55351	223.98532	0.92154	0.0589888	0.17501555	3.1653248	21	8 20.5	21.0
152457 2005 VT_{13}	16.8	X	200.41738	174.22269	159.16582	5.77332	0.1736275	0.27750398	2.3278585	21	2 6.8	20.4
152458 2005 VY_{13}	15.5	X	117.89177	331.02224	179.03042	9.74280	0.1829119	0.22416792	2.6838222	21	7 5.9	19.8
152459 2005 VG_{15}	14.6	X	167.37160	199.34618	331.59720	16.43692	0.1473344	0.17534306	3.1613821	21	9 10.2	19.9
152460 2005 VY_{16}	16.1	X	213.87077	111.14809	343.38039	12.30739	0.0651479	0.23484657	2.6018359	21	8 6.5	19.8
152461 2005 VL_{43}	15.4	X	278.79248	198.01017	83.15256	10.44229	0.0768915	0.21707677	2.7419560	21	3 11.8	19.4
152462 2005 VF_{71}	14.8	X	30.64119	273.73104	72.64221	11.55191	0.1686555	0.18427123	3.0584240	21	11 24.3	18.6
152463 2005 VE_{77}	14.9	X	291.52997	227.36568	242.78048	10.77686	0.1226429	0.18565383	3.0432206	21	11 18.5	18.7
152464 2005 VD_{81}	16.0	X	347.44193	354.40254	57.61630	1.11888	0.1780653	0.18536179	3.0464162	21	12 7.7	19.3
152465 2005 VJ_{96}	15.9	X	265.82775	7.46060	315.18476	1.89638	0.0947435	0.22245810	2.6975566	21	4 8.8	19.7
152466 2005 VJ_{106}	15.5	X	348.43757	351.99382	31.40729	1.52964	0.1808029	0.18187300	3.0852514	21	10 31.4	18.8
152467 2005 VC_{114}	16.4	X	54.94848	30.99429	240.05227	1.99128	0.1547522	0.23634549	2.5908235	21	9 25.7	19.6
152468 2005 VN_{114}	16.1	X	139.68791	106.13573	173.54196	4.48550	0.0435327	0.18992910	2.9973794	21	12 24.6	20.5
152469 2005 VG_{124}	16.0	X	18.13850	217.05229	74.31465	14.98452	0.1532390	0.23457151	2.6038694	21	9 3.1	19.2
152470 2005 WJ	15.3	X	323.16936	302.08861	355.43022	13.63521	0.1066958	0.22944844	2.6424857	21	5 16.7	18.7
152471 2005 WE_{1}	15.5	X	207.75960	163.77620	351.87992	11.36497	0.0351648	0.17880786	3.1204099	21	10 8.6	20.1
152472 2005 WZ_{3}	15.3	X	191.87264	265.22388	81.92168	13.35854	0.0700919	0.21185503	2.7868282	21	2 27.3	19.7
152473 2005 WS_{4}	15.4	X	1.61599	55.44193	340.44200	10.64242	0.1137648	0.18548697	3.0450454	21	12 3.9	19.3
152474 2005 WY_{5}	15.0	X	13.38857	312.40530	65.25152	10.04535	0.0941033	0.18508159	3.0494902	21	11 28.0	18.9
152475 2005 WD_{10}	15.9	X	345.20447	155.87548	56.41109	0.89507	0.0120293	0.21291092	2.7776067	21	3 13.4	19.6
152476 2005 WH_{19}	15.4	X	284.04749	200.77462	100.49932	18.64900	0.0813843	0.21829252	2.7317659	21	4 16.8	19.6
152477 2005 WE_{25}	16.2	X	315.47654	260.54091	336.12038	2.85006	0.0413570	0.21107185	2.7937176	21	3 1.7	19.9
152478 2005 WP_{30}	15.2	X	284.75365	355.99614	59.18985	10.67716	0.0711045	0.17308378	3.1888332	21	9 11.8	19.7
152479 2005 WF_{33}	14.9	X	167.62413	312.46154	255.36712	9.11701	0.0550271	0.18033891	3.1027236	21	10 26.9	19.6
152480 2005 WB_{56}	15.0	X	151.20585	160.16156	74.91730	10.21066	0.0242618	0.18172388	3.0869391	21	11 14.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152481 Stabia	15.0	X	272.00945	332.33498	112.49122	23.47742	0.0521123	0.17737776	3.1371596	21	10 10.6	19.8
152482 2005 WG_{59}	14.7	X	293.26925	310.20486	104.87228	18.01817	0.2350321	0.17501824	3.1652924	21	8 29.4	19.0
152483 2005 WV_{59}	14.7	X	288.64321	251.47384	128.43723	19.40754	0.1825858	0.17157572	3.2074913	21	7 11.3	19.2
152484 2005 WX_{59}	15.5	X	251.18506	215.78245	131.94067	15.04257	0.0923057	0.22263635	2.6961165	21	5 1.5	19.7
152485 2005 WD_{64}	15.8	X	61.80451	352.53531	242.38077	1.31478	0.2381832	0.22511025	2.6763272	21	8 29.6	19.3
152486 2005 WJ_{74}	15.6	X	358.27112	261.48273	152.52725	11.81559	0.1391049	0.18798018	3.0180610	21	12 26.8	19.4
152487 2005 WD_{77}	16.0	X	190.62363	313.30627	5.02415	1.74464	0.0559063	0.20360963	2.8615664	21	1 17.6	20.1
152488 2005 WA_{79}	14.3	X	92.26747	329.93201	263.76309	13.74323	0.0176687	0.16897046	3.2403769	21	8 24.1	19.1
152489 2005 WE_{89}	14.8	X	179.07998	177.91023	66.97269	7.99270	0.0170011	0.18907890	3.0063578	21	12 28.0	19.1
152490 2005 WX_{89}	15.4	X	5.72243	331.52788	84.69431	9.59015	0.0176937	0.19094273	2.9867621	21	12 28.8	19.5
152491 2005 WX_{90}	15.3	X	201.14722	80.08167	70.34795	5.81682	0.1122297	0.17521382	3.1629365	21	9 24.9	20.2
152492 2005 WM_{91}	14.8	X	76.24136	224.39499	60.78968	9.98852	0.0622070	0.17875117	3.1210696	21	10 24.2	19.2
152493 2005 WE_{92}	15.7	X	223.22660	81.56368	56.39217	1.75218	0.1233982	0.17624401	3.1505991	21	9 29.1	20.5
152494 2005 WK_{100}	14.9	X	105.21081	194.45171	71.67335	10.69000	0.0731815	0.18105703	3.0945140	21	11 4.6	19.5
152495 2005 WH_{104}	16.1	X	177.19948	247.99792	143.61690	2.52382	0.0642368	0.21508259	2.7588783	21	4 1.8	20.1
152496 2005 WA_{106}	15.2	X	325.67152	303.33153	86.31129	18.15383	0.1497956	0.17817868	3.1277514	21	10 7.6	19.3
152497 2005 WJ_{120}	15.3	X	119.85973	305.29157	247.96480	12.86852	0.1255714	0.23093216	2.6311550	21	8 22.3	19.6
152498 2005 WS_{123}	16.6	X	98.00886	90.72889	72.99077	1.43467	0.0600058	0.22737456	2.6585294	21	6 15.2	19.9
152499 2005 WO_{155}	16.9	X	329.71542	190.56610	135.41597	6.76368	0.2033715	0.29825884	2.2185735	21	7 1.0	18.5
152500 2005 WX_{165}	15.8	X	100.58150	130.72821	147.45392	0.72286	0.0432053	0.18274824	3.0753928	21	11 8.6	20.2
152501 2005 WD_{168}	15.5	X	192.18603	102.32355	87.13806	2.44685	0.1227363	0.17848590	3.1241612	21	10 29.9	20.4
152502 2005 WO_{181}	15.3	X	263.51703	296.55414	174.81161	9.46151	0.0534504	0.18091553	3.0961273	21	10 24.1	19.6
152503 2005 WW_{182}	15.7	X	115.47743	227.36021	114.20326	8.92618	0.0113211	0.19634927	2.9316797	21	—	—
152504 2005 WS_{184}	15.4	X	26.89092	328.62135	114.74331	10.20888	0.0141600	0.19819891	2.9134118	21	—	—
152505 2005 WD_{185}	16.7	X	194.77024	163.83774	145.82544	6.83463	0.1570548	0.26999759	2.3708066	21	1 4.2	20.4
152506 2005 XN_{1}	15.5	X	176.18281	110.69807	50.57757	1.97313	0.1092486	0.17135883	3.2101973	21	9 11.2	20.6
152507 2005 XZ_{3}	15.5	X	339.24196	203.17173	79.40537	11.97972	0.0249041	0.22492589	2.6777894	21	6 4.6	19.0
152508 2005 XZ_{4}	15.7	X	195.23499	221.75099	133.83790	16.04903	0.2575544	0.21585926	2.7522566	21	3 13.6	20.7
152509 2005 XE_{39}	16.6	X	138.41789	264.93260	332.13111	1.35187	0.0402806	0.24531206	2.5272999	21	11 9.7	20.1
152510 2005 XA_{64}	15.3	X	37.41408	315.12566	55.54798	2.60767	0.2482637	0.18761715	3.0219529	21	—	—
152511 2005 YC_{1}	17.0	X	238.99919	82.69365	3.65534	4.70798	0.1876582	0.23979996	2.5658818	21	8 9.9	20.8
152512 2005 YF_{1}	14.9	X	145.37400	113.36445	66.34261	19.33669	0.0805969	0.16835731	3.2482397	21	9 11.5	20.2
152513 2005 YQ_{49}	15.2	X	130.66221	278.20017	158.89480	21.91233	0.0578221	0.21687206	2.7436812	21	4 7.8	19.3
152514 2005 YJ_{137}	15.6	X	112.27015	235.92843	33.23800	1.83236	0.1552795	0.17443108	3.1723917	21	11 18.2	20.7
152515 2005 YO_{186}	14.4	X	214.67756	142.32518	106.68044	11.34842	0.0871278	0.18399726	3.0614592	21	—	—
152516 2006 AG_{70}	15.8	X	220.06095	34.80520	209.09118	1.28854	0.0808293	0.18593578	3.0401434	21	—	—
152517 2006 AD_{72}	13.3	X	243.52374	192.76036	154.86552	4.31728	0.0707099	0.08282926	5.2121094	21	4 30.9	20.4
152518 2006 BH_{47}	15.9	X	11.05514	255.08963	113.07815	3.26174	0.0925008	0.18294125	3.0732293	21	11 13.2	19.7
152519 2006 CT_{61}	12.5	X	52.65126	220.48214	352.57243	21.14845	0.0582007	0.08423328	5.1540295	21	6 22.2	19.5
152520 2006 GQ_{47}	15.8	X	12.36730	150.85146	20.21064	0.94426	0.1551547	0.19163183	2.9795976	21	2 21.9	19.1
152521 2006 KU_{1}	15.9	X	95.13892	94.50853	136.87647	8.39823	0.1720943	0.21185603	2.7868194	21	9 26.1	20.1
152522 2006 SQ_{48}	16.7	X	13.94743	218.25787	172.22041	6.30343	0.1652301	0.27196512	2.3593584	21	—	—
152523 2006 UH_{55}	15.9	X	165.94308	69.11997	327.98592	2.78073	0.1169046	0.23127548	2.6285505	21	3 27.1	19.7
152524 2006 UZ_{67}	16.2	X	306.07873	324.78571	75.65706	8.46820	0.1250632	0.25941402	2.4348586	21	9 26.2	18.8
152525 2006 VU_{54}	15.8	X	278.45686	4.70066	71.22747	1.93798	0.0339321	0.18976858	2.9990694	21	10 1.7	19.9
152526 2006 VG_{58}	16.4	X	354.25705	161.63023	77.37044	7.42100	0.1522411	0.30186623	2.2008631	21	4 8.8	18.2
152527 2006 VC_{62}	15.9	X	14.81993	328.82409	43.79718	1.50062	0.0682444	0.19659296	2.9292565	21	11 23.1	19.5
152528 2006 VU_{124}	14.6	X	143.20787	309.27295	100.32076	7.36334	0.0378005	0.15804138	3.3880944	21	3 23.6	19.6
152529 2006 XS_{6}	15.6	X	253.66297	323.88314	276.79747	7.98371	0.0951334	0.21182493	2.7870922	21	—	—
152530 2006 YY_{14}	16.5	X	148.28099	309.59922	134.83310	8.32468	0.1911668	0.22523660	2.6753262	21	5 17.3	20.9
152531 2006 YY_{47}	16.8	X	254.24772	236.80567	147.84883	7.41084	0.2285251	0.30691284	2.1766704	21	5 30.4	20.1
152532 2007 AP_{20}	15.0	X	312.32514	315.79833	119.09883	23.06793	0.0675426	0.18661575	3.0327540	21	11 19.1	19.4
152533 Aggas	16.7	X	323.80150	337.46720	295.62478	5.41215	0.1029665	0.29473375	2.2362283	21	4 7.4	19.1
152534 2007 BZ_{7}	16.3	X	180.54543	69.76362	345.66255	12.19383	0.2673715	0.23177394	2.6247804	21	5 3.6	21.2
152535 2007 BR_{8}	16.7	X	99.10117	177.19976	326.19503	18.19363	0.0615537	0.36137031	1.9520955	21	4 28.6	19.2
152536 4265 *P–L*	16.2	X	207.23289	23.85684	356.53961	1.59245	0.1678119	0.22082528	2.7108378	21	4 17.3	20.5
152537 2056 *T–1*	15.3	X	222.75138	162.75430	19.11213	3.92574	0.1083100	0.18901684	3.0070158	21	11 21.8	19.9
152538 3035 *T–1*	15.5	X	338.68373	46.52681	198.02929	9.93773	0.2827129	0.21592299	2.7517150	21	3 6.3	18.7
152539 3194 *T–1*	16.3	X	161.85870	339.01670	218.21242	4.22359	0.1603648	0.24455241	2.5325309	21	10 15.3	20.3
152540 4358 *T–1*	15.9	X	71.93355	220.23997	47.33261	4.29273	0.1634717	0.24226674	2.5484348	21	10 16.7	19.3
152541 1140 *T–2*	16.9	X	281.73517	267.95441	1.00005	2.77634	0.1483783	0.27989496	2.3145825	21	2 4.9	20.3
152542 3135 *T–2*	15.9	X	254.25253	183.97515	143.95665	3.50603	0.1899357	0.21959535	2.7209504	21	3 27.1	20.1
152543 3420 *T–2*	15.6	X	69.29314	51.86685	14.12296	13.07930	0.1923403	0.21290629	2.7776470	21	1 17.4	18.8
152544 4427 *T–2*	17.1	X	159.77389	298.05204	55.52251	2.91538	0.1627623	0.27690338	2.3312233	21	1 24.8	20.4
152545 4473 *T–2*	16.8	X	302.97320	1.94679	39.04995	3.11933	0.1526858	0.24558088	2.5254552	21	9 11.7	19.5
152546 4729 *T–2*	16.2	X	302.89572	327.55390	76.15032	4.12488	0.1689636	0.24553560	2.5257657	21	9 14.2	18.7
152547 5052 *T–2*	15.5	X	340.66740	336.28538	305.77860	8.54632	0.2457584	0.22255565	2.6967683	21	5 8.7	18.2
152548 5085 *T–2*	16.4	X	279.43188	187.06482	242.55399	7.96766	0.1597448	0.24532072	2.5272404	21	9 6.3	19.6
152549 1119 *T–3*	15.2	X	249.36182	76.34983	349.91799	12.58599	0.2973274	0.17392601	3.1785304	21	7 14.6	20.6
152550 2677 *T–3*	16.3	X	153.06780	164.58074	204.95152	6.92652	0.1315095	0.27957178	2.3163659	21	1 30.7	19.6
152551 3190 *T–3*	16.7	X	279.68989	270.09630	149.09976	2.89125	0.1836119	0.24417457	2.5351428	21	8 23.3	19.9
152552 3810 *T–3*	15.7	X	266.48825	3.90434	65.13349	1.69507	0.1758290	0.17486634	3.1671252	21	8 16.5	20.1
152553 4264 *T–3*	15.5	X	94.58004	338.77830	62.23328	8.75774	0.0809332	0.20986709	2.8043991	21	1 7.1	19.2
152554 4320 *T–3*	16.0	X	180.06771	234.92862	130.60129	5.21817	0.1472322	0.21341726	2.7732117	21	3 8.2	20.4
152555 1975 SD_{1}	14.8	X	41.52511	169.30371	189.02956	12.88172	0.0918366	0.17350358	3.1836874	21	12 10.3	19.4
152556 1980 FK_{4}	15.8	X	105.63382	330.98856	177.35250	8.85794	0.1924521	0.22078467	2.7111702	21	6 22.7	20.0
152557 1981 ED_{29}	16.6	X	279.60843	235.06593	334.00601	8.74278	0.1752613	0.26499089	2.4005758	21	—	—
152558 1990 *SA*	16.7	X	306.14113	115.16931	172.16204	38.14698	0.4416512	0.34493344	2.0136277	21	2 11.9	20.6
152559 Bodelschwingh	14.8	X	230.62194	291.07346	46.56888	18.42108	0.2890473	0.21107010	2.7937331	21	3 22.9	20.1
152560 1991 *BN*	19.1	X	294.51268	80.91326	268.85457	3.44553	0.3980860	0.56840852	1.4433190	21	4 12.2	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152561 1991 RB	19.0	X	325.55210	68.94433	359.30164	19.57715	0.4854961	0.56185504	1.4545206	21	—	—
152562 1991 RO_{42}	16.4	X	99.86757	172.11540	276.78863	4.59072	0.1141202	0.27873759	2.3209851	21	3 6.6	19.2
152563 1992 BF	19.8	X	218.84467	336.59702	315.25992	7.25733	0.2715580	1.13974027	0.9076786	21	—	—
152564 1992 HF	19.7	X	227.20703	128.32314	213.38274	13.31960	0.5618784	0.60076466	1.3910192	21	2 13.7	22.4
152565 1992 SH_{11}	17.4	X	4.12951	155.23860	171.46563	0.92767	0.1241414	0.30582340	2.1818367	21	9 28.6	19.1
152566 1993 FH_{17}	15.5	X	72.64346	320.98769	157.48123	9.00198	0.2647801	0.21221198	2.7837023	21	4 15.7	18.8
152567 1993 FF_{32}	15.4	X	315.78791	217.35869	34.41722	9.25133	0.2058003	0.20890748	2.8129805	21	3 2.1	19.2
152568 1993 FN_{33}	15.5	X	359.98784	175.61298	37.90477	4.87715	0.1388976	0.21079035	2.7962043	21	3 27.8	18.5
152569 1993 FH_{50}	16.5	X	351.10527	33.63441	189.05222	6.87773	0.0539021	0.28129968	2.3068705	21	3 19.8	18.9
152570 1993 FL_{69}	15.8	X	6.43137	228.61239	334.37446	3.48665	0.0301791	0.21098770	2.7944604	21	3 27.4	19.3
152571 1993 QG_{9}	16.9	X	246.28603	203.86662	107.06990	1.70250	0.2295016	0.27007320	2.3703641	21	2 19.4	20.8
152572 1993 TE_{23}	16.4	X	188.61448	247.88752	44.53845	5.68967	0.0986747	0.25982491	2.4322910	21	—	—
152573 1993 TG_{32}	16.7	X	212.35567	207.27562	112.88078	3.23193	0.2134732	0.26553570	2.3972911	21	2 4.3	20.8
152574 1994 CR_{9}	15.8	X	186.12623	152.13123	337.08684	12.54597	0.1260772	0.23240533	2.6200244	21	8 16.1	19.8
152575 1994 GY	17.0	X	64.00639	190.52822	33.71574	12.32243	0.5237608	0.22370065	2.6875582	21	9 28.9	21.5
152576 1994 NR_{2}	17.2	X	264.54071	26.70867	281.53121	1.81933	0.2538623	0.28379417	2.2933327	21	2 26.9	20.8
152577 1994 PA_{10}	15.7	X	296.73933	125.02798	153.44120	8.22196	0.1975083	0.20974044	2.8055279	21	3 9.8	19.6
152578 1994 PU_{11}	15.3	X	35.80504	47.63188	316.90328	8.60058	0.1019652	0.18936946	3.0032818	21	12 14.3	19.4
152579 1994 PJ_{37}	16.5	X	156.19616	207.31055	171.68775	4.59869	0.2428884	0.27572680	2.3378504	21	2 28.8	20.1
152580 1994 SL_{1}	16.0	X	10.98927	15.14581	76.84816	2.06247	0.1121247	0.19247061	2.9709347	21	—	—
152581 1994 SE_{5}	16.2	X	293.30117	162.98902	27.46957	2.15034	0.0545757	0.19606971	2.9344658	21	—	—
152582 1994 SL_{6}	16.4	X	115.78167	216.04103	176.39996	4.86686	0.1870263	0.27122097	2.3636720	21	1 25.3	19.3
152583 1994 TF	16.6	X	172.35698	250.53692	75.19921	0.72937	0.2826232	0.27347415	2.3506711	21	1 12.6	20.5
152584 1994 UU_{5}	15.5	X	274.27435	75.98400	21.34821	9.87424	0.0691003	0.18167710	3.0874689	21	10 16.1	19.6
152585 1994 WM_{7}	15.7	X	6.73184	209.16206	153.60190	6.67482	0.2085667	0.18228787	3.0805685	21	11 12.9	19.1
152586 1994 WZ_{7}	16.5	X	186.95872	193.55461	184.17734	6.41126	0.1268336	0.27519963	2.3408351	21	3 20.8	19.9
152587 1994 XH_{4}	17.3	X	107.46056	210.57684	152.39533	5.73757	0.1545532	0.26571369	2.3962204	21	—	—
152588 1995 EY_{4}	16.4	X	354.93459	301.01942	41.97076	2.22145	0.0958143	0.24181447	2.5516113	21	9 24.6	19.0
152589 1995 ME_{3}	15.1	X	223.66757	187.49757	199.98825	11.38690	0.1781694	0.22649826	2.6653821	21	5 11.8	19.5
152590 1995 OC_{1}	16.5	X	14.89840	105.87419	195.34359	10.50914	0.1811788	0.22851006	2.6497150	21	9 2.6	19.3
152591 1995 QZ_{6}	17.0	X	237.23668	33.65481	337.60688	5.24685	0.1788879	0.29320195	2.2440102	21	4 26.3	20.4
152592 1995 SK_{1}	16.0	X	290.89158	289.44578	350.02946	4.39766	0.0324742	0.21367448	2.7709857	21	3 25.1	19.8
152593 1995 SM_{40}	16.5	X	97.99024	333.44037	133.12892	1.77031	0.0883578	0.21353407	2.7722003	21	4 5.9	20.3
152594 1995 SV_{45}	17.4	X	259.52018	188.51484	169.93855	2.87555	0.1312333	0.29607873	2.2294509	21	5 10.6	20.3
152595 1995 SA_{51}	16.2	X	38.25444	248.07922	226.14086	1.54164	0.2141572	0.20325211	2.8649211	21	1 21.7	18.8
152596 1995 SO_{70}	17.0	X	328.80229	4.00776	8.33442	2.06131	0.1445919	0.30366243	2.1921756	21	9 28.6	18.4
152597 1995 TP_{6}	16.3	X	113.59759	30.99334	328.76625	1.14398	0.0817216	0.20041971	2.8918500	21	—	—
152598 1995 TE_{7}	16.0	X	32.43668	161.87936	7.16488	3.90470	0.0410109	0.20915602	2.8107516	21	3 21.1	19.5
152599 1995 UX_{10}	15.8	X	321.89276	111.43626	288.60171	1.68513	0.0767743	0.19000788	2.9965507	21	10 9.7	19.6
152600 1995 US_{13}	15.4	X	37.12739	109.49345	23.87972	15.19353	0.0925162	0.20620986	2.8374601	21	2 18.9	19.1
152601 1995 UV_{37}	17.3	X	340.73453	74.20749	221.11123	2.44416	0.1406058	0.29700684	2.2248039	21	6 11.9	19.0
152602 1995 UF_{54}	17.0	X	69.94398	173.24858	21.42733	5.69831	0.0561083	0.29265956	2.2467818	21	6 15.9	19.5
152603 1995 VF_{2}	17.8	X	43.52109	262.31911	54.60612	3.87280	0.3000982	0.30565008	2.1826614	21	12 13.8	20.6
152604 1995 VJ_{16}	15.4	X	259.55214	91.96524	234.28608	4.13834	0.1627144	0.21228431	2.7830699	21	3 30.7	19.7
152605 1995 WG_{10}	16.2	X	135.51132	61.38980	314.14512	1.46905	0.0462782	0.20418548	2.8561837	21	1 23.1	20.2
152606 1995 WL_{19}	15.4	X	35.28915	250.96705	216.61742	12.13390	0.0697737	0.20089140	2.8873215	21	1 5.1	19.3
152607 1995 YE_{20}	16.1	X	341.50497	353.03596	142.75585	3.21622	0.0461335	0.19318310	2.9636254	21	—	—
152608 1996 AO_{7}	16.0	X	336.43058	79.81344	16.72513	2.33720	0.1822567	0.18942306	3.0027153	21	—	—
152609 1996 BJ_{7}	17.0	X	331.48058	159.83432	84.99956	3.70324	0.2013574	0.27858810	2.3218153	21	2 28.5	19.5
152610 1996 BK_{17}	16.4	X	314.82592	284.05473	1.75625	6.44977	0.1015899	0.28271241	2.2991791	21	4 15.5	19.1
152611 1996 ES_{7}	17.2	X	57.86655	56.49921	14.50698	1.44957	0.1649729	0.26997563	2.3709351	21	—	—
152612 1996 EW_{8}	16.9	X	302.51106	178.36367	38.25970	2.07843	0.1411644	0.27057599	2.3674267	21	—	—
152613 1996 FH_{14}	16.9	X	212.15880	156.36256	136.95101	3.16915	0.2175603	0.26584586	2.3954261	21	1 2.7	20.9
152614 1996 GB_{8}	16.7	X	344.57903	28.61760	72.89308	2.50177	0.1374494	0.26238385	2.4164510	21	—	—
152615 1996 GL_{16}	15.6	X	192.61677	132.21490	59.53724	6.64664	0.0908256	0.17818448	3.1276836	21	11 4.1	20.3
152616 1996 HG_{19}	15.1	X	123.19218	171.90152	88.03467	2.74637	0.1693272	0.17304361	3.1893267	21	11 18.6	20.3
152617 1996 JR_{14}	15.6	X	168.50053	83.05573	127.31741	2.56985	0.1582246	0.17445030	3.1721587	21	10 31.5	20.8
152618 1996 MJ_{1}	16.2	X	193.41053	144.39519	118.77012	7.43902	0.1068255	0.25879154	2.4387615	21	—	—
152619 1996 RW_{6}	16.4	X	201.62839	59.42776	347.10160	2.55175	0.0984794	0.22589953	2.6700896	21	5 15.2	20.5
152620 1996 RX_{11}	16.3	X	123.19792	94.09043	150.86296	7.83720	0.0764155	0.24181608	2.5516001	21	11 6.6	20.1
152621 1996 RY_{11}	16.2	X	178.56381	139.35185	12.06727	4.68246	0.1287965	0.23583485	2.5945621	21	9 5.5	20.1
152622 1996 TS_{35}	16.0	X	112.42348	145.20500	111.39718	4.90369	0.1919574	0.23987601	2.5653394	21	11 15.3	20.1
152623 1996 XL_{12}	16.7	X	291.80382	297.99813	73.34367	5.02492	0.1674334	0.30483561	2.1865475	21	7 7.3	18.8
152624 1996 XS_{20}	15.8	X	146.43101	2.39193	61.51652	6.32111	0.0562190	0.21707507	2.7419703	21	4 8.1	19.7
152625 1996 XQ_{23}	15.4	X	285.95679	121.17022	280.28176	8.26578	0.0944319	0.18463852	3.0543667	21	8 15.3	19.5
152626 1997 CY_{11}	15.7	X	244.35269	85.72248	335.33430	9.27811	0.1710312	0.18223248	3.0811927	21	7 14.9	20.6
152627 1997 DF	18.1	X	335.40822	268.58256	145.78669	18.67283	0.1465886	0.51489353	1.5416688	21	—	—
152628 1997 EF_{30}	15.7	X	325.84875	91.40142	5.71659	11.39948	0.1003253	0.19089214	2.9872898	21	12 29.2	19.6
152629 1997 EH_{32}	16.1	X	354.63872	16.37012	1.16353	2.90104	0.0755137	0.18397770	3.0616762	21	10 29.0	20.0
152630 1997 GP_{4}	17.0	X	121.57985	104.78939	6.56421	6.15812	0.0849731	0.29094366	2.2556071	21	5 2.9	19.8
152631 1997 GO_{5}	17.1	X	271.95721	6.34390	6.73923	7.78840	0.1668337	0.29592809	2.2302074	21	6 9.2	20.1
152632 1997 GG_{16}	16.4	X	58.17375	153.65944	136.32578	1.64286	0.1044676	0.30042998	2.2078719	21	10 28.8	18.9
152633 1997 GO_{35}	15.9	X	352.12441	258.30256	61.94473	3.91041	0.1538896	0.29359758	2.2419938	21	8 24.6	17.5
152634 1997 HN	15.7	X	191.47110	245.36944	43.28379	3.13819	0.2006170	0.19028545	2.9936360	21	—	—
152635 1997 JF_{8}	16.8	X	315.22093	173.84528	132.85154	4.98147	0.2375393	0.28743037	2.2739502	21	4 27.0	19.2
152636 1997 KR_{2}	17.2	X	96.86291	345.57272	151.36522	3.37308	0.0579687	0.28621639	2.2803756	21	5 4.2	19.9
152637 1997 NC_{1}	17.9	X	85.43354	16.60043	96.49466	16.72490	0.2082134	1.22498362	0.8650659	21	—	—
152638 1997 OD_{2}	16.6	X	150.78691	202.07689	161.50718	2.51809	0.2148957	0.26811626	2.3818840	21	2 2.9	20.2
152639 1997 PT	17.0	X	136.16712	162.44874	168.38304	3.27636	0.2134815	0.26387629	2.4073310	21	—	—
152640 1997 PP_{3}	15.9	X	125.51056	25.34606	351.44195	6.41385	0.1326224	0.26516591	2.3995193	21	1 13.0	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152641 Fredreed	16.3	X	249.98788	123.10219	217.90630	3.30668	0.2333768	0.23715106	2.5849531	21	4 1.6	20.6
152642 1997 RV_9	15.6	X	149.55661	327.42489	11.44067	7.54791	0.1030788	0.26251143	2.4156679	21	—	—
152643 1997 SP_6	16.9	X	323.70739	29.11576	166.19126	1.17756	0.1302947	0.26880556	2.3778104	21	—	—
152644 1997 SZ_6	17.0	X	263.52942	176.11908	356.22042	4.55775	0.0675780	0.25857021	2.4401530	21	—	—
152645 1997 SN_{18}	17.0	X	209.04707	321.03279	344.44318	2.20345	0.1883357	0.26892374	2.3771137	21	1 14.1	20.9
152646 1997 SM_{33}	15.7	X	77.46230	183.87567	198.87683	8.76366	0.2164081	0.25768907	2.4457124	21	—	—
152647 Rinako	15.9	X	70.44173	337.61787	35.16590	12.26472	0.2519690	0.25566715	2.4585899	21	—	—
152648 1997 UL_{20}	16.0	X	136.98836	208.37272	199.33987	28.86950	0.1841794	0.35125791	1.9893841	21	2 24.3	18.9
152649 1997 UX_{22}	15.9	X	55.56119	22.84799	3.81845	7.94621	0.1248730	0.25597426	2.4566230	21	—	—
152650 1997 VR_5	15.7	X	253.50376	181.48945	245.42277	4.76881	0.1473996	0.23767042	2.5811860	21	8 2.3	19.5
152651 1997 VN_8	16.1	X	249.85508	71.53791	16.99249	4.27987	0.2333917	0.23893791	2.5720496	21	8 19.1	19.9
152652 1997 WG_8	16.3	X	250.82057	24.45451	48.56921	14.17844	0.1691135	0.23953720	2.5677578	21	8 12.4	20.3
152653 1997 WV_{10}	16.0	X	273.44038	272.09594	38.32258	6.85181	0.2077903	0.27397486	2.3478062	21	3 18.2	19.5
152654 1997 WB_{15}	16.9	X	171.37398	16.85372	276.16360	0.74482	0.1773351	0.25935981	2.4351979	21	—	—
152655 1997 WL_{18}	16.4	X	144.05048	62.73400	275.09508	4.13808	0.1241491	0.26037503	2.4288638	21	—	—
152656 1997 WC_{29}	16.4	X	289.77330	272.98632	102.71841	3.00415	0.2334151	0.23935893	2.5690327	21	6 28.9	19.5
152657 Yukifumi	16.6	X	237.55281	302.80671	114.60001	5.15179	0.2415093	0.23468338	2.6030419	21	6 25.3	20.7
152658 1997 XG_6	17.1	X	280.65723	2.19639	60.58075	7.54519	0.2144466	0.24158140	2.5532523	21	8 28.6	20.3
152659 1997 XQ_9	15.9	X	287.58029	25.88700	24.43322	5.78928	0.1410507	0.24069252	2.5595345	21	9 1.4	19.0
152660 1998 CW	16.2	X	121.28880	227.65309	211.91577	4.63948	0.1410245	0.21907814	2.7252312	21	4 5.6	20.2
152661 1998 DS_1	15.6	X	183.86859	162.32471	251.36966	2.77581	0.2173202	0.22342596	2.6897606	21	5 8.1	20.1
152662 1998 DQ_8	15.9	X	81.56733	56.19234	72.23068	9.63114	0.0846553	0.21745537	2.7387725	21	4 14.8	19.5
152663 1998 DF_{32}	15.5	X	163.31289	342.00869	77.29710	9.71153	0.1838845	0.22077998	2.7112086	21	4 30.1	20.0
152664 1998 FW_4	19.7	X	329.45469	85.37575	353.68064	3.42300	0.7138626	0.24527283	2.5275694	21	—	—
152665 1998 FG_6	16.3	X	146.10798	12.34242	81.57411	2.67300	0.0618010	0.21902175	2.7256989	21	5 14.8	20.2
152666 1998 FN_7	16.4	X	291.18956	323.35873	31.92384	2.33353	0.0936922	0.22625082	2.6673250	21	6 25.5	19.7
152667 1998 FR_{11}	16.3	X	317.47343	158.59581	129.87160	6.66721	0.7064905	0.20908826	2.8113589	21	2 9.6	21.3
152668 1998 FS_{59}	15.7	X	338.77076	156.27844	105.53129	3.15212	0.1861171	0.21561731	2.7543151	21	4 19.7	18.6
152669 1998 FK_{135}	15.7	X	37.77052	235.66655	352.14612	12.93264	0.1234158	0.22094127	2.7098889	21	6 24.9	19.1
152670 1998 GN_3	15.1	X	14.71392	2.63887	152.91485	27.11420	0.2186907	0.21174407	2.7878017	21	1 24.6	18.2
152671 1998 HL_3	20.1	X	20.28696	188.12846	163.67137	2.67980	0.3660342	0.82178861	1.1288320	21	—	—
152672 1998 HS_5	15.4	X	94.64862	93.76211	44.97467	10.03885	0.1554226	0.21759671	2.7375864	21	5 21.8	19.1
152673 1998 HU_{14}	15.7	X	14.89434	224.01865	57.43491	3.99430	0.1513632	0.22200528	2.7012234	21	8 4.3	18.4
152674 1998 HB_{50}	15.2	X	268.55374	280.80773	42.49640	9.22579	0.1662566	0.21445584	2.7642510	21	4 8.5	19.3
152675 1998 HS_{59}	16.3	X	3.86734	350.84714	215.87793	0.99289	0.1664487	0.21273529	2.7791353	21	3 20.9	19.1
152676 1998 HT_{96}	15.7	X	11.73767	32.43698	190.32567	5.64803	0.0629371	0.21444921	2.7643079	21	5 1.7	19.1
152677 1998 HA_{114}	15.2	X	345.41819	169.43372	74.33440	9.91458	0.0955383	0.21390526	2.7689922	21	4 20.0	18.6
152678 1998 HE_{126}	15.5	X	310.72171	119.01613	140.60005	8.68959	0.1830108	0.20949317	2.8077351	21	3 5.8	19.3
152679 1998 KU_2	16.6	X	272.05042	120.31484	205.72321	4.92859	0.5529440	0.29181599	2.2511097	21	3 6.1	21.4
152680 1998 KJ_9	19.4	X	57.76044	260.05675	98.57911	10.93079	0.6397404	0.56577727	1.4477905	21	—	—
152681 1998 KY_{10}	15.6	X	82.20138	186.45577	156.62021	10.68856	0.1101864	0.19172152	2.9786683	21	—	—
152682 1998 KT_{21}	15.3	X	325.80470	44.67679	235.21100	8.73179	0.2674260	0.21225831	2.7832972	21	4 4.9	18.8
152683 1998 KT_{23}	15.2	X	14.82226	38.40711	217.26649	12.96925	0.1546219	0.21689930	2.7434514	21	6 23.3	18.3
152684 1998 KV_{26}	15.4	X	313.69241	44.94643	233.01782	12.66077	0.1709409	0.21258046	2.7804846	21	3 29.5	19.2
152685 1998 MZ	19.1	X	312.08918	39.75013	121.76736	0.14652	0.5733642	0.63081372	1.3464864	21	—	—
152686 1998 QG_{42}	16.3	X	325.36558	4.98328	333.19152	7.91465	0.2452714	0.29774322	2.2211342	21	7 6.4	17.7
152687 1998 QP_{58}	17.7	X	24.09359	112.58827	163.80294	2.27430	0.1696107	0.29811289	2.2192976	21	8 22.1	19.4
152688 1998 QE_{61}	16.7	X	298.14618	27.50623	323.34188	13.92364	0.2550050	0.25292176	2.4763494	21	5 30.4	20.1
152689 1998 QC_{63}	16.6	X	118.55876	344.52481	283.13919	4.06919	0.1223424	0.30980190	2.1631169	21	12 9.8	19.7
152690 1998 QS_{75}	15.0	X	10.36251	181.92851	199.22327	17.55313	0.2100591	0.17572580	3.1567900	21	12 9.9	19.0
152691 1998 QJ_{103}	16.4	X	234.40482	8.95779	13.37135	9.84939	0.2152022	0.28973153	2.2618938	21	5 5.7	20.2
152692 1998 QN_{111}	16.0	X	42.55704	154.29456	181.00766	4.47701	0.1713811	0.17609812	3.1523390	21	11 25.6	20.2
152693 1998 RM_4	17.3	X	47.70677	218.26730	184.33505	24.05074	0.0966789	0.39908958	1.8270725	21	—	—
152694 1998 RX_6	14.8	X	359.21530	347.15806	346.86305	15.45665	0.1548336	0.17158118	3.2074233	21	9 11.7	18.5
152695 1998 RN_{15}	16.1	X	163.42855	107.01013	177.64633	1.55695	0.1112263	0.18534133	3.0466404	21	—	—
152696 1998 RO_{52}	16.6	X	321.32201	313.59972	30.66346	5.53190	0.1753297	0.29710530	2.2243124	21	7 20.5	18.4
152697 1998 RU_{53}	16.4	X	226.73579	52.91040	292.55879	4.67751	0.1894163	0.28568656	2.2831942	21	3 14.4	20.2
152698 1998 RG_{58}	17.0	X	5.90688	151.35414	168.68418	2.29089	0.1333159	0.29983188	2.2108071	21	9 21.4	18.8
152699 1998 RM_{60}	16.6	X	120.76946	89.89534	303.84273	4.37344	0.1682335	0.27661853	2.3328234	21	1 30.7	19.3
152700 1998 RN_{65}	17.0	X	185.44949	194.77107	180.60875	3.67516	0.1860708	0.28290217	2.2981508	21	3 18.1	20.4
152701 1998 RF_{69}	16.8	X	358.60947	140.68955	172.40778	5.56123	0.2274268	0.29878621	2.2159622	21	8 31.6	17.8
152702 1998 RE_{73}	16.9	X	224.72107	8.46569	322.87275	1.36386	0.2661342	0.28424973	2.2908818	21	2 24.5	21.0
152703 1998 RJ_{79}	16.8	X	152.46721	217.84416	144.80237	6.69381	0.2388761	0.27763047	2.3271514	21	2 4.5	20.4
152704 1998 SD_4	18.5	X	109.20347	144.12763	181.78166	13.67262	0.1252752	0.52865405	1.5147990	21	—	—
152705 1998 SY_{37}	17.0	X	149.14856	142.28074	230.61721	0.75965	0.2087667	0.27935890	2.3175425	21	2 10.7	20.3
152706 1998 SU_{54}	16.7	X	309.45652	321.92049	2.62505	4.81358	0.1788747	0.29383554	2.2407832	21	5 20.9	19.1
152707 1998 SM_{71}	15.1	X	49.36250	325.32037	45.06627	6.19667	0.1661125	0.17789988	3.1310183	21	—	—
152708 1998 SU_{81}	16.9	X	16.05459	334.64349	340.93042	2.51092	0.1674904	0.30077956	2.2061608	21	10 8.9	18.7
152709 1998 ST_{86}	14.9	X	7.84457	32.59527	332.70753	4.46872	0.1583042	0.17345917	3.1842308	21	11 6.6	18.7
152710 1998 SW_{86}	16.4	X	175.43590	243.70461	217.92475	5.74297	0.0304217	0.29177373	2.2513270	21	6 26.3	19.2
152711 1998 SZ_{97}	14.9	X	75.88610	163.60264	180.03223	12.86775	0.0500434	0.17963349	3.1108412	21	12 27.9	19.6
152712 1998 SE_{106}	16.8	X	106.56771	190.10983	170.38921	4.96697	0.1722171	0.27175088	2.3605982	21	—	—
152713 1998 SD_{114}	16.5	X	75.33210	357.12688	45.18959	6.16865	0.2264698	0.27118634	2.3638732	21	—	—
152714 1998 SB_{115}	14.8	X	86.26013	299.48930	8.60951	4.84592	0.1067898	0.17683703	3.1435515	21	12 3.3	19.5
152715 1998 SV_{120}	15.1	X	137.47505	145.70581	169.94668	12.07185	0.1350757	0.18406746	3.0606808	21	—	—
152716 1998 SR_{125}	14.8	X	125.54912	297.52528	36.80959	9.49111	0.1441722	0.18432996	3.0577743	21	—	—
152717 1998 SY_{157}	17.1	X	292.04650	141.18413	163.41431	2.62548	0.2373245	0.28998939	2.2605527	21	3 22.3	20.2
152718 1998 SK_{162}	17.0	X	91.04055	30.19800	351.64686	2.88175	0.2569130	0.27091144	2.3654721	21	—	—
152719 1998 TQ_{13}	17.1	X	329.35877	66.28896	61.67142	1.15889	0.1756558	0.26528086	2.3988261	21	—	—
152720 1998 TF_{17}	17.3	X	85.52634	147.92224	262.28404	1.65964	0.1834824	0.27253765	2.3560529	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152721 1998 TU_{25}	17.4	X	79.80623	94.99829	29.07578	4.18066	0.0735118	0.27960974	2.3161563	21	3 23.4	19.9
152722 1998 UG_{3}	16.8	X	44.35389	87.01295	277.32118	0.86758	0.2206873	0.26366432	2.4086210	21	—	—
152723 1998 UM_{31}	17.1	X	58.38751	87.99497	306.98398	1.03441	0.2243545	0.26830994	2.3807376	21	—	—
152724 1998 UW_{38}	16.2	X	246.54207	217.22742	141.93207	1.26921	0.2199392	0.28810111	2.2704194	21	4 19.7	19.7
152725 1998 UL_{44}	16.5	X	260.92747	317.58534	47.75082	2.93317	0.2448289	0.24667829	2.5179596	21	5 10.8	20.4
152726 1998 UT_{45}	16.5	X	188.06205	7.20749	14.91116	7.47023	0.1114624	0.28405177	2.2919460	21	3 27.0	19.6
152727 1998 VW_{13}	16.3	X	209.27227	12.70453	350.56226	3.90665	0.2209731	0.28340471	2.2954333	21	3 23.5	20.1
152728 1998 VR_{14}	13.9	X	27.87557	344.43909	35.73420	27.58122	0.1270422	0.17511692	3.1641032	21	12 18.6	18.5
152729 1998 VJ_{20}	15.1	X	342.30469	333.32519	66.79743	6.11074	0.1404380	0.17132731	3.2105910	21	11 8.8	18.8
152730 1998 VZ_{22}	16.5	X	95.22015	151.63877	238.91971	1.76334	0.1668222	0.27119365	2.3638307	21	—	—
152731 1998 VU_{43}	16.4	X	61.57879	304.39048	106.09428	3.91320	0.1676657	0.26473292	2.4021350	21	—	—
152732 1998 VN_{55}	16.5	X	350.68060	339.61284	235.27095	6.18261	0.0722626	0.27951868	2.3166593	21	3 3.2	19.2
152733 1998 WL_{8}	16.3	X	162.69335	52.73685	67.91462	4.30220	0.2549726	0.24079217	2.5588282	21	7 14.3	20.9
152734 1998 WR_{11}	16.7	X	110.67880	193.76719	184.92715	3.15405	0.1875746	0.27156700	2.3616637	21	—	—
152735 1998 WS_{13}	16.6	X	96.09091	355.17538	42.01914	7.48367	0.2280822	0.27129328	2.3632519	21	1 10.1	18.9
152736 1998 WX_{21}	16.7	X	271.31032	315.55719	54.48591	3.56234	0.1285175	0.28996019	2.2607045	21	6 10.9	19.5
152737 1998 WF_{28}	16.6	X	153.42046	137.71891	219.19487	1.28194	0.2163656	0.27539252	2.3397419	21	1 27.2	19.9
152738 1998 WM_{31}	16.5	X	23.16823	50.28786	271.10986	0.80897	0.1904103	0.29901726	2.2148206	21	11 4.4	18.4
152739 1998 WC_{32}	16.6	X	355.61951	318.39467	34.20814	6.65275	0.2499797	0.29942062	2.2128310	21	11 9.1	17.9
152740 1998 WW_{34}	17.1	X	302.56531	219.17231	25.43159	3.06475	0.0858262	0.27917684	2.3185500	21	2 5.8	19.9
152741 1998 WT_{42}	16.6	X	115.81239	45.29670	301.74985	2.38823	0.3046136	0.27063758	2.3670676	21	—	—
152742 1998 XE_{12}	19.1	X	260.16795	353.12697	280.05187	13.43316	0.7390984	1.19755118	0.8782268	21	11 24.7	17.6
152743 1998 YK_{6}	15.8	X	199.49952	291.99099	95.69827	9.78233	0.1594341	0.23703908	2.5857671	21	4 23.2	20.1
152744 1998 YC_{9}	17.2	X	75.32195	283.44309	122.57473	2.01416	0.1776973	0.26928116	2.3750098	21	—	—
152745 1998 YN_{11}	15.4	X	220.46510	117.40230	260.67580	10.42413	0.1921934	0.23789426	2.5795666	21	4 21.8	19.8
152746 1998 YH_{15}	17.3	X	97.20454	28.64984	346.47398	0.82385	0.2028407	0.26560873	2.3968516	21	—	—
152747 1998 YK_{15}	17.4	X	293.48794	135.59923	326.46780	1.19328	0.1804353	0.25414425	2.4684018	21	11 19.3	19.7
152748 1998 YF_{27}	17.2	X	228.13468	32.66695	119.60312	46.29341	0.1966069	0.38072424	1.8853661	21	12 3.8	20.4
152749 1998 YB_{32}	16.8	X	27.97879	327.70405	101.95729	3.23087	0.1912004	0.26553182	2.3973144	21	—	—
152750 Brloh	16.2	X	181.57777	227.10362	188.24535	2.01614	0.2032313	0.23518333	2.5993516	21	5 8.2	20.4
152751 1999 BL_{27}	17.2	X	331.75858	169.32155	339.01248	0.62410	0.1234886	0.26254530	2.4154602	21	—	—
152752 1999 CX_{3}	17.1	X	106.15063	79.80494	155.98043	23.78847	0.1042665	0.37427008	1.9069793	21	10 28.9	19.9
152753 1999 CK_{156}	17.4	X	341.74821	67.47207	13.63181	1.43525	0.1547093	0.25596422	2.4566872	21	—	—
152754 1999 GS_{6}	19.1	X	93.64267	134.95564	314.44251	2.02059	0.4974000	0.75813158	1.1911679	21	—	—
152755 1999 GC_{16}	16.0	X	112.46132	206.93409	19.37509	9.13834	0.1688880	0.23790710	2.5794738	21	10 6.8	19.9
152756 1999 JV_{3}	18.8	X	191.55358	101.57499	229.03240	15.22285	0.4149523	0.56407696	1.4506984	21	—	—
152757 1999 JL_{11}	16.2	X	111.91364	42.73334	223.68872	3.37218	0.1872189	0.23988820	2.5652526	21	11 25.2	20.3
152758 1999 JC_{33}	16.0	X	146.82975	194.05644	58.84445	6.16821	0.1712982	0.24295524	2.5436178	21	12 8.2	20.2
152759 1999 JD_{45}	16.1	X	60.46534	219.56297	52.51079	7.41766	0.2640516	0.23285604	2.6166424	21	10 22.4	19.8
152760 1999 KH	16.3	X	295.44623	145.51423	171.18818	1.84527	0.2169040	0.22209536	2.7004930	21	4 21.3	20.0
152761 1999 LE	15.7	X	112.62264	134.97067	158.67893	8.70892	0.1782846	0.24155482	2.5534396	21	12 27.6	20.0
152762 1999 LS_{2}	15.8	X	45.08273	96.41003	181.36576	11.87249	0.1576558	0.23100667	2.6305893	21	9 21.2	19.0
152763 1999 LN_{4}	15.5	X	86.34492	113.67155	170.34194	28.45080	0.2546560	0.23606816	2.5928522	21	12 1.6	20.3
152764 1999 LJ_{10}	15.4	X	261.30056	145.06664	161.95023	9.75370	0.2426305	0.21517092	2.7581232	21	3 3.5	20.0
152765 1999 LN_{10}	15.9	X	88.99154	139.95419	126.96102	12.38965	0.1525686	0.23575320	2.5951611	21	11 5.6	20.0
152766 1999 LZ_{11}	15.6	X	172.68813	84.24564	158.03940	5.36395	0.1958387	0.24390897	2.5369829	21	12 17.5	19.8
152767 1999 NP_{12}	15.7	X	131.73594	3.37507	267.19625	12.25736	0.2534697	0.24050943	2.5608333	21	12 17.4	20.2
152768 1999 NC_{16}	16.6	X	3.16801	116.07152	186.09404	1.31074	0.3040820	0.22528908	2.6749107	21	8 22.1	18.2
152769 1999 RM_{20}	14.6	X	12.57311	223.64051	191.62609	8.61454	0.1241361	0.18820526	3.0156542	21	—	—
152770 1999 RR_{28}	18.4	X	132.49115	284.56082	178.20939	7.13979	0.6544771	0.38304348	1.8777481	21	6 18.7	22.5
152771 1999 RB_{34}	15.3	X	69.33910	104.54752	183.80330	27.77370	0.3875880	0.23192089	2.6236716	21	12 2.0	20.3
152772 1999 RE_{60}	15.8	X	248.45053	126.88130	179.63830	7.75047	0.2231193	0.20974741	2.8054658	21	2 20.9	20.6
152773 1999 RO_{90}	15.6	X	267.57082	289.91069	55.14721	4.38901	0.1200381	0.21327558	2.7744397	21	5 8.5	19.4
152774 1999 RM_{114}	15.2	X	286.11959	46.81033	348.28861	15.65768	0.2503487	0.17487584	3.1670105	21	7 21.8	19.8
152775 1999 RV_{149}	15.1	X	309.62667	32.53195	322.96417	5.04747	0.2963707	0.17540821	3.1605993	21	6 21.5	19.0
152776 1999 RF_{152}	14.8	X	260.20366	356.35984	335.91130	7.56000	0.2196989	0.21257498	2.7805323	21	4 1.1	19.4
152777 1999 RA_{160}	15.5	X	311.70492	266.34308	68.92280	3.61570	0.1893453	0.21925824	2.7237387	21	6 13.5	18.7
152778 1999 RF_{163}	15.5	X	323.13443	133.77476	186.98937	9.28441	0.1602908	0.21894337	2.7263494	21	6 17.5	18.7
152779 1999 RL_{169}	15.0	X	297.35416	325.25549	336.68818	13.44907	0.1703585	0.21364858	2.7712096	21	4 5.6	19.1
152780 1999 RG_{189}	15.2	X	8.33934	232.76889	179.40235	11.47220	0.0866732	0.18783741	3.0195901	21	—	—
152781 1999 RH_{190}	14.9	X	357.17103	202.51777	198.06972	12.29658	0.1877418	0.18492613	3.0511990	21	12 11.8	18.5
152782 1999 RG_{200}	14.6	X	96.90159	143.70301	233.49526	12.57528	0.1065355	0.19499817	2.9452061	21	—	—
152783 1999 RZ_{223}	15.2	X	312.29298	76.33498	215.82294	8.94158	0.1402922	0.21384449	2.7695168	21	4 23.8	18.8
152784 1999 RW_{232}	15.1	X	309.19632	318.23543	7.96794	7.60680	0.1185342	0.21872411	2.7281711	21	6 6.8	18.6
152785 1999 RG_{249}	14.8	X	40.42087	258.01187	164.64527	10.32435	0.0921221	0.19273874	2.9681786	21	—	—
152786 1999 TS	15.2	X	258.46554	133.80411	202.02101	8.56098	0.1697742	0.21042994	2.7993961	21	4 11.2	19.5
152787 1999 TB_{10}	18.6	X	128.99539	137.36063	1.90910	15.95237	0.2315608	0.61927117	1.3631662	21	7 16.4	19.9
152788 1999 TS_{28}	15.2	X	53.71469	191.02368	191.58549	7.63639	0.2045733	0.18877997	3.0095307	21	—	—
152789 1999 TA_{38}	15.6	X	292.79466	290.18514	100.37463	2.02872	0.2176287	0.17364014	3.1820180	21	7 25.5	19.6
152790 1999 TR_{43}	15.8	X	246.44505	47.14807	205.70894	1.42554	0.0269514	0.19904583	2.9051417	21	1 1.5	19.9
152791 1999 TC_{57}	15.5	X	162.36942	323.49205	40.53761	2.69850	0.0628382	0.19920662	2.9035783	21	2 12.7	19.8
152792 1999 TS_{60}	16.1	X	305.33137	74.02327	197.17849	8.14268	0.1651791	0.21108870	2.7935689	21	3 12.9	20.0
152793 1999 TP_{82}	15.1	X	208.57942	47.81676	187.44385	11.13601	0.1049424	0.19139411	2.9820643	21	—	—
152794 1999 TL_{85}	15.1	X	341.77103	202.79005	216.89977	9.73874	0.1003853	0.18085434	3.0968256	21	12 3.6	18.9
152795 1999 TW_{113}	15.4	X	315.61654	98.56602	203.14191	8.74176	0.1656518	0.21462181	2.7628256	21	5 8.9	18.7
152796 1999 TB_{115}	15.5	X	25.72796	49.79025	319.12550	5.25319	0.1744504	0.18393015	3.0622039	21	12 15.1	19.4
152797 1999 TG_{121}	14.8	X	74.28185	201.47918	177.45708	9.11468	0.1007633	0.19091162	2.9870865	21	—	—
152798 1999 TP_{125}	14.7	X	253.27065	124.76495	5.69236	23.35962	0.1815614	0.18060225	3.0997068	21	10 10.6	19.4
152799 1999 TC_{134}	15.2	X	151.76298	293.43437	11.20026	10.64638	0.0897256	0.19247855	2.9708530	21	—	—
152800 1999 TG_{136}	15.1	X	74.56093	115.50922	217.50618	4.41150	0.1693641	0.18621096	3.0371475	21	12 29.3	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152801 1999 TQ_{143}	14.9	X	17.94283	16.57763	357.32505	11.68147	0.0801408	0.18338115	3.0683124	21	11 24.6	19.1
152802 1999 TC_{163}	15.3	X	22.27644	289.31465	92.65492	3.29178	0.0850246	0.18407142	3.0606369	21	12 14.5	19.2
152803 1999 TN_{166}	15.2	X	6.68239	58.54083	336.59966	10.57904	0.1461271	0.18370298	3.0647278	21	12 15.3	19.1
152804 1999 TZ_{178}	15.5	X	313.84815	67.94448	296.45505	4.32849	0.1647569	0.17299283	3.1899507	21	7 31.1	19.4
152805 1999 TL_{180}	15.1	X	254.36380	183.77092	241.82604	2.92532	0.1623360	0.17038231	3.2224515	21	7 29.3	19.9
152806 1999 TW_{185}	15.2	X	291.03838	55.86177	357.53394	24.97542	0.2432598	0.17389131	3.1789531	21	8 27.1	19.6
152807 1999 TT_{190}	15.2	X	30.38221	94.70707	301.94990	9.58710	0.0823215	0.18598619	3.0395940	21	—	—
152808 1999 TG_{195}	14.8	X	51.61675	113.84169	259.20727	9.55772	0.0662505	0.18523445	3.0478123	21	—	—
152809 1999 TU_{197}	14.5	X	165.29320	55.28230	255.78536	13.34639	0.1332834	0.19216842	2.9740484	21	—	—
152810 1999 TJ_{241}	14.9	X	336.01285	227.81603	170.49465	12.07725	0.1135602	0.17902833	3.1178475	21	10 30.3	18.8
152811 1999 TR_{241}	15.2	X	311.26576	233.07285	78.62476	8.95733	0.2308996	0.21406093	2.7676496	21	5 6.7	18.6
152812 1999 TC_{244}	14.9	X	35.33688	348.77358	11.71437	15.56370	0.1427794	0.18485950	3.0519321	21	12 11.3	19.3
152813 1999 TK_{257}	15.6	X	197.20436	302.26985	57.32232	2.96183	0.0650278	0.20464083	2.8519453	21	3 16.7	19.9
152814 1999 TW_{260}	15.3	X	157.10478	102.40545	214.52803	3.40983	0.1135982	0.19382747	2.9570534	21	—	—
152815 1999 TC_{270}	15.3	X	147.37497	42.31212	300.79791	8.80146	0.1052516	0.19607456	2.9344174	21	1 6.8	19.5
152816 1999 TA_{283}	15.3	X	212.46523	280.63232	65.00233	2.99382	0.0775540	0.20403490	2.8575889	21	3 15.9	19.7
152817 1999 TO_{301}	15.7	X	209.34713	340.00970	253.80303	0.88563	0.0512191	0.18749797	3.0232333	21	—	—
152818 1999 UK_{4}	15.4	X	16.08749	29.13905	349.16884	4.00835	0.1056002	0.18154550	3.0889607	21	12 2.6	19.3
152819 1999 UY_{11}	16.0	X	194.10188	162.12757	62.26399	1.84653	0.0084511	0.18389006	3.0626490	21	12 20.8	20.4
152820 1999 UF_{19}	15.5	X	176.49676	216.50894	66.48774	0.72321	0.0590575	0.19099743	2.9861918	21	—	—
152821 1999 UJ_{29}	16.1	X	357.07241	311.87205	93.77190	2.62390	0.0928203	0.18390166	3.0625201	21	12 9.1	20.0
152822 1999 UM_{39}	15.1	X	22.41592	234.25845	32.75179	14.04843	0.1698469	0.21785869	2.7353912	21	8 4.2	18.3
152823 1999 UK_{41}	15.1	X	157.10737	25.51247	265.52129	3.52186	0.0720246	0.19048989	2.9914938	21	—	—
152824 1999 UU_{43}	14.8	X	294.72338	58.08471	43.63102	11.36298	0.0706103	0.18146167	3.0899120	21	11 16.9	18.9
152825 1999 UE_{49}	15.4	X	82.64752	353.21464	17.35981	14.42935	0.1121114	0.18963300	3.0004987	21	—	—
152826 1999 UU_{56}	14.9	X	210.02958	255.02144	203.96596	9.92518	0.0834969	0.16892107	3.2410085	21	7 29.1	20.0
152827 1999 VA_{24}	16.8	X	265.52823	132.01837	256.89322	4.21262	0.1196538	0.30528166	2.1844171	21	7 1.9	19.4
152828 1999 VT_{25}	21.1	X	29.75336	319.15347	221.98683	5.14873	0.5231639	0.78671157	1.1621415	21	—	—
152829 1999 VQ_{33}	15.7	X	344.57654	35.02913	0.91897	0.73222	0.1804614	0.17750740	3.1356319	21	11 8.6	19.1
152830 1999 VD_{57}	17.2	X	203.18819	66.53925	21.39266	2.09360	0.1129322	0.30380992	2.1914661	21	7 10.6	20.2
152831 1999 VJ_{57}	15.6	X	266.96849	219.74950	202.22155	1.51543	0.1666033	0.17102644	3.2143552	21	8 8.0	20.2
152832 1999 VV_{60}	15.5	X	30.53106	172.47277	167.63754	1.50721	0.2742101	0.18104486	3.0946527	21	11 30.9	19.4
152833 1999 VT_{64}	14.6	X	238.13925	80.58630	46.76432	18.88833	0.1446490	0.17507647	3.1645906	21	10 6.9	19.5
152834 1999 VL_{71}	14.9	X	122.17515	299.06022	48.63878	11.89601	0.1253465	0.19182492	2.9775977	21	—	—
152835 1999 VD_{74}	16.6	X	192.39070	197.13726	252.54814	0.48383	0.2439997	0.16426779	3.3019294	21	6 28.6	22.3
152836 1999 VS_{77}	15.3	X	97.38984	81.52783	285.32827	2.49382	0.1105442	0.18979135	2.9988295	21	—	—
152837 1999 VL_{95}	15.2	X	122.54599	315.01186	37.12963	10.11938	0.0927883	0.19328116	2.9626228	21	—	—
152838 1999 VG_{100}	15.6	X	81.80031	312.56580	26.52641	1.20162	0.1954395	0.18566471	3.0431018	21	—	—
152839 1999 VQ_{102}	15.9	X	331.35036	350.31718	19.04573	0.66941	0.1505590	0.17416988	3.1755626	21	9 8.9	19.5
152840 1999 VD_{103}	15.9	X	316.99199	349.42670	47.82388	0.29733	0.1612053	0.17471552	3.1689476	21	9 19.8	19.6
152841 1999 VF_{107}	17.6	X	299.89335	13.89297	51.93794	1.98695	0.0647178	0.31229485	2.1515899	21	11 3.2	19.3
152842 1999 VS_{107}	15.5	X	270.71448	17.98599	80.46624	2.15803	0.1328265	0.17494921	3.1661250	21	10 4.2	19.7
152843 1999 VR_{121}	15.1	X	225.89228	209.75094	37.25499	9.65545	0.0561960	0.19201730	2.9756087	21	—	—
152844 1999 VY_{144}	15.0	X	79.93823	354.72914	17.15561	9.94469	0.0875575	0.18853715	3.0121142	21	—	—
152845 1999 VX_{146}	16.3	X	18.53701	270.65646	84.48759	0.37833	0.1868021	0.17959078	3.1113344	21	11 17.9	20.0
152846 1999 VO_{156}	15.8	X	21.62874	304.56365	59.48367	1.28698	0.1035093	0.17923884	3.1154059	21	11 22.7	19.6
152847 1999 VZ_{156}	15.6	X	303.88545	13.39228	52.66310	1.82535	0.1546732	0.17435165	3.1733552	21	10 7.0	19.4
152848 1999 VU_{164}	14.3	X	232.94210	129.97342	50.18969	27.78380	0.1965632	0.18033721	3.1027431	21	11 18.0	19.1
152849 1999 VR_{170}	17.3	X	308.48378	87.94628	282.86508	3.20478	0.1527893	0.30725509	2.1750537	21	8 8.8	19.0
152850 1999 VG_{183}	17.1	X	308.29911	149.28121	237.68601	4.30943	0.0917769	0.30841737	2.1695858	21	9 11.8	19.2
152851 1999 VE_{187}	15.4	X	114.50591	277.86107	107.07141	3.08549	0.1182595	0.19432486	2.9520054	21	1 21.3	19.5
152852 1999 VU_{198}	14.9	X	244.15193	258.54065	188.10816	14.75396	0.2070411	0.16960956	3.2322318	21	8 6.2	20.2
152853 1999 VM_{199}	14.9	X	250.49864	356.98162	111.34250	16.41251	0.2090690	0.17282735	3.1919866	21	9 17.1	20.0
152854 1999 VD_{213}	16.1	X	220.82060	36.68313	71.64862	2.28909	0.1125667	0.16856471	3.2455747	21	8 22.4	21.1
152855 1999 VV_{215}	15.1	X	13.05091	356.03366	7.63519	11.04963	0.1088485	0.17946313	3.1128096	21	11 7.1	19.2
152856 1999 WF_{12}	14.7	X	104.81760	239.05595	80.43519	10.12714	0.1425698	0.18320456	3.0702839	21	—	—
152857 1999 XD_{27}	15.1	X	6.73297	214.39409	141.36773	1.79792	0.2481312	0.17833225	3.1259555	21	11 6.1	18.2
152858 1999 XN_{35}	15.5	X	234.03230	307.45999	54.90598	23.29166	0.3249557	0.29619428	2.2288710	21	4 16.7	19.8
152859 1999 XC_{41}	16.5	X	257.93699	172.29306	243.84388	5.94733	0.0649724	0.30634218	2.1793728	21	8 7.8	19.1
152860 1999 XV_{49}	15.1	X	44.54122	288.43406	48.35930	2.94794	0.1844276	0.17961846	3.1110148	21	12 1.4	19.4
152861 1999 XO_{50}	15.3	X	279.36523	223.74271	221.13585	4.55400	0.0929828	0.17451501	3.1713745	21	10 2.0	19.7
152862 1999 XQ_{64}	14.7	X	162.33735	140.47559	72.75303	16.82135	0.0397189	0.17559620	3.1583431	21	11 3.6	19.5
152863 1999 XZ_{114}	15.0	X	337.77062	7.79474	13.47576	16.31610	0.3214570	0.17653127	3.1471803	21	10 2.1	17.4
152864 1999 XT_{143}	16.7	X	268.11646	257.16318	100.48404	2.74146	0.3612359	0.30032252	2.2083985	21	4 24.8	20.4
152865 1999 XW_{144}	15.6	X	55.44753	253.14388	168.52787	1.41787	0.0564716	0.19057206	2.9906337	21	—	—
152866 1999 XP_{216}	17.3	X	309.62679	305.74598	103.69550	1.96531	0.0685645	0.30787248	2.1721449	21	10 25.6	19.2
152867 1999 XT_{223}	17.0	X	194.01619	322.17862	100.25532	6.41824	0.0941102	0.29501794	2.2347919	21	5 26.6	20.0
152868 1999 XH_{251}	17.0	X	276.37852	256.32235	103.64998	7.31590	0.2381413	0.30011669	2.2094082	21	5 19.8	20.0
152869 1999 XM_{254}	17.5	X	166.22970	325.87228	117.24525	0.43063	0.1266735	0.29379729	2.2409777	21	5 23.8	20.7
152870 1999 YK_{8}	17.9	X	234.93289	8.31040	34.91655	0.64110	0.2197741	0.29932497	2.2133024	21	6 4.8	21.4
152871 1999 YC_{22}	17.1	X	257.77208	343.59956	93.22403	4.22208	0.0765545	0.30653270	2.1784696	21	9 11.2	19.5
152872 2000 AF_{27}	16.6	X	265.46486	34.73846	27.64371	2.00587	0.0977808	0.30417829	2.1896964	21	8 26.7	18.8
152873 2000 AG_{36}	16.8	X	145.61243	174.43521	286.70410	6.84373	0.1491290	0.29352631	2.2423567	21	5 26.8	20.0
152874 2000 AQ_{45}	17.0	X	272.22455	146.57925	268.59310	3.28412	0.1654763	0.30575358	2.1821688	21	8 11.8	19.5
152875 2000 AX_{49}	16.8	X	138.50951	107.91510	94.06313	2.51693	0.0856028	0.30428545	2.1891823	21	10 4.9	19.6
152876 2000 AZ_{82}	14.9	X	336.09395	203.97824	204.27597	3.17684	0.1664836	0.17464605	3.1697879	21	11 8.5	18.4
152877 2000 AY_{126}	16.6	X	260.57827	277.18885	155.19537	2.73194	0.1302640	0.30304306	2.1951615	21	8 27.6	18.9
152878 2000 AT_{140}	16.5	X	258.33806	256.38467	132.75184	8.90200	0.1623265	0.30066716	2.2067106	21	6 17.4	19.5
152879 2000 AV_{160}	16.9	X	136.08280	188.78385	328.16546	4.93531	0.1210533	0.29668952	2.2263900	21	8 1.1	20.0
152880 2000 AX_{211}	16.6	X	202.98738	201.49600	159.02283	2.88391	0.2500531	0.28590988	2.2820051	21	3 16.1	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152881 2000 AY_{257}	16.5	X	93.32847	39.57705	149.25589	6.15240	0.0614719	0.29432223	2.2383123	21	7 13.7	19.2
152882 2000 BR_{2}	15.4	X	12.21975	145.33469	309.56334	24.54926	0.1810400	0.27688233	2.3313415	21	—	—
152883 2000 BD_{20}	16.6	X	77.26772	132.63390	135.54888	7.79238	0.1117692	0.30190373	2.2006808	21	10 27.3	19.5
152884 2000 BS_{47}	17.1	X	312.60670	216.74442	126.61075	1.29548	0.2050355	0.29953381	2.2122735	21	6 22.4	19.0
152885 2000 CG_{15}	16.4	X	273.94448	221.38781	141.71803	7.09882	0.1976849	0.29698876	2.2248942	21	5 26.9	19.4
152886 2000 CW_{16}	16.2	X	83.42409	335.98192	260.08407	4.72928	0.1503063	0.29801525	2.2197823	21	9 18.6	19.2
152887 2000 CX_{20}	16.8	X	92.26150	198.21983	298.07591	5.20471	0.0898063	0.28815587	2.2701318	21	4 27.6	19.4
152888 2000 CA_{42}	16.9	X	142.24044	154.26315	265.11575	2.24403	0.1523659	0.28686996	2.2769107	21	3 27.6	19.9
152889 2000 CF_{59}	16.5	X	349.55516	222.43357	141.77384	41.56426	0.6408701	0.45292680	1.6792578	21	—	—
152890 2000 CU_{67}	17.1	X	199.52656	254.61926	154.08344	1.73209	0.1497874	0.29304386	2.2448171	21	5 12.9	20.5
152891 2000 CA_{79}	17.1	X	101.64793	64.39293	312.65827	5.06034	0.1503053	0.27500088	2.3419628	21	—	—
152892 2000 CD_{98}	16.3	X	38.13590	301.91379	317.64042	4.69135	0.1450910	0.29472463	2.2362744	21	8 17.8	18.2
152893 2000 CQ_{98}	16.6	X	180.49596	73.33587	314.51538	4.47751	0.1660821	0.28735922	2.2743255	21	3 26.1	20.2
152894 2000 CJ_{99}	17.0	X	216.00306	6.95881	359.85614	0.64495	0.2179625	0.28904896	2.2654532	21	4 2.5	20.7
152895 2000 CQ_{101}	18.1	X	35.07244	173.94923	29.84084	2.97052	0.4911168	0.28400558	2.2921945	21	7 23.5	19.3
152896 2000 CG_{149}	16.4	X	59.03064	281.53015	233.72050	5.80809	0.1085352	0.28390579	2.2927316	21	4 4.4	18.7
152897 2000 DO_{4}	16.7	X	126.06902	22.84333	109.80720	7.22195	0.0486309	0.29121521	2.2542047	21	6 6.7	19.4
152898 2000 DC_{12}	17.0	X	339.59762	326.80443	171.01778	5.08789	0.1105977	0.27058410	2.3673794	21	—	—
152899 2000 DR_{17}	15.8	X	143.20146	72.33801	343.46861	23.53846	0.1918759	0.28399274	2.2922636	21	3 22.2	19.3
152900 2000 DC_{27}	14.4	X	273.96609	239.31364	248.39058	1.77942	0.1566249	0.12601778	3.9401689	21	11 1.1	19.9
152901 2000 DR_{31}	17.3	X	51.38025	302.43743	199.05697	2.07321	0.0978382	0.28228497	2.3014995	21	2 28.9	19.4
152902 2000 DC_{32}	16.8	X	327.10369	63.20383	175.12048	6.10919	0.1416783	0.28137585	2.3064542	21	2 18.9	19.4
152903 2000 DP_{46}	17.1	X	62.67772	324.95672	262.05139	1.01127	0.0932325	0.29245516	2.2478286	21	7 30.7	19.5
152904 2000 DW_{52}	17.1	X	319.44094	40.87009	165.19718	4.82123	0.1804099	0.27587001	2.3370413	21	—	—
152905 2000 DW_{60}	16.1	X	296.01119	341.28016	355.24269	6.00230	0.1608111	0.29100060	2.2553129	21	5 20.6	18.8
152906 2000 DN_{64}	16.6	X	96.94882	138.59461	331.87669	3.71664	0.1902312	0.28487886	2.2875077	21	4 15.0	19.3
152907 2000 DP_{65}	17.0	X	125.91234	74.59753	339.01975	6.73307	0.1003324	0.28098702	2.3085815	21	2 22.8	19.8
152908 2000 DH_{70}	16.4	X	71.39999	18.89535	158.92026	5.89837	0.0437862	0.28766027	2.2727385	21	5 23.9	19.0
152909 2000 DW_{72}	16.6	X	40.44362	182.87206	1.67493	4.14877	0.0793125	0.28411045	2.2916304	21	4 13.9	18.9
152910 2000 DS_{74}	16.5	X	48.54666	44.60997	184.86078	5.59305	0.0949626	0.28982409	2.2614122	21	7 10.2	18.9
152911 2000 DY_{78}	16.7	X	97.14870	171.31382	332.93264	5.27809	0.0860582	0.28689186	2.2767949	21	5 16.8	19.4
152912 2000 DQ_{86}	16.6	X	337.19154	277.66890	336.85863	7.16575	0.0938719	0.28627425	2.2800683	21	4 4.5	19.2
152913 2000 DX_{100}	16.2	X	346.46806	359.33542	37.33152	4.74869	0.1509259	0.30774721	2.1727344	21	12 18.5	18.0
152914 2000 DK_{103}	16.8	X	55.80836	52.14717	49.35730	5.59341	0.1361391	0.27828889	2.3234793	21	1 12.4	18.8
152915 2000 DA_{114}	16.6	X	71.90852	107.77082	337.68218	9.26015	0.0316448	0.27688820	2.3313085	21	1 12.7	19.4
152916 2000 EL_{4}	17.4	X	145.05695	297.03143	160.20815	2.58969	0.1056085	0.29009927	2.2599819	21	5 18.4	20.3
152917 2000 EM_{4}	17.0	X	33.67196	30.11782	150.44456	2.72564	0.0959966	0.28438700	2.2901445	21	3 29.1	18.9
152918 2000 EN_{21}	16.8	X	60.22815	323.32900	143.71391	23.50459	0.1743832	0.27996843	2.3141776	21	1 30.5	18.7
152919 2000 EU_{21}	15.9	X	1.37200	118.09153	150.12106	21.06886	0.2374091	0.28833133	2.2692107	21	6 13.9	17.9
152920 2000 EG_{29}	16.7	X	132.43031	329.86268	100.69459	5.17498	0.1687176	0.28694528	2.2765122	21	4 6.6	19.8
152921 2000 EK_{32}	16.1	X	20.83018	277.66952	2.16871	4.45562	0.1375693	0.29342849	2.2428550	21	8 17.7	17.9
152922 2000 EC_{51}	16.7	X	180.34023	65.67800	328.67178	4.04993	0.2437728	0.28663727	2.2781428	21	4 6.9	20.5
152923 2000 EC_{60}	16.9	X	72.25487	336.27345	175.17140	1.13717	0.1060123	0.28412217	2.2915674	21	4 24.1	19.3
152924 2000 EM_{65}	16.8	X	270.65825	229.00377	355.86566	5.12797	0.1323363	0.27025230	2.3693167	21	—	—
152925 2000 EB_{67}	16.9	X	268.91832	57.95078	188.34491	5.25427	0.1892800	0.27161015	2.3614135	21	—	—
152926 2000 EJ_{76}	16.5	X	106.29295	104.62857	47.55397	6.17248	0.0828830	0.29001221	2.2604342	21	6 11.4	19.3
152927 2000 EG_{77}	16.3	X	334.19951	187.06289	73.35550	5.24043	0.1501848	0.28469572	2.2884886	21	4 5.7	18.7
152928 2000 EG_{91}	16.7	X	323.41950	343.54139	214.69392	4.91106	0.1831507	0.27457075	2.3444080	21	—	—
152929 2000 EZ_{92}	16.5	X	77.71269	266.54571	257.82250	2.85295	0.1514502	0.28615087	2.2807237	21	5 30.3	18.8
152930 2000 EB_{102}	16.8	X	308.08911	308.73459	343.36211	5.25007	0.1691964	0.28375601	2.2935383	21	4 2.9	19.6
152931 2000 EA_{107}	16.2	X	98.03094	278.02404	52.88949	28.57842	0.4557742	1.09933156	0.9297872	21	—	—
152932 2000 EM_{128}	16.8	X	260.70370	157.35200	97.71446	3.47161	0.1647291	0.27252206	2.3561428	21	—	—
152933 2000 EO_{131}	15.8	X	329.68731	310.11763	353.49923	6.21596	0.1141832	0.28874245	2.2670562	21	6 5.7	18.0
152934 2000 EO_{133}	17.4	X	340.71432	186.79084	1.63056	2.37052	0.1657469	0.27573915	2.3377807	21	—	—
152935 2000 EZ_{134}	17.2	X	340.77055	166.97717	43.09476	7.04337	0.1895805	0.27731020	2.3289428	21	1 27.5	19.8
152936 2000 EP_{135}	15.7	X	309.58211	179.42533	127.46219	5.01071	0.1541535	0.28507441	2.2864615	21	5 3.3	18.3
152937 2000 EO_{142}	16.6	X	263.52577	34.82891	341.55568	4.80224	0.1611954	0.29524747	2.2336335	21	6 4.3	19.7
152938 2000 EU_{193}	16.7	X	288.36773	49.67306	182.86364	5.83408	0.0958241	0.27467037	2.3438411	21	1 1.6	20.0
152939 2000 FY_{4}	17.3	X	26.22134	100.86108	18.06089	2.58252	0.1495229	0.27404775	2.3473898	21	—	—
152940 2000 FU_{5}	16.4	X	334.47545	159.15750	11.94500	6.57141	0.0534604	0.27206687	2.3587701	21	—	—
152941 2000 FM_{10}	17.6	X	145.71047	343.94653	18.53850	8.73510	0.6808083	0.54680917	1.4810812	21	2 19.3	18.9
152942 2000 FN_{10}	16.7	X	297.66551	235.42901	8.17990	27.07614	0.4559376	0.36503661	1.9390028	21	—	—
152943 2000 FY_{10}	16.0	X	29.68801	147.40702	34.89029	27.86798	0.1434455	0.28368705	2.2939100	21	4 5.6	18.3
152944 2000 FD_{25}	15.8	X	0.27971	96.76044	179.69998	20.76100	0.1577237	0.28672432	2.2776817	21	6 23.7	18.3
152945 2000 FR_{25}	15.5	X	247.18465	291.88887	25.99850	12.84587	0.2088848	0.27727970	2.3291136	21	3 5.9	19.4
152946 2000 FG_{28}	16.9	X	2.50733	43.10402	209.29768	5.58399	0.0783341	0.28511040	2.2862691	21	5 22.4	19.1
152947 2000 FE_{30}	16.6	X	304.69925	239.38325	24.06265	7.73870	0.1010937	0.27870137	2.3211862	21	3 5.9	19.6
152948 2000 FP_{32}	16.9	X	79.74676	82.44434	50.68562	2.59747	0.2790470	0.28431450	2.2905338	21	5 9.7	19.1
152949 2000 FG_{58}	16.5	X	285.92473	222.83934	41.05592	7.75845	0.1860641	0.27612530	2.3356006	21	2 1.7	20.1
152950 2000 FQ_{64}	16.3	X	300.95298	263.03113	303.01398	5.00157	0.1205930	0.27152532	2.3619053	21	—	—
152951 2000 FJ_{71}	17.1	X	222.05919	252.62681	24.95725	0.70162	0.0170591	0.27100523	2.3649263	21	—	—
152952 2000 GC_{2}	17.6	X	298.00402	280.24456	358.69080	55.29656	0.1870042	0.60563261	1.3835554	21	3 5.9	20.3
152953 2000 GT_{21}	16.1	X	146.12135	130.54309	22.14367	1.60608	0.1488034	0.24650163	2.5191625	21	8 6.1	19.9
152954 2000 GN_{27}	16.3	X	261.28017	233.59599	25.20685	4.53350	0.1633127	0.27154153	2.3618113	21	1 2.9	20.0
152955 2000 GM_{35}	16.5	X	282.65897	226.96617	12.85617	6.26395	0.1988908	0.27173589	2.3606850	21	—	—
152956 2000 GM_{37}	16.8	X	344.83200	294.01634	202.46005	6.98118	0.0534049	0.26910248	2.3760610	21	—	—
152957 2000 GD_{42}	17.1	X	321.26036	307.24972	301.64936	1.12463	0.1988282	0.27758295	2.3274169	21	2 17.7	19.8
152958 2000 GX_{47}	17.1	X	309.49407	177.10695	32.57413	1.61565	0.1227189	0.27260859	2.3556442	21	—	—
152959 2000 GJ_{50}	17.2	X	57.86277	129.87082	35.68588	3.01137	0.1616779	0.28253135	2.3001613	21	4 28.2	19.0
152960 2000 GA_{52}	16.5	X	17.67574	130.41652	47.05317	2.95704	0.1513729	0.27826687	2.3236018	21	2 20.4	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
152961 2000 GH_{60}	16.8	X	355.66981	113.25205	24.75503	2.97862	0.0883896	0.27022062	2.3695019	21	—	—
152962 2000 GZ_{67}	16.9	X	272.52952	62.09662	185.33823	3.98634	0.1874427	0.27058500	2.3673742	21	—	—
152963 2000 GF_{68}	17.0	X	265.26683	210.58137	46.71688	4.42234	0.1710062	0.27075312	2.3663941	21	1 4.3	20.8
152964 2000 GP_{82}	17.7	X	25.67335	333.09102	114.87567	13.23014	0.3932445	0.59722770	1.3965058	21	—	—
152965 2000 GW_{86}	16.7	X	303.58889	123.15505	137.42561	5.74185	0.2115207	0.27685155	2.3315143	21	2 10.3	19.9
152966 2000 GK_{104}	15.5	X	238.84651	254.27904	47.54543	6.31077	0.2318856	0.27219287	2.3580421	21	2 4.1	19.6
152967 2000 GV_{105}	15.8	X	254.31222	242.43425	8.59863	9.96652	0.2073299	0.26874699	2.3781558	21	—	—
152968 2000 GX_{116}	16.7	X	279.17539	26.62877	262.39283	0.91803	0.2108770	0.27863241	2.3215692	21	2 20.5	20.2
152969 2000 GC_{117}	17.1	X	287.03203	247.55980	341.68378	1.86867	0.1623447	0.27304506	2.3531332	21	—	—
152970 2000 GB_{120}	17.4	X	271.92091	81.24241	196.00535	1.96070	0.1739882	0.27506832	2.3415800	21	2 2.3	21.0
152971 2000 GU_{120}	16.8	X	131.37705	318.50684	36.34773	2.74192	0.1943140	0.26817851	2.3815154	21	—	—
152972 2000 GD_{121}	16.6	X	56.85206	7.85420	14.61229	5.02994	0.1583353	0.26347714	2.4097617	21	—	—
152973 2000 GV_{121}	16.7	X	232.33493	144.69325	113.21887	6.05335	0.2063278	0.26543536	2.3978952	21	—	—
152974 2000 GZ_{122}	16.2	X	333.81072	40.05350	202.64082	22.09278	0.1904309	0.27761605	2.3272320	21	2 23.6	19.4
152975 2000 GM_{135}	16.3	X	298.95624	168.87025	88.56141	7.40332	0.1013178	0.27626297	2.3348246	21	2 18.4	19.3
152976 2000 GK_{140}	16.4	X	252.30481	137.56055	138.35068	3.22711	0.1602127	0.27168615	2.3609732	21	1 15.0	20.2
152977 2000 GJ_{141}	16.3	X	0.55329	63.79136	158.80322	10.20070	0.0935442	0.28069129	2.3102027	21	4 4.0	18.6
152978 2000 GJ_{147}	19.6	X	270.07561	240.80791	57.85802	25.00601	0.2366933	0.78660423	1.1622473	21	—	—
152979 2000 GR_{148}	17.4	X	43.59272	18.06961	127.49125	0.72022	0.0832967	0.27986917	2.3147247	21	2 21.9	19.7
152980 2000 GP_{150}	16.8	X	172.15201	167.96647	175.01588	1.18060	0.1917521	0.27120887	2.3637423	21	1 26.4	20.2
152981 2000 GM_{156}	16.9	X	310.75654	62.59513	204.32529	3.05667	0.0537212	0.28006979	2.3136192	21	3 22.6	19.6
152982 2000 GM_{158}	16.6	X	358.28232	174.98604	25.58922	6.31719	0.1008467	0.27929090	2.3179187	21	2 25.7	19.0
152983 2000 GB_{162}	16.6	X	325.82902	148.51363	72.92571	7.59083	0.1436077	0.27538817	2.3397666	21	1 28.9	19.5
152984 2000 GJ_{162}	16.3	X	64.13261	87.50341	57.56656	3.69756	0.0861254	0.28242156	2.3007573	21	3 30.4	18.5
152985 Kenkellermann	16.4	X	156.70373	197.77046	179.25803	6.47988	0.1259002	0.27739387	2.3284744	21	2 14.2	19.7
152986 2000 HS_{3}	17.1	X	23.63430	289.52867	206.25993	0.39082	0.0999298	0.27441432	2.3452989	21	1 4.3	19.5
152987 2000 HM_{14}	15.5	X	290.75575	236.83055	43.56971	23.51349	0.2319141	0.27566550	2.3381970	21	3 6.2	19.5
152988 2000 HH_{22}	16.4	X	211.81139	289.90438	27.77733	3.84351	0.2419260	0.26982149	2.3718380	21	2 1.7	20.5
152989 2000 HO_{23}	16.2	X	209.99040	244.26164	65.80731	6.23042	0.1371853	0.26979793	2.3719761	21	1 19.7	19.8
152990 2000 HB_{26}	16.6	X	9.73912	116.56567	73.18244	5.14507	0.1026792	0.27720231	2.3295471	21	3 2.0	18.9
152991 2000 HV_{37}	16.3	X	284.47992	150.32664	130.16423	10.24493	0.1938387	0.27457226	2.3443995	21	2 18.9	19.7
152992 2000 HD_{38}	17.2	X	67.26521	292.91621	196.36412	2.88946	0.1840578	0.28037459	2.3119421	21	3 23.8	19.1
152993 2000 HH_{44}	16.3	X	217.90659	188.75419	99.55033	4.27247	0.1648131	0.26813665	2.3817633	21	—	—
152994 2000 HX_{44}	16.3	X	329.06514	194.25917	60.29133	7.55024	0.1062557	0.27962802	2.3160553	21	3 28.7	18.9
152995 2000 HW_{53}	16.3	X	248.48208	94.46908	204.19303	4.47694	0.1837340	0.27141305	2.3625566	21	2 6.2	20.0
152996 2000 HM_{60}	16.0	X	192.36095	277.52712	37.55609	6.87139	0.1197393	0.26840470	2.3801773	21	1 7.8	19.5
152997 2000 HH_{71}	16.6	X	332.87747	95.40265	133.53893	2.84747	0.1731388	0.27665610	2.3326122	21	2 11.5	19.2
152998 2000 HG_{79}	16.1	X	304.27487	189.96947	64.17827	23.16584	0.1656673	0.27708715	2.3301925	21	2 19.2	19.8
152999 2000 HW_{85}	16.1	X	266.18112	121.23601	100.70240	4.93461	0.1372472	0.26684875	2.3894206	21	—	—
153000 2000 HP_{86}	16.5	X	200.87377	196.14090	104.28557	2.49416	0.1841972	0.26609939	2.3939044	21	—	—
153001 2000 JM_{4}	16.3	X	221.58367	257.79964	54.69010	3.28340	0.1863969	0.27034214	2.3687918	21	2 2.6	20.2
153002 2000 JG_{5}	18.2	X	265.57725	233.44962	213.05259	31.42528	0.7958567	0.63494424	1.3406405	21	6 30.6	21.5
153003 2000 JH_{30}	16.5	X	335.68149	239.37185	36.51499	7.83120	0.1551311	0.28099425	2.3085419	21	4 28.9	18.5
153004 2000 JU_{30}	16.4	X	347.67512	225.22122	30.01343	10.28720	0.2131472	0.28016703	2.3130838	21	4 12.3	18.2
153005 2000 JA_{31}	15.4	X	196.73015	308.56872	24.52874	7.80935	0.1345714	0.26969542	2.3725771	21	2 6.4	19.1
153006 2000 JQ_{35}	16.1	X	261.71887	267.00267	41.16633	5.43253	0.2375036	0.27353504	2.3503222	21	3 1.9	19.9
153007 2000 JU_{35}	16.5	X	121.58969	261.45901	32.11672	2.62507	0.1649904	0.25481933	2.4640403	21	—	—
153008 2000 JA_{44}	16.2	X	271.51168	217.18526	58.17672	12.71577	0.2214964	0.27131251	2.3631403	21	1 31.9	20.2
153009 2000 JM_{52}	15.6	X	197.10078	267.76220	36.34700	12.40435	0.2678808	0.26387361	2.4073473	21	1 7.3	20.0
153010 2000 JZ_{55}	16.5	X	255.20897	64.03893	212.70568	5.75498	0.1934852	0.26959444	2.3731695	21	1 16.3	20.3
153011 2000 JN_{78}	17.0	X	54.55913	119.42396	111.43785	17.92934	0.2225133	0.42857151	1.7422903	21	9 3.0	18.7
153012 2000 JG_{87}	16.5	X	307.12882	162.78148	121.37629	2.52801	0.1989679	0.27957072	2.3163718	21	3 20.3	19.3
153013 2000 KO_{8}	16.5	X	239.43115	106.47352	222.14860	5.55832	0.1368530	0.27537209	2.3398576	21	3 8.1	20.0
153014 2000 KQ_{8}	17.0	X	138.62224	106.89107	193.25643	0.77880	0.1767550	0.25812906	2.4429324	21	—	—
153015 2000 KP_{27}	15.9	X	249.06400	218.26755	71.60431	8.68726	0.1657255	0.26973774	2.3723289	21	1 31.8	19.7
153016 2000 KM_{36}	17.1	X	219.30818	64.38081	169.37687	1.20875	0.1419440	0.26117110	2.4239257	21	—	—
153017 2000 KR_{38}	17.0	X	135.57140	77.06828	240.79302	0.57685	0.1955250	0.25944275	2.4346789	21	—	—
153018 2000 KN_{41}	16.6	X	292.44860	114.39001	142.61781	2.76504	0.1864218	0.27244563	2.3565834	21	1 28.1	19.8
153019 2000 KW_{41}	16.4	X	292.90242	119.17531	146.13312	6.17487	0.1663620	0.27333044	2.3514950	21	2 10.4	19.7
153020 2000 KF_{49}	17.0	X	188.57660	359.85907	301.21499	0.63856	0.1742839	0.26460234	2.4029253	21	—	—
153021 2000 KU_{57}	17.0	X	14.78502	51.45309	173.78341	3.45690	0.1588398	0.28140940	2.3062709	21	5 1.9	18.7
153022 2000 LV_{6}	16.7	X	294.64522	23.17098	182.87322	4.19017	0.0412758	0.26750289	2.3855237	21	—	—
153023 2000 LA_{32}	15.2	X	299.15976	284.03253	280.25998	20.28517	0.2703591	0.26560584	2.3968690	21	—	—
153024 2000 LQ_{36}	16.7	X	343.94595	76.79950	171.61430	2.35698	0.1959551	0.27828967	2.3234749	21	3 26.9	18.9
153025 2000 NK_{23}	15.8	X	313.04138	280.48292	46.71551	2.88714	0.2096860	0.23012504	2.6373036	21	5 30.9	18.8
153026 2000 NH_{25}	15.5	X	47.85173	220.34124	108.48606	6.14741	0.2168004	0.24369414	2.5384736	21	12 12.7	18.9
153027 2000 OP	16.4	X	226.29426	166.37028	102.34631	2.36625	0.2060409	0.26164585	2.4209927	21	—	—
153028 2000 OW_{7}	14.8	X	290.06803	84.26850	301.42270	15.05765	0.1460158	0.18586610	3.0409032	21	7 26.3	18.6
153029 2000 OT_{37}	15.0	X	1.53182	164.53699	210.25437	11.52676	0.1272658	0.24238908	2.5475772	21	11 23.4	17.8
153030 2000 PV_{1}	14.6	X	128.69352	106.09656	299.95719	7.16751	0.3490917	0.21435730	2.7650980	21	3 22.5	19.4
153031 2000 PM_{9}	15.0	X	29.38514	235.20531	69.58343	15.57540	0.2944916	0.23893345	2.5720816	21	11 2.8	18.1
153032 2000 PB_{15}	16.6	X	171.97063	196.90989	105.59159	3.55436	0.1833578	0.25761658	2.4461712	21	—	—
153033 2000 PC_{16}	16.2	X	94.17271	345.62822	270.49146	3.66894	0.1976804	0.24289472	2.5440404	21	10 27.3	20.2
153034 2000 PY_{17}	16.0	X	239.00671	13.55985	330.45690	7.81796	0.1700874	0.22266825	2.6958591	21	3 29.6	20.4
153035 2000 PR_{18}	16.3	X	79.74198	304.61913	356.70691	3.24208	0.1703948	0.24459643	2.5322270	21	12 6.2	20.1
153036 2000 PC_{24}	16.9	X	237.30985	145.86524	158.57252	1.50059	0.1834307	0.26490207	2.4011124	21	2 5.7	20.6
153037 2000 PZ_{25}	15.1	X	223.53738	141.29580	233.03544	13.43735	0.1849028	0.21933087	2.7231373	21	4 22.8	19.7
153038 2000 QT	15.4	X	275.26862	6.37529	334.63400	11.81197	0.1983376	0.22579428	2.6709193	21	4 25.4	19.7
153039 2000 QH_{4}	16.9	X	238.99392	102.93704	168.59117	2.41271	0.2233119	0.26139092	2.4225666	21	—	—
153040 2000 QX_{6}	16.9	X	244.08192	260.24351	147.69046	23.74588	0.0756318	0.37182935	1.9153153	21	7 8.6	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153041 2000 QZ_{10}	16.3	X	0.34546	346.32155	308.93487	5.15624	0.2297566	0.23410081	2.6073586	21	7 27.8	18.0
153042 2000 QP_{14}	15.7	X	46.25210	256.25953	115.19666	2.44786	0.1181054	0.24715206	2.5147408	21	—	—
153043 2000 QN_{25}	15.3	X	247.63624	194.94964	142.70814	19.14519	0.1912492	0.22172175	2.7035258	21	4 5.8	19.9
153044 2000 QG_{47}	16.2	X	13.24187	324.64481	353.95383	3.38383	0.2407931	0.23688981	2.5868533	21	10 7.9	18.5
153045 2000 QV_{53}	16.2	X	13.43559	192.89003	103.81973	2.88212	0.2980745	0.23530588	2.5984490	21	9 15.9	18.0
153046 2000 QE_{66}	15.1	X	168.56398	251.56920	125.64044	10.23648	0.2204688	0.21323633	2.7747802	21	3 17.7	19.9
153047 2000 QW_{68}	15.8	X	247.95104	161.16495	207.89396	3.14410	0.2746032	0.22386985	2.6862039	21	5 2.9	20.4
153048 2000 QN_{75}	16.8	X	71.02361	313.59729	1.00055	1.06913	0.2197132	0.24382104	2.5375928	21	12 19.1	20.7
153049 2000 QK_{77}	16.2	X	343.11539	347.55446	328.77943	3.26324	0.2121563	0.23200601	2.6230298	21	7 17.6	18.2
153050 2000 QL_{95}	15.4	X	127.95776	106.48373	328.38234	7.46569	0.1737428	0.21438871	2.7648279	21	4 8.6	19.6
153051 2000 QV_{95}	16.0	X	55.66319	144.57467	157.61335	2.70706	0.1921967	0.23928325	2.5695743	21	11 14.4	19.4
153052 2000 QO_{98}	15.4	X	68.87674	164.82803	159.13182	15.30817	0.1875497	0.24318875	2.5419893	21	12 25.5	19.5
153053 2000 QQ_{100}	15.8	X	11.71839	308.72785	35.51096	4.77270	0.1718634	0.23710829	2.5852640	21	11 1.7	18.6
153054 2000 QF_{117}	16.8	X	325.26143	332.19486	346.32378	19.01325	0.0466847	0.36897212	1.9251904	21	7 6.5	19.0
153055 2000 QZ_{125}	15.2	X	189.10309	178.93566	193.53978	7.61813	0.1055857	0.21628992	2.7486021	21	3 21.4	19.4
153056 2000 QN_{138}	15.8	X	202.33621	195.16567	170.22973	14.14434	0.2371679	0.21671727	2.7449874	21	3 27.9	20.6
153057 2000 QE_{146}	15.9	X	212.72869	301.11098	73.28817	4.36732	0.2634218	0.21886589	2.7269928	21	4 14.9	20.8
153058 2000 QA_{152}	15.9	X	358.05419	147.90580	183.43728	12.82844	0.1194516	0.23363880	2.6107948	21	9 10.9	18.8
153059 2000 QE_{158}	15.9	X	320.22322	179.82515	184.22924	17.32167	0.1260763	0.23387166	2.6090615	21	8 16.4	19.0
153060 2000 QU_{166}	16.2	X	56.33619	86.59205	243.72643	3.77737	0.0985104	0.24265643	2.5457056	21	12 7.8	19.6
153061 2000 QY_{168}	15.3	X	170.26847	226.28265	173.95084	14.12227	0.1754593	0.21702957	2.7423536	21	4 11.9	19.8
153062 2000 QD_{172}	15.8	X	177.16835	34.62733	343.70977	8.34027	0.1717991	0.21483962	2.7609580	21	3 19.1	20.2
153063 2000 QC_{176}	16.0	X	272.32593	146.22042	241.69484	3.22852	0.2215997	0.22916263	2.6446823	21	6 24.8	19.9
153064 2000 QG_{179}	15.5	X	106.32427	139.02718	287.01663	6.72827	0.2127002	0.21179736	2.7873341	21	3 9.8	19.5
153065 2000 QO_{186}	15.9	X	0.71604	345.26004	355.11847	13.43462	0.1816905	0.23720345	2.5845725	21	10 3.6	18.3
153066 2000 QT_{187}	15.8	X	319.51992	353.17990	1.95225	8.07187	0.0904860	0.23306863	2.6150510	21	8 12.6	18.9
153067 2000 QG_{195}	15.9	X	354.85270	201.69106	133.26484	6.98704	0.1081242	0.23601984	2.5932062	21	9 13.8	18.6
153068 2000 QE_{201}	16.4	X	8.60876	280.63198	56.72745	3.55420	0.2218210	0.23745341	2.5827584	21	10 25.3	18.6
153069 2000 QQ_{202}	16.4	X	178.65973	240.74483	75.11860	2.92542	0.2341726	0.25786677	2.4445887	21	1 4.8	20.4
153070 2000 QX_{206}	15.3	X	180.74109	31.21261	358.37685	8.25718	0.2761610	0.21592452	2.7517021	21	4 7.2	20.2
153071 2000 QW_{207}	16.1	X	264.69553	13.21380	13.30479	2.18275	0.2175026	0.22683192	2.6627676	21	6 14.8	20.2
153072 2000 QK_{210}	16.4	X	318.98835	307.99276	6.69109	1.90591	0.1961492	0.22802309	2.6534862	21	5 25.3	19.5
153073 2000 QS_{212}	16.0	X	147.62021	204.13182	169.54750	12.41309	0.2402888	0.20923874	2.8100108	21	2 21.5	20.7
153074 2000 QV_{214}	15.4	X	325.29907	302.91421	5.51384	9.48396	0.2315331	0.22871858	2.6481043	21	5 18.8	18.3
153075 2000 QR_{222}	16.2	X	188.88367	257.14955	21.66578	10.35032	0.2506258	0.25678656	2.4514396	21	—	—
153076 2000 QO_{228}	15.4	X	156.14706	257.63268	173.11047	13.06959	0.1979296	0.21852620	2.7298181	21	5 8.4	20.0
153077 2000 QY_{231}	15.2	X	243.89887	66.48084	6.78238	22.03890	0.0631292	0.23086986	2.6316284	21	8 22.9	19.2
153078 Giovale	16.2	X	12.88735	208.81259	173.75063	6.63636	0.1203458	0.24274753	2.5450687	21	12 20.6	19.3
153079 2000 RF_{4}	15.4	X	60.96833	306.26168	22.88522	13.64943	0.1837020	0.24062273	2.5600294	21	12 21.6	19.4
153080 2000 RJ_{8}	17.0	X	324.17177	56.82419	330.45223	19.70615	0.0464547	0.37848271	1.8928027	21	10 15.3	19.1
153081 2000 RU_{19}	15.8	X	250.38366	204.66131	195.65103	13.59345	0.2012825	0.22676362	2.6633023	21	6 19.3	20.2
153082 2000 RB_{22}	16.4	X	79.57128	145.84060	187.50359	11.24196	0.2546713	0.24563843	2.5250608	21	—	—
153083 2000 RH_{28}	12.1	X	263.01056	166.85384	199.57329	19.88290	0.0849755	0.08114159	5.2841327	21	6 8.8	19.3
153084 2000 RQ_{29}	15.3	X	47.96297	341.89493	324.27336	14.13096	0.1933612	0.23833831	2.5763616	21	11 2.7	19.0
153085 2000 RU_{38}	15.4	X	192.79113	164.63109	214.32182	8.30702	0.2142850	0.21200675	2.7854985	21	4 3.2	20.3
153086 2000 RX_{41}	15.2	X	116.27622	30.92387	320.34103	12.24668	0.1349603	0.20281867	2.8690014	21	—	—
153087 2000 RG_{43}	16.4	X	320.36336	136.97080	194.19485	21.58862	0.0712998	0.36968746	1.9227061	21	7 6.4	18.7
153088 2000 RP_{45}	15.3	X	35.73691	341.38784	349.83473	7.64995	0.2050600	0.23755960	2.5819887	21	11 25.3	18.6
153089 2000 RL_{49}	15.0	X	174.36028	216.11389	211.70026	12.76458	0.1887713	0.21820892	2.7324636	21	5 18.4	19.6
153090 2000 RL_{54}	15.1	X	104.65822	220.49475	218.23116	11.60855	0.1515818	0.21169621	2.7882219	21	3 15.0	19.1
153091 2000 RN_{58}	16.3	X	346.72505	339.70876	318.58037	3.05422	0.2461319	0.22907162	2.6453828	21	6 22.9	18.4
153092 2000 RU_{74}	15.8	X	146.03897	28.14101	7.79766	10.31533	0.2621869	0.21265853	2.7798040	21	3 21.7	20.4
153093 2000 RP_{76}	15.8	X	252.23594	19.05153	346.96399	8.80750	0.1393321	0.22604179	2.6689692	21	5 11.7	20.0
153094 2000 RB_{93}	15.0	X	195.27683	153.14681	251.94439	11.72680	0.1511682	0.21750829	2.7383282	21	5 6.4	19.4
153095 2000 RY_{93}	15.6	X	164.69533	218.80648	158.98762	5.56452	0.1755724	0.21340431	2.7733239	21	3 9.5	19.9
153096 2000 SZ_{2}	16.1	X	350.33200	187.79487	198.08742	12.57045	0.1992976	0.24015839	2.5633282	21	11 26.7	18.6
153097 2000 SQ_{3}	15.5	X	7.50037	280.07954	35.80464	14.02028	0.1152591	0.23418202	2.6067558	21	9 14.8	18.6
153098 2000 ST_{4}	16.6	X	234.60107	73.84096	18.12293	21.65926	0.0696003	0.37474314	1.9053741	21	9 15.8	18.7
153099 2000 SY_{10}	16.7	X	233.23649	250.22373	208.23772	21.21650	0.0741454	0.37653380	1.8993285	21	9 6.3	19.0
153100 2000 SN_{11}	17.1	X	103.11858	86.39212	180.31632	21.92106	0.0834084	0.38086938	1.8848871	21	12 4.4	19.9
153101 2000 SW_{15}	16.1	X	64.31631	102.77798	203.44846	7.01189	0.1556781	0.24057530	2.5603659	21	11 24.8	19.7
153102 2000 SB_{30}	16.5	X	28.58044	314.53666	31.26842	4.98724	0.1869529	0.23985333	2.5655011	21	12 3.5	19.5
153103 2000 ST_{32}	15.8	X	222.33961	280.18286	137.10103	4.17192	0.0854131	0.22535105	2.6744203	21	6 22.7	19.8
153104 2000 SG_{42}	16.0	X	127.83721	47.47691	324.30701	3.01312	0.0904923	0.20683255	2.8317623	21	1 15.1	20.0
153105 2000 SZ_{42}	15.3	X	35.25168	282.02211	6.05041	27.09586	0.1627584	0.23282813	2.6168515	21	9 24.4	18.2
153106 2000 SF_{44}	16.7	X	186.61319	94.30593	16.75006	19.91772	0.0915514	0.36774351	1.9294759	21	8 5.9	19.6
153107 2000 SY_{55}	12.5	X	253.17316	174.71897	192.72079	11.29333	0.0468786	0.08143234	5.2715472	21	6 4.6	19.6
153108 2000 SJ_{56}	15.8	X	69.94217	277.76756	358.06020	12.90166	0.1508487	0.23740839	2.5830849	21	10 17.7	19.5
153109 2000 SN_{62}	15.8	X	338.71281	124.89211	192.71303	5.74817	0.1176007	0.22937531	2.6430473	21	7 15.3	18.7
153110 2000 SB_{66}	15.8	X	274.29809	242.72550	169.12963	3.03734	0.0685710	0.23083203	2.6319159	21	8 22.4	19.3
153111 2000 SR_{67}	16.5	X	110.43198	131.51098	162.42745	3.29666	0.2543204	0.24574874	2.5243051	21	12 29.5	21.0
153112 2000 SH_{69}	15.1	X	105.01805	273.34894	177.27206	13.16568	0.1812112	0.21137782	2.7910210	21	4 9.1	19.0
153113 2000 SH_{70}	15.7	X	142.75945	93.59287	180.41389	8.73182	0.1851986	0.24619279	2.5212689	21	12 29.9	20.1
153114 2000 SF_{72}	15.7	X	146.90476	236.87353	158.73895	8.17060	0.1367342	0.21124585	2.7921833	21	3 11.3	19.9
153115 2000 SK_{72}	15.9	X	320.62213	173.51014	163.99098	10.08335	0.1461120	0.22841465	2.6504528	21	7 8.5	19.0
153116 2000 SB_{74}	15.5	X	150.68551	326.55618	45.52726	8.73871	0.2345419	0.20935585	2.8089628	21	2 27.0	20.2
153117 2000 SA_{78}	15.9	X	207.75717	226.17635	200.06840	3.50633	0.1288138	0.22385377	2.6863325	21	6 15.9	20.0
153118 2000 SA_{83}	15.9	X	206.57631	50.54217	351.47162	4.73023	0.0784218	0.22181423	2.7027743	21	5 14.8	20.0
153119 2000 SN_{86}	15.8	X	91.34677	127.47781	170.89380	13.13945	0.1927146	0.24131396	2.5551383	21	12 16.3	20.1
153120 2000 SR_{90}	15.4	X	332.32307	46.35763	293.03835	12.67721	0.1029215	0.23216712	2.6218162	21	8 4.9	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153121 2000 SM_{95}	15.4	X	86.73923	214.17122	225.26769	8.36420	0.1340036	0.20939366	2.8086246	21	2 17.4	19.1
153122 2000 SA_{97}	12.2	X	18.65593	23.43779	229.52234	14.69576	0.0666288	0.08311243	5.2002641	21	6 23.6	18.9
153123 2000 SW_{98}	15.8	X	280.90008	73.97510	324.39410	4.14753	0.1029625	0.22995534	2.6386010	21	8 8.5	19.1
153124 2000 SR_{102}	16.3	X	45.85716	61.05499	0.27426	13.22966	0.2879504	0.19986656	2.8971832	21	—	—
153125 2000 SG_{111}	16.0	X	6.12672	155.92458	170.20441	4.03897	0.2422415	0.23423342	2.6063744	21	10 4.9	18.0
153126 2000 SQ_{128}	15.3	X	231.29446	153.52731	176.12832	9.50771	0.1978418	0.21472007	2.7619827	21	3 7.5	19.8
153127 2000 SV_{130}	15.3	X	165.32167	243.99835	269.38424	13.89673	0.0762080	0.23168791	2.6254301	21	8 17.3	19.4
153128 2000 SF_{132}	15.1	X	52.72976	43.99116	255.56118	13.97156	0.1393167	0.23729377	2.5839166	21	10 26.2	18.7
153129 2000 SH_{134}	15.7	X	138.26679	136.27076	280.20096	6.98595	0.0676490	0.21378975	2.7699896	21	3 15.3	19.8
153130 2000 SO_{141}	15.7	X	356.36383	330.82912	340.29700	12.54863	0.1913940	0.23005348	2.6378505	21	8 14.4	18.0
153131 2000 SK_{144}	15.4	X	336.02172	326.07092	8.59355	13.51537	0.1229705	0.22984877	2.6394165	21	8 12.4	18.5
153132 2000 SW_{161}	15.0	X	206.49241	250.43266	143.37086	13.58782	0.2054126	0.21969224	2.7201503	21	5 7.4	19.8
153133 2000 SC_{172}	14.8	X	298.50125	34.97644	311.50619	13.50970	0.0787720	0.17736505	3.1373094	21	6 28.4	19.1
153134 2000 SD_{174}	15.4	X	323.65526	46.60310	275.49100	10.59186	0.1979773	0.22789931	2.6544469	21	6 14.3	18.3
153135 2000 ST_{184}	16.1	X	108.81945	80.07974	353.74100	8.10621	0.1253350	0.21163559	2.7887542	21	3 13.7	19.9
153136 2000 SW_{185}	15.9	X	137.53484	177.48652	76.19057	0.28148	0.1450166	0.24204831	2.5499677	21	12 1.2	20.0
153137 2000 SB_{191}	16.3	X	14.26143	208.30903	133.24558	4.02761	0.1629110	0.23717470	2.5847814	21	11 3.1	19.0
153138 2000 SW_{191}	16.4	X	313.10482	224.53456	142.18643	2.04929	0.1201432	0.23131935	2.6282181	21	8 11.7	19.4
153139 2000 SM_{197}	16.4	X	91.09389	253.06025	144.60282	2.36821	0.1254028	0.20563003	2.8427916	21	1 4.4	20.0
153140 2000 SC_{203}	16.2	X	141.46662	37.15199	342.07244	3.45681	0.1570392	0.21013624	2.8020040	21	2 15.9	20.2
153141 2000 SP_{203}	12.5	X	303.43699	308.59275	5.20346	17.21226	0.0715126	0.08110155	5.2858716	21	5 23.3	19.5
153142 2000 SG_{205}	16.1	X	335.95664	140.37464	187.68930	4.91885	0.1836851	0.22965796	2.6408782	21	7 20.1	18.6
153143 2000 ST_{215}	16.5	X	354.58848	181.68359	187.14224	4.04699	0.0527310	0.23680665	2.5874589	21	10 26.8	19.5
153144 2000 SY_{230}	16.0	X	330.65859	303.47150	20.77404	4.35442	0.1324350	0.22721699	2.6597584	21	7 10.9	18.9
153145 2000 SQ_{239}	15.7	X	81.94846	244.97115	14.48471	11.94873	0.1493029	0.23550497	2.5969843	21	10 13.3	19.3
153146 2000 SQ_{243}	15.8	X	159.06327	60.51374	332.08129	4.27267	0.0527450	0.21544741	2.7557630	21	3 10.8	19.7
153147 2000 SW_{243}	16.1	X	189.08628	224.19694	122.17814	5.07078	0.0969273	0.21359791	2.7716479	21	2 19.4	20.3
153148 2000 SH_{248}	16.2	X	306.42083	19.53504	293.35653	2.05267	0.0854311	0.22514078	2.6760852	21	5 20.7	19.6
153149 2000 SE_{250}	16.3	X	315.94312	244.06529	98.56372	3.50263	0.1480224	0.22909660	2.6451905	21	7 8.3	19.1
153150 2000 SK_{254}	16.4	X	195.22983	78.08705	196.73602	10.43179	0.2274490	0.25429769	2.4674088	21	—	—
153151 2000 SV_{266}	15.6	X	149.69741	39.71374	210.95061	11.65976	0.1196144	0.24359718	2.5391472	21	12 9.4	19.7
153152 2000 SE_{276}	15.6	X	55.39293	265.56756	51.39987	8.68984	0.1614863	0.23737335	2.5833391	21	11 26.8	19.1
153153 2000 SP_{288}	15.6	X	309.48037	316.39856	321.50923	13.98395	0.0881358	0.22147619	2.7055238	21	3 31.4	19.4
153154 2000 SF_{290}	15.8	X	240.67970	82.94759	255.13480	3.87873	0.1698371	0.21880880	2.7274672	21	3 25.4	20.3
153155 2000 SO_{298}	12.3	X	17.89742	23.50114	227.88194	12.71398	0.0792809	0.08187109	5.2526968	21	6 21.8	19.0
153156 2000 SM_{301}	15.7	X	204.85840	53.13612	308.36260	4.59367	0.0581918	0.21510123	2.7587189	21	3 22.6	19.8
153157 2000 SJ_{307}	15.8	X	189.99612	40.41120	328.17885	7.60192	0.1062931	0.21397676	2.7683753	21	3 16.3	20.2
153158 2000 SN_{309}	16.0	X	209.26391	4.57412	347.11173	6.02150	0.1273582	0.21713476	2.7414678	21	3 15.9	20.4
153159 2000 SA_{311}	14.6	X	206.44762	112.81909	312.27651	15.67281	0.1220946	0.17387151	3.1791945	21	6 14.9	19.9
153160 2000 SX_{313}	14.3	X	293.63653	57.26946	278.06536	13.30878	0.0460793	0.17510001	3.1643070	21	6 10.8	18.7
153161 2000 SP_{317}	15.7	X	21.45443	347.84776	301.35776	13.87119	0.1229898	0.23192324	2.6236538	21	8 19.8	18.7
153162 2000 SB_{327}	16.2	X	236.33799	357.42602	39.11723	2.62843	0.0559814	0.22329107	2.6908437	21	6 14.5	20.1
153163 2000 SP_{339}	15.8	X	195.25165	236.19034	142.13344	5.94064	0.0704597	0.21649803	2.7468404	21	4 6.4	19.9
153164 2000 TC_{3}	16.2	X	215.13209	225.62826	182.07611	1.42222	0.0783614	0.22408431	2.6844897	21	6 2.5	20.2
153165 2000 TG_{5}	16.2	X	55.74977	285.29598	3.51136	12.00082	0.1711718	0.23686188	2.5870566	21	10 20.6	19.7
153166 2000 TS_{6}	15.9	X	103.09570	235.06990	8.83197	12.03366	0.2109241	0.23727413	2.5840592	21	10 19.9	20.1
153167 2000 TJ_{28}	16.1	X	70.54653	283.48564	356.18911	7.07899	0.2095721	0.23681511	2.5873972	21	11 1.3	20.0
153168 2000 TP_{30}	15.5	X	303.55502	267.07422	40.37638	11.83368	0.0140207	0.22053802	2.7131912	21	5 18.9	19.1
153169 2000 TK_{36}	14.8	X	309.06059	293.82151	25.05134	9.55656	0.0741151	0.17525283	3.1624671	21	6 4.6	19.2
153170 2000 TW_{37}	15.6	X	143.73421	351.32344	50.26606	9.94326	0.1611767	0.21372953	2.7705099	21	3 21.5	19.9
153171 2000 TJ_{42}	16.6	X	71.77983	177.05369	133.95206	8.55953	0.2702106	0.24308650	2.5427021	21	12 20.6	20.8
153172 2000 TY_{59}	15.2	X	142.28124	350.75384	113.96403	14.21372	0.1156872	0.21788807	2.7351454	21	6 1.0	19.5
153173 2000 TJ_{64}	15.0	X	158.24679	175.59573	36.17031	10.68830	0.1147110	0.23650580	2.5896527	21	10 29.9	19.0
153174 2000 TZ_{64}	16.2	X	143.65410	264.40396	204.15250	2.23744	0.1204023	0.21896669	2.7261559	21	6 4.9	20.4
153175 2000 UN_{2}	15.1	X	337.04843	294.37475	9.86287	10.83265	0.0846497	0.17756129	3.1349975	21	6 27.8	19.3
153176 2000 UF_{21}	15.6	X	234.13083	298.77438	28.91194	8.21095	0.1054165	0.21456253	2.7633345	21	3 15.5	19.9
153177 2000 UM_{35}	16.1	X	257.29408	203.81309	195.21994	2.92541	0.1025831	0.22488429	2.6781196	21	7 7.7	19.8
153178 2000 UF_{36}	15.9	X	28.43100	178.87232	189.44436	0.64300	0.2506201	0.19140284	2.9819736	21	12 31.3	19.8
153179 2000 UM_{36}	15.3	X	77.08496	225.00237	38.55322	13.08673	0.1881230	0.23297694	2.6157371	21	10 20.3	19.1
153180 2000 UJ_{37}	15.7	X	202.07849	304.71564	73.87657	3.57867	0.2106531	0.21550423	2.7552786	21	4 12.5	20.4
153181 2000 UZ_{41}	15.7	X	25.22375	259.25199	51.07978	8.12426	0.1183910	0.23064731	2.6333209	21	10 3.1	18.8
153182 2000 UL_{46}	15.2	X	281.08714	298.89727	41.47229	8.01885	0.0486298	0.21943952	2.7222384	21	5 28.1	18.8
153183 2000 UY_{58}	15.5	X	224.41812	349.58132	8.48059	6.89071	0.1323432	0.21690725	2.7433844	21	4 6.9	19.7
153184 2000 UQ_{65}	15.7	X	157.74294	148.44605	254.10877	3.03715	0.1072609	0.21275878	2.7789308	21	3 26.1	20.0
153185 2000 UJ_{73}	15.0	X	153.03698	11.90380	217.77658	11.15700	0.1279094	0.23729967	2.5838738	21	11 16.5	19.0
153186 2000 UX_{76}	16.0	X	213.87214	163.79843	205.32518	4.33235	0.1053519	0.21618039	2.7495303	21	4 11.8	20.2
153187 2000 UD_{82}	15.5	X	290.18309	91.81907	229.45272	7.15635	0.1264011	0.21934519	2.7230188	21	5 3.6	19.2
153188 2000 UO_{83}	15.7	X	267.42088	174.84037	208.30687	13.81842	0.0731965	0.22580435	2.6708399	21	7 2.1	19.6
153189 2000 US_{89}	15.5	X	33.58352	145.06663	192.76699	7.13077	0.2075099	0.23702786	2.5858488	21	12 4.1	18.8
153190 2000 UU_{89}	14.9	X	359.76042	270.30628	192.53116	11.81075	0.1699985	0.19550500	2.9401138	21	—	—
153191 2000 US_{101}	16.0	X	51.72564	348.27306	332.40679	5.26525	0.2466623	0.23796651	2.5790444	21	12 8.8	19.7
153192 2000 VP_{1}	15.6	X	93.01495	237.70883	36.09429	27.71474	0.2250980	0.23769007	2.5810437	21	11 14.1	19.9
153193 2000 VJ_{42}	16.4	X	83.81112	307.42037	18.65066	4.06876	0.2241656	0.24276878	2.5449202	21	—	—
153194 2000 VC_{49}	15.6	X	247.75080	169.65519	193.29161	5.59504	0.0405133	0.21810097	2.7333651	21	5 18.3	19.3
153195 2000 WB_{1}	17.5	X	22.89645	262.91376	21.39098	41.11006	0.6190864	0.66394211	1.3013154	21	3 22.4*	18.7
153196 2000 WC_{16}	15.7	X	325.23341	167.37924	279.62912	2.47573	0.0771018	0.18953729	3.0015086	21	12 14.4	19.3
153197 2000 WC_{21}	15.6	X	227.51839	87.32926	121.97715	2.31796	0.2205482	0.18518713	3.0483315	21	12 16.7	20.3
153198 2000 WC_{45}	15.9	X	285.64358	194.54512	187.71872	5.79269	0.0294577	0.22448955	2.6812582	21	8 2.2	19.6
153199 2000 WU_{79}	15.6	X	33.81524	299.25164	47.76871	5.38983	0.2313874	0.23690533	2.5867403	21	12 18.9	18.9
153200 2000 WR_{81}	15.6	X	25.36160	301.70672	34.12353	3.51906	0.1642170	0.23318615	2.6141724	21	11 10.6	18.7

* The additional opposition: 12 9.4, $V = 20.8$

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153201 2000 WO_{107}	19.3	X	299.62885	213.71893	69.23035	7.77046	0.7807403	1.13315823	0.9111901	21	12 25.9	19.6
153202 2000 WJ_{109}	15.5	X	223.95463	326.83610	23.93275	5.79125	0.1366759	0.21305692	2.7763376	21	3 30.3	19.8
153203 2000 WF_{122}	15.8	X	303.39677	348.04074	58.94771	2.02853	0.1753392	0.18035442	3.1025458	21	9 9.5	19.5
153204 2000 WR_{129}	15.9	X	191.14087	341.27445	37.45822	4.91812	0.0817926	0.21253863	2.7808494	21	4 2.0	20.1
153205 2000 WV_{159}	15.8	X	28.87143	343.27469	88.22502	6.30733	0.0994321	0.19641243	2.9310511	21	—	—
153206 2000 WH_{163}	15.4	X	95.61485	11.29610	59.76555	6.57465	0.0591929	0.20582661	2.8409813	21	2 15.5	19.3
153207 2000 XX	15.3	X	320.59513	224.45830	192.66764	17.96437	0.2397873	0.18419104	3.0593116	21	10 18.6	18.3
153208 2000 XP_{3}	15.5	X	357.51182	321.46085	16.31923	12.91222	0.1770036	0.23056482	2.6339490	21	9 26.9	17.9
153209 2000 XL_{9}	14.9	X	269.81916	20.12438	67.32127	18.68843	0.2435993	0.17674167	3.1446821	21	9 13.0	19.8
153210 2000 XQ_{14}	15.3	X	282.71680	24.81342	90.22488	10.10851	0.0908868	0.18408748	3.0604589	21	11 18.4	19.4
153211 2000 XJ_{16}	15.0	X	304.66246	332.16228	321.42997	11.09564	0.1140253	0.21665479	2.7455152	21	4 12.8	18.9
153212 2000 XK_{41}	15.4	X	292.93971	142.75431	342.51505	12.91203	0.2417680	0.18777472	3.0202622	21	11 20.6	19.2
153213 2000 XX_{44}	16.5	X	187.73309	36.73008	356.93514	19.49686	0.0947442	0.35546241	1.9736657	21	3 29.0	18.9
153214 2000 XP_{51}	15.4	X	210.94711	321.84646	26.58952	9.41521	0.1679997	0.21070460	2.7969629	21	3 17.3	20.0
153215 2000 YR_{8}	14.8	X	249.36944	213.41270	281.99253	14.80787	0.0342145	0.18136731	3.0909837	21	11 1.5	19.5
153216 2000 YR_{19}	15.2	X	253.49787	67.74582	47.56913	18.29548	0.2095748	0.17883257	3.1201224	21	10 1.9	20.1
153217 2000 YX_{19}	15.5	X	265.99475	294.76500	154.19855	9.78215	0.2110507	0.17960981	3.1111147	21	9 5.1	19.8
153218 2000 YU_{23}	15.5	X	234.44768	229.14512	282.98349	3.96791	0.1073761	0.18136063	3.0910596	21	10 28.3	20.1
153219 2000 YM_{29}	18.4	X	281.62778	1.00328	116.54997	40.32526	0.4352193	0.32635421	2.0893438	21	11 16.2	21.1
153220 2000 YN_{29}	17.4	X	358.52626	138.14467	67.87424	5.87806	0.6757541	0.24596821	2.5228033	21	—	—
153221 2000 YU_{37}	15.0	X	313.59404	180.68297	270.46389	8.56956	0.0612648	0.18510880	3.0491913	21	12 2.2	18.9
153222 2000 YD_{43}	15.5	X	272.66927	248.76546	154.56258	4.67740	0.2476355	0.17457664	3.1706280	21	7 11.3	20.2
153223 2000 YR_{47}	14.8	X	352.14060	274.67528	117.86431	16.88349	0.3626035	0.18510915	3.0491874	21	12 14.2	17.4
153224 2000 YR_{48}	15.3	X	312.35113	173.07828	273.26375	4.16467	0.1892909	0.18416027	3.0596523	21	11 13.9	18.6
153225 2000 YH_{52}	15.6	X	313.79865	83.27372	358.56568	0.95529	0.2152323	0.18423546	3.0588198	21	11 8.7	18.8
153226 2000 YZ_{57}	15.0	X	259.20685	183.73864	284.33726	6.17170	0.1132060	0.17895899	3.1186529	21	9 30.5	19.6
153227 2000 YL_{58}	15.1	X	272.22550	215.49450	279.45647	9.78160	0.0963718	0.18381071	3.0635302	21	11 24.8	19.3
153228 2000 YJ_{59}	15.2	X	323.68874	299.19083	103.62895	8.39443	0.0353936	0.17905008	3.1175950	21	10 21.5	19.5
153229 2000 YE_{85}	15.5	X	354.27215	289.43172	152.41317	2.47156	0.2347181	0.19075330	2.9887391	21	—	—
153230 2000 YS_{89}	15.2	X	256.99024	283.62493	288.84946	8.28141	0.0531738	0.19262241	2.9693736	21	—	—
153231 2000 YV_{98}	15.0	X	255.73182	222.10006	286.11268	8.05165	0.0756365	0.18293388	3.0733118	21	11 22.5	19.3
153232 2000 YG_{111}	15.3	X	290.39493	155.78015	307.70153	6.93068	0.1371162	0.18281101	3.0746887	21	11 3.4	19.3
153233 2000 YP_{112}	15.4	X	282.65307	126.40647	314.60322	7.58364	0.1490312	0.17859019	3.1229449	21	9 21.7	19.7
153234 2000 YV_{114}	15.3	X	212.11609	199.40655	313.26741	9.48254	0.1615615	0.17771712	3.1331646	21	9 27.4	20.4
153235 2000 YL_{133}	15.4	X	214.25183	287.27427	182.65076	24.05826	0.3721483	0.17240677	3.1971757	21	7 29.9	21.6
153236 2000 YF_{138}	15.7	X	50.88062	341.20585	81.13742	3.82102	0.0762383	0.19664816	2.9287084	21	—	—
153237 2001 AY_{1}	15.2	X	243.02201	185.22862	302.67005	13.44561	0.1907576	0.17945714	3.1128788	21	9 22.5	20.3
153238 2001 AG_{27}	15.1	X	299.21664	109.55638	333.01273	14.07930	0.1965071	0.18160578	3.0882771	21	10 8.9	19.1
153239 2001 AK_{37}	14.8	X	265.09934	111.11606	345.51485	16.09854	0.1935974	0.17701367	3.1414599	21	9 13.9	19.2
153240 2001 AG_{39}	14.9	X	264.50862	328.53379	118.38956	16.69888	0.0408797	0.17494618	3.1661616	21	10 1.0	19.6
153241 2001 AS_{46}	14.8	X	221.32278	60.51203	47.76791	26.54719	0.2168466	0.17196283	3.2026760	21	8 27.9	20.6
153242 2001 AO_{47}	16.1	X	160.37687	59.99000	20.56246	20.37961	0.0953110	0.35498364	1.9754399	21	5 1.0	18.6
153243 2001 AU_{47}	17.4	X	10.89645	9.36998	311.90765	35.97975	0.5307734	0.66577559	1.2989252	21	3 16.7	19.5
153244 2001 AQ_{50}	15.4	X	143.09472	91.00054	104.16648	14.78824	0.1598246	0.17280243	3.1922935	21	9 27.7	20.8
153245 2001 BK	14.9	X	253.84482	30.26314	84.25958	5.89598	0.1084619	0.17676905	3.1443573	21	10 8.7	19.4
153246 2001 BK_{1}	14.9	X	257.69844	105.79743	22.22335	11.13344	0.1282318	0.18033489	3.1027697	21	10 23.7	19.1
153247 2001 BT_{1}	15.3	X	267.88472	161.27820	305.96914	4.02758	0.1249321	0.17715112	3.1398347	21	10 9.8	19.7
153248 2001 BU_{6}	15.0	X	205.54315	187.03760	304.87332	16.91645	0.1613261	0.17291291	3.1909336	21	8 26.2	20.3
153249 2001 BW_{15}	15.3	X	151.18677	297.96831	328.89308	41.24156	0.5907823	0.31983205	2.1176527	21	—	—
153250 2001 BL_{21}	14.7	X	299.32661	298.31918	156.95446	9.68994	0.0427015	0.17833789	3.1258896	21	11 20.8	19.1
153251 2001 BR_{22}	15.3	X	35.59294	107.67545	301.11800	8.57175	0.0757435	0.19015805	2.9949729	21	—	—
153252 2001 BQ_{26}	15.0	X	224.69713	75.06128	126.74622	3.66138	0.2055910	0.18201531	3.0836430	21	12 6.8	19.8
153253 2001 BZ_{45}	15.3	X	277.73314	258.25765	161.69520	16.26323	0.2266266	0.17534104	3.1614064	21	8 9.2	19.9
153254 2001 BF_{47}	15.1	X	338.66056	262.77668	188.29371	9.52020	0.0704132	0.18616503	3.0376470	21	—	—
153255 2001 BQ_{53}	14.6	X	166.56682	78.54187	124.72161	14.66160	0.1028869	0.17495314	3.1660776	21	10 27.3	19.8
153256 2001 BR_{57}	14.9	X	188.32165	339.97077	203.38485	11.09192	0.2026171	0.17510399	3.1642590	21	10 14.5	20.1
153257 2001 BK_{59}	14.6	X	286.01251	188.44899	307.36171	14.07073	0.0641620	0.18360427	3.0658262	21	12 20.1	18.9
153258 2001 BZ_{63}	15.1	X	306.20526	287.06283	201.71484	5.21434	0.1870775	0.18584928	3.0410867	21	12 29.8	18.5
153259 2001 BY_{66}	15.1	X	165.26926	79.45431	128.82736	10.70021	0.1742410	0.17496863	3.1658907	21	10 29.5	20.5
153260 2001 BM_{67}	14.3	X	203.43779	292.75134	298.41078	17.66767	0.1633216	0.18246074	3.0786224	21	12 25.9	19.2
153261 2001 BS_{70}	15.0	X	245.05302	273.72878	251.90600	4.73664	0.2299548	0.18218205	3.0817612	21	11 10.9	19.7
153262 2001 CN_{5}	14.6	X	191.18614	265.34698	331.08127	10.33663	0.1220592	0.18201381	3.0836600	21	12 22.7	19.5
153263 2001 CD_{12}	14.9	X	21.50276	250.28821	121.13153	17.54428	0.1157810	0.18066661	3.0989706	21	12 7.1	19.2
153264 2001 CT_{14}	15.7	X	194.74677	39.39998	110.24221	11.74513	0.2206359	0.17339260	3.1850458	21	9 14.1	21.2
153265 2001 CF_{19}	14.7	X	164.63588	300.24893	306.38658	14.81678	0.1594548	0.17976940	3.1092730	21	12 7.9	20.0
153266 2001 CH_{21}	14.6	X	110.43810	37.34098	258.37153	9.93103	0.0288066	0.18178803	3.0862128	21	12 8.9	19.1
153267 2001 CB_{32}	17.8	X	230.41022	330.48065	75.56061	9.67398	0.6138057	0.41454271	1.7813798	21	5 17.4	21.6
153268 2001 CV_{32}	14.7	X	247.69725	39.14927	101.15892	29.08362	0.2111350	0.17979126	3.1090211	21	10 31.9	19.9
153269 2001 CR_{33}	14.4	X	167.97345	163.26104	56.84284	19.67723	0.1602704	0.17608024	3.1525524	21	11 11.9	19.7
153270 2001 CW_{33}	14.6	X	268.19756	141.31804	19.35657	17.03913	0.1390936	0.18352470	3.0667123	21	12 13.4	19.0
153271 2001 CL_{42}	17.2	X	90.61169	270.83647	12.05228	21.65471	0.4025042	0.50731748	1.5569793	21	—	—
153272 2001 CM_{45}	14.6	X	180.56853	135.52200	84.53960	15.38205	0.2372298	0.17471733	3.1689258	21	11 20.9	20.2
153273 2001 CQ_{46}	15.4	X	251.22358	110.66359	344.09926	20.45556	0.2301834	0.17527603	3.1621880	21	8 27.0	20.2
153274 2001 CU_{49}	14.5	X	133.10332	259.04819	352.67027	14.78236	0.2492099	0.17346948	3.1841046	21	11 14.9	20.3
153275 2001 DA_{10}	15.0	X	118.39604	161.83003	100.70715	10.20329	0.0527275	0.17479154	3.1680288	21	11 12.6	19.8
153276 2001 DC_{32}	14.7	X	194.26714	154.55722	10.01677	8.89166	0.0369994	0.17235534	3.1978116	21	10 5.9	19.3
153277 2001 DY_{40}	15.0	X	214.58110	138.81900	4.61953	5.47782	0.1328519	0.17383080	3.1796909	21	9 25.3	19.8
153278 2001 DH_{49}	14.9	X	214.38884	97.50304	44.87003	7.35465	0.2054880	0.17526824	3.1622818	21	9 21.4	20.1
153279 2001 DY_{50}	15.2	X	232.76819	175.86844	26.79185	10.70197	0.0722179	0.18182931	3.0857457	21	—	—
153280 2001 DB_{52}	14.7	X	222.28734	356.03340	130.67928	29.15082	0.1343920	0.17260316	3.1947501	21	9 17.8	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153281 2001 DF_{56}	14.6	X	144.28021	262.81631	335.85728	11.54734	0.0808381	0.17533388	3.1614925	21	11 5.2	19.6
153282 2001 DE_{69}	14.8	X	204.37517	355.52544	162.45174	8.94771	0.0516458	0.17303628	3.1894167	21	10 10.6	19.5
153283 2001 DY_{91}	14.9	X	143.75745	239.92931	356.91632	4.86764	0.1137537	0.17262489	3.1944820	21	11 6.2	20.0
153284 Frieman	15.0	X	242.95241	125.76819	66.30170	6.76587	0.1025524	0.18584796	3.0411010	21	12 27.8	19.3
153285 2001 DD_{111}	14.9	X	204.97298	172.98210	55.40233	10.18804	0.1634191	0.18087062	3.0966399	21	12 21.9	19.9
153286 2001 EL_{7}	14.8	X	214.65643	52.52225	105.61539	5.46356	0.1156497	0.17358591	3.1826807	21	10 16.8	19.7
153287 2001 EY_{24}	14.6	X	207.30750	91.51532	90.82055	16.23152	0.1231605	0.17508962	3.1644321	21	11 9.5	19.7
153288 2001 FG_{4}	16.4	X	163.18081	331.76678	343.29490	7.11637	0.1557316	0.28576065	2.2827995	21	—	—
153289 Rebeccawatson	14.2	X	240.38558	337.91582	2.11111	9.65582	0.0853350	0.15039038	3.5020526	21	4 9.1	19.4
153290 2001 FH_{11}	14.6	X	122.20257	108.43476	179.88252	15.58263	0.1109179	0.17479735	3.1679585	21	12 17.3	19.8
153291 2001 FW_{19}	17.7	X	149.27747	16.26468	225.07287	1.89470	0.1213036	0.31803210	2.1256352	21	12 8.8	20.6
153292 2001 FE_{27}	14.6	X	159.25034	60.99273	198.02904	16.21703	0.0419827	0.17695673	3.1421337	21	12 18.7	19.5
153293 2001 FV_{62}	14.2	X	164.11314	281.58833	11.48046	21.98417	0.2211733	0.18014718	3.1049246	21	—	—
153294 2001 FJ_{95}	14.4	X	140.70233	213.60357	22.25096	22.49216	0.0526647	0.17147494	3.2087480	21	10 28.4	19.3
153295 2001 FB_{107}	15.1	X	156.13010	196.56280	33.45963	4.71989	0.1044636	0.17360348	3.1824660	21	11 10.9	20.2
153296 2001 FF_{108}	15.0	X	274.40903	71.94062	9.18332	5.01265	0.1589345	0.17138245	3.2099024	21	9 12.9	19.5
153297 2001 FN_{109}	15.0	X	210.43835	322.99364	190.46825	11.10785	0.0505718	0.17051231	3.2208134	21	10 10.2	19.7
153298 Paulmyers	15.1	X	144.35629	71.14683	194.80252	5.13576	0.1449005	0.17395730	3.1781492	21	12 12.5	20.2
153299 2001 FB_{154}	15.2	X	213.10108	333.03748	175.84339	21.18417	0.1861453	0.17332889	3.1858263	21	9 26.8	20.3
153300 2001 FD_{159}	15.2	X	198.73884	44.47080	124.81376	2.13194	0.1417339	0.17122459	3.2118749	21	10 10.8	20.3
153301 Alissamearle	15.3	X	337.45692	252.17443	185.64422	5.41951	0.1175538	0.17915271	3.1164043	21	12 19.4	19.1
153302 2001 FS_{186}	14.6	X	184.68609	102.42314	51.63759	7.48245	0.0383145	0.16797615	3.2531516	21	9 15.7	19.4
153303 2001 HC_{14}	16.1	X	296.05091	136.40600	186.90564	4.97205	0.2239601	0.29525347	2.2336033	21	4 23.6	18.9
153304 2001 HG_{61}	16.7	X	4.00039	76.23965	230.96813	3.90931	0.1861188	0.30191678	2.2006174	21	8 29.5	18.1
153305 2001 HV_{62}	16.8	X	91.64246	244.79859	75.78727	2.03860	0.2505312	0.31446289	2.1416892	21	—	—
153306 2001 JL_{1}	16.7	X	7.24834	272.42021	226.64810	26.97978	0.5232966	0.24160134	2.5531117	21	—	—
153307 2001 KF_{10}	17.0	X	130.26241	152.29007	111.09036	3.62548	0.1319117	0.31404607	2.1435838	21	12 17.2	20.0
153308 2001 KE_{17}	16.9	X	123.32043	111.82233	143.52361	3.85080	0.1411844	0.31206614	2.1526410	21	11 30.4	20.1
153309 2001 KB_{68}	15.2	X	284.47182	125.90148	104.09150	24.32201	0.2811936	0.27990824	2.3145093	21	—	—
153310 2001 LZ	16.4	X	99.77929	161.47280	160.84683	2.73567	0.1817834	0.31478329	2.1402357	21	—	—
153311 2001 MG_{1}	17.2	X	5.25278	218.43767	142.37534	28.42655	0.6461950	0.24931769	2.5001572	21	—	—
153312 2001 MK_{14}	16.4	X	301.14497	349.37773	306.17279	5.34488	0.1471211	0.28643974	2.2791900	21	3 31.0	19.3
153313 2001 MF_{22}	16.8	X	113.48540	253.40881	38.82879	4.10447	0.2126960	0.30966672	2.1637464	21	—	—
153314 2001 MR_{23}	16.0	X	23.80833	353.27453	318.08240	7.19793	0.1897797	0.29904576	2.2146798	21	10 17.1	18.2
153315 2001 NH_{6}	19.6	X	109.23599	288.39374	112.54655	34.70077	0.4495771	0.71608438	1.2373520	21	—	—
153316 2001 NL_{8}	16.3	X	158.28245	88.24349	298.59602	7.85836	0.1171092	0.27881060	2.3205799	21	2 25.9	19.5
153317 2001 NM_{21}	15.6	X	151.74300	43.32360	339.55379	9.09612	0.0972938	0.27409911	2.3470966	21	2 15.9	18.6
153318 2001 OJ_{6}	16.1	X	45.12992	16.58571	256.01234	7.18260	0.1877676	0.29804881	2.2196157	21	9 23.3	18.6
153319 2001 OT_{9}	16.5	X	123.38162	321.80161	261.59346	4.09572	0.1213845	0.30455529	2.1878890	21	10 15.3	19.5
153320 2001 OR_{13}	15.4	X	72.05699	28.24992	0.07618	9.19486	0.2819147	0.26116473	2.4239651	21	—	—
153321 2001 OW_{16}	16.7	X	235.37481	162.31913	183.31339	3.44271	0.2135610	0.28290015	2.2981618	21	3 23.9	20.5
153322 2001 OA_{22}	15.5	X	224.56956	0.51732	334.25009	8.45811	0.1936112	0.27802513	2.3249485	21	3 1.6	19.2
153323 2001 ON_{25}	16.5	X	99.81726	213.15348	152.39194	4.87706	0.1643492	0.26681360	2.3896304	21	—	—
153324 2001 OB_{28}	16.8	X	60.22292	245.63421	353.28594	6.71768	0.1367578	0.29716699	2.2240046	21	8 24.1	19.1
153325 2001 OV_{34}	16.4	X	208.38949	343.77440	10.67920	6.98766	0.1608751	0.28017701	2.3130288	21	3 13.8	20.0
153326 2001 OG_{35}	16.6	X	250.63132	2.19264	33.57479	6.56026	0.0914002	0.29322576	2.2438887	21	6 26.3	19.4
153327 2001 OM_{36}	17.0	X	6.97925	84.55342	166.68533	4.76315	0.1079046	0.28993951	2.2608120	21	5 28.6	19.0
153328 2001 OP_{40}	16.7	X	272.52648	323.18394	2.77358	5.96288	0.2326312	0.28472612	2.2883257	21	3 30.4	20.0
153329 2001 OM_{41}	16.1	X	28.04804	35.00417	345.97240	11.22871	0.2626507	0.25671628	2.4518869	21	—	—
153330 2001 OL_{42}	16.4	X	258.28284	96.82709	190.98191	7.40229	0.1172290	0.27626736	2.3347999	21	2 4.7	20.0
153331 2001 OO_{46}	16.6	X	297.09592	189.16068	142.06635	7.62491	0.1670790	0.29031081	2.2588839	21	5 18.0	19.3
153332 2001 OJ_{47}	16.2	X	278.34728	18.97593	316.55947	6.21479	0.1541504	0.28749923	2.2735871	21	4 25.2	19.4
153333 Jeanhugues	16.4	X	150.09125	238.76827	136.17109	2.91209	0.2115341	0.27327357	2.3518212	21	2 15.9	19.6
153334 2001 OO_{52}	16.6	X	218.43641	18.51370	14.21595	6.72145	0.1345304	0.28589004	2.2821106	21	5 9.3	20.0
153335 2001 OL_{60}	16.9	X	101.80899	213.65469	131.69737	3.94702	0.2098789	0.26516347	2.3995340	21	—	—
153336 2001 OF_{61}	16.9	X	191.32677	258.27264	50.25066	0.09320	0.2053887	0.27303534	2.3531890	21	1 2.4	20.6
153337 2001 OP_{63}	16.6	X	14.89686	184.66578	105.10571	5.59567	0.1934669	0.29701793	2.2247486	21	8 31.4	18.1
153338 2001 OY_{70}	16.0	X	323.83855	293.77277	23.14444	4.17182	0.1673756	0.28914489	2.2649522	21	6 7.9	18.0
153339 2001 OA_{87}	16.8	X	140.24795	263.11964	84.74464	3.25113	0.2432287	0.26791337	2.3830864	21	1 7.3	19.9
153340 2001 OQ_{89}	16.0	X	146.20011	22.83937	330.22646	5.13143	0.2683375	0.27027702	2.3691722	21	1 23.0	19.5
153341 2001 OA_{90}	16.7	X	243.49587	355.99138	342.51977	2.56766	0.1947263	0.28292756	2.2980133	21	3 22.4	20.3
153342 2001 OP_{93}	17.0	X	229.68895	304.06861	353.26996	1.97240	0.1148703	0.27796991	2.3252565	21	1 20.9	20.4
153343 2001 OE_{104}	15.8	X	239.56910	274.02503	129.06117	30.98547	0.3377849	0.23726208	2.5841466	21	6 9.9	20.9
153344 2001 OR_{106}	16.0	X	316.50899	349.81778	302.71772	8.08748	0.2759058	0.28768111	2.2726287	21	3 25.2	19.0
153345 2001 PW_{1}	16.3	X	194.03491	20.94268	346.90858	7.58053	0.1228988	0.28011219	2.3133857	21	3 14.2	19.7
153346 2001 PD_{2}	16.6	X	36.61732	292.56865	0.87148	4.37519	0.1827831	0.30002733	2.2098468	21	10 13.7	18.7
153347 2001 PT_{2}	16.3	X	73.80065	279.10304	132.76064	2.98390	0.1794636	0.26703098	2.3883334	21	—	—
153348 2001 PA_{8}	16.9	X	332.47561	293.19489	7.39111	8.46461	0.2221918	0.29145561	2.2529649	21	5 16.9	18.8
153349 2001 PJ_{9}	18.5	X	127.62179	291.16793	283.82629	10.53729	0.6390769	0.40849032	1.7989325	21	10 22.8	22.9
153350 2001 PJ_{13}	15.4	X	220.42492	25.28025	290.79364	13.75029	0.1231469	0.22872556	2.6480504	21	2 7.2	19.6
153351 2001 PV_{20}	16.8	X	234.67291	165.71029	127.05973	5.56236	0.1659038	0.27701147	2.3306168	21	1 18.9	20.4
153352 2001 PP_{21}	16.2	X	14.08153	6.36954	25.25376	2.55591	0.2134487	0.25598605	2.4565476	21	—	—
153353 2001 PW_{22}	16.2	X	81.66253	299.56263	72.62251	4.25173	0.2289659	0.26335815	2.4104874	21	—	—
153354 2001 PF_{23}	16.2	X	131.51575	33.40682	310.27756	5.94103	0.1890881	0.26760153	2.3849374	21	—	—
153355 2001 PQ_{23}	16.9	X	86.41836	220.17885	121.63489	2.02002	0.2071673	0.26121821	2.4236343	21	—	—
153356 2001 PE_{25}	16.4	X	315.15933	123.03824	185.90455	6.19582	0.1318416	0.28850744	2.2682872	21	5 18.4	18.7
153357 2001 PN_{26}	14.4	X	202.28590	279.40133	44.78609	3.57217	0.2480519	0.12548810	3.9512485	21	2 17.4	21.0
153358 2001 PB_{53}	15.7	X	11.24859	314.32850	316.84544	13.90760	0.0306673	0.24297812	2.5434582	21	7 7.7	18.9
153359 2001 PE_{53}	16.5	X	167.80816	240.67088	161.86314	4.45415	0.0924533	0.28091806	2.3089593	21	3 31.1	19.6
153360 2001 PK_{55}	16.8	X	73.58353	47.70734	325.90592	5.99390	0.1390382	0.26350576	2.4095872	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153361 2001 PA_{58}	16.6	X	1.52299	20.27140	218.70965	4.74216	0.1664587	0.28663845	2.2781366	21	4 20.8	18.2
153362 2001 PA_{61}	17.0	X	232.96024	290.83030	0.25474	2.76204	0.1386473	0.27691679	2.3311481	21	1 16.4	20.4
153363 2001 PC_{61}	16.5	X	98.12786	61.65268	333.57870	7.01028	0.1052624	0.27018596	2.3697045	21	—	—
153364 2001 QL	15.5	X	145.79092	36.40828	356.60098	4.76453	0.2350577	0.27349338	2.3505609	21	3 9.1	18.9
153365 2001 QQ	16.8	X	62.29863	187.80099	164.26672	4.90043	0.1673972	0.25905830	2.4370871	21	—	—
153366 2001 QB_{1}	16.7	X	140.56590	184.16746	162.33311	3.63300	0.2409085	0.26874240	2.3781829	21	1 4.9	20.1
153367 2001 QJ_{3}	15.7	X	191.95654	120.36815	325.55144	14.21446	0.0398957	0.24139162	2.5545903	21	6 28.9	19.4
153368 2001 QP_{5}	16.0	X	91.55176	61.77751	331.10393	5.46047	0.1167682	0.26809543	2.3820074	21	—	—
153369 2001 QQ_{6}	16.4	X	154.01378	187.72006	168.87214	4.83164	0.0612035	0.27268746	2.3551899	21	1 8.7	19.4
153370 2001 QU_{7}	16.4	X	258.08733	33.50669	318.59578	5.48690	0.1888878	0.28578162	2.2826878	21	4 21.1	19.9
153371 2001 QM_{9}	17.0	X	31.77704	114.22540	163.31203	5.60098	0.2104030	0.29699212	2.2248775	21	9 17.1	18.8
153372 2001 QG_{13}	15.5	X	163.53930	322.32067	338.37838	8.80596	0.2005026	0.21733516	2.7397823	21	—	—
153373 2001 QR_{14}	16.3	X	86.78279	342.80295	37.07514	3.21488	0.2098113	0.26480176	2.4017187	21	—	—
153374 2001 QF_{15}	16.8	X	10.13316	271.24255	37.82215	3.62775	0.1761090	0.29709744	2.2243516	21	9 19.3	18.4
153375 2001 QH_{20}	16.4	X	245.60690	11.61262	312.23177	4.11378	0.1714231	0.28003119	2.3138318	21	3 6.6	20.1
153376 2001 QU_{21}	15.8	X	68.44192	351.78414	357.76738	5.39178	0.2553425	0.25790403	2.4443532	21	—	—
153377 2001 QY_{22}	16.3	X	295.81204	191.03950	174.82815	2.88210	0.2044833	0.28961462	2.2625025	21	6 28.1	18.6
153378 2001 QA_{23}	16.1	X	31.14715	195.67715	164.56614	4.71426	0.2887848	0.25274626	2.4774956	21	—	—
153379 2001 QB_{23}	16.2	X	20.93768	269.93387	19.11949	4.45684	0.1983928	0.29596555	2.2300192	21	9 12.7	17.9
153380 2001 QJ_{24}	16.6	X	126.76282	0.44942	339.67982	5.28322	0.2112690	0.26534414	2.3984447	21	—	—
153381 2001 QU_{24}	15.6	X	335.12046	318.40008	96.24606	4.15407	0.2152564	0.25101854	2.4888507	21	12 10.3	17.5
153382 2001 QO_{27}	16.3	X	167.05802	250.25228	114.36896	2.73358	0.2433347	0.27151241	2.3619803	21	2 22.2	20.1
153383 2001 QS_{29}	15.7	X	153.72641	349.28925	19.37677	6.53769	0.2605448	0.26908561	2.3761603	21	2 19.2	19.5
153384 2001 QW_{37}	16.6	X	307.16484	180.12496	127.52707	5.89861	0.1917029	0.28917226	2.2648092	21	4 24.4	19.3
153385 2001 QT_{41}	16.4	X	351.67681	271.37969	332.36293	5.99172	0.0780474	0.28742506	2.2739782	21	4 14.9	18.9
153386 2001 QT_{50}	13.9	X	179.08946	331.95338	346.60627	10.93758	0.2147233	0.12384813	3.9860532	21	1 27.3	20.5
153387 2001 QR_{52}	16.8	X	61.67851	151.87479	115.31446	5.49086	0.1447535	0.29981150	2.2109073	21	10 9.8	19.5
153388 2001 QA_{56}	16.9	X	55.41195	212.51797	93.16580	4.27715	0.1600290	0.30333954	2.1937310	21	11 24.6	19.5
153389 2001 QK_{56}	17.2	X	238.45695	178.02071	115.09452	3.36273	0.2129114	0.27772795	2.3266068	21	1 21.9	21.0
153390 2001 QA_{64}	16.3	X	222.15830	176.46866	150.30302	6.40790	0.1438699	0.27666533	2.3325604	21	2 18.9	19.8
153391 2001 QQ_{74}	14.9	X	209.96718	72.39078	9.86114	13.02056	0.1525467	0.23380853	2.6095311	21	7 9.8	19.3
153392 2001 QV_{76}	15.1	X	94.68807	0.55768	19.08611	6.27088	0.1352622	0.26032410	2.4291806	21	—	—
153393 2001 QX_{88}	15.1	X	232.26730	44.36953	246.38882	22.91632	0.2179078	0.27194919	2.3594505	21	1 9.1	19.4
153394 2001 QQ_{100}	16.5	X	92.30901	192.53325	167.25755	4.37031	0.1897197	0.26118878	2.4238163	21	—	—
153395 2001 QF_{102}	16.9	X	126.56913	7.05467	321.81646	12.50049	0.2094931	0.26696457	2.3887295	21	—	—
153396 2001 QY_{104}	15.3	X	98.04759	347.69092	16.31703	6.52356	0.1696906	0.26001884	2.4310814	21	—	—
153397 2001 QK_{106}	15.4	X	285.28521	268.16222	150.85948	5.61704	0.2529460	0.24023962	2.5627503	21	8 19.2	18.4
153398 2001 QQ_{108}	16.3	X	283.32987	31.31168	259.32874	6.06699	0.1234928	0.28115862	2.3076421	21	3 5.5	19.6
153399 2001 QC_{109}	15.9	X	271.48115	233.20710	131.49726	15.78134	0.1680027	0.23790735	2.5794720	21	6 3.7	19.9
153400 2001 QB_{116}	16.0	X	307.68332	310.72630	321.40550	9.55577	0.1190197	0.28197341	2.3031945	21	3 11.8	18.9
153401 2001 QG_{119}	16.2	X	302.59320	343.72859	299.33726	6.11851	0.1073101	0.28271691	2.2991547	21	3 21.8	19.1
153402 2001 QH_{120}	16.0	X	244.64189	317.25068	3.63965	12.53973	0.2499234	0.27932068	2.3177539	21	3 2.9	20.0
153403 2001 QC_{121}	16.2	X	143.63226	270.88686	123.17327	7.43696	0.1126219	0.27615865	2.3354126	21	2 22.9	19.3
153404 2001 QH_{122}	16.7	X	168.48298	12.11336	356.08775	7.18143	0.1231432	0.27569855	2.3380102	21	2 18.9	20.0
153405 2001 QL_{123}	16.4	X	53.72953	340.53489	56.98032	4.16485	0.1261617	0.26290414	2.4132617	21	—	—
153406 2001 QT_{125}	16.8	X	313.46991	346.70217	31.95396	3.33887	0.2530556	0.24518942	2.5281426	21	8 12.9	19.1
153407 2001 QT_{131}	16.1	X	339.76969	140.47985	140.25380	6.66445	0.1482303	0.28740733	2.2740717	21	5 18.3	18.2
153408 2001 QV_{137}	15.7	X	261.99341	358.03413	317.15722	6.50134	0.1722899	0.27864002	2.3215269	21	3 10.6	19.2
153409 2001 QG_{139}	15.2	X	239.45383	80.61046	211.31295	21.60535	0.2852068	0.27399875	2.3476697	21	1 15.2	19.9
153410 2001 QZ_{141}	16.2	X	54.04728	327.22193	40.32131	3.42972	0.2127833	0.25627077	2.4547278	21	—	—
153411 2001 QX_{142}	15.6	X	73.91273	175.04783	158.59834	12.83023	0.2806109	0.25647684	2.4534127	21	—	—
153412 2001 QR_{145}	16.9	X	68.03213	224.91262	161.40591	1.78852	0.1830978	0.26363106	2.4088236	21	—	—
153413 2001 QN_{147}	15.9	X	158.11008	306.74145	111.14554	13.34971	0.2837230	0.22383236	2.6865039	21	5 1.5	20.8
153414 2001 QB_{151}	15.5	X	275.80891	326.77197	291.24283	23.64774	0.0754222	0.27446833	2.3449912	21	1 20.4	18.7
153415 2001 QP_{153}	17.1	X	325.58806	244.26318	317.68034	50.20898	0.2138917	1.17097291	0.8914661	21	—	—
153416 2001 QO_{160}	16.1	X	346.17047	221.33757	335.54333	6.78288	0.0833721	0.27776673	2.3263902	21	2 2.0	18.7
153417 2001 QU_{162}	17.0	X	231.87828	87.51651	229.76125	2.22923	0.1559969	0.27866075	2.3214118	21	2 14.7	20.7
153418 2001 QE_{174}	16.2	X	39.58715	48.18882	341.14529	6.19571	0.1394496	0.25635832	2.4541689	21	—	—
153419 2001 QU_{175}	16.6	X	81.58830	170.82788	238.69044	0.65365	0.1700555	0.26792190	2.3830358	21	—	—
153420 2001 QJ_{178}	16.0	X	163.93410	185.29025	177.96020	7.69444	0.2456489	0.27059860	2.3672948	21	2 16.0	19.8
153421 2001 QX_{178}	16.1	X	326.14017	306.23336	32.69086	9.15668	0.2389480	0.29113242	2.2546320	21	7 11.4	17.8
153422 2001 QT_{179}	16.4	X	240.88410	163.51226	150.63608	7.11238	0.1363327	0.27801919	2.3249817	21	2 21.2	19.9
153423 2001 QN_{203}	16.3	X	46.47666	325.96783	82.28207	3.78740	0.1655961	0.26411393	2.4058867	21	—	—
153424 2001 QC_{204}	16.8	X	116.40695	191.94123	206.92182	6.99175	0.1045802	0.27174041	2.3606589	21	1 20.8	19.7
153425 2001 QD_{205}	16.5	X	94.63169	135.83243	235.26513	4.74706	0.0219163	0.26566300	2.3965252	21	—	—
153426 2001 QO_{208}	16.6	X	196.66962	227.80385	62.49527	3.28172	0.1163180	0.27047306	2.3680273	21	—	—
153427 2001 QV_{212}	16.9	X	147.63334	349.98206	321.39280	2.76265	0.1304426	0.26500262	2.4005049	21	—	—
153428 2001 QY_{212}	16.3	X	128.75679	83.10895	323.74682	3.06375	0.2178798	0.22210358	2.7004264	21	3 12.5	20.4
153429 2001 QB_{216}	16.8	X	47.17982	200.01308	143.51189	3.01458	0.1907976	0.25464522	2.4651633	21	12 28.6	20.2
153430 2001 QL_{216}	16.9	X	46.15804	187.08926	79.34227	1.76129	0.2140332	0.29655376	2.2270694	21	9 25.6	19.1
153431 2001 QP_{217}	16.5	X	274.60061	58.22538	353.89724	7.34691	0.2924331	0.24182746	2.5515200	21	7 22.1	20.1
153432 2001 QK_{218}	16.6	X	29.91113	167.94412	166.54820	5.18875	0.1341673	0.25190068	2.4830368	21	11 16.6	19.5
153433 2001 QR_{218}	16.6	X	297.19392	239.18992	162.02914	6.33105	0.2263350	0.24486436	2.5303795	21	8 17.5	19.2
153434 2001 QK_{222}	16.3	X	57.88641	13.92433	226.26580	5.34043	0.1774800	0.29595604	2.2300670	21	8 24.9	18.8
153435 2001 QN_{224}	16.6	X	9.50451	102.50325	144.48306	7.73347	0.1042198	0.29096463	2.2554987	21	5 27.8	18.7
153436 2001 QH_{227}	15.9	X	148.78342	87.21230	273.56425	8.09306	0.0910200	0.22070205	2.7118467	21	1 21.4	19.8
153437 2001 QD_{230}	16.9	X	252.38593	32.87434	349.20195	4.21021	0.2680193	0.23614649	2.5922789	21	5 21.4	21.2
153438 2001 QT_{230}	16.4	X	317.84944	326.48019	250.52102	6.08843	0.0631302	0.27616049	2.3354022	21	1 20.9	19.3
153439 2001 QR_{234}	16.5	X	96.48892	13.11561	353.70109	2.32052	0.1987170	0.26323154	2.4112603	21	—	—
153440 2001 QB_{244}	15.5	X	25.43394	142.38183	355.38636	6.56051	0.0574898	0.27037809	2.3685818	21	1 16.3	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153441 2001 QW_{245}	16.0	X	59.68452	164.28030	181.46895	8.60308	0.2373997	0.25554607	2.4593665	21	—	—
153442 2001 QV_{252}	16.6	X	246.94845	159.99968	140.78654	9.97747	0.1032387	0.27836667	2.3230464	21	2 11.9	19.9
153443 2001 QW_{256}	16.4	X	279.98999	163.19296	148.83238	7.25889	0.1383896	0.28232649	2.3012738	21	4 3.1	19.5
153444 2001 QU_{259}	16.8	X	307.86759	287.97787	25.27532	5.40336	0.2483845	0.28763911	2.2728499	21	4 20.8	19.4
153445 2001 QR_{262}	16.0	X	148.15919	236.41212	175.31461	5.12232	0.1890664	0.22307398	2.6925893	21	4 4.8	20.3
153446 2001 QS_{267}	17.5	X	279.31242	67.94119	210.50497	2.84771	0.2250669	0.28159470	2.3052590	21	2 5.2	21.0
153447 2001 QN_{272}	16.4	X	21.89015	178.58789	88.92252	6.27118	0.1724948	0.29449016	2.2374613	21	8 3.9	18.1
153448 2001 QE_{273}	16.4	X	236.85594	358.95218	6.80794	7.21868	0.1322778	0.28449990	2.2895386	21	4 22.8	19.8
153449 2001 QR_{278}	16.5	X	289.83623	194.62725	98.94386	7.01760	0.1397486	0.28385000	2.2930320	21	3 22.1	19.6
153450 2001 QN_{279}	16.3	X	219.14858	216.52287	65.85402	7.19109	0.0982893	0.27162886	2.3613051	21	—	—
153451 2001 QK_{283}	15.5	X	286.51019	100.83776	283.92309	13.29373	0.2072756	0.24199727	2.5503262	21	7 10.9	18.7
153452 2001 QQ_{286}	16.0	X	263.06779	248.72213	183.57624	26.45553	0.3562332	0.24227237	2.5483953	21	7 22.9	20.6
153453 2001 QR_{287}	16.9	X	210.85216	92.73713	240.01086	2.82209	0.1077360	0.27554215	2.3388948	21	2 14.0	20.4
153454 2001 QC_{290}	15.8	X	39.48956	109.53056	312.34641	6.66367	0.1028803	0.26433798	2.4045271	21	—	—
153455 2001 QT_{296}	15.8	X	79.03046	342.52974	40.87435	2.04576	0.1960330	0.26009826	2.4305865	21	—	—
153456 2001 QC_{304}	16.9	X	287.70576	267.62627	143.34519	2.42407	0.2400482	0.24423833	2.5347016	21	8 14.1	19.5
153457 2001 QX_{310}	16.8	X	124.02997	14.05301	10.66841	5.16117	0.1299867	0.26975603	2.3722217	21	1 20.2	19.7
153458 2001 QD_{328}	16.7	X	75.62853	1.38032	35.52678	3.14050	0.1715243	0.26517344	2.3994739	21	—	—
153459 2001 QD_{329}	16.6	X	242.47321	245.93758	156.48330	23.67470	0.2375929	0.23756482	2.5819508	21	6 14.1	21.3
153460 2001 RN	19.6	X	323.91604	30.38540	211.47269	10.08995	0.5809299	0.58629801	1.4138080	21	—	—
153461 2001 RF_{1}	16.7	X	290.02703	141.45530	264.47402	0.63543	0.2340873	0.24405979	2.5359376	21	8 11.3	19.6
153462 2001 RE_{2}	15.9	X	354.32899	246.65975	331.51720	22.86647	0.1960702	0.28332911	2.2958416	21	2 24.7	18.1
153463 2001 RX_{4}	16.4	X	49.46962	15.35006	325.66913	12.14764	0.1489181	0.25472623	2.4646407	21	12 23.5	19.9
153464 2001 RW_{6}	12.4	X	275.79357	299.86861	21.84883	9.02370	0.0851158	0.08201336	5.2466203	21	5 1.7	19.4
153465 2001 RF_{7}	15.8	X	172.51795	307.88001	23.02888	7.18375	0.1359649	0.26839492	2.3802351	21	1 8.7	19.3
153466 2001 RC_{11}	16.4	X	119.79173	348.66880	334.81392	0.98357	0.1845303	0.26131618	2.4230285	21	—	—
153467 2001 RU_{13}	16.1	X	5.49460	168.79883	341.55900	5.03569	0.1541201	0.27068374	2.3667984	21	—	—
153468 2001 RO_{16}	16.5	X	123.67484	104.26075	222.92250	1.47510	0.2315722	0.26331682	2.4107396	21	—	—
153469 2001 RW_{22}	16.8	X	321.76266	91.20078	180.71735	5.13507	0.1143471	0.28487795	2.2875126	21	4 5.9	19.4
153470 2001 RB_{26}	17.1	X	149.58511	183.72941	152.33631	4.27376	0.2636746	0.26859509	2.3790524	21	1 3.9	20.7
153471 2001 RU_{29}	17.3	X	257.08395	338.57869	344.03587	2.08647	0.1354504	0.28170377	2.3046639	21	3 19.8	20.5
153472 2001 RX_{31}	16.3	X	128.44531	338.43298	278.08234	4.02852	0.1323980	0.30796797	2.1716959	21	12 5.2	19.3
153473 2001 RX_{38}	16.6	X	5.29898	292.29250	284.64360	1.67259	0.0323142	0.28235526	2.3011175	21	4 4.1	19.3
153474 2001 RK_{43}	16.2	X	85.43930	233.78946	49.66920	9.39955	0.3743455	0.30500790	2.1857240	21	12 11.6	20.3
153475 2001 RR_{45}	16.8	X	325.70902	145.67274	151.76719	2.04706	0.1852083	0.28727897	2.2747491	21	5 9.3	18.8
153476 2001 RT_{58}	16.8	X	204.96146	183.04452	117.44347	4.11643	0.1393592	0.27123235	2.3636059	21	1 1.7	20.4
153477 2001 RC_{66}	16.0	X	328.03442	179.27685	269.01915	5.02500	0.0840698	0.25462161	2.4653157	21	—	—
153478 2001 RE_{66}	16.1	X	271.26585	79.66246	223.75637	5.87034	0.1255088	0.27968345	2.3157493	21	3 9.3	19.3
153479 2001 RQ_{66}	15.9	X	340.97602	235.15300	232.40713	6.01187	0.0799832	0.25899237	2.4375006	21	—	—
153480 2001 RT_{66}	15.8	X	66.13726	132.00020	244.87583	6.71232	0.1772082	0.25896561	2.4376685	21	—	—
153481 2001 RY_{68}	16.3	X	319.37834	45.03072	337.28130	7.88018	0.2291710	0.24428813	2.5343571	21	9 3.7	18.1
153482 2001 RK_{69}	16.3	X	281.99169	112.67289	273.88451	3.20966	0.1757719	0.23974849	2.5662490	21	7 12.4	19.6
153483 2001 RK_{76}	15.6	X	99.82588	224.82531	156.87253	5.77752	0.2172990	0.26189023	2.4194864	21	—	—
153484 2001 RQ_{80}	15.8	X	88.82438	173.32732	205.58601	4.31527	0.0832342	0.21359323	2.7716883	21	—	—
153485 2001 RZ_{81}	15.8	X	206.02367	311.33171	150.90067	4.41825	0.2212600	0.23536924	2.5979827	21	7 25.2	20.0
153486 2001 RB_{82}	15.8	X	350.42679	18.64495	16.21469	12.47926	0.2019746	0.20011813	2.8947546	21	11 22.9	18.9
153487 2001 RF_{86}	16.6	X	225.72809	176.17485	160.54089	1.92711	0.1973968	0.27793402	2.3254566	21	3 5.7	20.5
153488 2001 RL_{87}	16.2	X	264.96136	237.76155	190.98547	5.21724	0.2037218	0.24154748	2.5534913	21	8 11.2	19.8
153489 2001 RT_{87}	16.5	X	29.49946	164.53563	179.67024	4.60395	0.1418810	0.25107304	2.4884905	21	11 29.6	19.5
153490 2001 RF_{89}	15.6	X	136.30515	4.53476	21.01348	7.21268	0.1159707	0.27038215	2.3685581	21	2 5.5	18.7
153491 2001 RK_{90}	16.4	X	139.97908	19.41771	38.04244	7.88317	0.0995858	0.27482263	2.3429754	21	3 21.8	19.5
153492 2001 RJ_{93}	15.9	X	100.78861	0.13721	31.66664	7.15858	0.1052978	0.26572540	2.3961500	21	—	—
153493 2001 RX_{101}	16.2	X	46.65650	57.10446	22.81146	6.55890	0.1305462	0.26614065	2.3936570	21	—	—
153494 2001 RF_{107}	16.8	X	95.29263	16.36312	21.72481	7.08053	0.1465293	0.26632618	2.3925452	21	—	—
153495 2001 RQ_{113}	16.4	X	237.33276	256.79399	153.71531	7.28857	0.1612831	0.23812254	2.5779177	21	6 23.4	20.5
153496 2001 RY_{113}	16.4	X	235.07046	315.46740	5.77034	6.34112	0.0395463	0.27772741	2.3266098	21	3 2.0	19.4
153497 2001 RV_{118}	16.0	X	124.99190	55.54975	0.89036	14.76245	0.2520402	0.22217167	2.6998747	21	3 24.5	20.2
153498 2001 RL_{119}	15.7	X	173.23091	291.28597	162.32530	25.59603	0.2183891	0.23368690	2.6104366	21	6 20.0	20.7
153499 2001 RL_{122}	16.7	X	314.91829	31.54062	142.38412	3.27397	0.1232484	0.26751864	2.3854300	21	—	—
153500 2001 RN_{122}	12.7	X	262.26201	180.68877	164.81260	15.69718	0.0232357	0.08538226	5.1076870	21	5 25.5	19.7
153501 2001 RG_{126}	16.3	X	70.02947	81.80697	12.13164	11.43528	0.1069140	0.27101403	2.3648750	21	2 1.3	18.9
153502 2001 RU_{128}	16.3	X	250.04559	122.70937	154.12071	6.09085	0.1166273	0.27432291	2.3458199	21	1 15.1	19.9
153503 2001 RB_{129}	16.7	X	321.88292	155.40459	118.07237	3.09052	0.0687669	0.28318605	2.2966147	21	4 17.2	19.2
153504 2001 RE_{130}	16.7	X	8.67179	247.56135	27.05686	3.15759	0.1412684	0.29083601	2.2561636	21	7 11.6	18.4
153505 2001 RV_{130}	16.2	X	337.07691	70.27768	72.57687	2.20041	0.1340960	0.26468577	2.4024203	21	—	—
153506 2001 RC_{133}	16.6	X	236.42298	283.03243	119.74114	4.93914	0.2598132	0.23581904	2.5946780	21	6 5.1	20.9
153507 2001 RL_{135}	16.3	X	254.97877	248.21117	44.38287	4.97021	0.1135829	0.27661446	2.3328463	21	2 11.8	19.7
153508 2001 RF_{137}	16.8	X	44.61575	302.02980	89.43325	3.27379	0.2074991	0.25809179	2.4431676	21	—	—
153509 2001 RJ_{139}	15.7	X	72.10537	201.94684	357.32478	9.70179	0.2079353	0.23905756	2.5711913	21	7 25.5	19.1
153510 2001 RB_{146}	16.0	X	354.58778	193.37293	259.66837	6.03830	0.0362325	0.26100766	2.4249375	21	—	—
153511 2001 RT_{146}	16.4	X	310.22451	231.69179	76.55257	10.27213	0.1322126	0.28757208	2.2732031	21	5 10.3	18.9
153512 2001 SB_{3}	16.1	X	207.70684	52.73332	29.26841	8.76049	0.1706974	0.23475619	2.6025037	21	7 4.7	20.5
153513 2001 SJ_{6}	16.7	X	61.05211	254.92342	196.75712	1.41539	0.0909562	0.26991676	2.3712799	21	1 7.3	18.9
153514 2001 SZ_{6}	17.0	X	335.62955	90.98726	159.75166	5.24004	0.1535621	0.28484048	2.2877132	21	3 22.0	19.2
153515 2001 SD_{13}	16.0	X	137.72408	15.67928	357.32348	18.61255	0.0144931	0.27021456	2.3695373	21	1 7.9	19.4
153516 2001 SH_{14}	16.4	X	15.46748	44.23791	6.15222	3.84217	0.1079807	0.25714745	2.4491454	21	—	—
153517 2001 SO_{14}	16.3	X	140.55835	188.18144	171.84690	0.72843	0.0954654	0.26860724	2.3789806	21	1 2.6	19.3
153518 2001 ST_{14}	17.3	X	138.13830	159.64445	171.85513	2.05934	0.1980035	0.26565789	2.3965560	21	—	—
153519 2001 SD_{17}	17.1	X	148.13588	171.65170	165.70167	2.52984	0.2193444	0.26751111	2.3854748	21	—	—
153520 2001 SW_{28}	16.4	X	285.32045	138.83209	176.07613	5.92276	0.2480034	0.28436718	2.2902509	21	3 28.2	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153521 2001 SV_{36}	17.0	X	304.82542	220.71839	179.89257	3.36464	0.2715373	0.24346614	2.5400582	21	8 22.8	19.5
153522 2001 SN_{38}	16.6	X	37.19557	202.36355	178.92339	6.75199	0.1511416	0.25510913	2.4621738	21	—	—
153523 2001 SS_{38}	15.8	X	268.16940	49.53981	43.48134	3.13684	0.1918931	0.24401084	2.5362767	21	9 22.7	19.1
153524 2001 SG_{39}	16.5	X	187.69609	307.06928	162.97021	5.86675	0.2571240	0.23404856	2.6077467	21	7 18.8	21.1
153525 2001 SL_{43}	16.9	X	293.47325	329.51583	67.38769	0.46567	0.2100266	0.24243592	2.5472490	21	8 8.4	19.7
153526 2001 SB_{44}	16.6	X	229.99047	196.15438	126.77831	3.01830	0.2433160	0.27749078	2.3279323	21	2 19.9	20.5
153527 2001 SM_{47}	15.8	X	307.81593	290.00082	36.38740	7.65896	0.1479051	0.28760131	2.2730491	21	5 27.2	18.1
153528 2001 SZ_{49}	16.1	X	245.21847	338.76770	80.95051	5.91363	0.2434902	0.23729977	2.5838731	21	7 5.3	20.1
153529 2001 SD_{53}	16.1	X	62.61804	336.71865	33.32243	6.65946	0.0828178	0.25704786	2.4497779	21	—	—
153530 2001 SL_{61}	16.5	X	264.59867	216.37450	182.42250	3.51847	0.1242951	0.23825660	2.5769506	21	7 13.5	20.1
153531 2001 SH_{63}	16.0	X	272.06927	30.08918	49.00936	4.08694	0.2063362	0.24222925	2.5486977	21	9 7.3	19.2
153532 2001 SK_{63}	16.9	X	129.89598	193.56360	148.21990	3.49859	0.1522937	0.26335375	2.4105143	21	—	—
153533 2001 SE_{66}	16.1	X	210.68095	20.78277	36.76810	12.64351	0.2581300	0.23134043	2.6280585	21	5 31.3	20.8
153534 2001 SH_{66}	16.2	X	130.43960	164.22459	179.07595	7.35103	0.0430785	0.26162059	2.4211485	21	—	—
153535 2001 SZ_{66}	16.4	X	70.85638	187.56088	165.05699	7.83046	0.2477973	0.25649927	2.4532697	21	—	—
153536 2001 SF_{93}	17.1	X	332.61848	33.52210	184.87642	6.83416	0.0685207	0.27686928	2.3314148	21	2 11.2	19.9
153537 2001 SQ_{93}	16.4	X	269.88879	142.51878	350.34411	9.90287	0.1778537	0.25376856	2.4708374	21	11 18.4	19.4
153538 2001 SO_{97}	17.0	X	141.63239	189.45801	239.90263	4.63057	0.2064233	0.27537973	2.3398144	21	4 16.1	20.4
153539 2001 SD_{101}	15.9	X	301.19421	136.04196	276.51375	5.02093	0.1684966	0.24533064	2.5271723	21	9 18.4	18.6
153540 2001 SA_{103}	16.8	X	307.90529	31.49422	222.30153	2.67558	0.1226309	0.27857371	2.3218953	21	2 17.2	19.6
153541 2001 SW_{106}	16.0	X	11.82081	61.21041	346.15446	8.49647	0.2007301	0.25280951	2.4770824	21	—	—
153542 2001 SS_{107}	15.4	X	189.22086	253.84127	227.47292	20.47946	0.5053656	0.17836801	3.1255377	21	7 23.7	22.1
153543 2001 SM_{110}	15.7	X	86.24310	7.58300	346.01587	4.65699	0.1939819	0.25730838	2.4481241	21	—	—
153544 2001 SR_{112}	15.9	X	90.33864	158.94888	219.68999	5.70789	0.1357135	0.26017528	2.4301068	21	—	—
153545 2001 SS_{114}	16.5	X	277.65763	312.02665	352.39733	2.77895	0.1904355	0.28115631	2.3076547	21	3 12.9	19.8
153546 2001 SZ_{114}	15.9	X	251.02100	235.89873	189.51481	8.39267	0.1459024	0.23897760	2.5717649	21	7 28.1	19.7
153547 2001 SY_{118}	16.8	X	289.74578	351.01039	310.64836	4.26436	0.2272503	0.28437115	2.2902296	21	3 15.6	20.2
153548 2001 SN_{120}	16.7	X	351.11961	224.91671	191.95550	6.95350	0.1460573	0.25422762	2.4678621	21	—	—
153549 2001 SG_{124}	16.1	X	191.25164	227.34796	203.69745	3.65749	0.2575792	0.23291513	2.6161998	21	6 4.6	20.8
153550 2001 SJ_{125}	16.3	X	273.16995	274.26530	328.24282	6.36984	0.0663011	0.27241949	2.3567342	21	1 1.6	19.5
153551 2001 SG_{131}	16.0	X	18.23841	176.99437	344.91483	4.79049	0.0864236	0.27326427	2.3518745	21	2 4.5	18.5
153552 2001 SZ_{132}	16.3	X	262.46212	147.28150	272.11553	2.50447	0.2178115	0.24050062	2.5608958	21	7 25.6	19.7
153553 2001 SM_{134}	16.7	X	202.32292	52.20258	240.32121	2.01989	0.0267857	0.26764505	2.3846789	21	—	—
153554 2001 SQ_{135}	17.0	X	247.63036	300.99072	356.47302	2.22120	0.2127537	0.27726417	2.3292006	21	2 4.1	20.9
153555 2001 SE_{136}	16.8	X	298.56896	37.82181	357.15028	8.39857	0.1487572	0.24351810	2.5396969	21	8 27.0	19.5
153556 2001 SJ_{138}	16.5	X	204.04928	332.45167	342.77258	2.84547	0.0491670	0.27082582	2.3659706	21	1 15.8	19.8
153557 2001 SA_{139}	16.8	X	341.39892	134.59379	324.66343	2.32678	0.1359658	0.25727519	2.4483346	21	—	—
153558 2001 SN_{139}	16.2	X	37.59683	191.50542	198.73201	2.17040	0.1072643	0.25694502	2.4504316	21	—	—
153559 2001 SJ_{141}	17.0	X	279.18122	4.45561	3.87865	2.19512	0.1642357	0.23791192	2.5794389	21	6 15.1	20.3
153560 2001 SF_{150}	16.3	X	288.62994	330.67700	335.87599	5.90915	0.1288441	0.28233112	2.3012486	21	4 2.8	19.4
153561 2001 SS_{155}	16.1	X	43.86475	79.60372	323.03262	1.50887	0.1734266	0.25761702	2.4461684	21	—	—
153562 2001 SL_{157}	15.9	X	202.83844	33.28263	267.81205	5.18757	0.1194828	0.26875368	2.3781164	21	—	—
153563 2001 SN_{157}	15.8	X	286.87196	304.20546	352.72079	11.29978	0.1085673	0.27984219	2.3148735	21	3 22.5	18.8
153564 2001 SE_{158}	15.3	X	201.44972	64.41537	354.17849	17.49229	0.1418003	0.18275877	3.0752746	21	5 27.1	20.6
153565 2001 SQ_{161}	16.1	X	226.28937	311.45451	355.98793	6.85892	0.1268541	0.27216325	2.3582132	21	2 1.6	19.7
153566 2001 SR_{163}	16.0	X	299.53790	232.10963	204.50494	5.12504	0.0974097	0.24777633	2.5105151	21	11 2.6	18.6
153567 2001 SV_{163}	15.8	X	210.96493	73.64084	10.39013	12.00703	0.1817759	0.23503027	2.6004800	21	7 11.4	20.2
153568 2001 SQ_{167}	17.5	X	226.00680	334.02716	334.22847	1.61093	0.2315083	0.27546014	2.3393590	21	1 30.4	21.4
153569 2001 SR_{173}	16.5	X	52.61891	231.13514	57.70335	4.80539	0.1286834	0.29664557	2.2266099	21	10 23.4	19.0
153570 2001 SH_{184}	16.6	X	96.50134	343.41324	26.10818	2.29980	0.1328188	0.26469704	2.4023521	21	—	—
153571 2001 SQ_{184}	17.0	X	313.48474	258.06290	347.10774	4.85210	0.1726103	0.28099960	2.3085126	21	2 7.4	19.8
153572 2001 SL_{197}	17.0	X	355.79884	171.45172	355.38270	1.38983	0.1324438	0.27147920	2.3621729	21	—	—
153573 2001 SU_{210}	16.5	X	167.00440	184.73377	163.82932	2.80631	0.2042089	0.27097706	2.3650901	21	1 29.3	20.1
153574 2001 SJ_{220}	16.9	X	258.94082	297.22393	111.90461	1.77351	0.2037567	0.23917144	2.5703751	21	7 10.1	20.6
153575 2001 SP_{226}	16.8	X	218.90481	152.89788	134.75095	3.07122	0.1891308	0.27099358	2.3649941	21	—	—
153576 2001 SJ_{230}	15.9	X	294.66429	128.59303	32.34875	2.75236	0.1507225	0.25871491	2.4392430	21	—	—
153577 2001 SN_{233}	16.3	X	244.42870	174.85838	107.69467	2.83057	0.1443427	0.27225713	2.3576711	21	1 16.7	19.7
153578 2001 SX_{237}	16.4	X	253.68337	278.98946	137.67131	4.39267	0.2082246	0.23794674	2.5791872	21	7 13.3	20.3
153579 2001 SH_{241}	17.2	X	193.47492	294.16293	29.01056	1.48386	0.1964113	0.27122595	2.3636430	21	1 22.2	21.0
153580 2001 SY_{241}	17.1	X	294.78549	260.54558	21.93776	4.54472	0.2717177	0.28151402	2.3056994	21	2 22.9	20.6
153581 2001 SH_{242}	15.8	X	231.05592	174.72132	22.90788	7.21414	0.0815080	0.25616689	2.4553913	21	—	—
153582 2001 SO_{243}	16.8	X	86.49265	257.05791	55.25659	1.95666	0.1782242	0.25446205	2.4663462	21	12 28.9	20.6
153583 2001 SG_{244}	16.9	X	248.46249	97.43450	173.80966	6.27541	0.1179130	0.27150684	2.3620125	21	1 6.9	20.4
153584 2001 SS_{245}	16.4	X	346.78102	303.32117	191.85701	6.12738	0.0567648	0.26190942	2.4193682	21	—	—
153585 2001 SM_{246}	16.6	X	277.63983	96.82118	38.33300	3.75377	0.0847370	0.25261982	2.4783222	21	12 20.5	19.5
153586 2001 SR_{246}	16.7	X	67.15089	310.54851	51.90032	1.96472	0.2007656	0.25710389	2.4494220	21	—	—
153587 2001 SG_{250}	16.6	X	241.28755	11.49372	68.45966	4.14167	0.1515258	0.23860826	2.5744180	21	8 8.0	20.3
153588 2001 SC_{251}	16.2	X	242.53980	150.95659	168.23856	4.54558	0.1410021	0.27605951	2.3359717	21	2 28.9	19.6
153589 2001 SS_{255}	15.8	X	359.40126	185.44006	27.45364	13.48054	0.2182950	0.27597872	2.3364275	21	3 7.2	17.9
153590 2001 SY_{256}	15.6	X	272.90335	258.09967	191.52149	10.86490	0.2245679	0.24127424	2.5554188	21	9 16.3	18.8
153591 2001 SN_{263}	16.9	X	281.04183	173.03417	325.75898	6.69571	0.4795906	0.35223237	1.9857133	21	11 22.5	16.6
153592 2001 SG_{266}	17.1	X	311.42581	111.72922	211.08621	3.31706	0.2568496	0.28745704	2.2738095	21	5 9.5	19.4
153593 2001 SX_{268}	17.5	X	278.87241	71.47056	187.37423	2.27785	0.0933695	0.27631795	2.3345149	21	1 24.6	20.8
153594 2001 SH_{271}	16.9	X	306.91426	194.27171	204.93650	0.76349	0.2093255	0.24377988	2.5378784	21	9 5.7	19.1
153595 2001 SW_{271}	16.7	X	100.71980	336.93260	10.47385	2.02008	0.1871438	0.26009109	2.4306312	21	—	—
153596 2001 SA_{277}	15.8	X	188.48555	210.09398	221.47190	12.64949	0.2572485	0.22883585	2.6471995	21	6 3.2	20.6
153597 2001 SE_{279}	15.7	X	177.30455	233.54483	218.73858	12.22613	0.2512810	0.22982178	2.6396231	21	6 19.2	20.5
153598 2001 SV_{279}	15.7	X	77.94453	3.28837	26.85129	3.06550	0.1798674	0.26037548	2.4288610	21	—	—
153599 2001 SD_{280}	15.3	X	224.45299	289.04322	180.59259	4.48296	0.1487279	0.23904577	2.5712759	21	8 26.3	19.1
153600 2001 SU_{280}	16.2	X	148.24499	189.26213	195.79930	2.23786	0.1824392	0.27005864	2.3704493	21	2 23.4	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153601 2001 SQ_{281}	16.0	X	273.12379	106.27816	298.87993	4.34238	0.1698940	0.23911586	2.5707734	21	7 27.0	19.2
153602 2001 SS_{283}	17.6	X	209.82373	52.79716	256.44008	0.82304	0.1878458	0.27237776	2.3569749	21	1 18.2	21.3
153603 2001 SL_{285}	16.0	X	331.01781	32.78923	12.87642	8.01284	0.2534764	0.19694310	2.9257836	21	10 26.4	18.5
153604 2001 SC_{293}	16.3	X	86.85073	52.90303	33.46451	7.26372	0.0810505	0.27104142	2.3647157	21	2 13.7	19.1
153605 2001 SD_{309}	17.2	X	174.10321	327.58398	302.84218	2.56062	0.1056007	0.26260005	2.4151244	21	—	—
153606 2001 SW_{312}	16.1	X	310.84506	50.54912	51.70755	7.21608	0.0825033	0.25491403	2.4634300	21	12 29.5	18.9
153607 2001 SZ_{315}	15.0	X	256.94109	64.99039	355.12579	13.69959	0.1433940	0.23670957	2.5881663	21	8 4.7	18.8
153608 2001 SQ_{318}	16.5	X	300.35461	300.14772	181.17710	6.31320	0.0876320	0.25648777	2.4533430	21	—	—
153609 2001 SP_{333}	16.9	X	21.75816	224.93261	28.48739	6.63602	0.1122608	0.28790033	2.2714749	21	7 1.8	19.0
153610 2001 SR_{338}	17.0	X	189.77112	265.36848	193.10074	7.38743	0.1819531	0.23529353	2.5985399	21	7 7.1	21.4
153611 2001 SO_{341}	15.6	X	238.35892	320.64497	305.66100	9.67887	0.1289050	0.26781167	2.3836897	21	—	—
153612 2001 SN_{353}	16.1	X	303.93245	211.63246	130.69585	16.27812	0.1556688	0.23735141	2.5834983	21	6 18.1	19.4
153613 2001 TK_{1}	16.8	X	276.99755	226.26870	165.25308	2.67375	0.1011154	0.23758609	2.5817967	21	7 24.1	20.2
153614 2001 TN_{3}	16.3	X	118.37041	351.72023	25.84236	2.30768	0.1456964	0.26550480	2.3974771	21	1 5.1	19.2
153615 2001 TM_{11}	15.6	X	317.69978	156.72413	236.05302	3.56963	0.0300430	0.24399336	2.5363978	21	10 3.6	18.6
153616 2001 TD_{17}	15.0	X	195.28451	186.93468	248.72228	21.14199	0.0464945	0.22814555	2.6525366	21	6 16.0	18.8
153617 2001 TR_{17}	16.3	X	114.38302	340.89019	15.55971	1.47565	0.1771708	0.26118046	2.4238678	21	—	—
153618 2001 TP_{19}	15.4	X	250.24052	166.15987	255.85422	12.22607	0.1077944	0.23719313	2.5846475	21	7 25.9	19.1
153619 2001 TT_{20}	15.6	X	177.59259	349.24561	336.22957	6.97932	0.1100048	0.26527500	2.3988614	21	1 5.3	19.1
153620 2001 TX_{20}	15.0	X	252.12212	23.84514	19.22358	13.24421	0.1702356	0.23408194	2.6074988	21	6 29.0	19.1
153621 2001 TC_{21}	15.4	X	184.89996	105.66949	358.02804	12.44622	0.1220257	0.23288991	2.6163887	21	7 14.1	19.7
153622 2001 TB_{33}	15.8	X	196.17780	118.67520	341.28435	5.88221	0.2219070	0.23191328	2.6237289	21	7 15.7	20.2
153623 2001 TF_{35}	15.8	X	247.09274	89.72434	357.77118	6.00524	0.1230668	0.23787947	2.5796735	21	8 28.6	19.3
153624 2001 TJ_{36}	15.9	X	309.40685	47.39812	31.90328	13.82239	0.1816698	0.24547434	2.5261859	21	11 13.2	18.2
153625 2001 TK_{39}	16.1	X	120.55454	95.86482	37.55952	17.02343	0.1209007	0.22573477	2.6713887	21	6 8.2	20.2
153626 2001 TF_{44}	15.3	X	115.88255	27.16045	312.16788	4.99054	0.2223898	0.25691559	2.4506187	21	—	—
153627 2001 TZ_{45}	16.1	X	246.19525	86.23235	317.03239	21.68236	0.0824792	0.23721601	2.5844812	21	7 7.2	19.9
153628 2001 TE_{48}	16.7	X	238.18107	222.38432	187.90734	2.57768	0.0726176	0.23421373	2.6065205	21	7 3.1	20.4
153629 2001 TD_{54}	16.2	X	195.94706	345.49921	334.72594	12.95223	0.0767620	0.27190476	2.3597075	21	1 16.8	19.6
153630 2001 TA_{57}	16.2	X	270.86510	239.65860	163.71767	18.01950	0.2741011	0.23802943	2.5785899	21	7 6.1	20.3
153631 2001 TF_{61}	16.7	X	210.89798	20.43850	64.12076	2.77525	0.1761582	0.23488040	2.6015860	21	7 10.2	20.8
153632 2001 TT_{63}	16.7	X	250.98170	11.82622	334.10623	1.20618	0.2301440	0.28104412	2.3082688	21	4 5.5	20.5
153633 2001 TM_{64}	16.3	X	90.27145	138.64445	210.50333	1.42365	0.1913158	0.25835693	2.4414957	21	—	—
153634 2001 TS_{65}	16.1	X	46.67367	236.75263	185.47056	1.02970	0.1666692	0.25932752	2.4354000	21	—	—
153635 2001 TU_{70}	15.9	X	230.25546	45.27635	41.16172	12.19387	0.2156083	0.23667893	2.5883896	21	7 31.9	20.2
153636 2001 TS_{73}	16.7	X	229.94800	235.66462	182.78090	2.26711	0.2285380	0.23398206	2.6082407	21	6 20.8	21.0
153637 2001 TS_{76}	15.2	X	335.05820	357.29948	39.77238	2.44199	0.1242324	0.19590991	2.9360612	21	10 27.4	18.5
153638 2001 TX_{76}	16.1	X	151.89909	247.75807	211.22887	6.26584	0.2027461	0.22687191	2.6624547	21	6 6.3	20.5
153639 2001 TZ_{76}	15.9	X	268.51160	283.62165	145.97512	4.48113	0.1615210	0.23992977	2.5649562	21	8 25.3	19.0
153640 2001 TS_{77}	16.1	X	293.27222	350.33604	51.88045	2.42452	0.1762646	0.24057287	2.5603831	21	8 22.7	19.0
153641 2001 TD_{79}	15.3	X	189.67480	254.26826	210.17289	12.58581	0.2494671	0.23095025	2.6310176	21	7 11.8	20.2
153642 2001 TS_{79}	16.1	X	181.99934	221.74495	138.16925	3.41604	0.1815433	0.27150934	2.3619980	21	2 25.3	19.6
153643 2001 TX_{82}	15.6	X	257.30457	60.31423	345.06874	8.18106	0.1045910	0.18888549	3.0084097	21	7 17.8	20.0
153644 2001 TO_{87}	16.2	X	60.58814	76.88958	332.57959	6.12450	0.0597114	0.26197506	2.4189641	21	—	—
153645 2001 TV_{93}	16.8	X	267.73853	61.74563	3.12559	8.04020	0.1607759	0.24081988	2.5586320	21	8 20.5	20.2
153646 2001 TC_{95}	17.0	X	94.94746	359.40657	350.15674	4.57706	0.1982389	0.25976748	2.4326495	21	—	—
153647 2001 TJ_{97}	15.7	X	328.55539	35.30927	15.69402	12.45704	0.0696741	0.24787047	2.5098794	21	11 11.5	18.8
153648 2001 TE_{101}	15.2	X	267.57274	356.69339	37.95736	12.35396	0.1580427	0.23507134	2.6001771	21	7 8.5	19.0
153649 2001 TJ_{102}	15.1	X	279.34642	189.73537	258.46545	14.92086	0.0875342	0.24606487	2.5221426	21	10 12.4	18.6
153650 2001 TO_{102}	15.3	X	334.84406	95.26858	259.43557	14.24933	0.1282798	0.24197131	2.5505086	21	8 25.7	18.3
153651 2001 TT_{102}	16.3	X	203.78093	247.55597	5.35954	5.14157	0.0760070	0.26132044	2.4230021	21	—	—
153652 2001 TC_{103}	13.7	X	61.68364	99.04113	72.76566	30.44708	0.3715450	0.21391548	2.7689041	21	6 23.0	17.3
153653 2001 TA_{104}	16.4	X	256.56675	57.65344	355.11528	6.04796	0.2011555	0.23762424	2.5815204	21	7 13.9	20.3
153654 2001 TB_{113}	16.6	X	199.89154	346.49197	306.54406	1.90050	0.1763416	0.26681717	2.3896091	21	—	—
153655 2001 TQ_{118}	16.0	X	189.69923	98.41560	333.07991	15.95200	0.1996682	0.23085125	2.6317698	21	6 1.5	20.8
153656 2001 TE_{122}	16.3	X	229.34437	71.20318	346.78178	10.98825	0.1993419	0.23403778	2.6078268	21	6 22.2	20.7
153657 2001 TO_{130}	15.8	X	215.25393	300.67263	157.57946	12.38899	0.2722718	0.23689781	2.5867950	21	7 24.5	20.5
153658 2001 TL_{134}	16.1	X	318.42153	199.52924	103.06575	8.04620	0.2046001	0.28513846	2.2861191	21	5 3.7	18.6
153659 2001 TC_{140}	16.5	X	274.58169	349.63420	75.33376	4.95106	0.1411113	0.24425139	2.5346112	21	9 2.7	19.7
153660 2001 TB_{146}	15.6	X	147.05975	0.89668	180.33279	13.19942	0.1020088	0.24163464	2.5528772	21	9 9.2	19.5
153661 2001 TH_{147}	16.3	X	250.14085	6.84193	70.62734	5.34151	0.2142533	0.23922697	2.5699773	21	8 7.3	20.1
153662 2001 TY_{150}	15.8	X	227.54141	8.99054	61.80496	10.20128	0.0689085	0.23670872	2.5881725	21	7 20.1	19.6
153663 2001 TL_{152}	16.7	X	309.51843	248.86932	157.35349	4.43059	0.1851059	0.24423855	2.5347000	21	9 27.2	19.0
153664 2001 TN_{152}	16.5	X	208.81571	326.28550	119.05624	3.99295	0.2052654	0.23402930	2.6078898	21	7 7.5	20.7
153665 2001 TL_{164}	16.4	X	231.46028	63.34411	32.14418	4.89395	0.1532881	0.23860556	2.5744374	21	8 18.1	20.2
153666 2001 TC_{170}	15.7	X	132.97080	53.63885	15.15849	10.32009	0.2937087	0.21820990	2.7324554	21	4 19.0	20.2
153667 2001 TK_{174}	16.7	X	292.58869	298.81222	102.06760	2.36274	0.1597992	0.24053639	2.5606420	21	8 21.9	19.7
153668 2001 TU_{181}	16.3	X	143.33905	103.24047	315.67695	4.42984	0.2111470	0.22258151	2.6965594	21	4 8.2	20.6
153669 2001 TL_{185}	16.2	X	321.32554	232.85359	358.87103	6.90088	0.1330253	0.27395902	2.3478967	21	2 8.1	19.0
153670 2001 TJ_{187}	17.0	X	122.18377	94.66889	244.57520	0.98081	0.1827215	0.26061311	2.4273843	21	—	—
153671 2001 TF_{188}	15.8	X	208.37959	111.92155	27.83538	12.17081	0.2410817	0.23897508	2.5717829	21	9 16.3	20.2
153672 2001 TO_{189}	15.5	X	154.94336	33.44958	271.55276	5.63181	0.1235120	0.25981457	2.4323555	21	—	—
153673 2001 TW_{189}	16.1	X	298.69001	129.70040	287.43311	3.40469	0.1696881	0.24274994	2.5450518	21	9 21.1	18.9
153674 2001 TE_{190}	16.3	X	194.96194	230.58572	17.52387	6.95342	0.0403606	0.25586998	2.4572905	21	—	—
153675 2001 TG_{190}	16.2	X	16.83023	68.34956	14.93648	6.29318	0.0869794	0.25735456	2.4478312	21	—	—
153676 2001 TY_{191}	15.8	X	116.86261	323.35545	9.96255	6.11420	0.1765793	0.25843486	2.4410049	21	—	—
153677 2001 TS_{194}	16.1	X	291.45105	44.68888	346.44602	6.74607	0.1297181	0.23909374	2.5709319	21	8 11.8	19.2
153678 2001 TM_{200}	16.6	X	25.70709	224.54060	152.47229	9.80617	0.1455802	0.25352427	2.4724244	21	—	—
153679 2001 TN_{206}	15.6	X	199.88898	30.15254	93.42782	17.29837	0.2507261	0.23566991	2.5957725	21	8 19.2	20.3
153680 2001 TW_{208}	16.4	X	214.62432	4.75682	79.64017	5.32932	0.2353476	0.23499122	2.6007681	21	7 10.1	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153681 2001 TC_{209}	15.5	X	144.82008	49.41755	31.26084	22.44469	0.0915365	0.22452027	2.6810135	21	4 26.5	19.3
153682 2001 TG_{224}	15.5	X	105.37469	186.12445	29.75016	15.22915	0.0580823	0.23876637	2.5732814	21	9 11.7	19.3
153683 2001 TL_{225}	16.1	X	281.79339	127.05311	41.20521	3.18986	0.1229782	0.25795288	2.4440446	21	—	—
153684 2001 TR_{225}	15.9	X	157.67808	167.94143	170.62821	15.46183	0.2939236	0.26647615	2.3916474	21	1 16.2	20.0
153685 2001 TW_{229}	16.1	X	251.83862	264.67309	128.22729	6.40499	0.2749842	0.23665340	2.5885758	21	6 5.0	20.3
153686 Pathall	16.3	X	112.42160	150.23514	283.07129	3.94287	0.1514877	0.22355374	2.6887356	21	3 17.4	20.0
153687 2001 UH_{3}	16.4	X	314.28172	322.81474	157.84893	4.99623	0.1007560	0.25482954	2.4639744	21	—	—
153688 2001 UB_{8}	17.1	X	241.60207	51.86004	24.09601	2.57671	0.1735002	0.23835217	2.5762617	21	7 30.9	20.9
153689 2001 UY_{10}	16.3	X	181.11545	251.66901	105.77146	4.41401	0.1906689	0.26951510	2.3736352	21	2 23.2	20.1
153690 2001 UH_{15}	15.4	X	44.01878	217.50435	112.97749	5.75049	0.1818902	0.24616796	2.5214384	21	12 6.1	18.7
153691 2001 UY_{15}	15.8	X	279.77631	239.47696	260.50878	6.15990	0.0685355	0.25272658	2.4776242	21	12 31.9	18.8
153692 2001 US_{17}	17.6	X	254.93182	261.00404	251.35701	17.88073	0.2068839	0.44936365	1.6881230	21	—	—
153693 2001 UG_{23}	15.6	X	84.71942	50.86088	293.16708	7.68905	0.0987678	0.25678348	2.4514592	21	—	—
153694 2001 UV_{28}	16.9	X	314.34528	222.57935	68.47973	3.53150	0.1520165	0.28301405	2.2975451	21	4 16.9	19.3
153695 2001 US_{35}	15.7	X	311.75275	283.33527	100.34091	9.18136	0.1083739	0.24123091	2.5557247	21	9 10.2	18.7
153696 2001 UO_{36}	16.4	X	151.95027	240.40603	160.57653	9.39181	0.2692731	0.22202101	2.7010959	21	4 2.3	21.0
153697 2001 UN_{40}	16.3	X	129.48522	47.37527	170.35127	4.28873	0.0349954	0.24403801	2.5360885	21	10 5.5	19.6
153698 2001 UJ_{43}	16.0	X	197.79765	54.46611	207.42985	6.01101	0.0992213	0.26071293	2.4267647	21	—	—
153699 2001 UB_{46}	16.7	X	147.23403	242.86928	85.29256	2.52253	0.2029575	0.26370963	2.4083451	21	—	—
153700 2001 UM_{46}	16.5	X	54.75611	170.85895	196.11963	6.24435	0.1461195	0.25456516	2.4656802	21	—	—
153701 2001 UT_{46}	16.4	X	270.36744	286.33709	133.89241	2.00926	0.1640426	0.23945177	2.5683686	21	8 14.4	19.5
153702 2001 UO_{47}	16.2	X	120.85750	235.58552	114.31185	2.53428	0.1728835	0.26194261	2.4191639	21	—	—
153703 2001 UK_{48}	16.3	X	300.60856	184.28036	165.97073	6.38477	0.2309761	0.23753761	2.5821480	21	6 10.1	19.5
153704 2001 UJ_{53}	16.1	X	172.16408	251.92475	180.88252	8.15644	0.1479510	0.22641989	2.6659971	21	5 21.7	20.4
153705 2001 UF_{56}	16.7	X	201.41494	89.68285	238.25008	2.69814	0.0779747	0.27142379	2.3624943	21	1 28.9	20.0
153706 2001 UQ_{61}	16.6	X	272.63661	63.18060	216.57146	5.69513	0.2015222	0.27624761	2.3349112	21	2 2.3	20.4
153707 2001 UN_{74}	16.2	X	216.22539	17.88758	87.25859	4.00711	0.1501152	0.23692697	2.5865828	21	8 13.9	20.2
153708 2001 UK_{76}	12.5	X	333.20331	229.72767	65.41215	9.19343	0.1130250	0.08405759	5.1612088	21	6 9.7	18.8
153709 2001 US_{80}	15.9	X	223.16274	359.46783	47.42114	9.01868	0.1351845	0.23223592	2.6212983	21	6 5.0	19.9
153710 2001 UR_{82}	16.6	X	55.26444	165.49606	173.89667	1.78822	0.2193532	0.25210560	2.4816911	21	—	—
153711 2001 UG_{90}	17.1	X	187.52916	97.73273	221.97625	1.53696	0.0942929	0.26915348	2.3757608	21	1 5.4	20.5
153712 2001 UN_{92}	16.4	X	194.97702	47.77561	41.66696	6.51593	0.1352054	0.23226682	2.6210659	21	7 2.9	20.6
153713 2001 US_{95}	16.7	X	274.93869	46.23289	89.12845	3.04072	0.1509314	0.25179163	2.4837536	21	12 7.7	19.3
153714 2001 UM_{96}	17.1	X	108.01808	235.05286	110.77431	2.58671	0.1949951	0.26099940	2.4249887	21	—	—
153715 2001 UT_{96}	16.8	X	252.64125	235.02103	190.14169	1.82303	0.1206964	0.23847354	2.5753875	21	8 3.8	20.5
153716 2001 UE_{97}	15.3	X	326.50148	140.46329	40.92653	13.41092	0.0794892	0.21529290	2.7570813	21	—	—
153717 2001 UV_{100}	16.5	X	241.44028	42.91300	28.12137	14.48609	0.1770120	0.23881989	2.5728969	21	7 27.9	20.6
153718 2001 UD_{104}	16.8	X	304.65830	51.75803	176.93200	2.51148	0.0303086	0.27020092	2.3696171	21	1 26.4	19.6
153719 2001 UW_{104}	16.2	X	342.01749	114.75612	39.70779	8.68991	0.0354924	0.26395965	2.4068241	21	—	—
153720 2001 UL_{105}	16.4	X	231.68636	68.05271	54.79743	6.92277	0.1332125	0.24260363	2.5460750	21	9 27.0	20.0
153721 2001 UO_{109}	15.5	X	243.92589	317.00147	75.53022	5.18440	0.1397157	0.23184612	2.6242356	21	6 8.9	19.3
153722 2001 UQ_{112}	16.5	X	293.55393	222.85920	201.37396	0.63828	0.0344902	0.24430857	2.5342157	21	10 12.9	19.7
153723 2001 UG_{114}	16.7	X	204.52628	46.36625	52.68488	4.48292	0.0992717	0.23554198	2.5967123	21	7 28.0	20.5
153724 2001 UM_{118}	15.7	X	135.87110	270.86314	215.59739	13.95988	0.0642216	0.22921310	2.6442941	21	6 13.5	19.6
153725 2001 UP_{118}	16.3	X	308.14682	308.29997	103.60129	3.07458	0.0713608	0.24369213	2.5384876	21	10 15.8	19.1
153726 2001 UU_{119}	16.1	X	156.12341	164.82978	198.91277	2.37138	0.1646325	0.26750653	2.3855020	21	2 2.9	19.6
153727 2001 UY_{119}	16.3	X	107.29613	275.26562	181.82471	5.23655	0.1809444	0.22138416	2.7062735	21	4 18.4	20.0
153728 2001 UD_{120}	16.7	X	295.97789	308.08513	118.73306	3.07307	0.1437664	0.24446977	2.5331016	21	10 8.4	19.4
153729 2001 UW_{122}	16.3	X	132.00725	238.14319	122.50132	3.21101	0.2100223	0.26393481	2.4069751	21	1 10.3	19.4
153730 2001 UJ_{125}	16.1	X	358.32238	252.83602	120.58368	11.81023	0.0565642	0.24728739	2.5138232	21	11 13.8	19.3
153731 2001 UC_{132}	16.1	X	262.69033	49.51592	62.30485	15.94709	0.0541245	0.24419235	2.5350197	21	11 3.8	19.4
153732 2001 UL_{132}	15.3	X	344.62308	97.28286	238.03246	5.20070	0.2085254	0.18960773	3.0007653	21	8 14.4	18.3
153733 2001 UV_{132}	16.6	X	273.91449	83.31249	172.55270	5.44002	0.1487787	0.27166028	2.3611231	21	1 11.1	20.2
153734 2001 UF_{134}	15.4	X	171.96060	235.39367	227.98658	17.28696	0.2101489	0.23035285	2.6355646	21	6 26.6	20.1
153735 2001 UH_{137}	16.4	X	319.12157	264.97886	185.02362	6.33350	0.0683124	0.25309724	2.4752046	21	12 25.1	19.3
153736 2001 UR_{137}	16.9	X	241.54276	247.96436	41.50643	2.83633	0.1905578	0.27329975	2.3516710	21	1 21.8	20.7
153737 2001 UN_{140}	16.3	X	197.44295	84.70587	58.29521	6.34154	0.1235761	0.24080653	2.5587266	21	9 16.5	20.2
153738 2001 US_{142}	16.8	X	198.75289	290.16969	198.09631	4.29545	0.2118090	0.23655256	2.5893114	21	8 20.2	21.2
153739 2001 UY_{142}	16.4	X	216.70250	286.90198	199.87465	4.50055	0.1177610	0.24039240	2.5616643	21	9 12.2	20.3
153740 2001 UL_{143}	16.7	X	321.55226	268.39396	84.20436	2.93875	0.1364988	0.23979176	2.5659403	21	8 5.4	19.2
153741 2001 UE_{145}	17.1	X	286.37731	128.07785	195.74776	2.13879	0.1860417	0.28202126	2.3029339	21	4 18.2	19.9
153742 2001 UG_{146}	16.2	X	213.85249	228.50392	46.77158	7.78635	0.0892023	0.26290697	2.4132444	21	—	—
153743 2001 UD_{153}	15.9	X	265.85294	349.02636	64.15067	2.38794	0.0707456	0.23677034	2.5877234	21	8 14.0	19.1
153744 2001 UU_{153}	16.0	X	297.22446	194.13392	190.59549	4.81093	0.2244579	0.23913258	2.5706536	21	7 23.6	19.1
153745 2001 UW_{153}	15.9	X	202.63191	109.51147	213.24490	5.58531	0.1400940	0.26775817	2.3840072	21	1 25.9	19.7
153746 2001 UF_{156}	16.5	X	180.33791	251.04338	217.37040	4.01176	0.1264933	0.23199065	2.6231456	21	7 11.7	20.6
153747 2001 UA_{158}	16.6	X	176.02404	31.56118	52.15752	4.08933	0.2215135	0.22787576	2.6546298	21	6 7.6	21.1
153748 2001 UB_{161}	16.2	X	217.13661	189.10773	124.65056	3.32263	0.2124432	0.27004723	2.3705160	21	1 30.6	20.1
153749 2001 UJ_{167}	15.1	X	245.91201	93.19103	2.34687	13.26355	0.1617360	0.23868772	2.5738467	21	9 3.9	18.7
153750 2001 UD_{168}	15.4	X	274.17534	51.80385	358.35243	11.45252	0.2608260	0.23759179	2.5817554	21	7 25.2	19.1
153751 2001 UQ_{168}	15.0	X	89.55605	12.24880	333.70024	9.15820	0.2173795	0.25459694	2.4654750	21	—	—
153752 2001 UZ_{173}	16.3	X	186.25010	256.99771	45.28042	2.64081	0.1951969	0.26541496	2.3980181	21	—	—
153753 2001 UC_{184}	16.3	X	231.94743	37.97709	64.69149	7.33916	0.1035290	0.24175679	2.5520172	21	9 4.9	20.0
153754 2001 UR_{196}	16.0	X	275.32887	249.33904	195.45469	7.24920	0.0500520	0.24351526	2.5397166	21	10 12.9	19.3
153755 2001 UZ_{199}	13.5	X	267.13512	100.18654	249.24164	2.32045	0.1472118	0.08379521	5.1719771	21	5 17.2	20.4
153756 2001 UF_{201}	16.8	X	220.67668	241.15855	215.12042	2.62679	0.1903522	0.23730998	2.5837990	21	8 1.5	21.0
153757 2001 UN_{210}	13.4	X	248.38815	234.38615	138.20839	5.38676	0.1043761	0.08263272	5.2203706	21	5 30.1	20.5
153758 2001 UQ_{214}	12.9	X	342.21153	121.24792	156.90886	4.10523	0.0331176	0.08160348	5.2641742	21	6 8.1	19.7
153759 2001 UX_{216}	16.3	X	6.75052	309.35279	6.42441	2.63061	0.1020158	0.24075309	2.5591052	21	9 5.6	18.9
153760 2001 UH_{221}	16.6	X	241.03035	233.27835	66.74222	3.37693	0.0923423	0.27041487	2.3683670	21	2 7.6	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153761 2001 UB_{222}	15.6	X	217.97869	155.13395	283.76734	14.56028	0.0871649	0.23334107	2.6130152	21	7 15.1	19.3
153762 2001 VP_{1}	16.4	X	216.75805	312.08695	35.88959	7.18554	0.1275890	0.27391232	2.3481635	21	3 15.9	20.0
153763 2001 VY_{10}	15.9	X	356.10870	179.50469	319.03786	2.79454	0.0365461	0.21282672	2.7783393	21	—	—
153764 2001 VZ_{11}	16.1	X	275.63546	53.48605	351.55346	7.35510	0.1864187	0.23788762	2.5796146	21	7 30.0	19.5
153765 2001 VF_{12}	15.7	X	215.54617	170.11834	303.64652	6.80095	0.1477322	0.23639693	2.5904477	21	8 21.6	19.7
153766 2001 VD_{14}	15.4	X	309.75732	98.22992	297.75767	5.24837	0.1459862	0.24153142	2.5536044	21	9 12.7	18.3
153767 2001 VC_{23}	15.8	X	4.84334	310.45149	33.27183	4.18085	0.1573512	0.24375841	2.5380274	21	10 19.2	18.3
153768 2001 VD_{27}	15.1	X	265.58546	178.90921	246.14992	5.39580	0.1079239	0.23787232	2.5797252	21	8 20.4	18.6
153769 2001 VJ_{29}	16.1	X	157.31253	230.00710	204.47045	3.36038	0.2135578	0.22398855	2.6852549	21	5 12.3	20.6
153770 2001 VO_{29}	16.1	X	253.68932	310.75693	84.96779	4.97031	0.1590511	0.23353011	2.6116048	21	6 21.9	19.9
153771 2001 VV_{33}	15.1	X	221.41273	302.25220	67.58255	15.53747	0.1122366	0.22495697	2.6775427	21	4 25.0	19.4
153772 2001 VQ_{34}	15.6	X	211.02254	287.32565	208.71431	2.81822	0.1687398	0.23732589	2.5836835	21	9 13.5	19.5
153773 2001 VL_{38}	16.5	X	314.21672	73.39297	270.18013	2.31132	0.2194742	0.23776030	2.5805354	21	6 24.6	19.3
153774 2001 VT_{38}	16.3	X	215.96515	309.37174	9.09428	2.45953	0.2015831	0.27028655	2.3691165	21	2 4.9	20.3
153775 2001 VY_{38}	16.6	X	130.53061	358.99459	346.28592	0.84408	0.2239128	0.26198085	2.4189284	21	—	—
153776 2001 VU_{41}	15.2	X	7.52488	227.60812	54.60363	15.01061	0.0725933	0.23302061	2.6154103	21	7 19.2	18.5
153777 2001 VK_{42}	15.2	X	287.80494	114.33660	254.48430	13.83960	0.1272915	0.23395409	2.6084486	21	7 2.3	18.6
153778 2001 VN_{45}	15.2	X	322.15257	145.01599	251.44807	14.36520	0.1084608	0.24091684	2.5579454	21	10 6.7	18.3
153779 2001 VO_{51}	16.7	X	221.27138	349.03479	328.63000	3.06816	0.1537718	0.27249569	2.3562948	21	2 7.5	20.2
153780 2001 VW_{57}	16.3	X	331.77510	26.33188	331.24453	2.56960	0.1750618	0.24203511	2.5500604	21	8 29.7	18.5
153781 2001 VD_{58}	15.9	X	308.95884	20.62010	23.71018	6.42224	0.0997569	0.24334347	2.5409118	21	10 3.0	18.5
153782 2001 VY_{58}	15.9	X	227.26257	48.09866	39.41586	22.70995	0.0911473	0.23672670	2.5880414	21	8 19.6	20.1
153783 2001 VQ_{60}	16.2	X	186.07973	183.55617	272.92531	4.89728	0.1338153	0.23158246	2.6262271	21	7 2.6	20.4
153784 2001 VY_{60}	16.4	X	342.08355	19.56922	353.43726	4.52705	0.1765722	0.24453393	2.5326585	21	10 16.0	18.5
153785 2001 VG_{64}	15.8	X	236.06051	25.25990	39.17638	8.42544	0.0609705	0.23467967	2.6030693	21	7 23.7	19.6
153786 2001 VH_{65}	16.2	X	267.34778	55.17237	344.65631	2.87161	0.1533599	0.23618960	2.5919634	21	7 15.3	19.6
153787 2001 VM_{65}	15.9	X	315.62644	51.94388	345.69058	3.51237	0.1490215	0.24256831	2.5463221	21	9 28.4	18.4
153788 2001 VU_{69}	15.1	X	329.57682	51.50416	320.37048	8.72151	0.1103682	0.19114554	2.9846491	21	9 10.7	18.8
153789 2001 VC_{70}	15.6	X	234.66195	43.65522	0.91172	12.41273	0.1652390	0.23230597	2.6207714	21	6 10.9	19.9
153790 2001 VJ_{71}	15.3	X	271.47515	34.40311	350.46015	11.59389	0.3013739	0.23307983	2.6149673	21	6 8.1	19.5
153791 2001 VZ_{73}	16.3	X	295.10211	68.45065	354.09558	13.02662	0.1291839	0.24340304	2.5404972	21	9 28.6	19.2
153792 2001 VH_{75}	18.1	X	125.33303	244.42421	276.11179	10.58336	0.7421060	0.32339544	2.1020681	21	8 21.1	23.3
153793 2001 VF_{78}	15.8	X	87.89198	195.31327	183.43009	9.88637	0.2263637	0.25919885	2.4362060	21	—	—
153794 2001 VZ_{78}	16.0	X	197.68549	79.61283	22.07326	2.88061	0.0959652	0.23423785	2.6063416	21	7 23.6	19.9
153795 2001 VO_{79}	16.3	X	238.55633	188.61299	181.44251	4.39339	0.2210938	0.23006454	2.6377660	21	4 30.4	20.6
153796 2001 VS_{79}	15.3	X	206.90424	355.06388	70.90145	15.41397	0.0232729	0.23082196	2.6319924	21	6 18.8	18.9
153797 2001 VH_{95}	15.3	X	260.37063	274.43072	126.86744	15.33025	0.1402813	0.23405217	2.6077199	21	7 9.8	19.0
153798 2001 VR_{96}	16.2	X	198.98940	244.54089	146.36822	11.92909	0.1920721	0.22498339	2.6773331	21	4 27.0	20.9
153799 2001 VZ_{96}	15.8	X	78.21085	359.20990	154.78008	15.57882	0.0871588	0.22186632	2.7023512	21	5 14.7	19.6
153800 2001 VT_{97}	15.8	X	186.58213	253.01121	162.61018	12.75593	0.2241854	0.22543640	2.6737452	21	5 16.1	20.6
153801 2001 VV_{106}	16.2	X	41.83058	278.63315	28.26964	2.86007	0.0420282	0.24309534	2.5426405	21	10 10.6	19.4
153802 2001 VY_{109}	16.5	X	122.40710	350.47225	352.86614	0.77409	0.2030160	0.26051709	2.4279807	21	—	—
153803 2001 VO_{110}	15.8	X	267.64094	77.81132	350.81990	3.12588	0.0751541	0.23882093	2.5728895	21	9 5.5	18.9
153804 2001 VO_{113}	16.3	X	166.13715	17.63881	315.79820	1.52634	0.2178764	0.26504864	2.4002270	21	1 12.7	20.0
153805 2001 VO_{114}	16.9	X	237.85003	38.78724	25.79737	2.42361	0.1522188	0.23391469	2.6087415	21	7 13.7	20.9
153806 2001 VC_{116}	16.3	X	144.32818	344.89424	351.60288	1.76589	0.1793726	0.26131878	2.4230124	21	—	—
153807 2001 VJ_{116}	15.8	X	223.88639	123.51445	296.41534	3.27512	0.2185860	0.23154083	2.6265418	21	6 18.0	20.1
153808 2001 VS_{116}	15.7	X	216.64546	13.42831	65.57255	15.73276	0.0476562	0.23248317	2.6194395	21	7 19.8	19.6
153809 2001 VP_{118}	15.3	X	148.08678	33.63275	50.67617	7.27750	0.1621125	0.22255578	2.6967672	21	5 12.4	19.5
153810 2001 VK_{119}	15.8	X	264.48062	64.49084	275.19110	4.38487	0.2207044	0.22929544	2.6436611	21	4 13.4	20.1
153811 2001 VL_{119}	16.0	X	309.92151	32.24133	346.89603	3.13542	0.1591439	0.23911815	2.5707569	21	8 20.2	18.7
153812 2001 VJ_{120}	16.0	X	124.62300	198.32116	260.17042	5.68872	0.1733140	0.22149590	2.7053633	21	5 6.6	20.0
153813 2001 WE	15.9	X	277.75176	237.92538	178.68043	5.75362	0.1389357	0.23947783	2.5681822	21	8 22.5	19.2
153814 2001 WN_{5}	18.3	X	302.35926	44.60414	277.42241	1.91894	0.4671869	0.44016210	1.7115685	21	3 14.5	21.0
153815 2001 WC_{7}	16.1	X	210.37660	33.80075	216.21737	6.26354	0.0772722	0.25784178	2.4447466	21	—	—
153816 2001 WU_{8}	16.7	X	189.41921	200.92827	136.26024	3.17426	0.2163381	0.26925944	2.3751375	21	2 5.5	20.4
153817 2001 WP_{9}	16.2	X	200.41776	159.35497	179.50023	5.85864	0.1477783	0.26928795	2.3749699	21	2 13.3	20.0
153818 2001 WP_{10}	16.8	X	169.77290	338.72163	157.05551	1.54372	0.1383415	0.23345895	2.6121355	21	8 6.0	20.8
153819 2001 WX_{14}	16.4	X	239.99701	77.33088	287.09780	1.00934	0.2204362	0.22887410	2.6469046	21	4 23.4	20.8
153820 2001 WO_{20}	16.7	X	295.47149	206.38817	182.35686	4.23032	0.0691380	0.23816249	2.5776294	21	8 21.1	19.9
153821 2001 WS_{31}	16.5	X	120.60793	263.81400	210.02249	3.31498	0.1778444	0.22374555	2.6871987	21	5 23.9	20.5
153822 2001 WH_{37}	16.1	X	254.99009	354.28923	63.04256	14.42789	0.0703012	0.23688792	2.5868670	21	8 9.1	19.9
153823 2001 WU_{37}	16.9	X	233.69651	223.21799	205.09770	1.74644	0.0991244	0.23504020	2.6004068	21	7 18.8	20.6
153824 2001 WN_{45}	16.5	X	211.17004	107.67917	59.10899	0.97059	0.0477684	0.24593273	2.5230459	21	11 6.5	19.8
153825 2001 WX_{48}	16.6	X	28.81120	33.19909	277.84114	1.63207	0.0333748	0.23945136	2.5683715	21	9 24.8	19.7
153826 2001 WS_{50}	17.2	X	238.15135	302.39971	148.92520	1.17687	0.1258166	0.23780666	2.5802000	21	8 21.1	20.9
153827 2001 WF_{51}	16.2	X	196.54760	258.62211	240.27788	2.64235	0.1814080	0.23868027	2.5739002	21	9 2.3	20.5
153828 2001 WT_{70}	16.5	X	299.79636	212.81035	67.33253	8.08567	0.2018686	0.27735732	2.3286790	21	3 9.2	19.7
153829 2001 WQ_{76}	16.3	X	164.13535	43.78790	67.36763	3.15361	0.0975725	0.23039562	2.6352384	21	6 28.6	20.2
153830 2001 WQ_{79}	16.8	X	224.27349	166.58119	129.32411	2.42008	0.1257339	0.26669905	2.3903146	21	1 15.0	20.5
153831 2001 WC_{80}	16.7	X	219.94869	72.17243	88.33197	3.20393	0.0905624	0.24419495	2.5350017	21	11 4.3	20.1
153832 2001 WW_{100}	16.2	X	280.90292	13.02996	255.54795	1.80151	0.1761136	0.27077845	2.3662465	21	1 31.9	19.7
153833 2001 XB_{4}	15.0	X	95.64217	91.45495	53.25816	24.88735	0.2830988	0.21681546	2.7441587	21	6 14.5	19.4
153834 2001 XD_{6}	16.6	X	302.98369	302.07987	102.95663	2.83245	0.1698193	0.24016704	2.5632666	21	9 14.5	19.1
153835 2001 XD_{10}	16.0	X	277.99547	25.38865	24.36392	4.14561	0.1711395	0.23659164	2.5890263	21	8 10.9	19.3
153836 2001 XB_{12}	15.8	X	107.63277	140.73568	349.49646	11.57135	0.1401127	0.22378261	2.6869020	21	5 21.8	19.8
153837 2001 XD_{13}	15.4	X	145.23546	13.99212	331.42846	11.20948	0.2502842	0.26153970	2.4216478	21	1 13.4	19.1
153838 2001 XG_{17}	15.9	X	215.55787	60.92464	39.30369	4.54330	0.1845263	0.23286985	2.6165390	21	8 4.5	20.1
153839 2001 XS_{20}	15.2	X	100.36321	226.37359	309.88379	12.21543	0.1951979	0.22399052	2.6852391	21	7 24.6	19.2
153840 2001 XZ_{20}	15.3	X	316.19605	16.28731	18.28577	4.75923	0.1519396	0.23920734	2.5701179	21	9 25.9	17.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153841 2001 XL_{23}	15.2	X	172.98578	338.13847	62.64397	10.61430	0.2233494	0.22035905	2.7146601	21	4 17.9	19.9
153842 2001 XT_{30}	16.7	X	139.26162	219.35634	139.87109	8.99845	0.5665063	0.21580814	2.7526913	21	2 23.6	22.1
153843 2001 XF_{32}	16.8	X	198.75761	14.08822	281.61490	0.51951	0.1875505	0.26445269	2.4038317	21	—	—
153844 2001 XV_{36}	15.2	X	155.77356	336.05189	52.28578	16.42497	0.1888904	0.21886741	2.7269802	21	3 22.7	19.8
153845 2001 XX_{38}	15.6	X	197.12262	23.81754	19.63696	9.96290	0.1919714	0.22571443	2.6715491	21	5 4.5	20.2
153846 2001 XL_{42}	15.3	X	94.60114	103.11620	349.03988	10.41160	0.0901042	0.21466938	2.7624175	21	3 12.6	18.9
153847 2001 XU_{42}	15.7	X	142.32990	50.57199	59.60814	13.95809	0.1369746	0.22316006	2.6918968	21	6 5.5	19.8
153848 2001 XY_{43}	15.2	X	210.12298	131.13683	300.95158	17.06641	0.1185282	0.17805067	3.1292503	21	6 28.4	20.2
153849 2001 XC_{45}	15.2	X	177.27010	54.38054	324.87945	12.28922	0.2060341	0.21834385	2.7313378	21	3 18.2	19.9
153850 2001 XS_{46}	15.4	X	161.28850	25.39085	3.91615	8.29367	0.1990682	0.21635569	2.7480449	21	3 21.3	19.8
153851 2001 XL_{47}	15.3	X	170.60097	105.61109	76.15580	14.47539	0.1466610	0.23349563	2.6118619	21	10 11.6	19.7
153852 2001 XH_{52}	16.3	X	332.48809	161.39928	208.46353	1.53471	0.1930732	0.24174570	2.5520952	21	9 18.7	18.4
153853 2001 XP_{52}	16.0	X	137.53658	357.47534	78.30743	9.87482	0.1197876	0.22122761	2.7075501	21	4 21.0	20.1
153854 2001 XS_{52}	16.0	X	282.23631	242.71119	184.91681	1.94430	0.1142223	0.24026217	2.5625900	21	9 18.9	19.1
153855 2001 XK_{53}	15.5	X	137.68125	288.45868	249.43538	12.18900	0.1068835	0.23315769	2.6143850	21	8 20.6	19.7
153856 2001 XD_{54}	16.0	X	141.92363	189.83448	172.13604	1.21725	0.1996526	0.26423312	2.4051632	21	1 21.7	19.3
153857 2001 XJ_{62}	15.6	X	117.63261	56.12336	94.94200	14.06261	0.1350098	0.22481412	2.6786769	21	7 2.8	19.6
153858 2001 XE_{64}	15.7	X	234.62618	259.64793	142.57859	2.76725	0.2284982	0.22956281	2.6416079	21	6 4.9	20.2
153859 2001 XB_{65}	15.6	X	121.89983	208.53212	272.64775	9.30789	0.2048739	0.22136023	2.7064686	21	6 6.1	19.7
153860 2001 XE_{65}	15.7	X	313.22759	285.72783	101.97635	3.93878	0.1748543	0.23814159	2.5777802	21	9 7.8	18.2
153861 2001 XL_{69}	15.8	X	266.89241	253.53458	178.08476	3.51687	0.0544537	0.24036061	2.5618902	21	9 11.4	19.1
153862 2001 XK_{71}	15.6	X	291.91445	206.82535	177.65971	6.18839	0.1276876	0.23651044	2.5896188	21	7 30.9	18.8
153863 2001 XV_{71}	16.6	X	144.48299	279.31930	209.48602	1.34938	0.2660286	0.22725715	2.6594450	21	7 9.9	21.2
153864 2001 XT_{72}	15.5	X	34.25662	199.76642	77.05041	16.35167	0.0885627	0.23653399	2.5894469	21	9 1.6	19.0
153865 2001 XX_{74}	15.9	X	222.83194	6.45323	92.41600	5.17123	0.0901897	0.23799383	2.5788470	21	8 19.1	19.6
153866 2001 XQ_{78}	16.0	X	211.96438	353.73470	113.14029	8.87365	0.1481226	0.23490208	2.6014260	21	8 11.7	20.1
153867 2001 XC_{79}	16.5	X	196.15120	242.38868	176.17709	5.77987	0.2647433	0.22843441	2.6503000	21	5 24.8	21.3
153868 2001 XR_{83}	15.9	X	137.02678	212.70045	234.70759	9.35143	0.2262307	0.22140937	2.7060681	21	5 10.9	20.2
153869 2001 XE_{85}	15.4	X	329.02094	238.05440	149.55400	3.90933	0.1910154	0.24078413	2.5588853	21	10 11.1	17.6
153870 2001 XD_{87}	15.3	X	6.94254	115.37867	236.02772	3.57375	0.1828001	0.24190446	2.5509785	21	11 5.7	17.7
153871 2001 XQ_{88}	15.9	X	353.86208	226.37048	140.32195	3.42250	0.1857409	0.24209857	2.5496147	21	11 4.5	18.1
153872 2001 XC_{90}	15.7	X	75.50390	174.49936	60.34047	15.84058	0.0455155	0.23593816	2.5938046	21	8 27.9	19.5
153873 2001 XY_{91}	16.1	X	79.45658	116.14078	56.61995	17.82118	0.1405339	0.22543826	2.6737305	21	6 12.7	19.7
153874 2001 XN_{102}	17.1	X	131.41319	76.20260	93.31367	24.12724	0.0589157	0.38261272	1.8791572	21	8 17.9	19.6
153875 2001 XL_{103}	16.7	X	350.15509	351.60345	265.40407	20.85699	0.0549848	0.37545740	1.9029568	21	4 20.8	18.9
153876 2001 XR_{121}	16.7	X	286.58728	239.13167	195.23390	1.24956	0.0934618	0.24277753	2.5448590	21	10 8.7	19.7
153877 2001 XB_{131}	16.0	X	142.39847	58.89194	119.64985	4.65189	0.1059602	0.23450566	2.6043569	21	9 3.0	19.8
153878 2001 XM_{141}	16.3	X	49.55173	178.53285	147.74390	2.44278	0.1956407	0.24744212	2.5127752	21	12 9.1	19.7
153879 2001 XY_{141}	16.4	X	188.89287	351.22920	81.27461	10.09997	0.0588894	0.22803058	2.6534281	21	6 5.4	20.0
153880 2001 XG_{148}	15.7	X	296.89518	277.21487	134.00759	3.11809	0.0187132	0.23893271	2.5720869	21	10 2.3	19.0
153881 2001 XH_{148}	15.7	X	113.33960	196.27304	128.14115	3.44266	0.1884409	0.25424802	2.4677301	21	—	—
153882 2001 XW_{148}	16.0	X	198.76758	247.87452	124.60854	4.14584	0.0854807	0.22084925	2.7106416	21	4 2.2	20.1
153883 2001 XQ_{153}	16.3	X	259.30297	105.27414	253.72765	1.21812	0.1365563	0.22813231	2.6526392	21	5 13.7	20.2
153884 2001 XO_{158}	15.4	X	236.22853	179.92058	261.99642	8.71510	0.0492011	0.23344925	2.6122079	21	8 12.0	19.2
153885 2001 XN_{163}	15.8	X	312.72639	243.86051	153.23714	2.46706	0.1116324	0.23992775	2.5649706	21	9 27.1	18.5
153886 2001 XR_{171}	15.8	X	82.88430	256.69432	274.66291	2.38868	0.0176652	0.22458377	2.6805082	21	5 29.2	19.2
153887 2001 XC_{172}	15.5	X	327.54465	286.54479	95.70549	4.56320	0.2524900	0.24105126	2.5569944	21	9 26.0	17.2
153888 2001 XU_{178}	16.0	X	127.46699	336.20530	177.71767	1.66348	0.1286301	0.22533162	2.6745740	21	7 16.5	19.9
153889 2001 XJ_{185}	15.6	X	79.36358	18.07743	103.32007	13.84021	0.1048319	0.21597631	2.7512621	21	4 8.7	19.4
153890 2001 XL_{188}	15.2	X	112.18881	301.72897	271.01455	12.47116	0.1234408	0.23018081	2.6368776	21	9 7.2	19.4
153891 2001 XZ_{193}	15.8	X	129.93067	355.39879	108.70792	5.96004	0.0708732	0.21934117	2.7230520	21	5 11.2	19.7
153892 2001 XE_{196}	16.1	X	184.15272	295.98402	115.15975	3.12654	0.1403505	0.22092405	2.7100297	21	5 5.7	20.5
153893 2001 XC_{197}	15.5	X	197.01773	359.12334	116.19401	10.91569	0.0932315	0.22910043	2.6451610	21	8 10.0	19.4
153894 2001 XT_{198}	16.5	X	202.97938	323.19096	132.04463	3.15799	0.1738631	0.22898289	2.6460661	21	7 16.0	20.6
153895 2001 XF_{206}	16.2	X	148.85373	210.44393	131.67786	5.44456	0.1750780	0.26231821	2.4168540	21	1 1.6	19.6
153896 2001 XT_{206}	15.8	X	355.99250	154.28174	195.94646	4.41452	0.2846468	0.24365087	2.5387742	21	10 26.8	17.3
153897 2001 XV_{206}	16.3	X	278.92994	215.65654	180.61471	3.62567	0.1470068	0.23604468	2.5930242	21	7 25.6	19.5
153898 2001 XT_{210}	15.7	X	61.47727	41.60127	107.13255	11.69926	0.2071084	0.21652572	2.7466061	21	5 1.4	19.0
153899 2001 XJ_{215}	15.9	X	189.63405	244.41852	174.39132	4.12772	0.2639075	0.22469655	2.6796112	21	5 20.3	20.7
153900 2001 XZ_{216}	16.1	X	74.56637	143.57313	83.36495	8.65563	0.1445081	0.23082612	2.6319608	21	8 26.2	19.7
153901 2001 XB_{219}	16.4	X	202.14286	137.58948	30.81865	2.22085	0.1406339	0.24279429	2.5447419	21	10 19.3	20.2
153902 2001 XV_{221}	16.6	X	18.99506	105.28338	283.67762	1.14228	0.0635483	0.25051542	2.4921819	21	12 31.5	19.7
153903 2001 XR_{227}	16.3	X	302.39881	337.54981	16.58832	1.60243	0.0283477	0.23310540	2.6147760	21	7 20.6	19.6
153904 2001 XV_{232}	16.2	X	254.76834	56.31599	22.33442	4.04073	0.1155158	0.23692749	2.5865790	21	8 27.8	19.6
153905 2001 XC_{234}	16.5	X	264.01389	39.19135	60.20054	3.77483	0.1250996	0.24075064	2.5591225	21	10 6.2	19.6
153906 2001 XM_{234}	16.2	X	234.93139	62.27153	306.52230	5.20159	0.1092008	0.22638250	2.6662906	21	4 30.3	20.3
153907 2001 XK_{236}	16.4	X	184.16126	294.49843	32.25575	3.80918	0.1953585	0.26483210	2.4015353	21	1 19.9	20.2
153908 2001 XA_{237}	16.2	X	291.28241	297.63760	47.72758	3.20433	0.2134556	0.23263027	2.6183351	21	5 23.2	19.7
153909 2001 XF_{238}	15.5	X	299.56680	72.77930	327.36742	2.50641	0.1612575	0.23815630	2.5776741	21	8 31.2	18.3
153910 2001 XO_{239}	15.6	X	140.97478	104.15281	33.67771	3.95523	0.0905292	0.22657468	2.6647827	21	7 8.0	19.5
153911 2001 XL_{241}	16.2	X	105.60824	173.67691	94.09755	3.85772	0.0490621	0.24486960	2.5303435	21	11 12.2	19.6
153912 2001 XG_{243}	15.9	X	134.71792	286.49387	108.93666	3.20272	0.0789962	0.21205223	2.7851002	21	2 19.3	19.8
153913 2001 XO_{246}	16.3	X	293.78945	54.67299	36.94396	4.49142	0.1295106	0.24451455	2.5327923	21	11 8.9	19.0
153914 2001 XV_{248}	16.2	X	247.56323	270.22016	179.94656	12.01302	0.1217867	0.23793621	2.5792634	21	8 29.7	19.9
153915 2001 XE_{252}	16.1	X	154.34785	275.25380	189.95757	1.53759	0.0523099	0.22425020	2.6831657	21	6 7.3	19.8
153916 2001 XA_{257}	15.9	X	252.38392	254.41415	134.70064	14.23241	0.1785081	0.23287062	2.6165332	21	6 11.7	20.1
153917 2001 YK_{9}	15.4	X	133.81646	132.41481	37.89759	5.49759	0.1588498	0.22841733	2.6504321	21	8 18.5	19.6
153918 2001 YO_{12}	16.4	X	196.63572	45.63090	23.22360	9.40539	0.0803590	0.22821085	2.6520306	21	6 7.4	20.4
153919 2001 YU_{18}	15.9	X	138.94039	95.48461	356.80043	4.55452	0.0821239	0.21966980	2.7203355	21	5 4.3	19.9
153920 2001 YW_{20}	16.8	X	238.88285	4.25788	31.41909	2.60855	0.0733903	0.23160670	2.6260439	21	6 14.3	20.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
153921 2001 YZ_{22}	16.9	X	247.52899	22.10662	16.54912	1.09882	0.1217822	0.23280111	2.6170540	21	6 23.2	20.7
153922 2001 YQ_{26}	16.1	X	330.17537	33.85656	2.09093	2.09471	0.0232471	0.24265894	2.5456881	21	10 26.7	19.2
153923 2001 YW_{41}	15.7	X	176.30211	42.76322	71.66094	14.60484	0.1000748	0.22989810	2.6390389	21	7 17.2	19.8
153924 2001 YF_{53}	15.9	X	262.74539	30.06703	37.46273	2.25811	0.0275242	0.23548723	2.5971148	21	9 5.2	19.1
153925 2001 YT_{54}	16.8	X	209.91837	37.78461	4.77718	1.77696	0.2136547	0.22786049	2.6547483	21	5 15.3	21.4
153926 2001 YL_{59}	16.0	X	210.32615	345.40853	67.15154	2.70057	0.0958887	0.22720330	2.6598652	21	6 2.2	20.0
153927 2001 YT_{59}	16.4	X	95.79307	11.51888	12.36232	2.70185	0.2026196	0.25904456	2.4371732	21	—	—
153928 2001 YB_{61}	15.7	X	286.90204	309.13000	73.20486	2.83733	0.1241408	0.23386519	2.6091096	21	7 22.8	19.0
153929 2001 YJ_{63}	15.9	X	153.57465	23.67632	81.75695	4.81533	0.1071507	0.22476133	2.6790963	21	6 10.2	19.9
153930 2001 YG_{66}	15.0	X	156.66307	181.80334	294.92516	7.92691	0.1112305	0.17507597	3.1645966	21	6 29.1	19.9
153931 2001 YA_{68}	15.9	X	191.67540	318.95091	89.82216	3.50610	0.0675675	0.22263736	2.6961085	21	5 9.4	19.8
153932 2001 YJ_{70}	15.2	X	110.91979	232.09376	296.84620	10.46018	0.1366369	0.22496689	2.6774641	21	7 19.0	19.0
153933 2001 YR_{71}	15.8	X	333.59869	22.99825	346.36280	3.23090	0.1439741	0.23788014	2.5796687	21	9 21.8	18.4
153934 2001 YD_{74}	16.1	X	209.24767	31.53063	55.23618	2.71066	0.0957702	0.22917535	2.6445845	21	7 16.3	19.9
153935 2001 YC_{80}	15.7	X	33.13585	56.74443	96.19652	9.65574	0.2532006	0.21113315	2.7931768	21	3 12.9	18.1
153936 2001 YJ_{89}	15.9	X	93.46772	169.91420	68.91017	2.96829	0.0754556	0.23197264	2.6232814	21	9 22.9	19.6
153937 2001 YG_{97}	15.3	X	266.76846	326.84677	79.04194	14.34851	0.1631618	0.23585535	2.5944117	21	7 22.2	19.0
153938 2001 YJ_{105}	16.2	X	138.24412	337.94380	163.06021	1.07530	0.0780885	0.22550663	2.6731901	21	7 7.4	19.9
153939 2001 YW_{110}	16.1	X	359.10812	259.91325	102.85041	0.70422	0.1400309	0.24057677	2.5603554	21	11 2.5	18.5
153940 2001 YD_{118}	15.4	X	34.62184	219.20001	309.34448	7.63517	0.0821806	0.21340132	2.7733498	21	3 20.3	18.8
153941 2001 YM_{121}	15.8	X	195.80425	86.17390	53.42639	15.00374	0.1255228	0.23624729	2.5915414	21	9 15.3	20.1
153942 2001 YD_{122}	15.7	X	155.15747	318.31118	344.38449	6.04752	0.0953473	0.25703072	2.4498869	21	—	—
153943 2001 YH_{127}	15.5	X	316.41156	355.16264	21.06926	5.59934	0.1557111	0.23734869	2.5835180	21	8 30.6	18.1
153944 2001 YN_{127}	16.3	X	290.70077	353.43495	19.83346	4.80400	0.1938520	0.23400003	2.6081072	21	7 4.0	19.7
153945 2001 YP_{127}	15.7	X	282.57549	29.83188	325.86350	5.24599	0.3157824	0.23271437	2.6177043	21	5 10.6	19.7
153946 2001 YS_{129}	15.8	X	238.97531	335.32363	35.39168	6.57408	0.0361407	0.22477225	2.6790095	21	5 15.6	19.6
153947 2001 YG_{131}	15.3	X	330.86415	4.31464	351.05984	14.16117	0.1273824	0.23867961	2.5739050	21	8 30.6	18.0
153948 2001 YX_{134}	16.2	X	352.43020	15.20244	263.43809	2.82635	0.0258579	0.22957837	2.6414886	21	6 17.8	19.4
153949 2001 YY_{148}	15.6	X	23.16180	350.25416	287.09114	11.62466	0.1598230	0.22867780	2.6484191	21	8 10.4	18.5
153950 2001 YL_{156}	16.0	X	179.56688	70.63735	321.81676	13.64641	0.1636449	0.22080347	2.7110163	21	4 1.0	20.7
153951 2002 AC_{3}	18.6	X	264.91826	215.07400	314.44498	15.47440	0.3426906	0.39621365	1.8359031	21	—	—
153952 2002 AZ_{5}	16.4	X	240.07661	76.95666	349.20217	1.26235	0.0980680	0.23188420	2.6239483	21	7 24.3	20.2
153953 2002 AD_{9}	16.7	X	121.86625	9.77663	2.57663	31.02306	0.8088879	0.41730758	1.7735027	21	3 14.9	19.7
153954 2002 AL_{9}	16.6	X	223.72132	335.08874	299.12323	16.86589	0.0666930	0.35723587	1.9671283	21	—	—
153955 2002 AA_{20}	16.2	X	220.89414	234.13660	182.71276	7.42069	0.3129085	0.22938925	2.6429403	21	6 7.7	21.0
153956 2002 AG_{27}	16.1	X	149.65794	297.71365	156.29331	11.83617	0.1553592	0.22390337	2.6859358	21	5 28.3	20.5
153957 2002 AB_{29}	17.8	X	287.48665	73.19224	89.70869	46.53231	0.7586912	0.24456582	2.5324383	21	11 13.3	21.9
153958 2002 AM_{31}	18.2	X	354.79086	197.92941	144.38023	4.64498	0.4516431	0.44347798	1.7030263	21	—	—
153959 2002 AC_{34}	16.9	X	158.11961	125.27023	272.18659	2.18844	0.2004964	0.21728955	2.7401657	21	3 26.9	21.5
153960 2002 AT_{35}	16.4	X	50.91009	47.75211	104.26305	4.43816	0.0689005	0.21514008	2.7583868	21	3 28.6	19.8
153961 2002 AZ_{39}	15.3	X	312.35359	26.54419	141.28762	9.34756	0.1525582	0.20085485	2.8876718	21	—	—
153962 2002 AT_{40}	15.9	X	186.12330	297.28453	166.88866	2.22185	0.1689820	0.22673688	2.6635117	21	7 11.9	20.3
153963 2002 AW_{41}	16.1	X	183.69393	323.49494	154.77532	3.43908	0.1016998	0.22728881	2.6591980	21	7 28.5	20.1
153964 2002 AP_{42}	15.9	X	25.62464	205.20274	142.84796	3.44460	0.3276221	0.24493645	2.5298830	21	12 26.2	19.0
153965 2002 AV_{47}	15.9	X	14.96261	272.92824	293.57460	3.66220	0.0585523	0.21643286	2.7473917	21	4 11.1	19.3
153966 2002 AU_{49}	15.9	X	207.15867	283.07613	116.81448	2.92605	0.1017923	0.22210184	2.7004405	21	5 14.4	20.1
153967 2002 AC_{53}	14.7	X	195.65588	169.07539	280.25049	9.72497	0.0580371	0.17484672	3.1673622	21	7 5.4	19.2
153968 2002 AE_{58}	16.0	X	173.70633	268.31198	139.61765	3.07827	0.2144734	0.21920876	2.7241485	21	4 24.6	20.7
153969 2002 AL_{59}	15.5	X	120.80366	307.70729	135.07467	5.85685	0.1984770	0.21522030	2.7577013	21	4 19.6	19.7
153970 2002 AJ_{79}	16.1	X	275.92757	260.23490	102.38088	4.13710	0.0995245	0.22803427	2.6533995	21	6 13.5	19.7
153971 2002 AT_{80}	15.8	X	193.11007	342.71902	100.55343	15.62565	0.1517134	0.22961686	2.6411934	21	6 22.8	20.1
153972 2002 AD_{81}	15.6	X	136.30628	278.54907	237.34284	11.48175	0.0881854	0.22925628	2.6439621	21	7 22.3	19.7
153973 2002 AH_{82}	15.8	X	223.12551	283.31257	139.25626	6.17106	0.1390286	0.23047584	2.6346269	21	6 26.1	19.8
153974 2002 AV_{87}	15.6	X	165.22523	230.10022	175.17027	3.90432	0.1244987	0.21880041	2.7275369	21	4 8.9	19.7
153975 2002 AV_{93}	16.4	X	257.18568	3.60560	52.96615	2.25037	0.1384557	0.23236494	2.6203279	21	7 27.4	19.9
153976 2002 AX_{101}	16.4	X	57.50685	192.46538	325.00716	3.39903	0.1465193	0.21542370	2.7559652	21	4 20.3	19.6
153977 2002 AG_{106}	16.5	X	277.29677	15.51056	35.00186	1.58050	0.1824591	0.23416024	2.6069175	21	8 7.8	19.7
153978 2002 AE_{111}	15.8	X	59.93522	179.30734	341.72855	4.25331	0.0531261	0.21561186	2.7543616	21	4 17.1	19.3
153979 2002 AQ_{111}	16.0	X	149.18200	349.09604	117.80738	2.82291	0.0385424	0.22108660	2.7087012	21	6 2.4	19.8
153980 2002 AG_{112}	14.6	X	193.80608	110.68018	306.60450	16.17803	0.0790085	0.17041512	3.2220379	21	5 21.5	19.8
153981 2002 AO_{119}	15.8	X	120.49589	344.60569	118.19799	15.16591	0.1676599	0.21730842	2.7400071	21	5 14.0	20.2
153982 2002 AM_{120}	15.6	X	185.86307	88.36209	326.13676	3.67767	0.2737533	0.22243419	2.6977499	21	5 10.3	20.5
153983 2002 AC_{121}	15.8	X	61.62134	106.27804	67.72463	3.27750	0.1394469	0.21635329	2.7480653	21	5 21.1	19.0
153984 2002 AF_{131}	15.7	X	108.89774	331.39876	107.23061	8.68852	0.1753276	0.21311186	2.7758605	21	3 31.3	19.7
153985 2002 AT_{132}	16.4	X	154.66642	330.25014	106.68185	3.54069	0.0768945	0.22059614	2.7127146	21	5 4.8	20.4
153986 2002 AT_{139}	16.5	X	212.40873	313.94116	136.88054	3.72715	0.1863027	0.23336636	2.6128263	21	7 18.5	20.7
153987 2002 AS_{150}	16.2	X	140.80398	65.18565	10.72573	3.23070	0.1779714	0.21707045	2.7420092	21	4 25.8	20.6
153988 2002 AF_{153}	15.3	X	76.74677	54.08652	134.20970	5.74240	0.0810034	0.21962725	2.7206869	21	6 23.2	18.9
153989 2002 AB_{157}	15.9	X	42.21967	64.11806	197.61751	2.98790	0.0278376	0.22654375	2.6650252	21	8 5.2	19.3
153990 2002 AH_{157}	15.8	X	199.12800	106.32683	294.79718	4.99510	0.0553780	0.21929477	2.7234362	21	5 5.6	19.9
153991 2002 AY_{162}	15.5	X	119.07193	340.10784	149.09621	10.20763	0.0999655	0.21897598	2.7260787	21	6 3.6	19.6
153992 2002 AT_{164}	15.6	X	94.26534	187.12006	299.59293	7.78752	0.0459968	0.21440398	2.7646967	21	4 16.0	19.4
153993 2002 AT_{165}	15.8	X	213.41280	188.89997	147.29943	5.81361	0.0436187	0.21100810	2.7942803	21	3 4.4	19.8
153994 2002 AM_{169}	16.1	X	168.79664	133.72557	358.12885	0.74081	0.1504610	0.17688774	3.1429507	21	7 30.2	21.2
153995 2002 AK_{173}	16.3	X	120.29322	36.18383	29.92637	1.63905	0.1445870	0.21341318	2.7732470	21	3 20.6	20.2
153996 2002 AZ_{174}	15.4	X	337.71229	131.03539	114.19068	13.46869	0.1619112	0.21399699	2.7682009	21	4 3.7	18.9
153997 2002 AV_{176}	15.9	X	324.91567	172.64571	326.72964	8.65976	0.1645980	0.19904129	2.9051859	21	—	—
153998 2002 AC_{181}	15.0	X	166.60122	44.70880	41.46558	13.56467	0.1508335	0.22430765	2.6827075	21	5 29.8	19.4
153999 2002 AC_{183}	15.1	X	205.36889	46.17824	2.60051	13.20224	0.1890378	0.22472491	2.6793858	21	5 16.1	19.7
154000 2002 AM_{187}	15.6	X	112.04282	72.43743	17.90071	9.14848	0.2078716	0.21505250	2.7591356	21	4 17.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154001 2002 AY_{187}	15.6	X	263.29957	250.50512	177.80910	15.03823	0.1112249	0.23775142	2.5805996	21	8 21.6	19.2
154002 2002 AD_{193}	15.3	X	131.18767	356.32772	314.50797	7.60093	0.0918977	0.19585802	2.9365798	21	—	—
154003 2002 AL_{197}	16.3	X	231.13894	62.83999	328.88307	1.01944	0.0975090	0.22494115	2.6776683	21	5 28.8	20.1
154004 Haolei	15.3	X	323.48702	301.22993	94.75636	12.85187	0.1837484	0.24630555	2.5204993	21	10 19.7	17.8
154005 Hughharris	15.9	X	306.62833	285.27250	120.97141	15.77409	0.1218743	0.24297182	2.5435022	21	10 6.1	19.0
154006 Suzannehawley	16.2	X	180.87816	310.15875	166.35012	13.35980	0.1191620	0.23241294	2.6199672	21	7 21.9	20.5
154007 2002 BY	17.9	X	266.71481	23.70436	214.26540	2.72386	0.3463370	0.40196246	1.8183566	21	—	—
154008 2002 BU_{7}	15.3	X	61.30590	205.79470	316.09574	12.79476	0.1591599	0.21446603	2.7641634	21	4 30.5	18.9
154009 2002 BE_{16}	15.7	X	13.33957	44.50353	133.91457	10.09778	0.1217764	0.20956349	2.8071070	21	3 5.1	18.9
154010 2002 BZ_{18}	16.1	X	22.03819	89.89479	24.40056	6.32402	0.2101892	0.20484275	2.8500708	21	—	—
154011 2002 BC_{19}	15.8	X	129.40767	34.07977	23.19532	8.41823	0.1908106	0.21366470	2.7710702	21	3 26.3	20.0
154012 2002 BX_{22}	15.6	X	156.87903	95.27855	359.23325	11.27720	0.1635825	0.22345121	2.6895580	21	5 31.4	20.1
154013 2002 BP_{24}	15.4	X	43.61687	153.70511	98.90547	13.98227	0.1504023	0.22385831	2.6862962	21	8 16.4	18.7
154014 2002 BC_{28}	15.6	X	107.64057	349.58960	190.32209	8.95472	0.0798167	0.22424403	2.6832149	21	7 20.5	19.5
154015 2002 BU_{28}	16.2	X	117.86588	81.83825	345.52405	12.39438	0.1950358	0.21414888	2.7668918	21	3 22.7	20.3
154016 2002 BL_{29}	15.5	X	6.16304	127.96991	89.88906	13.17904	0.2195238	0.21213091	2.7844114	21	4 16.1	18.3
154017 2002 BE_{30}	15.8	X	83.34949	66.52779	41.50744	8.63629	0.2336682	0.21123860	2.7922472	21	4 11.7	19.3
154018 2002 BS_{30}	15.7	X	143.62742	94.99655	344.35091	13.90813	0.1949800	0.22074766	2.7114732	21	4 28.5	20.3
154019 2002 CZ_{9}	22.0	X	209.51209	80.81261	142.87878	4.97153	0.3601379	0.64590061	1.3254365	21	—	—
154020 2002 CA_{10}	19.1	X	108.95046	222.16938	145.35385	12.12472	0.5897479	0.51503782	1.5413809	21	—	—
154021 2002 CM_{27}	16.0	X	143.34864	11.92468	57.27343	5.19148	0.1029848	0.21721097	2.7408265	21	4 15.1	20.1
154022 2002 CX_{28}	15.7	X	169.22472	54.30611	345.22781	11.72763	0.2356906	0.21811643	2.7332360	21	4 6.6	20.5
154023 2002 CN_{29}	15.7	X	22.23548	198.62223	43.18723	5.25842	0.0233006	0.22127717	2.7071458	21	6 9.8	19.2
154024 2002 CZ_{31}	15.5	X	91.68846	170.24364	353.32573	8.40883	0.0956239	0.21941128	2.7224720	21	6 11.4	19.3
154025 2002 CJ_{37}	15.5	X	254.90281	164.40131	142.70389	6.84575	0.0651989	0.21081107	2.7960211	21	3 14.8	19.6
154026 2002 CW_{38}	15.5	X	7.59899	142.95057	77.69856	2.81029	0.0519305	0.21432172	2.7654040	21	4 22.6	18.9
154027 2002 CU_{42}	15.3	X	128.66353	351.14386	74.74511	16.58948	0.2502726	0.21562205	2.7542748	21	4 17.3	20.0
154028 2002 CV_{42}	15.3	X	96.43936	340.37827	173.13174	12.35698	0.1379123	0.21726766	2.7403497	21	6 12.4	19.4
154029 2002 CY_{46}	16.4	X	75.77914	319.39256	346.16352	44.19547	0.4626594	0.37935252	1.8899083	21	—	—
154030 2002 CT_{48}	15.6	X	96.07922	335.94874	175.73480	8.41908	0.0848040	0.21872472	2.7281661	21	6 1.7	19.4
154031 2002 CM_{49}	15.5	X	156.81775	171.74797	228.99192	5.60087	0.0112783	0.21181844	2.7871491	21	3 13.2	19.4
154032 2002 CA_{54}	15.9	X	124.50002	328.72870	183.85957	3.23265	0.1186993	0.22092207	2.7100459	21	7 10.3	19.9
154033 2002 CJ_{57}	15.6	X	95.23426	196.44748	279.63311	2.60316	0.0986183	0.21216725	2.7840935	21	4 14.3	19.4
154034 2002 CF_{58}	15.8	X	334.99003	325.15054	343.33178	4.34593	0.1348897	0.22175283	2.7032732	21	6 24.6	18.9
154035 2002 CV_{59}	17.4	X	55.86097	347.12321	13.09684	49.05623	0.5321328	0.74045116	1.2100550	21	—	—
154036 2002 CL_{69}	16.0	X	312.65920	299.62612	318.40418	2.78753	0.0689461	0.21305208	2.7763797	21	3 20.1	19.6
154037 2002 CW_{69}	16.3	X	335.99294	291.04090	59.01651	2.17465	0.0124475	0.23007366	2.6376963	21	9 3.1	19.6
154038 2002 CY_{73}	16.4	X	4.81666	47.54268	29.31429	2.06281	0.0788303	0.19618876	2.9332785	21	—	—
154039 2002 CY_{79}	15.5	X	89.95190	1.82992	25.98339	2.21277	0.1061579	0.20070329	2.8891254	21	—	—
154040 2002 CH_{80}	16.0	X	28.84881	239.13235	357.55135	4.78031	0.0553572	0.21916234	2.7245332	21	6 14.8	19.5
154041 2002 CK_{86}	15.8	X	244.80591	307.52554	11.16596	3.62396	0.0899118	0.21244434	2.7816722	21	3 14.6	20.0
154042 2002 CK_{90}	15.7	X	353.04917	207.27504	23.01447	3.93811	0.0403478	0.21312040	2.7757863	21	4 13.8	19.3
154043 2002 CD_{91}	16.1	X	348.44528	76.84036	69.94341	2.38838	0.1326937	0.20154567	2.8810695	21	—	—
154044 2002 CZ_{93}	15.8	X	298.08643	219.51754	66.00389	3.07237	0.0192098	0.21312599	2.7757378	21	4 15.1	19.6
154045 2002 CD_{98}	15.6	X	71.36958	99.75393	24.99814	1.88291	0.1733398	0.21069110	2.7970823	21	4 4.6	19.0
154046 2002 CX_{104}	15.4	X	287.73444	136.89093	100.94878	3.25298	0.0116503	0.20313516	2.8660207	21	2 2.8	19.4
154047 2002 CG_{116}	15.7	X	119.71766	24.48076	311.40285	0.99713	0.0175294	0.19668491	2.9283435	21	—	—
154048 2002 CL_{119}	15.5	X	345.78716	296.95760	307.53215	8.42862	0.1142649	0.21540988	2.7560831	21	4 10.2	18.9
154049 2002 CQ_{119}	15.7	X	33.16125	70.71363	149.16014	7.87224	0.0190082	0.22050289	2.7134794	21	5 28.5	19.3
154050 2002 CR_{120}	17.1	X	74.58161	251.39353	306.26545	1.46239	0.1507479	0.27162698	2.3613160	21	7 14.8	19.9
154051 2002 CQ_{121}	15.4	X	275.90613	4.67758	297.58081	8.60123	0.1315711	0.21439060	2.7648117	21	3 18.3	19.6
154052 2002 CX_{122}	16.5	X	100.39461	344.43732	160.57236	2.51821	0.1614223	0.21827123	2.7319436	21	6 8.6	20.3
154053 2002 CX_{129}	15.8	X	109.79981	284.82293	167.61192	9.29941	0.1186534	0.21258096	2.7804802	21	4 8.5	19.6
154054 2002 CP_{148}	15.6	X	156.63497	93.70083	156.35526	9.45973	0.0943296	0.18843341	3.0132196	21	12 8.4	20.4
154055 2002 CW_{150}	16.1	X	69.89538	285.22359	154.23366	2.25734	0.1359731	0.20515630	2.8471661	21	1 27.5	19.3
154056 2002 CN_{161}	16.4	X	315.42022	120.21108	352.15929	4.73714	0.0874820	0.24500355	2.5294210	21	—	—
154057 2002 CW_{161}	15.9	X	101.18650	106.98674	344.12590	13.31410	0.1619326	0.21299109	2.7769097	21	3 27.4	19.7
154058 2002 CX_{161}	15.7	X	267.08280	355.51718	69.35098	3.88049	0.1449648	0.23252851	2.6190990	21	8 20.6	19.2
154059 2002 CA_{168}	15.2	X	256.11977	267.89672	355.07217	12.34857	0.0791177	0.20293726	2.8678836	21	1 23.5	19.6
154060 2002 CK_{170}	15.7	X	82.63760	29.94575	79.63846	5.31045	0.1574754	0.21008030	2.8025014	21	4 1.8	19.2
154061 2002 CO_{175}	16.1	X	74.94548	223.19981	36.39857	3.43656	0.0209277	0.23186793	2.6240711	21	9 18.5	19.5
154062 2002 CR_{175}	15.9	X	329.68289	13.84824	350.87425	4.79881	0.2552517	0.23759641	2.5817219	21	8 29.3	17.6
154063 2002 CV_{176}	15.9	X	277.78223	194.99094	119.69486	3.21324	0.0526090	0.21789218	2.7351110	21	4 21.8	19.6
154064 2002 CB_{182}	16.3	X	341.11324	142.48879	336.02453	1.19331	0.0564451	0.19864770	2.9090221	21	—	—
154065 2002 CG_{182}	15.6	X	250.66486	335.12560	111.11224	4.62616	0.0519533	0.18108675	3.0941755	21	9 6.7	19.9
154066 2002 CV_{187}	16.1	X	286.41173	234.96724	54.77132	1.05170	0.0383640	0.21363064	2.7713647	21	4 1.8	19.9
154067 2002 CR_{190}	16.1	X	212.26681	81.95784	317.36416	0.39819	0.1011415	0.22124512	2.7074072	21	5 18.1	20.1
154068 2002 CG_{192}	15.6	X	320.87662	166.94067	122.64216	8.89428	0.0864969	0.21908007	2.7252152	21	5 14.2	19.2
154069 2002 CX_{197}	15.9	X	189.30425	40.37051	319.17479	2.85352	0.1083631	0.21066063	2.7973521	21	3 6.6	20.3
154070 2002 CK_{198}	15.9	X	250.11615	3.59182	333.01016	5.79608	0.1045451	0.21530066	2.7570151	21	4 7.0	20.0
154071 2002 CS_{198}	15.9	X	207.61348	47.67412	345.78977	5.61913	0.0308514	0.21759435	2.7376062	21	5 6.2	19.7
154072 2002 CV_{200}	16.4	X	347.82804	77.77019	64.42284	0.36840	0.0614118	0.20124112	2.8839755	21	—	—
154073 2002 CH_{208}	14.9	X	104.16549	144.01594	150.07787	16.63033	0.2639871	0.18434007	3.0576626	21	12 19.5	20.4
154074 2002 CN_{209}	15.8	X	274.97971	191.57845	56.77017	2.86350	0.0223289	0.20443755	2.8538355	21	1 29.9	19.7
154075 2002 CZ_{212}	15.8	X	309.37597	36.47525	106.39301	3.23562	0.0451271	0.19560823	2.9390792	21	—	—
154076 2002 CG_{222}	15.9	X	111.95377	121.24388	313.35386	4.09032	0.0525505	0.21100914	2.7942711	21	3 6.8	19.8
154077 2002 CV_{222}	15.7	X	264.92359	18.52102	293.76099	4.68908	0.0361111	0.21333396	2.7739335	21	4 1.1	19.6
154078 2002 CO_{223}	16.0	X	83.65583	273.28150	197.40787	3.63669	0.1582082	0.21114062	2.7931109	21	4 1.6	19.5
154079 2002 CJ_{224}	16.1	X	197.55224	37.80211	147.99061	5.90720	0.1851855	0.18371227	3.0646245	21	10 28.7	21.2
154080 2002 CS_{225}	15.5	X	241.52783	254.15036	155.26463	13.60093	0.1693275	0.22960389	2.6412929	21	6 25.9	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154081 2002 CY_{225}	16.4	X	201.04609	297.04209	166.71231	4.39135	0.0934352	0.22788207	2.6545808	21	7 28.3	20.3
154082 2002 CA_{227}	15.3	X	21.15467	142.92404	149.24172	13.64385	0.1527319	0.22741821	2.6581892	21	9 1.4	18.1
154083 2002 CQ_{227}	15.8	X	325.79460	87.07470	190.60077	7.97018	0.1571078	0.21602913	2.7508136	21	4 23.3	19.1
154084 2002 CD_{233}	16.6	X	60.86289	327.11229	147.10755	3.33384	0.1671094	0.20989494	2.8041510	21	3 3.2	19.7
154085 2002 CD_{237}	15.4	X	169.72656	159.61340	105.82646	2.89246	0.1381312	0.18870398	3.0103385	21	—	—
154086 2002 CL_{237}	15.1	X	137.29752	104.65274	164.48412	10.46602	0.0812989	0.18482304	3.0523334	21	12 10.9	20.0
154087 2002 CC_{241}	15.7	X	57.13215	125.87426	295.15813	2.26945	0.1241812	0.19841178	2.9113276	21	—	—
154088 2002 CE_{248}	14.9	X	15.64495	71.97272	164.94085	9.59445	0.1654611	0.21191357	2.7863150	21	5 31.6	17.9
154089 2002 CD_{279}	16.1	X	43.30816	92.33345	167.13875	5.88671	0.2179526	0.22220922	2.6995705	21	9 1.9	19.3
154090 2002 CE_{284}	16.0	X	251.41568	32.67511	309.61052	1.76526	0.0871960	0.21742829	2.7389999	21	4 18.7	19.9
154091 2002 CK_{285}	16.1	X	279.80916	199.01832	35.60205	0.23649	0.1566773	0.20424604	2.8556191	21	1 3.1	20.5
154092 2002 CP_{285}	15.8	X	193.70454	179.90308	171.93140	2.26513	0.0827014	0.21102102	2.7941662	21	3 1.4	20.0
154093 2002 CB_{289}	15.6	X	252.60869	196.59982	118.67963	2.99867	0.2267609	0.21253147	2.7809118	21	3 8.4	20.1
154094 2002 CS_{299}	15.5	X	199.69900	168.14570	35.81792	5.39043	0.0959451	0.18103999	3.0947082	21	11 23.9	20.1
154095 2002 CS_{309}	16.6	X	240.17868	86.97969	96.89282	0.90747	0.1264929	0.19037410	2.9927066	21	12 12.4	20.6
154096 2002 DE	16.1	X	252.55004	255.41965	355.16187	3.93737	0.0725926	0.20141441	2.8823210	21	1 2.5	20.4
154097 2002 DX_{6}	16.3	X	146.30390	90.01706	272.55781	0.92890	0.0780210	0.20347846	2.8627962	21	1 23.7	20.5
154098 2002 DK_{13}	16.0	X	131.80083	168.84642	252.96955	2.44139	0.0820849	0.21312923	2.7757097	21	3 18.8	19.9
154099 2002 DN_{16}	15.9	X	192.31829	189.21499	177.86771	4.48335	0.0831772	0.21103330	2.7940578	21	3 18.8	20.0
154100 2002 DR_{16}	16.1	X	334.75229	111.96877	30.93849	2.20663	0.0594800	0.19741801	2.9210896	21	—	—
154101 2002 DW_{17}	15.7	X	39.98937	36.02607	326.21529	9.43538	0.1103334	0.18884380	3.0088525	21	12 18.2	19.9
154102 2002 DY_{17}	15.6	X	120.35990	218.21523	158.64709	2.13506	0.1233087	0.20194858	2.8772361	21	1 17.2	19.5
154103 2002 EX_{3}	15.7	X	186.98772	144.03060	170.76092	5.03838	0.1117803	0.19907123	2.9048946	21	1 12.1	20.3
154104 2002 EG_{4}	16.0	X	50.07181	304.07211	163.66939	2.23324	0.0225439	0.20288635	2.8683633	21	1 25.8	20.0
154105 2002 EW_{4}	15.7	X	359.47013	267.31988	165.40388	9.60554	0.0999421	0.19213552	2.9743879	21	—	—
154106 2002 EK_{8}	15.8	X	348.43810	169.39486	71.23188	0.47399	0.0145185	0.21254175	2.7808222	21	4 23.1	19.5
154107 2002 EL_{10}	14.9	X	333.63941	334.57084	141.81799	11.18094	0.0547109	0.19150270	2.9809369	21	—	—
154108 2002 EJ_{16}	15.1	X	304.02955	351.22604	256.96675	7.14116	0.1518133	0.20500656	2.8485524	21	2 11.9	19.3
154109 2002 EW_{23}	16.0	X	97.76941	214.17727	177.58762	1.92412	0.0784310	0.19906294	2.9049753	21	1 1.4	19.8
154110 2002 EP_{24}	16.2	X	324.86656	24.09664	157.20936	1.35635	0.0867972	0.20021934	2.8937790	21	—	—
154111 2002 EH_{31}	15.3	X	139.31214	120.19728	105.94305	3.39360	0.1286955	0.17820427	3.1274520	21	10 24.6	20.2
154112 2002 EA_{34}	15.2	X	9.21000	0.42591	9.19479	8.82791	0.0851492	0.18410438	3.0602715	21	11 8.3	19.2
154113 2002 EW_{34}	15.2	X	222.03140	189.72498	140.81538	11.93873	0.0472865	0.20675839	2.8324393	21	3 8.9	19.3
154114 2002 EN_{39}	15.7	X	100.54530	243.62690	172.01393	2.08577	0.0608056	0.20322265	2.8651981	21	1 30.9	19.5
154115 2002 EE_{40}	15.6	X	272.33042	254.26851	356.85804	1.41590	0.1851705	0.19917973	2.9038396	21	1 13.8	20.3
154116 2002 EJ_{56}	15.8	X	174.86314	116.69596	206.03242	4.87525	0.0178545	0.20129013	2.8835073	21	1 1.9	19.9
154117 2002 EJ_{58}	15.6	X	34.49013	357.52443	169.65376	4.55397	0.0095918	0.20984713	2.8045770	21	3 20.6	19.3
154118 2002 EH_{61}	15.5	X	178.14252	298.16823	335.15746	9.72761	0.0052565	0.19328757	2.9625573	21	—	—
154119 2002 EN_{61}	15.5	X	161.33425	149.72662	172.81032	11.34913	0.0941331	0.19698818	2.9253372	21	—	—
154120 2002 EZ_{67}	15.7	X	199.64706	79.84795	201.72675	1.40860	0.0722426	0.19473743	2.9478345	21	—	—
154121 2002 EL_{72}	15.1	X	287.37630	277.45154	198.63818	9.07322	0.1007459	0.18619294	3.0373435	21	11 24.1	19.0
154122 2002 EO_{77}	15.8	X	101.02266	81.99088	330.66561	1.18053	0.0696199	0.20307869	2.8665520	21	1 29.7	19.5
154123 2002 EA_{82}	15.1	X	65.16922	318.81072	349.28021	15.35300	0.0755907	0.18092818	3.0959830	21	10 31.6	19.8
154124 2002 ER_{82}	15.9	X	121.66592	279.01370	198.22912	2.85706	0.0450596	0.21372581	2.7705420	21	5 13.7	19.8
154125 2002 EW_{82}	16.2	X	198.29428	259.54291	322.38014	1.54433	0.0984736	0.18681503	3.0305969	21	12 14.8	20.7
154126 2002 EG_{84}	15.6	X	114.39673	325.18163	61.66752	2.84968	0.0112596	0.20007525	2.8951682	21	1 7.4	19.5
154127 2002 EW_{84}	15.1	X	71.07899	136.28350	166.17303	5.83530	0.1305970	0.17979335	3.1089970	21	11 15.9	19.6
154128 2002 EJ_{91}	15.4	X	122.32261	246.18376	153.79208	6.51440	0.0715499	0.20394285	2.8584487	21	2 9.1	19.3
154129 2002 EA_{94}	15.7	X	150.17380	272.58009	157.43275	4.15422	0.0817938	0.21348160	2.7726545	21	4 21.9	19.7
154130 2002 EP_{97}	15.2	X	23.96572	295.73765	234.66693	8.16747	0.0968298	0.20908413	2.8113959	21	3 6.7	18.8
154131 2002 EK_{102}	15.3	X	319.70484	273.37082	227.83150	10.53154	0.1349200	0.19595635	2.9355973	21	—	—
154132 2002 EL_{107}	15.6	X	348.12882	21.32900	131.03327	13.06832	0.1998710	0.20061241	2.8899979	21	—	—
154133 2002 EM_{107}	15.0	X	253.80820	304.63040	35.27077	16.82901	0.2353322	0.21149742	2.7899688	21	4 9.6	19.6
154134 2002 ET_{111}	14.5	X	118.56611	203.75488	62.49220	11.61444	0.1855614	0.17852472	3.1237083	21	11 23.0	19.5
154135 2002 EC_{113}	15.4	X	154.18384	305.00050	61.02798	2.77896	0.0818547	0.20261951	2.8708811	21	2 7.3	19.5
154136 2002 ES_{121}	16.4	X	242.39941	186.67725	132.59613	2.07808	0.0688122	0.21040129	2.7996502	21	3 14.6	20.5
154137 2002 ET_{122}	15.0	X	70.70203	287.58183	348.07349	5.52713	0.1184574	0.17599757	3.1535394	21	10 8.9	19.5
154138 2002 EZ_{122}	15.1	X	54.72060	347.13292	318.18018	3.84240	0.1369391	0.17841343	3.1250072	21	10 28.4	19.4
154139 2002 EZ_{138}	15.4	X	344.45823	73.75067	52.11127	2.80908	0.0315287	0.19535364	2.9416322	21	—	—
154140 2002 EY_{151}	15.5	X	343.69846	278.68328	167.54344	9.02718	0.0690516	0.19043892	2.9920274	21	—	—
154141 Kertész	15.9	X	123.02763	75.46155	229.04560	1.32976	0.1589767	0.18677273	3.0310544	21	—	—
154142 2002 FW	15.4	X	180.58408	58.39635	185.86073	14.95325	0.2645118	0.18381683	3.0634622	21	12 15.3	21.0
154143 2002 FJ_{2}	14.6	X	163.27439	248.84150	16.94270	10.52342	0.2867413	0.18255224	3.0775936	21	12 26.6	20.3
154144 2002 FA_{5}	17.4	X	198.15204	126.36884	172.57569	23.62062	0.2961798	0.39678995	1.8341250	21	—	—
154145 2002 FX_{5}	15.1	X	126.17971	146.87724	87.09181	16.79112	0.0996273	0.17478689	3.1680849	21	10 25.7	20.2
154146 2002 FR_{11}	15.2	X	277.60464	105.29942	56.32818	10.65404	0.0433082	0.19086357	2.9875879	21	—	—
154147 2002 FY_{34}	15.1	X	115.79754	56.74199	207.91972	5.01205	0.1392178	0.17846883	3.1243605	21	11 16.4	20.0
154148 2002 FZ_{37}	15.6	X	331.73155	257.57625	38.18291	7.65901	0.1051853	0.21672118	2.7449544	21	6 2.4	18.9
154149 2002 GS_{1}	14.5	X	276.01240	115.49485	162.25524	17.94871	0.3031642	0.19781838	2.9171468	21	2 5.1	19.5
154150 2002 GP_{3}	15.1	X	214.42554	304.06563	201.52567	26.64679	0.1722053	0.17822765	3.1271784	21	9 22.5	20.4
154151 2002 GQ_{3}	15.4	X	127.78853	206.80108	42.38527	15.89666	0.2235299	0.17574633	3.1565442	21	11 11.4	20.9
154152 2002 GX_{3}	14.5	X	117.42001	240.71913	11.15564	26.46809	0.2491359	0.17535742	3.1612095	21	10 30.8	20.2
154153 2002 GS_{4}	16.3	X	185.23724	251.33418	191.20065	21.80401	0.1261513	0.36929195	1.9240787	21	6 10.7	19.4
154154 2002 GB_{11}	17.2	X	279.90601	59.92989	22.89770	19.56125	0.1132599	0.38397866	1.8746980	21	10 29.9	18.4
154155 2002 GS_{11}	14.6	X	154.37024	137.99269	158.37929	13.90868	0.2942118	0.18196534	3.0842076	21	—	—
154156 2002 GY_{12}	14.9	X	111.02577	301.06399	18.09102	9.14487	0.1332495	0.18493160	3.0511388	21	—	—
154157 2002 GW_{21}	15.1	X	188.72476	342.71176	223.19525	21.35693	0.2460541	0.18002582	3.1063199	21	11 8.4	20.5
154158 2002 GO_{35}	15.7	X	177.30265	95.00670	247.99863	0.83282	0.0812633	0.20024013	2.8935787	21	2 3.3	20.1
154159 2002 GB_{39}	14.8	X	212.93320	87.81725	188.86243	9.08924	0.0380726	0.19353004	2.9600823	21	—	—
154160 2002 GG_{46}	15.1	X	267.51686	147.01272	71.33101	6.01192	0.0378017	0.19560832	2.9390784	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154161 2002 GV_{48}	16.1	X	245.80469	17.88123	246.43737	0.91370	0.0654853	0.19649177	2.9302622	21	1 12.5	20.5
154162 2002 GE_{56}	15.2	X	188.20348	160.13305	346.77185	10.21138	0.1460048	0.17488807	3.1668629	21	9 4.3	20.2
154163 2002 GZ_{56}	15.0	X	331.48604	275.29381	237.66792	10.96825	0.0993497	0.19772940	2.9180219	21	—	—
154164 2002 GV_{60}	15.4	X	181.12276	311.70140	322.51836	6.94892	0.2890090	0.18566076	3.0431449	21	—	—
154165 2002 GR_{65}	15.2	X	221.32444	169.00594	108.05293	3.19632	0.0455570	0.19515339	2.9436442	21	1 2.6	19.5
154166 2002 GC_{66}	15.4	X	308.63317	76.09308	82.39233	3.09845	0.0430163	0.19200794	2.9757054	21	—	—
154167 2002 GD_{66}	15.2	X	299.97505	274.56784	164.60677	5.46199	0.2206013	0.18195296	3.0843474	21	10 10.5	18.8
154168 2002 GH_{67}	14.3	X	183.66247	324.39929	36.77203	15.08659	0.3011814	0.19987035	2.8971466	21	3 17.2	19.8
154169 2002 GQ_{67}	15.8	X	201.16203	94.68626	108.44520	0.49952	0.0868549	0.18307036	3.0717841	21	11 26.3	20.4
154170 2002 GH_{68}	14.6	X	173.49993	111.61291	159.21629	16.59405	0.2086449	0.18189333	3.0850216	21	—	—
154171 2002 GM_{68}	14.9	X	128.03622	191.23246	93.28022	10.95754	0.0759843	0.18042197	3.1017713	21	12 17.7	19.6
154172 2002 GA_{75}	15.3	X	227.68861	202.08886	86.14654	4.47568	0.1808621	0.19567772	2.9383834	21	1 19.5	20.2
154173 2002 GL_{78}	15.2	X	195.65155	269.69401	4.15766	8.33235	0.2057613	0.18803637	3.0174597	21	—	—
154174 2002 GH_{86}	15.1	X	239.86392	338.76054	167.24363	10.66746	0.0308910	0.18022072	3.1040800	21	11 10.2	19.6
154175 2002 GS_{99}	15.0	X	99.37635	123.33231	183.10011	10.56768	0.1018456	0.18369350	3.0648333	21	12 16.7	19.8
154176 2002 GQ_{102}	15.0	X	124.44585	95.69979	176.13859	15.98257	0.2282760	0.17720933	3.1391471	21	12 7.1	20.6
154177 2002 GR_{105}	14.7	X	111.26244	237.91857	32.98445	27.40414	0.1751055	0.17829795	3.1263564	21	11 15.0	19.9
154178 2002 GW_{105}	15.0	X	207.28751	150.59267	112.18978	10.41990	0.0243466	0.19228037	2.9728939	21	—	—
154179 2002 GV_{106}	15.0	X	257.06042	80.71625	67.13332	11.72059	0.0551690	0.18443873	3.0565720	21	11 28.0	19.2
154180 2002 GP_{109}	14.8	X	325.58093	297.90580	112.84081	12.00205	0.0176741	0.17805902	3.1291525	21	11 4.3	19.3
154181 2002 GW_{113}	14.8	X	126.18954	160.27957	61.71437	10.06362	0.0559573	0.17612006	3.1520771	21	10 5.3	19.5
154182 2002 GP_{115}	15.0	X	90.11909	216.28796	84.32655	8.10622	0.1125845	0.17956952	3.1115799	21	12 1.1	19.7
154183 2002 GJ_{117}	15.1	X	299.34426	285.19946	169.17052	16.46065	0.0756800	0.18387661	3.0627983	21	11 18.5	19.4
154184 2002 GN_{117}	15.6	X	291.77949	76.05260	55.95363	10.94025	0.1851440	0.18965026	3.0003166	21	12 9.2	19.2
154185 2002 GL_{121}	14.9	X	268.49617	120.47718	65.21432	20.16756	0.0606492	0.19198680	2.9759238	21	—	—
154186 2002 GV_{121}	14.7	X	322.97757	228.87552	192.72826	16.45044	0.1916514	0.18290996	3.0735797	21	11 3.5	18.0
154187 2002 GC_{122}	15.6	X	125.12390	135.95926	119.18653	2.53053	0.1836166	0.17786658	3.1314091	21	11 16.2	20.7
154188 2002 GL_{123}	16.1	X	32.68756	95.82482	32.93633	6.54645	0.0347717	0.19903607	2.9052367	21	2 2.1	20.0
154189 2002 GE_{124}	15.8	X	351.01445	77.00511	187.85508	4.90065	0.2706532	0.21146354	2.7902667	21	5 9.6	18.0
154190 2002 GP_{124}	15.6	X	335.60527	199.03033	288.92092	3.01584	0.0264663	0.19395428	2.9557643	21	—	—
154191 2002 GP_{129}	16.0	X	4.62160	175.19413	330.71395	1.76938	0.0424843	0.19856926	2.9097882	21	1 14.4	19.9
154192 2002 GT_{140}	15.6	X	221.42588	80.74713	192.92963	4.45063	0.1096674	0.19209189	2.9748383	21	—	—
154193 2002 GV_{145}	14.9	X	5.18594	326.63384	141.50847	11.15928	0.0435155	0.19283625	2.9671780	21	—	—
154194 2002 GZ_{145}	15.0	X	189.27271	132.18739	154.62310	10.34220	0.0666465	0.19018282	2.9947129	21	—	—
154195 2002 GP_{147}	15.1	X	354.34663	275.61498	158.02029	10.64801	0.1047915	0.18887968	3.0084714	21	—	—
154196 2002 GD_{152}	15.3	X	237.63564	358.88744	162.31143	10.46623	0.0645764	0.18457539	3.0550631	21	11 21.8	19.8
154197 2002 GB_{154}	14.9	X	111.90001	99.38391	162.87892	12.59538	0.1282033	0.17494371	3.1661914	21	11 11.3	20.0
154198 2002 GT_{162}	15.0	X	128.14738	66.39861	177.72033	9.17935	0.0575199	0.17817893	3.1277485	21	10 31.7	19.7
154199 2002 GB_{163}	16.4	X	280.27374	12.74860	140.47342	1.93116	0.2888065	0.19121428	2.9839337	21	12 3.6	19.8
154200 2002 GH_{170}	15.1	X	192.98715	282.25949	25.19451	11.99292	0.0391891	0.19354076	2.9599730	21	1 9.8	19.6
154201 2002 GQ_{173}	15.2	X	223.92899	70.58504	70.96765	11.17571	0.0696944	0.17752830	3.1353858	21	10 14.4	19.9
154202 2002 HK_{3}	14.6	X	129.44588	219.40837	35.90508	17.13031	0.1123341	0.17869172	3.1217618	21	11 13.8	19.5
154203 2002 HD_{7}	15.4	X	183.52036	54.86785	193.27341	10.04944	0.2737564	0.18358964	3.0659891	21	12 20.8	21.0
154204 2002 HL_{8}	14.3	X	249.00053	218.58857	50.19264	24.13042	0.2310033	0.19219666	2.9737571	21	1 14.2	19.8
154205 2002 HX_{13}	16.9	X	68.16382	99.55592	178.01751	22.68002	0.0977637	0.37572071	1.9020677	21	11 7.6	19.3
154206 2002 HD_{16}	16.0	X	170.28452	26.21645	176.74324	1.67415	0.1167760	0.17960215	3.1112031	21	10 25.1	20.8
154207 2002 JH_{5}	14.8	X	196.68877	205.47554	35.58066	13.18890	0.0558826	0.18501556	3.0502156	21	—	—
154208 2002 JS_{21}	14.3	X	77.53580	250.16021	63.19882	23.47202	0.1093866	0.17575725	3.1564135	21	11 30.2	19.0
154209 2002 JV_{23}	14.9	X	207.09160	22.38062	200.27956	15.71701	0.0854572	0.18519080	3.0482912	21	12 24.8	19.7
154210 2002 JD_{36}	14.9	X	179.98209	192.22912	74.68662	12.31830	0.0220747	0.18444220	3.0565337	21	—	—
154211 2002 JZ_{36}	14.5	X	127.43636	171.47396	93.97710	24.22649	0.1585169	0.17849011	3.1241121	21	12 2.4	19.7
154212 2002 JL_{37}	14.9	X	169.32240	247.17681	12.73231	10.07876	0.0193913	0.18339288	3.0681816	21	—	—
154213 2002 JO_{39}	15.0	X	196.02333	129.62860	76.82157	17.67086	0.1619430	0.18007899	3.1057085	21	11 21.7	20.1
154214 2002 JV_{39}	14.8	X	148.67111	88.82058	194.10714	10.84885	0.1024431	0.18099118	3.0952646	21	—	—
154215 2002 JN_{41}	14.7	X	190.57018	346.82130	211.00260	16.03968	0.0617324	0.18001877	3.1064010	21	11 11.1	19.4
154216 2002 JR_{55}	14.3	X	178.09644	281.39981	235.95492	24.15283	0.2424513	0.17258686	3.1949512	21	8 27.1	20.3
154217 2002 JR_{60}	14.6	X	280.82646	172.62620	13.09095	10.21957	0.0463512	0.18853750	3.0121104	21	—	—
154218 2002 JL_{61}	14.5	X	124.57289	84.47377	192.79245	15.33235	0.2668739	0.17739958	3.1369022	21	12 13.4	20.2
154219 2002 JL_{62}	15.0	X	165.52384	105.01491	195.90043	10.13405	0.1239379	0.18546867	3.0452457	21	—	—
154220 2002 JG_{63}	14.9	X	180.10436	178.51920	61.04339	11.21518	0.0670876	0.18130693	3.0916699	21	12 17.5	19.6
154221 2002 JS_{64}	14.8	X	174.82845	224.11520	85.90171	7.87339	0.2846675	0.18499491	3.0504426	21	1 8.0	20.1
154222 2002 JG_{73}	14.5	X	131.32226	193.84398	100.86996	13.33776	0.2060040	0.17755991	3.1350137	21	—	—
154223 2002 JQ_{76}	14.9	X	222.33105	239.11591	18.14261	10.99148	0.0934727	0.19207857	2.9749758	21	—	—
154224 2002 JB_{77}	15.0	X	212.00102	334.17037	210.17475	13.36152	0.0928565	0.18256528	3.0774471	21	11 15.7	19.6
154225 2002 JF_{78}	15.0	X	124.71713	249.54615	17.25527	9.56611	0.1336713	0.17859533	3.1228849	21	11 24.1	20.0
154226 2002 JL_{88}	14.8	X	176.52100	9.36483	210.56095	8.27183	0.0595623	0.18050878	3.1007768	21	11 22.4	19.4
154227 2002 JE_{94}	15.3	X	198.24303	302.80394	247.28538	3.93862	0.1118268	0.17814138	3.1281880	21	11 4.8	20.1
154228 2002 JQ_{95}	14.6	X	57.93011	60.31003	254.63294	8.40107	0.1192450	0.17157937	3.2074459	21	11 10.2	19.2
154229 2002 JN_{97}	16.6	X	249.97559	341.62947	67.64505	10.08808	0.7184700	0.39137892	1.8509915	21	5 23.9	20.8
154230 2002 JM_{98}	14.8	X	70.06570	276.49155	44.30350	10.00546	0.0845714	0.17538449	3.1608842	21	11 27.2	19.4
154231 2002 JO_{103}	15.5	X	137.13930	176.14292	79.20451	7.25118	0.1478098	0.17690725	3.1427196	21	11 25.1	20.5
154232 2002 JC_{104}	14.6	X	182.82100	311.36679	229.64241	12.40526	0.0564321	0.17332356	3.1858915	21	10 9.9	19.5
154233 2002 JL_{109}	15.5	X	245.38321	134.54214	28.53340	5.27794	0.1980049	0.18312860	3.0711329	21	11 12.1	19.9
154234 2002 JP_{109}	14.7	X	145.95163	340.26873	251.14217	9.26719	0.0415272	0.17482587	3.1676140	21	10 31.3	19.5
154235 2002 JZ_{118}	15.0	X	228.24013	77.73115	84.02510	15.00957	0.1055387	0.18284391	3.0743198	21	11 8.7	19.7
154236 2002 JM_{122}	15.0	X	156.97397	109.47175	147.25080	17.56652	0.1287671	0.18068393	3.0987725	21	12 15.7	20.2
154237 2002 JA_{123}	15.0	X	109.52387	188.27146	94.22450	10.29419	0.0476915	0.17915961	3.1163243	21	11 25.3	19.6
154238 2002 JF_{123}	14.8	X	147.94888	105.46419	137.36253	11.10537	0.0337590	0.17925563	3.1152113	21	11 21.3	19.5
154239 2002 JW_{133}	15.0	X	96.45077	304.12673	4.38664	4.78289	0.1284994	0.17694862	3.1422297	21	12 16.8	19.9
154240 2002 JW_{139}	14.9	X	43.88680	337.44655	26.85960	10.33684	0.0038653	0.18139864	3.0906277	21	12 7.7	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154241 2002 JD_{146}	14.6	X	107.91706	100.81861	159.96044	16.61314	0.0740996	0.17265794	3.1940743	21	11 1.7	19.6
154242 2002 KR_{2}	15.7	X	121.74014	73.75949	204.63310	2.09013	0.2775016	0.17713663	3.1400059	21	12 12.9	21.1
154243 2002 KA_{6}	14.9	X	176.78964	63.00416	155.56169	10.37155	0.0326410	0.17768627	3.1335272	21	11 23.6	19.6
154244 2002 KL_{6}	17.5	X	146.22459	98.07513	213.26096	3.24545	0.5487462	0.28124348	2.3071779	21	—	—
154245 2002 KA_{8}	14.7	X	130.47987	92.63503	114.24722	19.13334	0.1085170	0.16998861	3.2274250	21	9 27.7	20.0
154246 2002 KB_{8}	15.0	X	88.19789	150.06643	137.76966	15.70120	0.1392202	0.17258204	3.1950107	21	11 19.9	20.1
154247 2002 KF_{8}	14.6	X	106.67859	98.12901	181.93254	13.65488	0.1119447	0.17470592	3.1690637	21	11 24.4	19.6
154248 2002 KE_{10}	15.2	X	63.38165	211.73359	96.05680	4.72223	0.1848445	0.17223190	3.1993395	21	11 18.9	19.8
154249 2002 KQ_{11}	15.1	X	86.06302	216.85869	89.46955	2.49996	0.1295440	0.17545521	3.1600349	21	12 4.2	19.7
154250 2002 KY_{13}	15.2	X	138.27539	90.00173	189.69140	5.33833	0.1491880	0.17759309	3.1346232	21	12 23.0	20.3
154251 2002 LB_{5}	14.8	X	236.17365	326.15752	260.57503	12.17113	0.1208901	0.18775228	3.0205028	21	—	—
154252 2002 LP_{5}	15.9	X	170.59757	21.37268	233.02058	2.63351	0.0791942	0.18103701	3.0947421	21	12 25.0	20.5
154253 2002 LH_{39}	15.0	X	115.66445	84.69523	172.92928	7.97576	0.1161065	0.17348434	3.1839228	21	11 7.2	20.0
154254 2002 LD_{40}	14.6	X	162.87666	118.25201	201.64195	11.52262	0.1495156	0.18521961	3.0479750	21	—	—
154255 2002 LA_{45}	14.8	X	216.12201	100.30840	125.97329	11.83703	0.0127151	0.18396750	3.0617894	21	—	—
154256 2002 LV_{55}	14.9	X	161.24191	70.52176	179.46160	16.22115	0.1853532	0.17702786	3.1412920	21	12 9.6	20.4
154257 2002 LD_{56}	14.5	X	193.65891	116.77574	137.37242	18.86086	0.3199862	0.18216447	3.0819596	21	—	—
154258 2002 NN_{7}	16.8	X	284.18298	147.13383	155.19139	23.70215	0.0677030	0.35490630	1.9757269	21	3 27.9	19.2
154259 2002 NY_{55}	16.3	X	79.74196	343.62762	317.79789	4.50058	0.2320011	0.27200973	2.3591004	21	12 16.4	20.0
154260 2002 PZ	16.5	X	294.14376	127.75270	184.25577	22.35909	0.0682657	0.35426358	1.9781158	21	4 25.7	18.7
154261 2002 RZ_{8}	16.9	X	338.07951	206.92276	160.43930	2.57931	0.2238358	0.26123049	2.4235583	21	10 4.3	18.2
154262 2002 RW_{12}	14.0	X	153.06211	344.94147	354.04214	5.09041	0.2786993	0.12534376	3.9542814	21	2 1.1	20.5
154263 2002 RM_{39}	14.8	X	124.99603	290.53549	59.37305	1.43856	0.2599983	0.12409302	3.9808072	21	1 20.6	20.9
154264 2002 RP_{42}	14.2	X	144.36354	341.12704	359.79424	8.45376	0.2861131	0.12564264	3.9480079	21	1 29.6	20.7
154265 2002 RX_{91}	16.9	X	176.02028	27.99147	354.43039	3.26026	0.2000797	0.23721254	2.5845065	21	3 23.3	21.2
154266 2002 RQ_{100}	16.3	X	169.05932	194.51254	180.26907	4.46573	0.2566225	0.28691981	2.2766470	21	3 6.4	20.1
154267 2002 RK_{107}	15.0	X	257.33819	171.12291	221.57650	12.64510	0.1926442	0.24553727	2.5257543	21	6 17.1	18.8
154268 2002 RM_{129}	17.9	X	305.07619	357.56583	132.67206	14.57718	0.4651805	0.53066295	1.5109736	21	—	—
154269 2002 SM	17.8	X	198.63043	217.23510	10.88871	14.42681	0.4861382	0.38496021	1.8715100	21	12 14.9	21.1
154270 2002 SG_{5}	17.3	X	251.49030	191.70242	188.20548	3.35331	0.1810166	0.30049690	2.2075441	21	5 25.1	20.5
154271 2002 SZ_{17}	17.4	X	228.62818	60.98712	28.66688	0.65448	0.1095086	0.30575532	2.1821605	21	8 13.1	20.2
154272 2002 SE_{31}	16.9	X	184.73196	319.89921	97.57056	3.17151	0.1854973	0.29484434	2.2356691	21	5 10.8	20.3
154273 2002 SK_{37}	16.7	X	150.13277	209.48662	167.85315	4.98627	0.1488591	0.28457378	2.2891423	21	2 9.2	19.8
154274 2002 SX_{38}	17.0	X	204.47096	10.75972	69.92829	3.22478	0.1308528	0.30101543	2.2050082	21	6 30.7	20.1
154275 2002 SR_{41}	20.1	X	151.04217	258.15303	247.81461	11.57720	0.4907999	0.87404135	1.0833814	21	8 18.6	21.3
154276 2002 SY_{50}	17.6	X	116.77173	99.50362	34.20000	8.73947	0.6895689	0.44300582	1.7042361	21	7 24.0	21.3
154277 2002 SD_{56}	16.3	X	204.65340	215.32842	174.36840	15.01861	0.1038101	0.24180492	2.5516785	21	4 29.5	20.3
154278 2002 TB_{9}	16.5	X	178.36716	322.62603	196.26121	29.73223	0.5914512	0.40653611	1.8046929	21	9 6.7	20.8
154279 2002 TO_{38}	17.5	X	2.83948	137.44412	236.08802	1.29404	0.1263148	0.31400902	2.1437524	21	12 11.2	19.5
154280 2002 TS_{39}	16.3	X	239.15400	338.86338	49.25127	5.69093	0.1544624	0.29614158	2.2291354	21	5 24.6	19.6
154281 2002 TF_{42}	16.7	X	112.80331	81.07874	33.73201	7.65178	0.1747196	0.28943454	2.2634408	21	5 10.6	19.6
154282 2002 TM_{46}	16.7	X	116.12591	32.49636	35.17183	6.47066	0.1618889	0.28397414	2.2923637	21	3 12.7	19.5
154283 2002 TD_{52}	16.8	X	250.32310	308.07629	84.62843	2.82944	0.2001033	0.29908285	2.2144967	21	6 7.9	19.8
154284 2002 TG_{52}	16.5	X	297.45905	328.28946	40.96863	6.21865	0.1112886	0.30241323	2.1982084	21	7 26.2	18.7
154285 2002 TY_{54}	16.7	X	175.68891	355.53930	29.35025	4.85291	0.1907703	0.28681582	2.2771972	21	3 22.7	20.2
154286 2002 TO_{81}	16.4	X	35.14120	256.17535	98.24737	5.90176	0.2127399	0.26794518	2.3828978	21	—	—
154287 2002 TE_{101}	17.3	X	220.44442	157.10233	257.04660	2.17890	0.1402604	0.29990596	2.2104430	21	6 10.6	20.4
154288 2002 TR_{118}	17.0	X	171.78555	90.79214	302.57137	4.60624	0.1725871	0.28967949	2.2621647	21	3 24.7	20.5
154289 2002 TY_{127}	16.7	X	215.34980	79.21874	278.70670	5.76925	0.1365960	0.29304014	2.2448361	21	3 18.9	20.1
154290 2002 TA_{208}	16.4	X	158.51479	38.95936	10.00892	6.53364	0.1518971	0.28815905	2.2701151	21	4 1.5	19.6
154291 2002 TT_{249}	16.7	X	323.96478	334.78499	32.34752	4.09102	0.0736130	0.30687825	2.1768340	21	9 15.2	18.6
154292 2002 TJ_{258}	17.3	X	319.22452	324.72404	58.50261	6.31164	0.1820813	0.30882790	2.1676627	21	9 27.4	18.6
154293 2002 TF_{260}	16.9	X	319.18030	238.07939	154.03397	3.63197	0.1137784	0.30957235	2.1641861	21	10 14.8	18.4
154294 2002 TG_{280}	16.9	X	154.81067	185.19459	264.05967	4.90914	0.1406952	0.29278348	2.2461478	21	5 20.2	20.1
154295 2002 TT_{285}	16.3	X	198.15801	116.26271	268.33037	5.54453	0.1431119	0.29091673	2.2557463	21	4 6.4	19.7
154296 2002 TG_{287}	17.1	X	304.85592	29.62929	325.76658	5.12002	0.2015027	0.30379537	2.1915360	21	6 28.5	19.1
154297 2002 TW_{288}	16.3	X	314.45275	64.77188	309.48012	4.59429	0.1851383	0.30666692	2.1778339	21	8 22.9	17.9
154298 2002 TH_{289}	16.7	X	302.54775	10.93380	338.95141	6.16656	0.2112960	0.30250573	2.1977602	21	6 12.4	19.1
154299 2002 TF_{294}	17.0	X	235.08905	230.99732	168.81664	6.65773	0.0721825	0.29935739	2.2131426	21	6 14.3	20.0
154300 2002 UO	19.2	X	83.50959	184.23643	90.67305	8.29342	0.4724944	0.74117141	1.2092709	21	—	—
154301 2002 UZ_{1}	16.9	X	235.87328	274.26061	134.65893	6.90395	0.1850339	0.29978424	2.2110413	21	6 16.9	20.1
154302 2002 UQ_{3}	17.6	X	66.00936	280.89240	222.79329	28.81652	0.5619290	0.43714364	1.7194383	21	6 16.0	19.5
154303 2002 UW_{20}	15.7	X	199.08920	190.18849	243.81275	5.15013	0.0463353	0.24416163	2.5352323	21	6 19.2	19.1
154304 2002 UG_{32}	16.9	X	225.78132	356.16566	46.43248	4.36539	0.1401423	0.29646360	2.2275209	21	5 31.1	20.1
154305 2002 UM_{32}	16.1	X	193.06516	342.88028	13.69124	3.24975	0.1408757	0.23309175	2.6148781	21	3 6.5	20.3
154306 2002 UV_{32}	17.5	X	266.03879	12.28294	11.17074	1.05800	0.2030322	0.30082087	2.2059589	21	6 12.3	20.4
154307 2002 UX_{48}	16.3	X	179.87675	39.57432	28.78531	12.10709	0.2299136	0.23847186	2.5753996	21	5 20.3	20.8
154308 2002 VC_{2}	16.9	X	38.02674	330.80547	175.40888	2.29961	0.1665865	0.27539424	2.3397322	21	2 13.1	18.8
154309 2002 VZ_{5}	17.2	X	153.55065	235.07885	209.88414	4.75351	0.1492070	0.29108919	2.2548552	21	5 14.8	20.5
154310 2002 VZ_{6}	17.1	X	228.27016	348.09705	39.19225	2.44366	0.1907565	0.29565449	2.2315831	21	5 10.1	20.5
154311 2002 VU_{16}	16.8	X	160.42178	141.19984	255.14520	4.78774	0.1579480	0.28697827	2.2763378	21	3 16.1	20.3
154312 2002 VX_{18}	16.7	X	91.43205	329.18772	227.33267	7.05595	0.0381419	0.29920902	2.2138742	21	7 17.3	19.3
154313 2002 VF_{19}	16.0	X	11.17422	258.60103	9.90465	1.62717	0.0283198	0.24573159	2.5244226	21	7 1.4	19.1
154314 2002 VB_{20}	17.3	X	94.85014	344.76206	100.39883	2.74788	0.2018346	0.28040835	2.3117565	21	3 12.2	19.6
154315 2002 VO_{20}	16.7	X	133.53955	150.22600	305.82821	5.20698	0.0723189	0.29175962	2.2513996	21	4 24.5	19.7
154316 2002 VM_{22}	15.7	X	327.69930	66.46141	241.40952	1.06781	0.1056942	0.24651004	2.5191052	21	6 12.9	18.5
154317 2002 VW_{22}	17.2	X	159.66243	52.23239	22.25202	2.73697	0.1318025	0.29053295	2.2577323	21	5 4.8	20.5
154318 2002 VM_{23}	17.5	X	174.39951	53.12030	354.70093	1.43778	0.2205450	0.28956392	2.2627665	21	4 19.2	21.1
154319 2002 VM_{27}	16.6	X	133.45682	261.00441	8.12539	1.94311	0.0155416	0.31617535	2.1339490	21	12 30.7	19.1
154320 2002 VO_{28}	16.8	X	290.57587	182.50090	205.38258	3.77824	0.1272054	0.30408740	2.1901327	21	8 6.2	18.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154321 2002 VE_{34}	16.4	X	132.61200	350.60824	72.81236	6.66591	0.1365108	0.28374541	2.2935955	21	3 25.2	19.5
154322 2002 VF_{45}	16.4	X	200.38721	124.38399	307.07473	0.95967	0.1880014	0.24290877	2.5439423	21	6 12.9	20.6
154323 2002 VP_{47}	16.8	X	155.21267	180.74001	211.37996	3.75737	0.1609956	0.28413105	2.2915197	21	3 7.0	20.0
154324 2002 VS_{48}	15.4	X	65.11135	181.98644	210.35506	5.07354	0.2906154	0.21777447	2.7360965	21	—	—
154325 2002 VW_{63}	17.2	X	222.03896	57.41836	342.88185	3.78742	0.1273273	0.29577283	2.2309878	21	5 24.1	20.5
154326 2002 VP_{64}	17.3	X	194.02275	202.34185	160.63540	3.00318	0.1853837	0.28851355	2.2682552	21	3 9.9	20.7
154327 2002 VP_{65}	16.9	X	173.73937	173.67512	348.55516	5.09534	0.0773723	0.30531236	2.1842707	21	9 19.7	19.8
154328 2002 VM_{80}	16.7	X	225.87993	289.53270	101.41641	7.05403	0.0915603	0.29414548	2.2392088	21	5 20.8	19.7
154329 2002 VA_{92}	16.5	X	292.65451	152.58264	167.30255	7.23488	0.2188044	0.29748183	2.2224351	21	4 16.1	19.3
154330 2002 VX_{94}	18.0	X	54.40638	215.11675	320.10990	7.16173	0.4086948	0.54925292	1.4766848	21	6 14.2	16.2
154331 2002 VF_{95}	17.4	X	30.32757	158.97981	186.31399	4.68359	0.2670036	0.31500993	2.1392090	21	—	—
154332 2002 VO_{97}	17.2	X	248.09504	61.05123	331.32456	1.64598	0.0754743	0.29803383	2.2196901	21	6 19.9	19.9
154333 2002 VW_{97}	17.3	X	282.57664	28.10554	301.66926	1.77552	0.2443632	0.29715193	2.2240797	21	4 11.7	20.4
154334 2002 VW_{101}	15.7	X	207.64860	301.24916	131.78791	3.96365	0.2015724	0.24223260	2.5486742	21	6 21.1	19.9
154335 2002 VH_{105}	16.5	X	286.71592	133.71709	256.37019	6.34220	0.0702857	0.30281788	2.1962496	21	8 11.5	19.0
154336 2002 VA_{112}	17.2	X	132.76966	69.50506	357.88974	2.23465	0.1997313	0.28462168	2.2888855	21	4 3.5	20.4
154337 2002 VV_{121}	15.7	X	253.73994	341.12213	15.13341	13.43911	0.1210133	0.24254876	2.5464589	21	5 1.1	19.5
154338 2002 VJ_{126}	16.6	X	156.68725	149.86969	41.46355	6.61228	0.0496913	0.30602767	2.1808657	21	10 12.4	19.4
154339 2002 WM	15.6	X	354.65511	280.71531	148.30330	21.24937	0.3033551	0.26590017	2.3950999	21	—	—
154340 2002 WN_{1}	16.8	X	73.17488	193.48765	115.87912	3.51115	0.2005467	0.31581103	2.1355899	21	12 24.5	19.8
154341 2002 WQ_{1}	16.8	X	146.19392	282.45952	246.20935	3.58554	0.0503998	0.30124722	2.2038770	21	8 23.4	19.7
154342 2002 WK_{7}	16.6	X	109.04266	86.25043	60.79318	5.37674	0.0981019	0.29162187	2.2521086	21	6 10.3	19.3
154343 2002 WT_{9}	17.0	X	57.69124	26.62352	333.63407	1.75306	0.1126544	0.31868597	2.1227267	21	—	—
154344 2002 WN_{10}	16.8	X	278.94463	238.00767	151.19535	3.96057	0.0738107	0.30115099	2.2043464	21	7 30.4	19.2
154345 2002 WS_{18}	16.8	X	232.71542	176.07623	147.82580	2.98003	0.1927139	0.28729929	2.2746418	21	2 22.9	20.5
154346 2002 XP	17.0	X	281.24936	192.81697	155.72579	6.77771	0.2109474	0.29887922	2.2155024	21	5 13.6	20.0
154347 2002 XK_{4}	16.1	X	164.46433	24.94336	331.65935	17.75407	0.6919707	0.39162901	1.8502034	21	2 26.3	19.9
154348 2002 XB_{14}	16.2	X	29.98853	282.54672	177.74370	5.13337	0.1830780	0.26974249	2.3723011	21	—	—
154349 2002 XH_{17}	17.0	X	177.39609	298.94631	79.52802	6.37419	0.1713770	0.28516526	2.2859758	21	3 17.3	20.6
154350 2002 XX_{18}	17.0	X	153.40794	76.58105	298.70752	1.91263	0.1728202	0.28106765	2.3081400	21	2 13.9	20.3
154351 2002 XG_{24}	17.0	X	134.30365	100.96088	267.03639	1.85453	0.2282037	0.27819565	2.3239984	21	1 21.9	20.0
154352 2002 XB_{26}	16.7	X	142.96875	12.64081	78.25630	4.93397	0.0772207	0.28805005	2.2706877	21	5 4.5	19.7
154353 2002 XF_{26}	16.9	X	104.53705	41.76935	40.92544	2.50357	0.1839669	0.28190427	2.3035710	21	3 19.5	19.4
154354 2002 XP_{26}	16.4	X	340.47953	230.29259	31.64502	7.09735	0.1339137	0.29058387	2.2574686	21	4 18.6	18.3
154355 2002 XU_{32}	15.6	X	123.81769	359.30908	10.87458	3.88588	0.2346620	0.22354247	2.6888259	21	1 25.3	19.5
154356 2002 XE_{36}	17.4	X	185.24446	301.96327	80.50967	1.69253	0.2304161	0.28650492	2.2788443	21	3 29.2	21.0
154357 2002 XO_{44}	15.5	X	253.91913	44.53871	301.91750	11.89303	0.2171845	0.24351675	2.5397063	21	4 6.8	19.8
154358 2002 XM_{47}	16.8	X	213.15599	336.75120	60.87539	4.31294	0.1285762	0.29043163	2.2582574	21	5 12.4	20.1
154359 2002 XZ_{48}	16.9	X	357.00983	200.16010	131.48634	1.41046	0.1369170	0.30535221	2.1840807	21	9 23.7	18.3
154360 2002 XU_{54}	17.1	X	358.52422	322.97805	154.89454	2.40459	0.1611145	0.26996086	2.3710216	21	—	—
154361 2002 XH_{55}	17.2	X	66.09368	265.54865	163.01626	2.99076	0.1675797	0.27433162	2.3457702	21	—	—
154362 2002 XV_{58}	16.4	X	48.13387	168.62100	306.78898	6.40604	0.0836670	0.27630599	2.3345823	21	1 17.8	18.5
154363 2002 XB_{61}	16.7	X	56.91310	280.16765	51.49786	1.88483	0.1729609	0.31388970	2.1442957	21	—	—
154364 2002 XM_{62}	17.0	X	58.67557	117.69324	331.70823	2.27274	0.1393207	0.27502717	2.3418136	21	—	—
154365 2002 XS_{63}	16.1	X	89.31302	115.65345	288.98283	5.06740	0.2508294	0.27510400	2.3413775	21	1 9.5	17.8
154366 2002 XS_{68}	16.4	X	174.79787	254.96062	353.99940	3.53273	0.1235204	0.31766740	2.1272619	21	—	—
154367 2002 XE_{71}	16.4	X	98.90932	160.11163	296.15764	2.27417	0.1829603	0.28118736	2.3074848	21	3 28.1	18.9
154368 2002 XJ_{72}	16.3	X	334.68368	289.96458	59.65719	7.89401	0.0521107	0.30148693	2.2027086	21	9 10.2	18.6
154369 2002 XX_{77}	16.6	X	61.70364	151.97267	348.18372	2.15918	0.1671854	0.28031135	2.3122898	21	3 26.9	18.6
154370 2002 XY_{78}	16.7	X	127.16616	5.91144	36.19567	2.58509	0.1867080	0.27913814	2.3187642	21	2 22.9	19.7
154371 2002 XR_{83}	16.4	X	152.53561	305.64371	122.22779	8.21131	0.1797196	0.28698233	2.2763163	21	4 26.8	19.9
154372 2002 XM_{84}	15.9	X	247.37882	318.28629	39.16237	7.01615	0.2290521	0.29199137	2.2502082	21	4 17.6	19.3
154373 2002 XQ_{84}	17.2	X	249.28222	253.98128	188.19941	3.42795	0.1261920	0.30343818	2.1932555	21	8 25.7	19.7
154374 2002 XK_{85}	16.3	X	125.65587	173.58282	299.46848	6.40900	0.0797822	0.28819050	2.2699499	21	5 10.0	19.2
154375 2002 XO_{86}	16.4	X	93.46876	1.10160	45.68117	5.95306	0.0922167	0.27401279	2.3475895	21	—	—
154376 2002 XC_{110}	17.2	X	119.82210	111.27425	332.96149	2.01603	0.1244721	0.28462183	2.2888847	21	3 30.9	20.0
154377 2002 XC_{113}	16.8	X	104.05627	354.12464	31.81179	2.72187	0.2044260	0.27467350	2.3438233	21	1 1.7	19.1
154378 Hennessy	16.3	X	163.01446	299.36099	357.40116	0.87142	0.1803309	0.25908816	2.4368998	21	—	—
154379 2002 YD_{8}	16.3	X	251.50925	52.68190	140.29980	5.21178	0.0959934	0.25975241	2.4327435	21	—	—
154380 2002 YJ_{17}	17.2	X	150.75958	216.31908	211.75090	1.76504	0.2072216	0.28680323	2.2772639	21	4 23.8	20.7
154381 2002 YN_{26}	16.3	X	98.21339	346.51635	4.41817	1.26620	0.1927882	0.26729336	2.3867702	21	—	—
154382 2002 YS_{26}	17.1	X	32.60862	152.74564	315.20305	1.97714	0.1322337	0.27171378	2.3608131	21	—	—
154383 2002 YA_{27}	16.8	X	117.68507	344.71764	118.60991	3.82387	0.1232621	0.28366564	2.2940254	21	4 26.5	19.6
154384 2002 YG_{29}	16.3	X	273.46283	65.41608	109.44884	5.73148	0.1377839	0.26095918	2.4252378	21	—	—
154385 2003 AS_{6}	16.4	X	47.40121	142.08451	90.74961	7.87924	0.0793946	0.29379541	2.2409872	21	7 12.4	18.7
154386 2003 AU_{9}	16.9	X	79.79545	27.22900	29.63253	0.76574	0.2023538	0.27269816	2.3551284	21	1 1.2	18.7
154387 2003 AQ_{11}	16.9	X	336.91961	173.25554	259.00639	10.08892	0.2848186	0.25942874	2.4347666	21	—	—
154388 2003 AH_{17}	16.1	X	249.05418	285.51305	94.28881	6.77874	0.2064374	0.29346496	2.2426692	21	5 20.9	19.4
154389 2003 AT_{18}	16.4	X	67.41487	326.62940	120.89003	6.51296	0.0894229	0.27569456	2.3380327	21	1 10.5	18.7
154390 2003 AE_{19}	17.1	X	19.05833	282.06287	213.32760	1.83797	0.1741639	0.27141649	2.3625367	21	—	—
154391 2003 AQ_{20}	16.8	X	53.13886	239.47933	174.45879	2.98912	0.1477768	0.26687245	2.3892791	21	—	—
154392 2003 AR_{28}	17.1	X	77.81374	93.86889	331.69848	1.63943	0.1933166	0.27313972	2.3525894	21	1 9.3	18.8
154393 2003 AV_{28}	16.7	X	68.97188	290.69325	147.21508	1.55714	0.1243959	0.27237838	2.3569713	21	1 2.8	18.9
154394 2003 AC_{30}	16.2	X	356.37483	342.80128	99.29086	2.76874	0.1660974	0.26122005	2.4236229	21	—	—
154395 2003 AG_{30}	16.3	X	342.60995	68.42765	128.08273	6.04825	0.1763840	0.27248124	2.3563781	21	1 12.1	19.0
154396 2003 AT_{33}	16.7	X	342.85770	77.75276	37.47345	3.16168	0.1308713	0.26451803	2.4034358	21	—	—
154397 2003 AE_{38}	17.0	X	68.63265	295.32915	161.50450	3.58842	0.1931426	0.27541585	2.3396098	21	2 5.6	18.6
154398 2003 AL_{40}	16.3	X	71.95364	292.66684	176.28686	5.49797	0.1154767	0.27604965	2.3360273	21	2 20.2	18.6
154399 2003 AP_{41}	16.6	X	292.94934	279.06327	219.56784	3.11781	0.1629103	0.25804611	2.4434559	21	—	—
154400 2003 AG_{50}	16.6	X	100.33745	105.56206	342.86676	3.27645	0.1238202	0.27901521	2.3194452	21	3 10.6	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154401 2003 AP_{52}	16.3	X	228.48007	47.91225	13.68376	4.36956	0.1514817	0.29471857	2.2363051	21	6 29.3	19.5
154402 2003 AB_{53}	16.9	X	332.00118	65.77164	68.54125	3.11977	0.1536518	0.26479370	2.4017674	21	—	—
154403 2003 AM_{54}	16.7	X	12.13817	58.95660	359.90856	1.85262	0.2003111	0.26251541	2.4156436	21	—	—
154404 2003 AU_{56}	16.4	X	11.93789	160.15945	330.25263	3.11177	0.1377407	0.26955818	2.3733823	21	—	—
154405 2003 AK_{57}	16.4	X	337.73061	148.53739	357.69885	5.03589	0.1310037	0.26630213	2.3926892	21	—	—
154406 2003 AX_{58}	16.6	X	329.29901	151.60363	329.97397	4.44716	0.1553964	0.26168266	2.4207657	21	—	—
154407 2003 AB_{59}	16.3	X	353.52599	3.27216	86.13419	4.28366	0.1656567	0.26164223	2.4210151	21	—	—
154408 2003 AJ_{75}	15.4	X	81.76169	22.22489	98.58165	22.55687	0.0501666	0.22594943	2.6696964	21	4 7.5	19.5
154409 2003 AN_{75}	16.3	X	30.46812	109.01117	357.28544	10.43682	0.1668130	0.27092178	2.3654118	21	—	—
154410 2003 AY_{77}	15.9	X	353.31174	51.90351	45.33361	10.82535	0.1243512	0.26252055	2.4156120	21	—	—
154411 2003 AR_{82}	16.4	X	13.31906	254.39322	322.96175	5.49179	0.0859810	0.28182827	2.3039852	21	4 13.5	18.8
154412 2003 AX_{82}	17.0	X	326.44717	5.39101	79.74744	1.65272	0.1757689	0.25635194	2.4542095	21	—	—
154413 2003 BQ_{8}	16.8	X	350.49546	273.05358	187.65392	3.70218	0.1594927	0.26377891	2.4079234	21	—	—
154414 2003 BH_{12}	16.4	X	347.67197	350.98742	101.10571	3.71472	0.1451675	0.25991654	2.4317193	21	—	—
154415 2003 BQ_{19}	16.4	X	37.18706	16.54638	30.11746	5.57988	0.1012669	0.26116647	2.4239543	21	—	—
154416 2003 BF_{21}	16.3	X	175.52733	239.69415	130.34674	5.31620	0.1804792	0.27861092	2.3216886	21	3 3.9	19.9
154417 2003 BO_{25}	11.9	X	290.89177	221.29879	97.18752	31.18357	0.0791406	0.08239584	5.2303714	21	5 26.6	19.0
154418 2003 BR_{26}	16.6	X	308.60448	353.99483	148.83804	2.94207	0.1578249	0.25972646	2.4329055	21	—	—
154419 2003 BH_{27}	16.4	X	342.98362	320.51450	167.76977	7.32558	0.2084515	0.26394121	2.4069362	21	—	—
154420 2003 BB_{31}	16.7	X	340.30992	199.70818	266.67776	1.64164	0.1756160	0.26231123	2.4168969	21	—	—
154421 2003 BO_{33}	15.5	X	267.28436	65.86309	176.45249	7.13742	0.0952096	0.26535833	2.3983592	21	—	—
154422 2003 BO_{36}	16.5	X	33.27932	347.22785	126.87898	2.74252	0.1498541	0.27049007	2.3679280	21	—	—
154423 2003 BW_{40}	16.4	X	171.49952	161.10187	137.67584	8.79281	0.0883465	0.26491434	2.4010382	21	—	—
154424 2003 BM_{42}	16.2	X	318.33367	34.97598	140.37894	6.96385	0.0492738	0.26644153	2.3918546	21	—	—
154425 2003 BQ_{44}	16.8	X	44.83850	48.05153	13.01184	2.14025	0.2015023	0.26640793	2.3920557	21	—	—
154426 2003 BE_{47}	16.3	X	177.65039	11.83244	3.56159	11.59891	0.2006398	0.27928889	2.3179298	21	3 13.9	20.0
154427 2003 BC_{48}	16.7	X	336.15331	287.04999	236.95752	1.75744	0.1217268	0.26714238	2.3876694	21	—	—
154428 2003 BE_{48}	16.9	X	71.74667	273.49125	151.58021	5.29892	0.2051273	0.27074094	2.3664651	21	—	—
154429 2003 BY_{49}	16.3	X	230.48763	220.59618	137.05829	7.57071	0.1351083	0.28487598	2.2875231	21	4 10.3	19.7
154430 2003 BX_{50}	17.0	X	28.84152	0.82029	127.32768	0.68755	0.2028267	0.27161389	2.3613919	21	—	—
154431 2003 BN_{51}	16.3	X	74.19506	348.03607	57.37953	2.15748	0.1776794	0.26822364	2.3812483	21	—	—
154432 2003 BP_{51}	16.6	X	266.40893	92.08304	90.62313	3.32301	0.1537969	0.25898008	2.4375777	21	—	—
154433 2003 BE_{55}	16.2	X	223.28547	190.93133	25.79982	2.47495	0.1623789	0.25740674	2.4475004	21	—	—
154434 2003 BC_{56}	16.5	X	193.21409	281.53036	120.35772	4.89184	0.1702594	0.28586647	2.2822361	21	4 29.8	20.1
154435 2003 BO_{57}	16.6	X	149.31524	287.70233	116.80465	3.73744	0.1448760	0.27952753	2.3166103	21	3 18.8	19.8
154436 2003 BD_{66}	16.3	X	305.45997	0.31282	126.21510	3.32958	0.1470428	0.25792661	2.4442105	21	—	—
154437 2003 BX_{67}	17.4	X	45.02152	163.77340	317.85852	1.63871	0.1528565	0.27288974	2.3540259	21	1 22.3	19.3
154438 2003 BM_{77}	17.1	X	184.00794	25.62013	27.12784	3.01828	0.1445537	0.28552494	2.2840557	21	5 2.2	20.5
154439 2003 BW_{77}	16.1	X	112.11266	215.92169	167.84029	7.51239	0.2273838	0.27075292	2.3663953	21	1 14.9	18.9
154440 2003 BO_{79}	16.5	X	325.50056	122.42810	69.32636	7.94436	0.1587090	0.26900196	2.3766529	21	—	—
154441 2003 BV_{80}	16.6	X	272.89337	67.51379	143.32652	3.88319	0.0911097	0.26454634	2.4032644	21	—	—
154442 2003 BS_{82}	16.6	X	123.83097	27.66521	5.97135	6.12638	0.1180570	0.27386604	2.3484281	21	1 29.8	19.5
154443 2003 BX_{82}	16.9	X	6.64159	215.94572	263.60393	0.55913	0.1344287	0.26623711	2.3930788	21	—	—
154444 2003 BF_{83}	16.3	X	143.79422	135.32168	45.65861	4.73670	0.1546799	0.24031433	2.5622191	21	9 10.8	20.4
154445 2003 BQ_{84}	16.4	X	40.80209	54.43921	20.68296	6.29630	0.0982249	0.26552494	2.3973558	21	—	—
154446 2003 CY_{1}	17.3	X	303.50057	80.45769	141.30748	1.25132	0.1737959	0.26860437	2.3789976	21	—	—
154447 2003 CZ_{1}	16.8	X	273.24435	77.30978	112.87778	3.57095	0.1306728	0.26108787	2.4244408	21	—	—
154448 2003 CT_{4}	16.7	X	141.94245	51.78928	357.69503	3.37311	0.1554543	0.27986363	2.3147552	21	3 16.6	20.0
154449 2003 CY_{5}	16.3	X	301.41959	295.86069	191.68890	11.12953	0.2022256	0.25833095	2.4416595	21	—	—
154450 2003 CE_{6}	16.7	X	55.62839	62.58829	47.33913	2.96859	0.0687969	0.27242466	2.3567044	21	1 23.8	19.2
154451 2003 CN_{9}	16.2	X	273.19986	206.49529	203.13078	5.53891	0.2424075	0.24502067	2.5293032	21	7 20.9	19.7
154452 2003 CO_{10}	16.8	X	309.31621	33.02734	156.42414	2.91516	0.1659453	0.26587471	2.3952529	21	—	—
154453 2003 CJ_{11}	15.2	X	169.80818	356.38392	61.69435	20.80760	0.8350290	0.23750072	2.5824154	21	5 16.5	21.5
154454 2003 CG_{12}	17.2	X	52.63175	55.09852	72.25247	2.23922	0.1316669	0.27444348	2.3451328	21	2 15.8	19.1
154455 2003 CL_{12}	16.5	X	268.85330	86.62171	121.84614	6.88168	0.0810338	0.26333652	2.4106194	21	—	—
154456 2003 CE_{18}	16.5	X	226.64279	62.53118	156.20456	3.04267	0.1193075	0.25781105	2.4449409	21	—	—
154457 2003 CK_{19}	17.3	X	334.39200	165.81525	343.33455	2.24027	0.1391496	0.26468740	2.4024105	21	—	—
154458 2003 CU_{19}	16.6	X	93.56770	216.87182	208.17801	1.73911	0.1782115	0.27261309	2.3556182	21	2 4.3	19.1
154459 2003 DJ_{1}	16.7	X	293.90955	52.04836	154.41313	6.82008	0.0211454	0.26687053	2.3892906	21	—	—
154460 2003 DO_{1}	16.4	X	98.01351	359.29771	67.46121	3.82844	0.1536267	0.27246718	2.3564592	21	2 12.5	18.9
154461 2003 DU_{5}	15.5	X	239.82712	68.93743	38.70682	12.38205	0.1472114	0.24616764	2.5214406	21	9 17.9	19.2
154462 2003 DC_{6}	16.3	X	157.10568	191.08693	352.91230	7.00366	0.1547322	0.24026104	2.5625980	21	9 24.1	20.3
154463 2003 DL_{6}	16.6	X	267.84126	67.78146	165.81843	2.23297	0.1746416	0.26274763	2.4142200	21	—	—
154464 2003 DU_{12}	17.3	X	293.17749	51.73668	139.83535	1.73817	0.1170295	0.26196503	2.4190258	21	—	—
154465 2003 DB_{13}	16.4	X	124.12624	188.97542	63.04625	2.83789	0.1581058	0.24410397	2.5356316	21	11 17.7	20.4
154466 2003 DO_{15}	15.5	X	90.94483	101.92914	150.15808	27.21325	0.2184769	0.23709068	2.5853919	21	10 28.8	20.1
154467 2003 DR_{15}	16.6	X	74.54972	57.14127	39.87877	1.12523	0.1754718	0.27316577	2.3524399	21	2 17.7	18.5
154468 2003 DG_{17}	16.5	X	169.40806	252.09286	164.28545	9.21215	0.1047849	0.22551876	2.6730942	21	4 27.5	20.6
154469 2003 DR_{17}	15.6	X	227.30045	270.62690	0.04042	6.62821	0.1283849	0.26170493	2.4206283	21	—	—
154470 2003 DP_{19}	16.5	X	122.95011	290.80099	280.61609	0.75986	0.0939885	0.24017249	2.5632278	21	9 22.2	20.3
154471 2003 DX_{20}	16.4	X	313.69293	170.83948	346.75519	4.55557	0.1281626	0.26138187	2.4226224	21	—	—
154472 2003 DD_{24}	16.0	X	97.55981	223.83467	13.02244	6.57682	0.1431445	0.23830666	2.5765896	21	10 2.3	19.8
154473 2003 DM_{24}	17.5	X	318.33648	143.41922	5.30035	1.12341	0.1363824	0.26065372	2.4271322	21	—	—
154474 2003 EJ_{2}	16.4	X	295.27392	72.58844	182.44264	1.18502	0.1533533	0.27112170	2.3642489	21	2 1.6	19.7
154475 2003 EU_{2}	16.9	X	314.89211	198.54971	14.31751	1.47265	0.1299815	0.26826626	2.3809961	21	1 5.3	20.1
154476 2003 EX_{3}	16.0	X	267.43844	58.38565	343.61666	13.61807	0.0833662	0.23803009	2.5785851	21	8 1.9	19.5
154477 2003 EW_{5}	16.3	X	282.78515	225.86832	322.29679	1.61510	0.1486944	0.25940198	2.4349340	21	—	—
154478 2003 EJ_{10}	15.9	X	228.46785	155.90083	108.00344	3.39011	0.1991678	0.25959236	2.4337434	21	—	—
154479 2003 ET_{10}	16.3	X	234.93557	294.32014	276.72465	2.27407	0.1317197	0.25505582	2.4625170	21	—	—
154480 2003 ED_{18}	16.0	X	198.67708	129.70036	131.42039	5.55927	0.0837710	0.25836281	2.4414587	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154481 2003 EB_{24}	16.7	X	300.69943	161.09619	27.48359	2.69258	0.1719516	0.26202229	2.4186734	21	—	—
154482 2003 EX_{25}	16.5	X	262.77013	214.99337	34.83097	3.83394	0.0917357	0.26462786	2.4027708	21	—	—
154483 2003 EO_{28}	14.4	X	21.12669	282.51977	12.11527	28.22497	0.3576414	0.22876699	2.6477307	21	10 7.7	16.8
154484 2003 EB_{31}	16.4	X	92.15400	273.16959	358.45559	5.82721	0.1776493	0.24140412	2.5545021	21	11 10.9	20.5
154485 2003 EZ_{32}	16.5	X	264.42244	155.71631	32.30895	1.65312	0.0756383	0.25676735	2.4515618	21	—	—
154486 2003 EJ_{33}	15.3	X	306.43871	338.54416	9.04645	9.82546	0.1417884	0.23276089	2.6173555	21	7 1.2	18.6
154487 2003 EZ_{35}	15.7	X	228.78948	128.26692	151.37387	7.61540	0.1058776	0.26354939	2.4093212	21	—	—
154488 2003 EL_{36}	16.0	X	256.85970	250.25809	156.99612	9.14112	0.0512349	0.23630913	2.5910893	21	7 25.4	19.4
154489 2003 EN_{51}	15.8	X	170.72338	302.73336	173.77574	31.26981	0.2481599	0.23366543	2.6105964	21	7 13.8	21.0
154490 2003 EQ_{60}	15.5	X	69.15919	195.83013	19.90788	11.13526	0.1231871	0.23061893	2.6335370	21	7 31.6	19.1
154491 2003 FM_{2}	16.7	X	185.31012	86.91816	73.98472	5.93255	0.1540086	0.23977888	2.5660322	21	9 25.3	20.8
154492 2003 FD_{4}	15.7	X	205.86496	232.07162	178.09433	26.59915	0.0761735	0.22684759	2.6626450	21	5 28.5	20.2
154493 Portisch	16.1	X	131.83978	212.20452	19.96482	10.94935	0.0870150	0.23977280	2.5660756	21	10 26.8	19.9
154494 2003 FL_{10}	16.2	X	152.86973	316.32990	33.38840	3.30976	0.2005066	0.26151818	2.4217806	21	1 19.5	19.7
154495 2003 FU_{15}	15.9	X	74.06881	285.68290	349.83959	13.69826	0.1770097	0.23552373	2.5968464	21	10 23.5	19.8
154496 2003 FK_{18}	16.2	X	229.08019	47.00760	174.00433	3.42508	0.1378194	0.25426394	2.4676271	21	—	—
154497 2003 FD_{21}	15.9	X	130.39822	77.95984	107.39505	13.72476	0.1193479	0.23553339	2.5967755	21	9 2.9	20.0
154498 2003 FT_{24}	16.4	X	103.23410	89.07763	144.68855	4.25585	0.1005698	0.23829804	2.5766518	21	10 1.3	20.1
154499 2003 FX_{26}	16.5	X	183.62189	262.21839	23.67296	2.35532	0.1915828	0.25514308	2.4619554	21	—	—
154500 2003 FZ_{26}	16.0	X	198.79055	255.55957	188.91836	13.79575	0.0593784	0.23170855	2.6252742	21	7 1.4	20.1
154501 2003 FR_{30}	15.4	X	304.52601	189.88967	88.51862	10.27476	0.1203347	0.21705789	2.7421150	21	4 3.4	19.2
154502 2003 FV_{30}	15.4	X	69.26258	177.02972	9.19930	28.81479	0.1165534	0.22677188	2.6632376	21	6 7.5	19.5
154503 2003 FQ_{35}	15.8	X	293.19962	21.05763	1.25163	2.99146	0.1545958	0.23577305	2.5950154	21	7 27.8	18.8
154504 2003 FF_{40}	16.0	X	122.42549	130.70581	2.42553	13.74463	0.1369127	0.22773837	2.6556973	21	6 13.5	20.2
154505 2003 FM_{41}	15.6	X	176.03978	265.31165	14.10196	14.57826	0.1285867	0.25614948	2.4555026	21	—	—
154506 2003 FC_{42}	15.1	X	14.17988	181.34050	149.89141	34.14058	0.1758251	0.23250691	2.6192612	21	10 27.1	18.8
154507 2003 FT_{47}	16.5	X	199.88576	85.37118	351.65383	4.58374	0.0738321	0.22995592	2.6385965	21	6 23.7	20.5
154508 2003 FC_{49}	16.1	X	124.89621	71.69475	132.16110	12.38232	0.0900747	0.23585943	2.5943818	21	9 17.9	20.0
154509 2003 FT_{54}	16.0	X	200.54637	82.79001	87.85530	8.74586	0.1832248	0.24314251	2.5423116	21	10 21.1	20.1
154510 2003 FZ_{55}	16.4	X	135.17118	52.17719	187.22343	4.61504	0.1613724	0.24328680	2.5413063	21	11 13.2	20.4
154511 2003 FG_{56}	15.7	X	164.32751	210.97108	165.95065	5.40837	0.0492283	0.21732723	2.7398490	21	2 25.2	19.4
154512 2003 FH_{56}	17.0	X	267.05115	54.07253	185.32658	2.26945	0.1381701	0.26314277	2.4118026	21	—	—
154513 2003 FM_{57}	15.2	X	231.80675	287.95096	157.17821	14.51316	0.0591092	0.23643574	2.5901642	21	8 12.2	18.9
154514 2003 FQ_{57}	15.8	X	78.33721	108.16750	167.71916	12.54174	0.1607179	0.23899962	2.5716068	21	11 4.9	19.7
154515 2003 FM_{62}	15.8	X	271.87876	294.73856	162.46732	12.31873	0.1156498	0.24525848	2.5276680	21	10 18.4	19.0
154516 2003 FS_{63}	15.7	X	94.70722	161.27261	71.53100	15.23554	0.1433731	0.23531248	2.5984004	21	10 2.3	19.8
154517 2003 FO_{69}	16.3	X	162.46240	63.18590	136.24426	4.95367	0.1142097	0.24118091	2.5560780	21	10 21.6	20.3
154518 2003 FM_{71}	16.4	X	230.98222	211.10496	61.87903	3.00114	0.1382023	0.26068509	2.4269375	21	—	—
154519 2003 FS_{78}	15.6	X	249.61219	211.60170	12.16697	14.66276	0.0894980	0.25893494	2.4378610	21	—	—
154520 2003 FP_{82}	15.7	X	51.65681	167.00333	58.44627	8.43340	0.1795094	0.22624382	2.6673801	21	7 25.4	18.9
154521 2003 FW_{83}	16.5	X	102.24141	324.40092	239.12531	7.29710	0.1828455	0.23202192	2.6229099	21	8 25.5	20.6
154522 2003 FL_{91}	15.4	X	225.69646	214.11876	49.36467	15.22511	0.0931308	0.25798071	2.4438688	21	—	—
154523 2003 FF_{92}	15.9	X	135.88817	346.67151	175.03125	11.72399	0.0726647	0.23170957	2.6252666	21	7 29.7	19.8
154524 2003 FV_{98}	15.8	X	14.33329	68.57514	159.98237	8.93152	0.0975129	0.22210265	2.7004339	21	5 15.1	19.0
154525 2003 FZ_{106}	15.7	X	87.63509	341.47092	211.26048	14.45729	0.1118735	0.22849610	2.6498229	21	7 15.4	19.6
154526 2003 FO_{107}	15.0	X	114.19520	162.52716	53.70041	14.78697	0.1854428	0.23334803	2.6129632	21	10 3.3	19.4
154527 2003 FO_{109}	16.0	X	91.67740	155.25744	58.81374	20.25781	0.1818655	0.23024511	2.6363867	21	9 12.4	20.3
154528 2003 FN_{114}	15.4	X	265.16765	192.08345	201.59801	14.37774	0.0880526	0.23158531	2.6262055	21	7 10.5	19.3
154529 2003 FW_{114}	16.2	X	139.76086	158.17450	29.59526	12.16472	0.0937794	0.23668253	2.5883634	21	9 15.5	20.1
154530 2003 FH_{115}	15.5	X	105.49099	115.77828	101.39239	13.86856	0.1363227	0.23209943	2.6223259	21	9 20.9	19.6
154531 2003 FD_{117}	15.5	X	40.93048	225.82530	53.70438	10.95600	0.1574897	0.23038961	2.6352842	21	9 23.7	18.9
154532 2003 FV_{120}	16.6	X	208.13968	316.92493	187.19756	9.32875	0.1209944	0.24340349	2.5404941	21	9 26.0	20.2
154533 2003 FC_{121}	15.8	X	96.96678	63.10383	173.93997	12.10304	0.1298213	0.23670669	2.5881873	21	10 1.2	19.6
154534 2003 FS_{127}	16.2	X	122.03076	219.06642	36.60667	3.66225	0.1580681	0.24213367	2.5493683	21	11 19.5	20.3
154535 2003 GH_{1}	16.1	X	139.77228	83.68282	171.49545	12.77560	0.1282908	0.24368847	2.5385130	21	12 6.7	20.3
154536 2003 GC_{7}	16.0	X	38.34508	114.93542	179.47643	7.07316	0.2030891	0.23358725	2.6111789	21	10 13.0	19.0
154537 2003 GV_{7}	16.0	X	76.31473	186.29885	95.43141	5.00734	0.0816700	0.23807052	2.5782932	21	10 29.8	19.5
154538 2003 GY_{8}	16.4	X	229.80297	305.85399	185.56942	5.96040	0.1948362	0.24273390	2.5451639	21	9 25.2	20.1
154539 2003 GM_{10}	15.6	X	351.14149	252.32808	26.56187	13.97074	0.1819063	0.22263257	2.6961471	21	6 4.7	18.5
154540 2003 GF_{13}	16.2	X	86.76672	99.30714	165.01459	3.74405	0.0665965	0.23756683	2.5819363	21	10 16.9	19.6
154541 2003 GU_{14}	15.8	X	35.16127	135.28703	113.88845	16.14572	0.0882122	0.22621505	2.6676062	21	7 16.2	18.7
154542 2003 GX_{26}	16.0	X	18.12980	347.02081	19.48690	4.12405	0.1636875	0.24359822	2.5391400	21	12 13.2	18.9
154543 2003 GZ_{28}	15.6	X	304.09258	190.36629	64.22748	8.24294	0.0412046	0.21468459	2.7622870	21	3 13.9	19.4
154544 2003 GP_{33}	15.9	X	164.50739	57.75517	28.83076	11.60933	0.0528340	0.22377680	2.6869485	21	5 23.2	19.9
154545 2003 GC_{35}	15.5	X	340.53779	250.82469	44.57827	14.07019	0.0780307	0.22576141	2.6711785	21	6 18.6	18.9
154546 2003 GL_{36}	16.7	X	65.64850	285.97856	352.23674	2.38921	0.1167132	0.23571581	2.5954355	21	10 13.8	20.0
154547 2003 GC_{37}	16.2	X	124.20284	135.08386	76.29611	9.60856	0.1300814	0.23820466	2.5773252	21	10 1.6	20.3
154548 2003 GP_{37}	16.5	X	130.97749	243.33386	352.76536	1.82538	0.1614839	0.23935443	2.5690648	21	11 3.5	20.5
154549 2003 GK_{38}	15.6	X	55.35456	137.16433	140.13632	14.14610	0.2401459	0.23157818	2.6262594	21	10 23.4	19.5
154550 2003 GT_{43}	15.7	X	9.51071	156.07273	91.13731	16.94499	0.1811715	0.22154764	2.7049421	21	6 2.9	18.4
154551 2003 GC_{44}	14.8	X	330.26046	245.31995	56.84990	32.72153	0.0425215	0.22487055	2.6782287	21	6 9.7	18.5
154552 2003 GX_{47}	16.5	X	159.36833	126.05131	83.47987	4.38440	0.2007667	0.24130035	2.5552344	21	10 29.4	20.8
154553 2003 GO_{50}	15.6	X	86.56182	345.44550	198.49370	15.01646	0.0758185	0.22473275	2.6793234	21	6 28.4	19.5
154554 Heatherelliott	16.2	X	315.36090	301.00727	12.52076	6.32716	0.0832715	0.22493351	2.6777289	21	6 3.7	19.7
154555 2003 HA	16.7	X	311.06445	277.13465	53.49522	36.82543	0.5803684	0.76472832	1.1843078	21	4 1.7	19.4
154556 2003 HZ_{5}	15.2	X	117.00840	105.75778	142.27961	13.64828	0.1559343	0.23666034	2.5885252	21	11 9.9	19.5
154557 2003 HB_{8}	16.4	X	46.56289	177.17433	17.39251	3.30369	0.1107949	0.22120963	2.7076968	21	5 19.9	19.5
154558 2003 HR_{8}	15.1	X	288.63099	169.85148	107.45742	14.54147	0.1216358	0.21244282	2.7816854	21	3 13.7	19.3
154559 2003 HL_{10}	15.5	X	337.96005	127.29153	130.89953	10.07813	0.1515091	0.21709605	2.7417936	21	4 20.9	18.8
154560 2003 HV_{11}	15.7	X	43.21176	171.33117	91.18106	14.27980	0.1744791	0.22730338	2.6590844	21	9 6.6	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154561 2003 HS_{16}	15.9	X	351.07854	183.93140	46.98696	6.11305	0.0241011	0.21836197	2.7311866	21	4 13.9	19.5
154562 2003 HD_{19}	16.2	X	4.66016	54.72774	258.09093	1.58440	0.0356781	0.23309813	2.6148304	21	8 22.6	19.5
154563 2003 HS_{27}	16.5	X	193.41702	258.93363	259.35757	2.59056	0.1889461	0.24002001	2.5643133	21	9 23.3	20.6
154564 2003 HR_{28}	15.1	X	320.37274	263.46257	51.20359	9.35721	0.2383592	0.21975708	2.7196152	21	5 20.9	18.1
154565 2003 HO_{30}	15.1	X	202.57258	48.22411	48.97856	14.71925	0.0452307	0.22864872	2.6486437	21	7 29.4	19.1
154566 2003 HR_{30}	15.7	X	84.70054	310.98478	228.50307	12.25109	0.1944126	0.22370191	2.6875481	21	7 7.2	19.6
154567 2003 HC_{31}	16.4	X	140.17474	94.36150	41.20175	13.06918	0.1424492	0.22807698	2.6530682	21	7 8.7	20.7
154568 2003 HG_{32}	15.5	X	5.25267	223.90780	63.43534	13.14058	0.1664747	0.22708082	2.6608215	21	7 26.9	18.3
154569 2003 HF_{33}	15.9	X	289.48214	5.07866	25.03004	7.80892	0.0917435	0.23437131	2.6053520	21	8 15.1	19.2
154570 2003 HC_{38}	15.4	X	358.37651	64.00703	224.78455	13.24124	0.0746258	0.22314098	2.6920503	21	7 7.8	18.8
154571 2003 HR_{40}	15.0	X	9.88450	232.71056	48.93034	13.57983	0.1795969	0.22281385	2.6946845	21	7 30.6	17.9
154572 2003 HV_{40}	15.3	X	242.40067	74.67602	244.70657	3.09299	0.1183189	0.21128980	2.7917961	21	3 8.9	19.6
154573 2003 HF_{41}	15.5	X	185.04888	175.31951	23.57464	7.50678	0.1531390	0.24119289	2.5559933	21	11 6.8	19.5
154574 2003 HM_{44}	16.1	X	235.85235	321.36485	172.53021	6.10299	0.1735411	0.24306995	2.5428175	21	10 8.8	19.7
154575 2003 HD_{49}	15.9	X	110.21304	164.52731	90.71341	6.00563	0.2159641	0.23668145	2.5883712	21	11 12.9	20.1
154576 2003 HV_{50}	15.2	X	61.08882	225.21260	87.62594	15.58318	0.1750119	0.23459741	2.6036778	21	12 1.9	19.0
154577 2003 HD_{54}	16.7	X	199.71770	134.34422	45.18924	3.01919	0.1836304	0.24371769	2.5383101	21	10 27.6	20.6
154578 2003 HL_{54}	16.5	X	137.58098	328.06982	236.63893	2.14640	0.1118134	0.23703617	2.5857883	21	9 29.6	20.5
154579 2003 HF_{55}	16.9	X	175.60992	323.64691	201.50188	1.85178	0.1210722	0.23784805	2.5799007	21	9 18.6	20.9
154580 2003 HT_{55}	17.0	X	241.75442	258.09112	184.68380	1.67376	0.0741943	0.23783439	2.5799995	21	8 20.4	20.5
154581 2003 JX_{3}	15.1	X	58.78097	290.44760	339.15687	11.85111	0.1582925	0.23161649	2.6259698	21	9 26.2	18.6
154582 2003 JX_{7}	15.4	X	22.15929	236.13967	68.24533	15.51924	0.1380456	0.23002924	2.6380358	21	9 28.6	18.7
154583 2003 JC_{12}	16.5	X	71.34215	210.44400	34.49794	2.49689	0.1403549	0.23161308	2.6259956	21	9 11.8	20.0
154584 2003 KB_{9}	15.5	X	199.54695	163.16310	190.40283	8.72439	0.1937930	0.20941424	2.8084406	21	3 9.7	20.2
154585 2003 KW_{14}	15.8	X	129.22391	356.13571	194.69087	12.75257	0.1115118	0.23002759	2.6380484	21	8 31.5	20.0
154586 2003 KB_{16}	15.5	X	273.01107	112.74090	149.29670	12.03902	0.1584324	0.20610205	2.8384495	21	1 27.5	19.9
154587 Ennico	16.7	X	61.99111	310.73472	110.71760	3.11615	0.0480758	0.20360103	2.8616470	21	—	—
154588 2003 KC_{34}	16.0	X	76.59363	30.48907	91.92504	5.66650	0.0198775	0.21219899	2.7838159	21	3 21.7	19.8
154589 2003 MX_{2}	16.6	X	28.42703	300.51649	58.67979	7.18259	0.4588650	0.28448634	2.2896113	21	—	—
154590 2003 MA_{3}	21.7	X	119.03022	228.85457	152.67069	1.41578	0.4021320	0.84831458	1.1051760	21	—	—
154591 2003 MF_{5}	15.4	X	28.80441	152.67944	137.93648	13.25423	0.1766474	0.22316507	2.6918565	21	9 18.8	18.5
154592 2003 NS_{1}	14.8	X	63.64553	238.83842	126.89223	7.22015	0.1750051	0.18074096	3.0981207	21	—	—
154593 2003 NK_{4}	15.7	X	320.07556	153.11225	129.63712	14.39002	0.1937428	0.21036214	2.7999976	21	4 21.5	19.4
154594 2003 OB	15.4	X	175.61991	159.56661	62.58889	18.25396	0.1483298	0.18163620	3.0879324	21	11 20.8	20.5
154595 2003 OZ	15.9	X	42.22894	138.18699	211.91395	23.57327	0.2555673	0.28360240	2.2943664	21	—	—
154596 2003 OP_{9}	15.9	X	122.49213	107.69049	190.56642	5.38484	0.1567096	0.18194965	3.0843849	21	12 31.2	21.0
154597 2003 OD_{16}	15.3	X	114.35647	134.40870	171.65215	16.95399	0.2188876	0.17998953	3.1067375	21	—	—
154598 2003 OY_{26}	15.7	X	183.04973	162.24604	168.32398	2.11080	0.0983179	0.19476877	2.9475182	21	1 27.1	20.1
154599 2003 OY_{29}	15.6	X	136.97851	212.17273	84.39165	2.40559	0.1676360	0.18206808	3.0830472	21	—	—
154600 2003 PJ_{2}	15.3	X	131.89701	196.00038	121.91694	2.24598	0.2357585	0.18571039	3.0426027	21	—	—
154601 2003 PO_{2}	14.7	X	110.08517	315.60707	310.68633	12.91112	0.1284792	0.17694391	3.1422854	21	11 6.9	19.8
154602 2003 PV_{11}	14.9	X	128.80649	113.51926	202.90131	11.51982	0.0973149	0.18443271	3.0566386	21	—	—
154603 2003 QV_{25}	13.9	X	50.12987	225.99916	175.64518	9.01439	0.2002923	0.12533083	3.9545533	21	—	—
154604 2003 QM_{29}	14.6	X	136.90693	329.28588	283.17669	14.12786	0.1494806	0.17788517	3.1311909	21	11 19.4	19.9
154605 2003 QG_{34}	15.8	X	155.70788	326.78815	330.37555	3.80405	0.1654954	0.18591912	3.0403250	21	—	—
154606 2003 QK_{45}	14.9	X	9.81009	355.30016	26.51140	5.87279	0.1222813	0.17224332	3.1991980	21	11 27.3	18.9
154607 2003 QJ_{57}	14.9	X	144.29729	213.15125	122.83728	10.95762	0.0622316	0.18877762	3.0095557	21	—	—
154608 2003 QE_{63}	14.7	X	30.97296	321.08377	34.79077	5.86938	0.1354896	0.17008212	3.2262419	21	11 27.2	18.9
154609 2003 QF_{97}	16.0	X	208.22789	254.57418	329.28922	1.40162	0.0353015	0.18132689	3.0914430	21	—	—
154610 2003 QD_{101}	15.5	X	115.83860	186.62008	135.43646	2.61915	0.1748294	0.18099225	3.0952524	21	—	—
154611 2003 RL_{4}	14.4	X	80.99894	35.23988	255.36812	13.84810	0.1759528	0.17310855	3.1885290	21	11 14.5	19.3
154612 2003 SO_{37}	17.1	X	58.79348	82.56470	222.26286	3.04280	0.1626632	0.28033458	2.3121621	21	11 23.5	19.9
154613 2003 SJ_{56}	14.4	X	78.18199	31.27687	194.96326	13.39874	0.0272912	0.15835065	3.3836815	21	8 1.6	19.4
154614 2003 SN_{58}	14.6	X	165.84673	301.57950	295.52681	15.44601	0.2054222	0.17839994	3.1251647	21	11 25.9	20.1
154615 2003 SG_{59}	14.5	X	177.24179	305.88144	291.40161	15.70848	0.2019473	0.18091580	3.0961243	21	12 6.7	19.9
154616 2003 SX_{137}	14.5	X	110.76126	105.16543	204.87825	7.72477	0.1151586	0.17371754	3.1810728	21	12 30.3	19.6
154617 2003 SU_{155}	15.5	X	179.63707	159.58890	149.91151	1.50966	0.2560471	0.18737073	3.0246019	21	1 8.9	20.7
154618 2003 SZ_{176}	15.3	X	80.51558	187.41349	144.52775	5.47459	0.1664259	0.17461247	3.1701943	21	12 31.7	20.3
154619 2003 SV_{189}	14.8	X	54.19974	303.43092	41.60648	9.95236	0.0845211	0.17450245	3.1715266	21	12 7.2	19.3
154620 2003 ST_{203}	14.8	X	133.84073	89.83031	206.58587	3.43020	0.0582238	0.17652922	3.1472047	21	—	—
154621 2003 SZ_{204}	14.9	X	1.00943	347.64902	2.43201	2.45251	0.2565941	0.16303888	3.3185008	21	10 12.9	18.3
154622 2003 SD_{205}	15.0	X	180.19325	55.53547	184.47884	5.10019	0.1161164	0.17836879	3.1255286	21	12 15.9	19.9
154623 2003 SU_{238}	15.2	X	101.09049	321.06380	327.96561	4.36104	0.1679849	0.17358194	3.1827292	21	12 1.2	20.4
154624 2003 SS_{260}	15.2	X	167.17406	336.46088	268.30878	2.50075	0.1298456	0.17703891	3.1411612	21	12 8.5	20.2
154625 2003 SP_{297}	14.1	X	326.19378	181.32829	198.23689	25.14875	0.0918225	0.16359866	3.3109266	21	9 13.2	18.5
154626 2003 SP_{309}	16.2	X	330.57296	177.53477	207.74363	4.66778	0.1362789	0.21975842	2.7196042	21	10 6.4	19.0
154627 2003 UO_{14}	15.2	X	327.49107	157.28644	40.21876	7.29354	0.1624798	0.18515382	3.0486971	21	1 17.2	19.3
154628 2003 UA_{224}	16.8	X	275.76951	66.39720	272.98902	2.72918	0.1799790	0.31405422	2.1435467	21	4 23.7	19.7
154629 2003 UM_{263}	14.5	X	96.59882	205.05819	175.75291	9.41186	0.1611926	0.12530189	3.9551623	21	1 13.5	20.1
154630 2003 VA_{10}	16.9	X	117.78285	126.59003	22.63476	20.97479	0.0765085	0.36700661	1.9320578	21	6 17.8	19.5
154631 2003 WO_{25}	18.1	X	313.37077	176.00237	357.85471	15.90537	0.4918330	0.50720343	1.5572127	21	—	—
154632 2003 WT_{151}	12.4	X	303.99337	233.75619	74.91625	27.52206	0.0526435	0.08424217	5.1536668	21	5 27.5	19.1
154633 2003 XT	16.9	X	164.57593	176.71878	275.90311	19.55031	0.0550052	0.36385376	1.9432029	21	5 27.0	19.2
154634 2003 XX_{38}	16.8	X	174.63030	46.06718	3.27886	3.95235	0.1389989	0.30367495	2.1921154	21	4 15.9	20.0
154635 2003 YX	16.4	X	217.49061	208.82269	284.67051	19.68085	0.0672963	0.37750865	1.8960573	21	10 2.2	19.1
154636 2003 YB_{4}	16.6	X	13.50069	254.73171	183.20638	6.16530	0.0521629	0.28346796	2.2950918	21	—	—
154637 2003 YD_{26}	16.7	X	197.15994	66.44135	294.81338	16.73664	0.0714059	0.35314466	1.9822920	21	2 17.4	19.3
154638 2003 YT_{79}	16.5	X	252.63151	142.66878	284.20522	17.78489	0.0805261	0.37219987	1.9140439	21	8 12.2	18.7
154639 2003 YJ_{90}	16.8	X	72.78334	341.68837	66.11367	2.26097	0.2131711	0.28601358	2.2814534	21	—	—
154640 2003 YW_{117}	16.2	X	282.02559	39.35252	319.09749	19.19438	0.0993967	0.36626736	1.9346567	21	6 12.1	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154641 2003 YS_{124}	16.6	X	231.71219	30.89745	318.74380	17.68816	0.0695577	0.35574797	1.9726094	21	3 13.9	19.3
154642 2004 AX_{10}	16.1	X	130.41616	82.75342	26.30051	20.31376	0.0838964	0.35767123	1.9655317	21	5 3.0	18.3
154643 2004 BN_{83}	16.6	X	148.45480	295.24909	166.12675	23.53655	0.0854474	0.35917222	1.9600518	21	5 26.7	19.6
154644 2004 BH_{112}	16.7	X	230.41788	210.00124	138.61445	24.49926	0.0795981	0.35320498	1.9820663	21	3 26.8	19.5
154645 2004 BY_{116}	16.3	X	50.41373	355.42085	65.79540	7.42859	0.1004174	0.28115475	2.3076632	21	—	—
154646 2004 BC_{122}	16.4	X	33.06518	235.29260	46.68712	22.11848	0.0640174	0.36402451	1.9425951	21	9 24.9	18.8
154647 2004 CS_{49}	16.4	X	274.77565	320.11870	279.28693	5.74762	0.1190310	0.28443239	2.2899008	21	—	—
154648 2004 DN_{3}	16.2	X	0.14980	151.67303	173.36045	21.95313	0.0510561	0.36783599	1.9291525	21	9 19.6	17.5
154649 2004 DH_{25}	16.7	X	293.24972	151.56308	177.84614	22.69141	0.0894643	0.35784576	1.9648925	21	5 19.1	19.2
154650 2004 EA_{12}	16.8	X	212.31004	245.36186	167.26067	5.97770	0.0820207	0.30222771	2.1991079	21	6 3.5	19.8
154651 2004 EP_{15}	16.9	X	289.56221	271.51629	277.52947	2.66641	0.0845971	0.27690128	2.3312351	21	—	—
154652 2004 EP_{20}	18.7	X	175.31234	191.33022	159.58330	16.17575	0.4505656	0.90497853	1.0585479	21	—	—
154653 2004 ES_{54}	15.3	X	283.89234	322.48622	289.86155	13.52654	0.0747922	0.22771940	2.6558448	21	1 31.1	19.1
154654 2004 EG_{85}	16.2	X	134.62742	126.95440	21.06984	9.15806	0.0520267	0.24529611	2.5274094	21	7 12.0	19.8
154655 2004 EZ_{110}	16.8	X	320.57741	85.99023	226.11797	1.91995	0.2144575	0.29696896	2.2249931	21	5 15.8	18.9
154656 2004 FE_{3}	16.3	X	281.83410	338.24747	339.09359	22.95914	0.6472861	0.28069776	2.3101672	21	2 26.2	21.0
154657 2004 FE_{11}	16.7	X	80.05333	265.78636	81.98030	3.19625	0.2132092	0.26275621	2.4141674	21	—	—
154658 2004 FA_{18}	19.2	X	251.37189	318.62491	29.59608	19.28739	0.4547682	0.85842490	1.0964812	21	3 1.6	20.4
154659 2004 FT_{20}	16.7	X	359.06367	299.75839	353.36489	6.98146	0.1472865	0.29926298	2.2136080	21	7 24.0	18.4
154660 Kavelaars	17.1	X	257.33587	252.13763	182.42258	22.51099	0.1103456	0.37020352	1.9209188	21	9 1.7	19.2
154661 2004 FL_{32}	15.3	X	269.87363	338.83783	97.03989	28.68896	0.3662772	0.31102677	2.1574341	21	8 10.9	18.6
154662 2004 FO_{46}	16.7	X	69.26276	302.93851	283.22970	1.87914	0.1360997	0.30027505	2.2086313	21	8 16.2	19.0
154663 2004 FP_{65}	16.5	X	268.65200	250.83413	46.90025	7.32936	0.1253146	0.28433474	2.2904251	21	3 4.7	19.8
154664 2004 FM_{67}	16.4	X	236.98304	201.56947	100.87885	4.30192	0.1873454	0.27985277	2.3148151	21	2 1.8	20.1
154665 2004 FS_{70}	16.8	X	253.21816	173.80365	159.59034	5.77884	0.2037646	0.29099475	2.2553431	21	3 25.1	20.3
154666 2004 FQ_{81}	16.1	X	351.95525	164.55841	109.46298	8.92185	0.2421849	0.29094829	2.2555832	21	5 23.0	17.5
154667 2004 FW_{108}	16.4	X	175.17111	130.39140	191.66506	4.53736	0.1349300	0.27379070	2.3488588	21	—	—
154668 2004 FY_{118}	17.1	X	154.61923	13.03439	177.24246	4.37022	0.0622707	0.30814468	2.1708656	21	10 7.4	19.7
154669 2004 FA_{127}	17.0	X	298.02502	329.83633	334.11080	3.08797	0.1583489	0.29133846	2.2535689	21	4 7.1	19.6
154670 2004 FK_{134}	15.5	X	305.88772	247.21047	322.26313	11.61369	0.1111509	0.22173461	2.7034213	21	1 4.4	19.4
154671 2004 FA_{148}	15.7	X	35.17938	244.21922	314.82597	14.07087	0.0957375	0.23327831	2.6134838	21	4 27.7	19.0
154672 2004 GR_{5}	17.5	X	89.15755	186.95087	78.17662	1.23374	0.1677711	0.30716819	2.1754640	21	11 9.3	20.6
154673 2004 GV_{12}	16.2	X	30.81405	202.82346	113.22745	5.53555	0.2270480	0.30283970	2.1961442	21	11 17.9	18.6
154674 2004 GS_{14}	17.3	X	65.47157	287.02005	311.83401	2.75192	0.1647530	0.29904214	2.2146977	21	9 3.2	19.7
154675 2004 GT_{19}	16.0	X	44.35780	7.49853	171.89054	23.49432	0.1800972	0.28875962	2.2669663	21	4 28.5	18.3
154676 2004 GM_{24}	16.8	X	146.16551	343.17181	194.70446	24.73528	0.2051720	0.30411953	2.1899784	21	9 8.9	20.6
154677 2004 GF_{30}	16.8	X	116.36548	141.31414	53.62233	3.19806	0.0716556	0.30204525	2.1999934	21	8 27.9	19.5
154678 2004 GV_{33}	16.6	X	321.96950	210.63549	46.68619	9.38036	0.0948261	0.28523237	2.2856173	21	3 23.4	19.3
154679 2004 GD_{37}	17.3	X	126.34609	255.32816	314.45545	3.09387	0.1080861	0.30660859	2.1781102	21	9 29.9	20.3
154680 2004 GT_{37}	16.4	X	338.57218	270.43689	7.23297	5.21359	0.0829689	0.29169687	2.2517225	21	5 15.0	18.8
154681 2004 GX_{37}	16.9	X	144.59956	93.11456	93.79304	5.23071	0.0442053	0.30478356	2.1867964	21	9 21.8	19.7
154682 2004 GE_{49}	17.2	X	187.42239	12.86469	330.81889	2.11438	0.2304064	0.27763397	2.3271318	21	2 11.5	21.0
154683 2004 GK_{59}	16.8	X	101.97514	136.02378	94.10900	3.27992	0.1028337	0.30436305	2.1888102	21	10 2.4	19.7
154684 2004 GO_{59}	16.8	X	106.78041	87.32348	234.98070	0.87679	0.0951382	0.31709009	2.1298431	21	—	—
154685 2004 GO_{74}	16.7	X	129.03391	58.99835	55.87080	8.92777	0.0646136	0.29405197	2.2396835	21	5 16.9	19.2
154686 2004 GC_{78}	16.7	X	335.54429	345.71215	283.39091	4.44987	0.1339773	0.29068156	2.2569628	21	4 17.8	18.9
154687 2004 HS	16.1	X	338.22579	339.49345	344.62212	7.75325	0.2307910	0.29937939	2.2130342	21	7 20.7	17.3
154688 2004 HV_{1}	16.7	X	12.93765	34.02585	208.91537	7.29393	0.1108260	0.29197125	2.2503116	21	5 26.6	18.6
154689 2004 HF_{2}	16.8	X	21.27991	120.50185	188.27257	3.57814	0.2042771	0.30204424	2.1999983	21	10 16.6	18.5
154690 2004 HA_{6}	16.8	X	116.04688	357.63472	189.64416	3.43527	0.0835345	0.29977487	2.2110873	21	8 14.6	19.5
154691 2004 HF_{18}	16.1	X	44.74266	337.49568	227.98574	3.78057	0.1309332	0.23373566	2.6100735	21	6 4.4	19.0
154692 2004 HL_{26}	17.3	X	64.61011	145.02535	106.99149	2.83267	0.1289585	0.30122359	2.2039922	21	9 18.0	19.8
154693 2004 HR_{44}	16.3	X	41.47684	272.72821	5.54120	5.39141	0.0722806	0.30037012	2.2081652	21	9 11.5	18.6
154694 2004 HW_{48}	17.0	X	89.38874	265.40560	337.07107	4.18545	0.1200519	0.30318564	2.1944733	21	10 2.8	19.9
154695 2004 HD_{50}	16.9	X	261.18476	258.98604	352.89984	1.97805	0.1670849	0.27421196	2.3464526	21	—	—
154696 2004 HX_{61}	16.9	X	120.62326	259.21339	336.10255	4.30529	0.0702075	0.30791129	2.1719624	21	10 25.9	19.7
154697 2004 JY_{1}	17.1	X	346.16046	19.03187	251.89767	5.01831	0.1606997	0.28871975	2.2671750	21	5 10.2	18.9
154698 2004 JQ_{8}	16.8	X	60.01396	224.70602	332.12295	4.39293	0.0799546	0.29269300	2.2466107	21	6 6.5	19.1
154699 2004 JT_{8}	15.1	X	323.57744	290.78010	31.98947	10.15097	0.1355672	0.18069755	3.0986168	21	6 24.9	19.1
154700 2004 JP_{13}	17.0	X	181.15825	292.13467	249.62366	2.62761	0.0255233	0.30982116	2.1630273	21	10 30.7	19.6
154701 2004 JF_{17}	16.7	X	348.77909	248.08586	3.41298	6.32582	0.0928049	0.28908256	2.2652777	21	4 21.2	18.9
154702 2004 JS_{18}	17.0	X	315.65981	110.76006	190.85848	4.15376	0.1867264	0.28960466	2.2625543	21	4 27.3	19.2
154703 2004 JO_{19}	17.3	X	214.44593	81.25380	202.20943	0.87199	0.1736554	0.26989630	2.3713997	21	—	—
154704 2004 JT_{19}	16.2	X	24.07321	139.82498	169.88463	2.10984	0.1860732	0.24165329	2.5527458	21	10 8.9	18.8
154705 2004 JQ_{22}	16.8	X	117.52730	8.87215	280.12962	1.67292	0.1709479	0.25471216	2.4647314	21	12 28.2	20.8
154706 2004 JW_{23}	16.6	X	213.48560	73.37178	247.32451	3.68231	0.1147882	0.27751803	2.3277799	21	2 1.3	20.1
154707 2004 JR_{25}	16.6	X	222.06452	209.17857	64.44756	7.37745	0.1029431	0.27040114	2.3684472	21	—	—
154708 2004 JW_{33}	17.5	X	351.67352	146.01408	142.78031	3.56428	0.2593721	0.29137586	2.2533760	21	6 16.1	18.2
154709 2004 KR	16.3	X	22.41429	5.90206	227.01723	7.30822	0.0871112	0.29047479	2.2580337	21	5 28.3	18.3
154710 2004 KR_{4}	16.4	X	247.32277	264.91393	163.45329	5.93322	0.0483218	0.30218000	2.1993393	21	8 14.9	18.8
154711 2004 KH_{6}	17.1	X	356.53270	5.25367	222.40200	6.54847	0.0961032	0.28551344	2.2841170	21	3 29.4	19.3
154712 2004 KU_{8}	16.6	X	308.03211	47.12980	184.88216	5.90963	0.0837708	0.27968485	2.3157416	21	1 24.5	19.7
154713 2004 LA_{2}	15.9	X	187.97487	348.59660	297.94033	5.45699	0.1999911	0.26080727	2.4261794	21	—	—
154714 de Schepper	16.2	X	102.16260	140.18082	160.31667	8.15051	0.1211579	0.25364487	2.4716406	21	12 25.4	20.0
154715 2004 LB_{6}	18.4	X	64.40550	190.59594	182.76218	4.09847	0.4906326	0.47860120	1.6186522	21	—	—
154716 2004 LV_{9}	16.2	X	130.60106	288.74265	4.24345	5.61240	0.1657341	0.25213068	2.4815265	21	—	—
154717 2004 LX_{9}	15.8	X	139.61456	259.77856	45.19443	6.95948	0.1366236	0.25452120	2.4659640	21	—	—
154718 2004 LG_{18}	15.7	X	47.66527	188.55384	320.58998	25.90452	0.1846146	0.27892920	2.3199221	21	3 1.2	17.8
154719 2004 MV_{4}	16.1	X	180.84599	171.79578	58.63997	9.59006	0.2016597	0.25475832	2.4644337	21	12 10.6	20.2
154720 2004 MJ_{7}	15.5	X	156.68958	357.18188	332.67979	8.03422	0.1966062	0.26229541	2.4169941	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154721 2004 MW_7	16.7	X	252.88229	134.32943	171.55842	5.05805	0.2384113	0.27209075	2.3586321	21	2 16.7	20.5
154722 2004 NA	16.5	X	153.08750	93.88553	256.10017	1.27905	0.2228606	0.26290241	2.4132723	21	1 21.1	20.1
154723 2004 NS	16.7	X	293.34528	120.49198	130.53800	5.85286	0.1907443	0.27482300	2.3429733	21	1 20.6	20.1
154724 2004 NU	16.1	X	13.83885	166.07343	161.06505	3.97148	0.1278967	0.23838995	2.5759895	21	10 7.7	18.8
154725 2004 NC_2	16.1	X	332.44310	260.26518	79.20684	4.29077	0.1795883	0.23234185	2.6205015	21	8 2.5	18.6
154726 2004 NO_2	16.3	X	263.70193	348.29776	291.06663	6.52352	0.1679785	0.27166288	2.3611080	21	1 28.9	19.8
154727 2004 NR_3	16.9	X	185.18652	232.53446	67.94108	4.19776	0.1764186	0.26270534	2.4144791	21	—	—
154728 2004 NM_9	15.9	X	123.54664	204.41767	121.43558	3.51516	0.2053298	0.25543524	2.4600778	21	—	—
154729 2004 NQ_9	15.5	X	153.70190	9.78451	312.29335	5.72621	0.2797728	0.25946446	2.4345431	21	—	—
154730 2004 NW_9	16.7	X	259.82030	158.48952	112.38423	5.01193	0.1752590	0.27115770	2.3640396	21	1 15.3	20.5
154731 2004 NM_{10}	15.5	X	254.88469	358.35418	320.79132	10.45997	0.3070021	0.21571121	2.7535158	21	3 5.5	20.5
154732 2004 NC_{12}	16.1	X	221.98381	353.08563	331.79896	5.23019	0.1207064	0.21312926	2.7757094	21	2 24.6	20.6
154733 2004 NJ_{12}	16.4	X	190.23815	277.84399	20.44209	2.16494	0.2050845	0.26236336	2.4165768	21	—	—
154734 2004 NH_{14}	16.4	X	184.33221	128.02508	173.28099	3.25487	0.1263903	0.26256004	2.4153698	21	—	—
154735 2004 NX_{15}	16.1	X	190.54978	155.39052	143.35387	7.23382	0.1555233	0.26258373	2.4152245	21	—	—
154736 2004 NA_{16}	15.2	X	279.68762	332.37623	331.13739	15.59034	0.1821582	0.21741323	2.7391264	21	3 16.9	19.6
154737 2004 NM_{16}	15.4	X	296.35787	180.65328	138.19248	14.01252	0.1582464	0.22356088	2.6886783	21	5 8.9	19.3
154738 2004 NO_{18}	15.9	X	173.92019	188.61964	156.55177	6.58587	0.1376832	0.26666878	2.3904955	21	1 26.5	19.3
154739 2004 NP_{21}	16.3	X	246.30709	122.88867	148.04656	4.07317	0.2088807	0.26779788	2.3837715	21	1 2.8	20.3
154740 2004 NO_{23}	16.0	X	239.98740	200.58514	155.97725	10.14157	0.2205329	0.21836058	2.7311982	21	4 17.9	20.6
154741 2004 NO_{27}	16.9	X	232.03924	119.40221	161.24878	4.35942	0.1575857	0.26690187	2.3891035	21	1 3.2	20.7
154742 2004 NQ_{30}	17.1	X	211.18911	21.49239	322.53406	0.86413	0.2050107	0.27143164	2.3624488	21	3 2.9	21.0
154743 2004 OJ_2	16.1	X	67.83280	92.63293	233.50732	1.89442	0.1579219	0.24676067	2.5173992	21	12 23.9	19.6
154744 2004 OV_2	16.2	X	343.28930	126.54619	175.08741	2.36354	0.0871724	0.22998553	2.6383701	21	7 2.9	19.3
154745 2004 OT_4	16.3	X	174.23761	27.69491	291.72749	4.22406	0.2203457	0.26255458	2.4154032	21	1 3.5	20.1
154746 2004 OZ_4	16.5	X	152.56145	164.55939	109.68592	3.29746	0.1594939	0.25300044	2.4758359	21	—	—
154747 2004 OM_9	16.9	X	172.79972	305.50365	345.02669	1.89578	0.2136080	0.25993697	2.4315918	21	—	—
154748 2004 OS_9	15.7	X	231.70742	271.30593	68.94382	6.64788	0.0722595	0.21695571	2.7429759	21	3 30.6	19.8
154749 2004 PV_2	16.4	X	250.42434	204.98570	41.08202	2.91334	0.1787563	0.26516916	2.3994997	21	—	—
154750 2004 PF_3	16.8	X	266.21852	168.82155	84.17413	3.20251	0.1322664	0.26858321	2.3791225	21	1 2.4	20.3
154751 2004 PN_3	14.8	X	35.36541	341.86753	326.72129	15.18877	0.0815425	0.17928129	3.1149140	21	9 24.0	19.1
154752 2004 PL_4	15.1	X	355.32451	160.22910	256.45952	12.02672	0.1377993	0.18786320	3.0193137	21	12 24.6	18.6
154753 2004 PF_5	16.6	X	221.73792	50.77923	203.16683	4.52474	0.0762041	0.26046516	2.4283035	21	—	—
154754 2004 PO_9	16.0	X	319.50849	138.88094	149.48794	11.92641	0.1735678	0.22438841	2.6820638	21	4 27.8	19.4
154755 2004 PT_9	15.9	X	200.39654	72.55309	297.64098	3.25748	0.0884310	0.21455499	2.7633993	21	3 29.1	20.1
154756 2004 PW_9	15.7	X	146.71661	176.62600	187.63684	1.76642	0.0831306	0.20482285	2.8502554	21	1 26.2	19.7
154757 2004 PX_9	16.4	X	276.92260	79.22293	277.45184	1.86364	0.1032862	0.22491957	2.6778396	21	6 6.0	19.8
154758 2004 PL_{10}	16.6	X	85.36366	291.38493	336.77223	1.98051	0.1564997	0.24105095	2.5569966	21	10 29.6	20.4
154759 2004 PX_{11}	16.7	X	239.21058	67.64120	161.15967	2.63598	0.1517853	0.26039907	2.4287143	21	—	—
154760 2004 PS_{12}	16.7	X	235.22604	126.71511	166.44820	1.53684	0.1785676	0.26817808	2.3815180	21	1 20.8	20.5
154761 2004 PR_{14}	15.5	X	219.19305	163.58908	349.09497	13.60299	0.1023286	0.24017610	2.5632021	21	10 16.0	19.3
154762 2004 PD_{15}	16.0	X	203.19518	285.91219	36.23152	5.18074	0.1512924	0.26515530	2.3995834	21	1 29.9	19.7
154763 2004 PJ_{15}	15.0	X	21.54527	225.96759	131.13286	9.89297	0.0671525	0.18132902	3.0914188	21	11 13.6	19.3
154764 2004 PP_{15}	16.4	X	233.11146	290.78415	20.64583	1.31926	0.1948675	0.26877949	2.3779641	21	2 10.5	20.3
154765 2004 PQ_{18}	16.2	X	249.51575	126.58397	183.80668	2.31000	0.1678147	0.21357618	2.7718358	21	3 2.3	20.6
154766 2004 PG_{19}	15.6	X	223.72297	16.81241	334.92313	9.35359	0.1867220	0.21360191	2.7716133	21	3 25.4	20.4
154767 2004 PZ_{22}	16.3	X	277.82449	332.82436	326.64066	2.75690	0.1780357	0.21796710	2.7344842	21	3 14.8	20.5
154768 2004 PO_{23}	15.5	X	40.70947	70.56772	322.79669	8.36403	0.0813099	0.19205522	2.9752169	21	—	—
154769 2004 PM_{24}	16.5	X	208.40208	155.48933	99.70130	2.59372	0.1535827	0.25895110	2.4377596	21	—	—
154770 2004 PB_{25}	15.7	X	91.56056	140.88025	161.96339	1.77780	0.1574335	0.18795691	3.0183101	21	12 10.3	20.4
154771 2004 PH_{25}	16.8	X	227.11520	2.36079	278.50414	1.26667	0.1676879	0.26529091	2.3987655	21	—	—
154772 2004 PK_{25}	15.9	X	184.22275	211.36370	148.44336	4.96926	0.0819957	0.21000874	2.8031379	21	3 2.1	20.1
154773 2004 PC_{26}	16.8	X	224.28942	256.10290	49.56214	2.00450	0.1938609	0.26816016	2.3816241	21	1 27.4	20.6
154774 2004 PK_{28}	16.1	X	248.95777	209.08922	149.13761	6.76848	0.0522051	0.22019037	2.7160463	21	5 13.3	20.0
154775 2004 PL_{31}	16.1	X	72.04883	188.67476	121.47741	1.51629	0.1835237	0.18512304	3.0490349	21	12 2.0	20.5
154776 2004 PF_{32}	15.5	X	46.80812	298.23386	90.67649	3.77045	0.1511160	0.18984697	2.9982437	21	—	—
154777 2004 PO_{32}	16.1	X	230.58423	154.64608	115.32298	3.01649	0.1946802	0.26402145	2.4064485	21	—	—
154778 2004 PO_{33}	15.1	X	321.01416	39.98683	332.53242	15.88717	0.0742642	0.17592449	3.1544127	21	8 31.7	19.3
154779 2004 PQ_{33}	16.3	X	334.22335	47.48555	278.75545	1.47975	0.0813914	0.22847760	2.6499660	21	7 23.8	19.4
154780 2004 PB_{35}	15.7	X	79.68942	29.72990	340.60869	10.31636	0.1520546	0.19168847	2.9790107	21	—	—
154781 2004 PW_{37}	16.3	X	334.65076	349.51468	333.52815	1.89138	0.0621591	0.22739336	2.6583829	21	7 21.8	19.5
154782 2004 PS_{43}	16.1	X	254.17543	312.45440	331.41202	3.05434	0.0663273	0.20984903	2.8045600	21	2 12.0	20.2
154783 2004 PA_{44}	13.6	X	115.60631	72.93771	212.52607	3.27994	0.7596976	0.01835801	14.2315532	21	12 23.7	27.2
154784 2004 PG_{44}	16.9	X	218.87578	343.34491	275.25051	3.50192	0.2013514	0.26247617	2.4158843	21	—	—
154785 2004 PV_{48}	16.3	X	347.27463	276.34974	50.76598	4.12009	0.1677464	0.23271392	2.6177076	21	8 18.1	18.7
154786 2004 PY_{51}	16.4	X	239.87704	205.59903	80.23908	3.19805	0.1680721	0.26726615	2.3869322	21	1 17.0	20.1
154787 2004 PJ_{53}	16.3	X	308.97343	242.91563	23.54972	4.28322	0.1128208	0.27549209	2.3391781	21	3 12.7	19.1
154788 2004 PU_{53}	16.2	X	99.83523	198.49926	85.97916	4.45197	0.1307787	0.24366277	2.5386915	21	12 2.7	19.8
154789 2004 PH_{60}	15.9	X	32.67910	298.47929	62.47685	3.15429	0.1952090	0.18223039	3.0812162	21	12 17.6	19.9
154790 2004 PO_{62}	15.2	X	343.22484	80.83606	302.49963	9.24831	0.1243682	0.18091066	3.0961830	21	10 15.2	19.0
154791 2004 PC_{65}	16.3	X	332.52233	310.51853	326.78207	5.69325	0.1465553	0.22110899	2.7085184	21	5 1.2	19.5
154792 2004 PL_{67}	16.5	X	338.00655	95.49359	199.18799	5.20663	0.1637360	0.28441183	2.2900112	21	6 3.0	18.5
154793 2004 PO_{68}	15.7	X	79.06993	226.77872	169.96800	10.77818	0.1065643	0.19751159	2.9201668	21	—	—
154794 2004 PK_{69}	15.8	X	103.77056	315.82449	59.15978	2.71980	0.0731076	0.19793208	2.9160296	21	—	—
154795 2004 PW_{70}	16.1	X	279.80663	158.45499	166.12916	6.55949	0.1777788	0.28051964	2.3111451	21	4 14.3	19.3
154796 2004 PX_{74}	16.2	X	270.84051	183.37039	166.43313	6.56037	0.0295684	0.22249685	2.6972434	21	6 1.2	19.9
154797 2004 PS_{76}	15.6	X	259.95739	175.66656	155.10678	16.18940	0.1075092	0.21915808	2.7245685	21	4 16.7	19.8
154798 2004 PQ_{80}	15.4	X	274.09563	90.57726	336.97481	21.40048	0.0298325	0.23803676	2.5785370	21	9 14.2	18.8
154799 2004 PN_{82}	16.6	X	77.13624	284.72492	17.08633	1.93626	0.1579877	0.24265277	2.5457312	21	12 2.7	20.2
154800 2004 PZ_{83}	16.4	X	118.49734	143.31965	152.29292	8.68379	0.1185777	0.24688856	2.5165297	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154801 2004 PC_{84}	15.7	X	31.42898	340.92621	354.49565	7.36268	0.2220987	0.17932892	3.1143624	21	11 15.4	19.7
154802 2004 PF_{85}	15.5	X	21.76271	216.31414	152.96729	4.08378	0.2362584	0.17907749	3.1172769	21	12 18.0	19.3
154803 2004 PS_{88}	16.1	X	284.94786	151.79901	179.23732	13.82913	0.2092714	0.22088747	2.7103289	21	4 30.7	20.1
154804 2004 PY_{89}	15.3	X	349.55337	310.57652	3.53122	14.78675	0.1481927	0.22640234	2.6661348	21	8 7.3	18.3
154805 2004 PF_{93}	16.4	X	237.80948	281.55749	31.69285	7.12202	0.1206845	0.27104823	2.3646761	21	2 21.8	20.0
154806 2004 PH_{94}	15.5	X	337.81499	275.80994	155.35463	9.78381	0.1230252	0.18564714	3.0432938	21	12 14.3	19.2
154807 2004 PP_{97}	18.6	X	29.76521	68.71714	15.10130	15.52767	0.3164225	0.54536274	1.4836988	21	—	—
154808 2004 PF_{104}	15.5	X	103.20493	243.80703	33.04782	17.48088	0.1175157	0.24613249	2.5216806	21	11 22.0	19.4
154809 2004 PW_{105}	15.0	X	178.34743	28.33901	167.38781	16.02629	0.1251223	0.23685001	2.5871431	21	11 2.4	19.2
154810 2004 PZ_{106}	16.3	X	46.39387	86.14287	298.83781	1.75161	0.0502950	0.19046345	2.9917705	21	—	—
154811 2004 PK_{107}	16.4	X	92.20980	60.88562	237.84859	3.80746	0.0259890	0.24471653	2.5313985	21	12 2.4	19.6
154812 2004 PO_{114}	15.8	X	71.65144	177.94795	148.28887	9.78990	0.0909356	0.18654025	3.0335722	21	12 10.7	20.3
154813 2004 QA	16.8	X	194.41992	115.54480	178.65551	2.46362	0.1201676	0.25983082	2.4322541	21	—	—
154814 2004 QM_{2}	16.0	X	22.98059	119.28478	173.07637	15.08581	0.1790591	0.23137476	2.6277985	21	9 7.5	18.7
154815 2004 QE_{4}	15.6	X	256.60670	227.66251	83.11181	4.60038	0.0812106	0.21041320	2.7995446	21	3 20.6	19.7
154816 2004 QR_{7}	16.5	X	181.39076	142.12368	161.96193	2.25377	0.0777311	0.19897775	2.9058044	21	—	—
154817 2004 QX_{8}	14.8	X	250.94739	74.44685	30.26964	16.30377	0.0442121	0.17301485	3.1896801	21	10 3.2	19.4
154818 2004 QA_{9}	15.2	X	346.21452	255.08827	134.70133	5.99854	0.1384506	0.17589148	3.1548074	21	11 4.6	18.9
154819 2004 QN_{9}	16.0	X	173.75879	304.66718	10.39495	5.76034	0.1988330	0.26013457	2.4303603	21	—	—
154820 2004 QU_{10}	15.1	X	51.17731	334.21390	67.05290	10.60477	0.0277711	0.19296406	2.9658677	21	—	—
154821 2004 QN_{12}	16.6	X	327.87874	282.31912	22.26437	10.37223	0.2469778	0.28413075	2.2915213	21	5 9.9	18.7
154822 2004 QC_{21}	15.6	X	158.79246	97.79393	209.38249	1.13957	0.0666020	0.19723841	2.9228625	21	—	—
154823 2004 QX_{25}	14.3	X	23.09759	166.05219	189.46559	27.36967	0.1275209	0.17838855	3.1252978	21	11 18.8	18.7
154824 2004 RL_{4}	14.8	X	205.93478	101.07405	12.60308	25.94858	0.1399937	0.16833371	3.2485432	21	8 24.5	20.3
154825 2004 RL_{6}	15.8	X	324.15288	140.17754	136.50355	14.71740	0.2075769	0.22080879	2.7109727	21	4 15.6	19.3
154826 2004 RO_{6}	16.3	X	249.79418	284.74660	32.64314	7.17165	0.2123432	0.27210920	2.3585254	21	3 5.4	20.2
154827 2004 RM_{7}	14.0	X	303.34709	19.24558	11.21894	30.96921	0.1289672	0.17171080	3.2058089	21	9 8.2	18.5
154828 2004 RT_{8}	15.6	X	312.85299	152.53508	184.83055	12.92057	0.1817551	0.22608631	2.6686187	21	6 19.7	19.0
154829 2004 RA_{9}	15.6	X	233.59074	151.06405	175.22274	4.27939	0.1033735	0.20957127	2.8070375	21	3 10.9	19.8
154830 2004 RT_{12}	15.6	X	235.08927	356.57749	355.80751	14.92572	0.3067166	0.21630959	2.7484354	21	3 30.3	20.6
154831 2004 RY_{13}	15.8	X	167.53216	261.11190	163.63341	4.90701	0.0824439	0.21563113	2.7541975	21	5 4.5	20.0
154832 2004 RE_{16}	15.4	X	336.70208	28.68252	313.97136	4.48249	0.1816256	0.17135520	3.2102426	21	8 10.5	18.9
154833 2004 RK_{18}	15.8	X	133.13366	305.78962	69.55331	3.08582	0.0816569	0.20201049	2.8766483	21	1 25.7	20.0
154834 2004 RB_{26}	16.3	X	104.63674	226.59098	86.49573	4.57558	0.0955556	0.24609499	2.5219368	21	—	—
154835 2004 RT_{27}	14.8	X	279.25926	34.46852	340.76200	6.84993	0.0602322	0.16759144	3.2581282	21	7 12.3	19.4
154836 2004 RS_{29}	16.1	X	260.80335	223.11160	142.40245	5.16790	0.1581542	0.22201414	2.7011516	21	5 23.1	20.2
154837 2004 RW_{29}	16.1	X	210.66471	237.11479	20.02309	4.93323	0.0506176	0.25763626	2.4460466	21	—	—
154838 2004 RR_{30}	16.0	X	131.44174	356.63020	319.01583	0.20179	0.1544211	0.19481257	2.9470764	21	—	—
154839 2004 RC_{35}	15.4	X	92.41931	21.13292	5.80912	9.29623	0.1122445	0.19598080	2.9353532	21	—	—
154840 2004 RW_{35}	15.6	X	280.86620	283.24659	34.56918	5.22038	0.1181080	0.21766963	2.7369750	21	4 19.2	19.3
154841 2004 RC_{36}	15.2	X	341.72727	213.16382	136.88616	9.48283	0.0891543	0.17216240	3.2002005	21	9 4.8	19.2
154842 2004 RA_{42}	15.8	X	273.92483	272.18701	200.28552	2.31021	0.0675988	0.17647013	3.1479071	21	11 3.3	19.9
154843 2004 RK_{43}	15.0	X	318.04573	64.05892	335.94055	15.35518	0.1247952	0.17585693	3.1552206	21	9 23.6	19.0
154844 2004 RU_{44}	15.3	X	258.77514	62.35858	350.41053	8.23714	0.0827282	0.16821380	3.2500869	21	7 31.9	20.0
154845 2004 RS_{46}	16.5	X	317.19394	321.30537	351.28013	3.04841	0.1641946	0.22331871	2.6906217	21	5 24.4	19.7
154846 2004 RX_{47}	15.7	X	358.94612	259.24114	145.57999	2.16688	0.1841670	0.18174457	3.0867047	21	12 18.9	19.2
154847 2004 RJ_{49}	16.1	X	282.76809	186.78422	154.60119	5.45610	0.0520719	0.22073526	2.7115747	21	6 2.4	19.8
154848 2004 RS_{51}	15.5	X	161.19994	281.06886	69.82664	3.07288	0.0985882	0.20196507	2.8770796	21	1 29.1	19.7
154849 2004 RU_{51}	16.3	X	174.25126	278.97378	42.15172	3.08223	0.1915601	0.25952564	2.4341604	21	1 3.9	20.1
154850 2004 RH_{53}	15.2	X	28.71034	284.82829	88.77522	3.54208	0.1174954	0.18301326	3.0724230	21	12 16.9	19.2
154851 2004 RR_{53}	15.8	X	195.69225	354.06440	33.26105	6.76718	0.0388910	0.21313648	2.7756467	21	4 16.6	19.6
154852 2004 RE_{61}	14.8	X	293.57053	89.92758	335.39362	6.59395	0.1429907	0.17367232	3.1816249	21	9 19.5	19.0
154853 2004 RF_{61}	15.6	X	320.36405	291.62724	343.77520	11.19780	0.1433809	0.21813391	2.7330899	21	4 7.8	19.1
154854 2004 RT_{65}	14.8	X	349.13732	10.18224	357.09978	8.01055	0.0833646	0.17510339	3.1642662	21	10 5.9	18.8
154855 2004 RK_{66}	15.9	X	187.95646	143.52705	173.57346	1.67794	0.1142178	0.20094421	2.8868156	21	1 15.9	20.5
154856 2004 RD_{68}	16.5	X	264.02200	153.79772	145.53866	2.45497	0.2285027	0.27136970	2.3628083	21	2 19.5	20.2
154857 2004 RG_{68}	15.4	X	209.65410	330.58983	24.37334	4.88729	0.2081550	0.20982575	2.8047675	21	3 21.7	20.1
154858 2004 RK_{69}	15.7	X	322.16292	351.13827	11.39963	13.35859	0.1479046	0.22857638	2.6492024	21	8 25.1	18.7
154859 2004 RN_{69}	15.9	X	187.45719	289.56000	35.85209	2.46443	0.0630471	0.20294960	2.8677673	21	1 23.5	20.2
154860 2004 RO_{74}	14.9	X	175.06868	208.73641	75.77025	7.50551	0.0946601	0.19293831	2.9661315	21	—	—
154861 2004 RF_{82}	16.2	X	121.12412	134.28386	248.81130	1.07426	0.0794358	0.20211733	2.8756345	21	1 19.7	20.1
154862 2004 RG_{82}	17.0	X	282.28286	288.05653	328.16573	0.79872	0.1561434	0.27014818	2.3699255	21	1 20.5	20.4
154863 2004 RY_{82}	15.3	X	285.12255	277.96007	168.51607	14.15065	0.0229802	0.17840292	3.1251299	21	10 25.5	19.8
154864 2004 RM_{83}	15.8	X	166.50552	255.81761	46.31503	2.43889	0.0541080	0.19545935	2.9405715	21	—	—
154865 Stefanheutz	15.4	X	159.15360	192.76731	199.80930	15.15859	0.1369634	0.20531084	2.8457372	21	3 17.8	19.9
154866 2004 RE_{92}	16.0	X	263.45538	10.63316	301.02582	3.48532	0.0581790	0.21422464	2.7662395	21	3 27.4	19.8
154867 2004 RM_{94}	16.2	X	240.39545	99.12690	195.28566	8.16723	0.1484496	0.26744386	2.3858747	21	1 25.9	20.2
154868 2004 RF_{101}	15.8	X	272.21280	108.77997	218.09356	4.20689	0.1159763	0.21705910	2.7421048	21	4 20.3	19.7
154869 2004 RO_{102}	15.3	X	43.77123	8.62267	299.75907	3.91609	0.1287173	0.17734754	3.1375159	21	10 16.3	19.5
154870 2004 RV_{103}	14.5	X	237.26921	121.72370	330.75454	12.27468	0.1268176	0.16716151	3.2637123	21	8 18.6	19.4
154871 2004 RZ_{105}	14.9	X	91.19923	314.91969	358.46388	22.26279	0.0685363	0.18304752	3.0720397	21	12 9.1	19.9
154872 2004 RC_{106}	15.7	X	0.79844	325.12723	326.19592	6.44221	0.1643394	0.22518627	2.6757248	21	7 21.2	18.3
154873 2004 RQ_{106}	14.8	X	66.34689	310.17205	3.77539	10.49718	0.0781250	0.17769483	3.1334266	21	11 12.1	19.3
154874 2004 RN_{108}	15.4	X	267.65376	47.02674	240.30933	6.03765	0.0324535	0.21016539	2.8017448	21	3 4.3	19.5
154875 2004 RW_{114}	15.7	X	266.13803	253.75497	82.64198	4.70786	0.2195679	0.21831435	2.7315838	21	4 15.9	20.1
154876 2004 RN_{117}	16.3	X	306.17469	303.50677	216.26463	1.21714	0.0244453	0.19537996	2.9413681	21	—	—
154877 2004 RA_{118}	15.4	X	328.86708	227.69411	19.00224	13.10575	0.0920036	0.21375083	2.7703258	21	3 27.8	18.8
154878 2004 RH_{135}	15.7	X	270.13875	337.87109	97.20273	2.64435	0.1308155	0.17189334	3.2035390	21	9 4.3	20.1
154879 2004 RD_{140}	15.8	X	198.20995	328.77652	41.46206	4.07570	0.1054431	0.21008201	2.8024861	21	3 30.3	20.1
154880 2004 RL_{143}	15.4	X	309.98043	251.74336	26.23276	14.68967	0.1586151	0.21536611	2.7564565	21	4 1.7	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154881 2004 RT_{143}	15.0	X	334.13825	24.00947	22.18552	11.35494	0.0682431	0.17733263	3.1376918	21	11 1.9	19.2
154882 2004 RR_{144}	15.2	X	319.21024	238.69771	143.54696	5.82226	0.2066284	0.17414890	3.1758177	21	8 29.5	18.7
154883 2004 RM_{147}	15.4	X	315.07220	137.80644	354.69286	8.41882	0.0369101	0.19028244	2.9936676	21	—	—
154884 2004 RN_{148}	15.4	X	52.39123	251.62320	16.41200	14.27953	0.1409879	0.23065332	2.6332751	21	9 20.2	18.8
154885 2004 RJ_{149}	15.5	X	122.89559	252.13113	89.07745	2.89496	0.0908817	0.19217338	2.9739972	21	—	—
154886 2004 RH_{156}	15.5	X	299.15026	327.78100	327.26140	8.49688	0.1383739	0.21726524	2.7403701	21	4 5.4	19.4
154887 2004 RN_{163}	14.6	X	44.06598	269.57856	89.19245	22.59138	0.2381392	0.18432333	3.0578476	21	—	—
154888 2004 RC_{165}	15.2	X	354.94416	107.61189	352.71545	8.29483	0.0528055	0.19024775	2.9940315	21	—	—
154889 2004 RB_{166}	15.6	X	329.62504	195.67192	218.42177	2.46091	0.0558413	0.18209423	3.0827520	21	11 8.5	19.6
154890 2004 RH_{174}	15.1	X	270.42479	154.87662	249.68983	4.78943	0.0380850	0.17051717	3.2207521	21	8 7.5	19.6
154891 2004 RS_{176}	15.1	X	90.18309	70.70871	281.17570	7.89112	0.0393528	0.19098052	2.9863680	21	—	—
154892 2004 RH_{179}	15.5	X	102.07698	272.30828	321.16282	10.63890	0.1321414	0.23413906	2.6070746	21	9 26.2	19.5
154893 2004 RV_{191}	14.9	X	227.31521	179.78351	341.12649	8.44499	0.0164162	0.17989054	3.1078771	21	11 9.3	19.5
154894 2004 RK_{217}	14.6	X	348.57131	97.48608	280.80649	9.62003	0.1279757	0.17460202	3.1703208	21	10 17.0	18.6
154895 2004 RO_{223}	15.4	X	90.68084	212.52625	148.80853	3.01407	0.0771058	0.18843466	3.0132063	21	—	—
154896 2004 RD_{230}	15.4	X	25.42312	0.87093	7.97139	8.29973	0.1975302	0.17911952	3.1167893	21	12 16.3	19.4
154897 2004 RN_{232}	15.4	X	13.99623	66.19565	15.82316	7.75470	0.0160869	0.18871062	3.0102679	21	—	—
154898 2004 RS_{233}	15.3	X	29.82194	58.06118	20.06211	10.00644	0.0535135	0.19031295	2.9933476	21	—	—
154899 2004 RR_{239}	15.8	X	298.39729	168.01162	316.76066	1.99223	0.0406722	0.18673298	3.0314846	21	12 25.1	19.8
154900 2004 RM_{241}	15.7	X	208.30811	304.85533	187.86857	0.48997	0.1152807	0.17170764	3.2058483	21	9 7.2	20.6
154901 2004 RP_{246}	15.1	X	336.38329	236.25941	193.21311	9.20919	0.0728275	0.18027355	3.1034735	21	12 7.4	19.2
154902 Davidtoth	15.0	X	353.40625	209.71503	173.15943	8.62870	0.1098369	0.17764736	3.1339847	21	11 6.5	18.9
154903 2004 RY_{249}	16.1	X	229.49802	94.95672	206.25562	3.98252	0.1888587	0.26533722	2.3984865	21	1 25.0	20.2
154904 2004 RA_{306}	15.2	X	294.93888	201.58812	136.79571	3.30662	0.2702857	0.16231937	3.3283001	21	5 15.7	20.0
154905 2004 RB_{306}	15.4	X	350.67873	239.59399	134.40815	3.70539	0.1321857	0.17390268	3.1788146	21	10 21.3	19.2
154906 2004 RH_{306}	15.2	X	300.54875	232.27247	111.84002	2.76279	0.2144727	0.16319422	3.3163946	21	6 6.8	19.5
154907 2004 RE_{316}	16.5	X	133.88160	213.96552	83.45188	0.66409	0.0842949	0.18990814	2.9975998	21	—	—
154908 2004 RE_{324}	14.7	X	73.27756	77.06717	309.28850	8.86059	0.1038913	0.18867710	3.0106245	21	—	—
154909 2004 RL_{326}	16.0	X	255.81835	107.23255	243.61993	4.59548	0.0338450	0.21646143	2.7471500	21	5 12.2	19.8
154910 2004 RA_{337}	14.8	X	330.83938	348.21351	14.71173	14.66279	0.0168977	0.16813767	3.2510678	21	9 11.4	19.4
154911 2004 RK_{343}	14.8	X	120.94419	199.37860	119.02155	11.39092	0.0947242	0.18795169	3.0183659	21	—	—
154912 2004 SQ_{4}	15.7	X	324.94256	111.05282	189.55970	8.18420	0.1443765	0.21833503	2.7314113	21	5 26.1	18.9
154913 2004 SF_{6}	15.9	X	22.81309	206.71956	221.18358	1.38258	0.0902172	0.18950687	3.0018299	21	—	—
154914 2004 ST_{8}	15.6	X	45.46163	185.84114	233.21706	1.87929	0.0826944	0.19187869	2.9770415	21	—	—
154915 2004 SB_{14}	14.1	X	277.51593	328.40566	27.41325	15.30421	0.0644237	0.15813701	3.3867284	21	6 11.3	19.1
154916 2004 SJ_{21}	16.6	X	230.66689	86.07505	222.68441	3.26106	0.0719623	0.20902851	2.8118945	21	2 15.0	20.7
154917 2004 SP_{22}	15.5	X	315.90936	75.70278	223.20143	4.09355	0.1454328	0.21733846	2.7397546	21	5 7.5	18.6
154918 2004 SF_{24}	15.6	X	284.44365	299.37448	143.33443	2.43357	0.0807339	0.17293239	3.1906940	21	10 9.7	19.9
154919 2004 SY_{29}	15.3	X	30.93489	178.52477	187.59931	4.98263	0.1657905	0.18081974	3.0972207	21	12 17.2	19.4
154920 2004 SQ_{32}	15.4	X	296.68216	288.35588	31.87474	7.53513	0.1131750	0.21735618	2.7396057	21	5 12.3	19.0
154921 2004 ST_{32}	16.0	X	61.15573	263.81321	47.79679	4.22787	0.1285338	0.23669998	2.5882362	21	11 22.6	19.3
154922 2004 SW_{32}	15.4	X	24.12467	231.22265	132.35956	4.08594	0.1150892	0.17810362	3.1286301	21	11 27.8	19.5
154923 2004 SK_{39}	15.5	X	66.85039	197.48311	135.47827	1.98378	0.3284339	0.18312775	3.0711424	21	—	—
154924 2004 SD_{40}	16.1	X	248.64096	229.18911	143.48571	2.55510	0.0857985	0.21704959	2.7421849	21	5 26.5	19.9
154925 2004 SK_{41}	15.6	X	181.68400	220.65202	151.53238	2.65420	0.0781279	0.20477653	2.8506852	21	3 14.9	19.9
154926 2004 SV_{47}	14.8	X	123.15122	11.40345	289.84874	5.93981	0.1241102	0.18435589	3.0574876	21	—	—
154927 2004 SK_{54}	14.9	X	0.31538	359.64986	45.81944	13.28986	0.2011483	0.17812520	3.1283774	21	12 22.0	18.6
154928 2004 SD_{57}	15.5	X	139.03546	250.79043	105.91443	1.79884	0.0816017	0.19838549	2.9115848	21	1 9.9	19.6
154929 2004 SK_{61}	15.1	X	107.65512	216.06338	71.51679	3.02893	0.0807478	0.18103276	3.0947906	21	11 30.6	19.8
154930 2004 TJ_{1}	15.5	X	310.40264	221.11565	120.73663	6.35022	0.1269923	0.22211232	2.7003556	21	6 30.8	18.7
154931 2004 TQ_{1}	15.5	X	143.91454	141.73762	186.32062	10.37620	0.0580435	0.19340748	2.9613327	21	—	—
154932 Sviderskiene	14.9	X	23.15061	101.67548	318.96202	1.62102	0.2482087	0.12473310	3.9671769	21	—	—
154933 2004 TP_{23}	15.8	X	146.63232	236.48741	318.31533	3.28427	0.1306975	0.17191923	3.2032173	21	9 21.4	21.0
154934 2004 TO_{29}	15.6	X	307.97348	239.89348	28.69455	5.13834	0.1186279	0.21236818	2.7823371	21	3 22.8	19.3
154935 2004 TF_{36}	16.1	X	286.98726	85.90819	242.75957	1.81828	0.1793110	0.21817938	2.7327102	21	5 1.5	19.9
154936 2004 TM_{38}	16.2	X	167.09862	102.78482	164.62887	0.86474	0.1801653	0.18843432	3.0132099	21	—	—
154937 2004 TO_{48}	14.8	X	314.13919	67.92289	33.36675	10.43286	0.0724123	0.18019376	3.1043895	21	12 12.9	18.9
154938 Besserman	16.2	X	39.47074	194.38724	166.40917	0.59071	0.1781425	0.18093386	3.0959182	21	12 23.6	20.2
154939 2004 TJ_{53}	15.8	X	9.18347	113.50227	206.43068	2.69508	0.1691260	0.22761244	2.6566768	21	9 19.7	18.5
154940 2004 TF_{54}	15.5	X	325.04432	38.86980	56.74483	3.57140	0.0538490	0.17981134	3.1087896	21	12 22.8	19.5
154941 2004 TP_{54}	14.7	X	279.22473	2.63823	76.66567	2.15193	0.1241767	0.16866908	3.2442357	21	9 22.0	19.2
154942 2004 TH_{58}	16.8	X	122.90363	280.93703	17.72982	2.99686	0.1667207	0.24608641	2.5219954	21	—	—
154943 2004 TR_{60}	14.8	X	205.09327	297.87678	183.38633	9.83995	0.1004457	0.16638555	3.2738516	21	8 19.8	19.9
154944 2004 TZ_{61}	16.1	X	351.52851	274.30953	40.04715	3.47180	0.1957005	0.22816492	2.6523864	21	8 6.3	18.3
154945 2004 TM_{64}	15.8	X	66.08819	277.50485	168.21220	2.37013	0.0074025	0.19759441	2.9193508	21	1 19.1	19.7
154946 2004 TD_{65}	14.6	X	214.61800	47.32358	97.67127	8.91148	0.0451516	0.17404910	3.1770316	21	10 9.7	19.3
154947 2004 TH_{69}	16.0	X	16.50945	240.64268	125.11048	4.33968	0.1798665	0.17778702	3.1323433	21	11 27.7	19.8
154948 2004 TC_{76}	15.7	X	326.10213	356.83066	21.45481	2.06770	0.1087929	0.16990125	3.2285313	21	9 14.7	19.5
154949 2004 TF_{78}	15.3	X	38.59213	140.04574	162.63293	1.64451	0.1460791	0.17347496	3.1840376	21	10 6.2	19.3
154950 2004 TX_{87}	16.2	X	94.95204	290.33506	44.55666	0.94808	0.0415932	0.18607647	3.0386108	21	—	—
154951 2004 TR_{92}	16.3	X	75.00283	297.77135	12.59667	3.59147	0.1924543	0.23912219	2.5707280	21	12 14.1	20.1
154952 2004 TX_{99}	16.1	X	130.77506	178.56259	159.63740	2.87080	0.1908949	0.19249945	2.9706379	21	—	—
154953 2004 TP_{106}	15.7	X	317.70122	152.96731	112.15268	6.15514	0.1196356	0.21359396	2.7716820	21	4 2.1	19.3
154954 2004 TN_{118}	14.8	X	268.20635	137.18968	356.75384	16.37018	0.0370631	0.18079344	3.0975210	21	11 21.5	19.5
154955 2004 TN_{120}	14.8	X	329.34036	166.77138	253.02296	3.81073	0.1492418	0.17535583	3.1612287	21	11 10.9	18.5
154956 2004 TH_{125}	16.8	X	249.85198	181.66264	116.57106	3.52172	0.2307728	0.26833425	2.3805938	21	2 7.1	20.6
154957 2004 TK_{125}	15.7	X	67.87797	291.30497	145.36774	2.81646	0.1107201	0.19692645	2.9259485	21	1 19.9	19.2
154958 2004 TX_{135}	14.5	X	205.70166	242.58258	252.46324	8.47793	0.0782392	0.16737408	3.2609483	21	9 5.5	19.6
154959 2004 TR_{137}	15.5	X	84.78621	216.52101	117.75767	2.29095	0.1731539	0.18377922	3.0638802	21	—	—
154960 2004 TK_{186}	14.5	X	324.20284	119.77268	356.01468	2.32001	0.1469535	0.12453598	3.9713621	21	12 29.2	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
154961 2004 TC_{214}	15.3	X	173.27686	221.41117	8.12941	5.78758	0.0229009	0.17958883	3.1113569	21	11 29.9	19.9
154962 2004 TR_{216}	15.9	X	168.02373	247.67612	100.13842	3.19002	0.0922786	0.20267990	2.8703109	21	1 31.6	20.2
154963 2004 TG_{220}	14.8	X	7.34103	281.02475	105.82669	12.38371	0.0674564	0.17949751	3.1124122	21	11 29.6	19.0
154964 2004 TB_{232}	15.0	X	177.60915	208.01866	23.07412	10.90196	0.0613255	0.17983496	3.1085174	21	12 3.8	19.8
154965 2004 TB_{238}	15.2	X	284.60597	256.56695	186.95844	5.20423	0.1287310	0.17183936	3.2042099	21	10 3.3	19.2
154966 2004 TF_{239}	14.7	X	141.36039	47.71679	31.40662	10.28855	0.0554080	0.14749751	3.5476948	21	4 24.5	20.0
154967 2004 TK_{252}	14.6	X	287.51354	46.28922	6.02891	21.93202	0.1589074	0.17188964	3.2035850	21	9 1.9	19.1
154968 2004 TV_{265}	15.1	X	207.48633	338.59739	220.09066	2.56410	0.0975898	0.17856853	3.1231974	21	11 26.1	19.8
154969 2004 TO_{272}	14.7	X	166.51061	354.39127	234.82960	16.28560	0.1549754	0.17572040	3.1568547	21	11 19.6	19.9
154970 2004 TB_{280}	16.0	X	164.07619	224.98163	42.56809	2.03530	0.0505685	0.18338495	3.0682701	21	—	—
154971 2004 TL_{282}	14.4	X	6.42447	3.70738	78.10257	3.27238	0.1729568	0.12594425	3.9417023	21	—	—
154972 2004 TS_{343}	15.4	X	40.78442	230.56340	130.60631	1.85256	0.1941844	0.17933307	3.1143145	21	12 27.6	19.6
154973 2004 TC_{344}	14.9	X	197.58552	347.70279	207.75336	9.91648	0.1467733	0.17708564	3.1406087	21	11 9.3	19.9
154974 2004 TA_{345}	14.8	X	63.57299	293.51228	60.53338	6.76784	0.1859173	0.18091795	3.0960997	21	—	—
154975 2004 TM_{359}	15.3	X	268.65393	111.02009	2.95193	8.12504	0.0382501	0.17742424	3.1366116	21	10 30.9	19.8
154976 2004 UA_{1}	14.7	X	139.89600	311.09552	307.38508	10.20501	0.0521281	0.17906484	3.1174238	21	11 26.7	19.5
154977 2004 UG_{1}	15.2	X	322.45194	302.93837	212.74995	9.68009	0.0428322	0.18993220	2.9973467	21	—	—
154978 2004 UN_{3}	15.7	X	329.53868	274.26251	54.82017	3.93043	0.3108691	0.22350605	2.6891180	21	6 17.9	17.9
154979 2004 UG_{6}	15.5	X	276.13516	272.77154	63.22218	5.67679	0.1292814	0.21320992	2.7750093	21	5 6.3	19.3
154980 2004 UN_{7}	14.9	X	12.39014	86.34541	8.27182	9.94850	0.0880212	0.18744017	3.0238548	21	—	—
154981 2004 VC_{4}	14.7	X	259.34308	41.78882	47.06283	10.12347	0.0364571	0.16793647	3.2536640	21	9 24.7	19.4
154982 2004 VA_{28}	15.6	X	7.36290	39.92245	11.77472	8.48356	0.1179383	0.18020170	3.1042984	21	—	—
154983 2004 VL_{32}	14.9	X	338.80488	244.02789	212.05690	10.00896	0.0754785	0.18063224	3.0993637	21	—	—
154984 2004 VP_{46}	15.5	X	121.33046	228.06300	131.98913	2.92787	0.2249465	0.19121710	2.9839044	21	1 13.7	19.9
154985 2004 VZ_{51}	15.1	X	11.06480	319.23533	110.19797	3.30157	0.0670217	0.18281028	3.0746968	21	—	—
154986 2004 VR_{66}	16.0	X	16.95063	175.33179	150.93371	2.68787	0.2147427	0.22880066	2.6474710	21	10 22.8	18.7
154987 2004 WJ_{4}	15.3	X	148.45987	277.71402	68.50837	3.15216	0.0785361	0.19175599	2.9783113	21	1 9.2	19.6
154988 2004 XN_{35}	18.3	X	17.71876	189.97408	132.98269	9.81761	0.6801092	0.53357114	1.5054783	21	—	—
154989 2005 AG_{4}	12.8	X	62.92585	226.83259	341.53219	8.57649	0.1234465	0.08359086	5.1804027	21	7 8.4	19.5
154990 2005 AA_{66}	12.8	X	334.77275	158.58266	127.26713	12.94829	0.0838329	0.08242374	5.2291911	21	6 5.9	19.4
154991 Vinciguerra	18.4	X	165.71985	269.53111	245.52582	5.63201	0.3225381	0.44261379	1.7052423	21	9 1.7	21.3
154992 2005 CV_{68}	12.4	X	326.70929	162.59161	143.37806	9.56545	0.0792058	0.08127618	5.2782975	21	6 17.5	19.1
154993 2005 EA_{94}	17.8	X	291.12632	308.97397	104.11716	10.32795	0.6635183	0.52780126	1.5164302	21	6 17.9	19.4
154994 2005 EW_{291}	16.1	X	137.40133	64.78443	172.54429	42.47554	0.1144388	0.21452582	2.7636497	21	11 9.8	21.1
154995 2005 MD_{41}	16.9	X	120.96447	217.74480	178.17890	2.29038	0.2101978	0.27891170	2.3200191	21	2 8.6	19.7
154996 2005 MY_{42}	17.5	X	17.96224	58.86246	244.03153	2.15684	0.1294490	0.31096090	2.1577388	21	9 16.9	19.2
154997 2005 NF_{1}	16.4	X	73.81579	115.90517	10.36481	20.75340	0.0328127	0.35246647	1.9848339	21	3 6.3	18.5
154998 2005 NN_{1}	16.7	X	149.85798	212.99941	122.68314	3.18465	0.2345567	0.27406744	2.3472774	21	—	—
154999 2005 NV_{28}	16.7	X	199.06662	178.16409	163.42789	5.72030	0.1898575	0.28517407	2.2859288	21	2 15.4	20.2
155000 2005 NJ_{29}	15.5	X	192.00530	219.78430	165.94182	14.23184	0.2993488	0.22419403	2.6836138	21	4 14.7	20.5
155001 2005 NT_{62}	16.9	X	145.49198	102.42216	307.79918	6.69885	0.0995542	0.28781554	2.2719210	21	3 10.8	19.9
155002 2005 NN_{102}	16.2	X	92.61298	191.99133	150.92993	2.70126	0.3469611	0.26364032	2.4087672	21	—	—
155003 2005 NX_{102}	14.7	X	311.42704	44.12861	310.19813	26.90029	0.2418485	0.17631939	3.1497010	21	7 7.7	18.7
155004 2005 OY_{9}	16.3	X	206.77800	250.96192	127.53417	13.15699	0.1801923	0.22866345	2.6485299	21	4 19.9	20.9
155005 2005 OP_{14}	16.4	X	259.84942	182.08059	131.67860	3.69974	0.2412798	0.28971047	2.2620034	21	3 3.6	20.0
155006 2005 OU_{14}	16.4	X	161.02321	197.42063	156.75967	7.48180	0.2219880	0.27648884	2.3335528	21	1 31.1	20.0
155007 2005 OB_{15}	15.9	X	165.84006	223.56073	85.96393	11.38458	0.1010578	0.21438119	2.7648926	21	—	—
155008 2005 OM_{16}	16.9	X	168.74279	202.70620	173.25071	2.92501	0.1825865	0.28326018	2.2962140	21	3 2.9	20.4
155009 2005 OA_{19}	16.7	X	347.96317	270.06340	155.78020	6.13922	0.0946673	0.26153380	2.4216841	21	—	—
155010 2005 PR_{9}	17.5	X	75.66152	58.11009	329.84808	1.51619	0.2208566	0.26815121	2.3816771	21	—	—
155011 2005 PR_{17}	15.0	X	287.92861	312.16744	41.79740	15.88805	0.0892797	0.17974936	3.1095041	21	6 18.9	19.5
155012 2005 QM_{4}	16.6	X	44.01110	199.77321	194.61130	0.78836	0.1769986	0.26240956	2.4162931	21	—	—
155013 2005 QK_{7}	17.1	X	14.89419	273.98182	138.38488	3.01851	0.1741240	0.26014473	2.4302970	21	—	—
155014 2005 QG_{12}	16.6	X	344.19676	255.03902	167.36578	10.86871	0.2489569	0.25647244	2.4534408	21	—	—
155015 2005 QF_{17}	16.4	X	161.09191	47.69339	1.94746	6.66772	0.1195244	0.28516418	2.2859816	21	4 1.9	19.6
155016 2005 QS_{19}	16.7	X	267.56739	80.93026	348.68504	0.92950	0.1758851	0.24478358	2.5309362	21	8 22.0	20.0
155017 2005 QK_{26}	16.4	X	208.84184	273.91842	164.49978	11.70537	0.1704902	0.23344890	2.6122104	21	6 30.1	20.8
155018 2005 QK_{28}	17.0	X	170.30172	75.65170	328.84359	5.54927	0.1904589	0.28753224	2.2734130	21	4 7.9	20.5
155019 2005 QY_{31}	16.9	X	117.92511	207.48528	160.01582	2.70530	0.2371059	0.27267189	2.3552796	21	1 3.1	19.6
155020 2005 QC_{38}	16.4	X	233.84090	82.50781	348.22172	16.90305	0.1768132	0.23676325	2.5877751	21	7 19.7	20.7
155021 2005 QD_{45}	16.5	X	106.60783	59.32157	317.12742	1.76757	0.2119994	0.27115247	2.3640700	21	—	—
155022 2005 QP_{47}	16.9	X	80.38777	99.46029	27.54119	4.41155	0.1198085	0.28546837	2.2843574	21	4 3.4	19.2
155023 2005 QK_{54}	17.0	X	187.94982	194.32938	170.20680	3.62676	0.2193527	0.28371393	2.2937651	21	3 8.1	20.5
155024 2005 QD_{67}	17.3	X	110.12970	289.80213	106.69201	1.67923	0.2135626	0.27424649	2.3462556	21	1 27.7	19.7
155025 2005 QM_{71}	15.5	X	192.13755	257.63398	174.18891	14.72094	0.1931946	0.22841525	2.6504482	21	6 7.9	20.2
155026 2005 QC_{73}	15.4	X	196.15021	351.41337	17.20404	12.96812	0.1611638	0.21939648	2.7225944	21	3 26.6	19.9
155027 2005 QF_{75}	16.1	X	156.19156	81.86936	336.46463	14.39507	0.2322046	0.22253550	2.6969311	21	4 15.6	20.9
155028 2005 QR_{82}	15.3	X	247.31761	343.05920	18.66833	15.04565	0.2243691	0.22888383	2.6468296	21	4 23.9	19.8
155029 2005 QY_{82}	15.9	X	186.92009	68.40560	314.69634	4.97617	0.0761722	0.22419191	2.6836307	21	3 29.0	19.9
155030 2005 QF_{84}	15.8	X	220.94726	214.54656	190.64132	3.34044	0.2698560	0.16788543	3.2543235	21	5 27.9	21.4
155031 2005 QW_{94}	15.6	X	326.81555	7.20994	347.58288	10.88638	0.0810295	0.18353603	3.0665860	21	8 20.9	19.5
155032 2005 QP_{95}	16.7	X	201.78290	26.71826	352.86241	6.58162	0.1707832	0.28911705	2.2650976	21	4 4.9	20.4
155033 2005 QY_{116}	17.1	X	347.56109	74.78209	345.55970	1.60073	0.1893407	0.25683628	2.4511231	21	—	—
155034 2005 QJ_{127}	16.4	X	129.65492	134.24728	343.91426	11.71703	0.2218287	0.22885884	2.6470222	21	6 10.2	20.9
155035 2005 QV_{129}	17.1	X	155.44762	324.57069	61.21806	3.12876	0.1851710	0.28051008	2.3111976	21	3 4.9	20.5
155036 2005 QH_{133}	17.0	X	325.65605	102.78838	339.78725	0.88136	0.1447774	0.25769867	2.4456517	21	12 29.9	19.3
155037 2005 QP_{157}	16.4	X	164.81551	223.37610	157.40723	11.77878	0.2029122	0.27925147	2.3181369	21	3 8.5	19.8
155038 2005 QR_{160}	16.6	X	102.52053	342.67379	50.41314	4.18851	0.1771319	0.27125956	2.3634478	21	1 5.9	19.1
155039 2005 QY_{165}	15.3	X	27.68669	222.89472	153.26395	10.95688	0.1180254	0.19225142	2.9731924	21	12 21.4	19.4
155040 2005 QX_{171}	16.4	X	148.10365	135.32403	240.02990	4.50896	0.1113113	0.27717600	2.3296945	21	1 30.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155041 2005 QZ_{172}	17.3	X	274.95209	134.19632	274.26459	2.59679	0.0409059	0.30418856	2.1896471	21	8 27.8	19.6
155042 2005 RQ_{5}	16.6	X	116.23204	87.74524	290.76271	1.81983	0.1235957	0.27122923	2.3636240	21	—	—
155043 2005 RR_{5}	16.6	X	104.30993	106.34584	290.81639	1.97863	0.2094211	0.27173485	2.3606911	21	1 19.4	18.9
155044 2005 RE_{8}	16.1	X	314.52111	229.80591	159.59575	4.10861	0.2172989	0.18095374	3.0956915	21	8 28.9	19.5
155045 2005 RF_{8}	16.3	X	118.08658	311.48142	21.41756	2.66868	0.2250475	0.26654557	2.3912321	21	—	—
155046 2005 RB_{10}	16.0	X	251.30484	88.98404	341.71131	12.40350	0.1462713	0.23759413	2.5817384	21	8 9.7	19.7
155047 2005 RO_{10}	16.8	X	127.13373	50.12300	296.38583	1.28573	0.2274069	0.26952175	2.3735962	21	—	—
155048 2005 RH_{24}	15.1	X	229.74032	57.59661	6.46668	9.62447	0.1960453	0.23093168	2.6311587	21	7 1.1	19.5
155049 2005 RJ_{27}	15.2	X	1.72514	45.44622	313.10807	8.91044	0.1902115	0.18470370	3.0536481	21	10 20.2	18.7
155050 2005 RU_{27}	16.6	X	204.64586	7.21340	322.62212	6.07052	0.1254712	0.27824810	2.3237063	21	2 5.7	19.8
155051 2005 RY_{30}	15.4	X	218.19319	67.69949	325.88955	13.82184	0.1326060	0.22764373	2.6564333	21	5 10.0	19.9
155052 2005 SA_{3}	16.8	X	137.07883	38.05475	294.02095	0.53301	0.2011942	0.26936736	2.3745031	21	—	—
155053 2005 SV_{9}	15.6	X	207.78252	43.22742	30.00718	13.65973	0.1696543	0.22981644	2.6396640	21	6 22.1	20.1
155054 2005 SN_{19}	17.2	X	109.67559	330.70234	64.64741	0.74003	0.1541111	0.27089231	2.3655834	21	1 16.5	19.6
155055 2005 SO_{23}	16.2	X	173.87831	90.27316	349.38452	12.77753	0.1471984	0.22967538	2.6407447	21	5 27.1	20.6
155056 2005 SB_{24}	16.4	X	98.01647	287.78561	97.56220	3.15416	0.1822584	0.26915989	2.3757231	21	—	—
155057 2005 SG_{24}	15.9	X	172.11772	24.21010	29.59068	12.00732	0.2285636	0.22315506	2.6919370	21	4 28.4	20.4
155058 2005 SU_{24}	16.3	X	188.22897	293.90849	49.28128	7.74337	0.1459041	0.27985193	2.3148198	21	2 10.0	19.9
155059 2005 SF_{28}	17.2	X	72.56712	26.19516	252.89054	3.77332	0.0235429	0.30932004	2.1653628	21	10 19.7	19.7
155060 2005 SG_{28}	16.6	X	201.36344	0.50086	341.64377	6.63702	0.1124263	0.28073910	2.3099404	21	2 17.7	19.8
155061 2005 ST_{30}	16.2	X	48.34781	136.66547	338.83481	6.67140	0.0507816	0.27590048	2.3368692	21	1 19.4	18.7
155062 2005 SL_{32}	15.9	X	103.07928	263.72720	159.49085	4.80077	0.0614608	0.21219866	2.7838187	21	2 10.9	19.6
155063 2005 SP_{35}	16.4	X	189.64749	178.58107	179.64705	9.80371	0.1393853	0.28075570	2.3098494	21	2 25.2	19.8
155064 2005 SQ_{39}	17.0	X	44.03226	23.73873	186.22752	6.74575	0.0224642	0.29230257	2.2486108	21	5 25.9	19.6
155065 2005 SL_{40}	16.7	X	305.79450	126.69382	187.42301	21.96118	0.0710207	0.35697059	1.9681027	21	5 17.4	19.0
155066 2005 SR_{54}	15.6	X	147.34505	198.35646	191.73987	3.63836	0.1028083	0.21476988	2.7615557	21	2 27.6	19.6
155067 2005 SH_{58}	17.1	X	45.41932	26.76914	30.17047	3.61641	0.1754379	0.26228935	2.4170313	21	—	—
155068 2005 SC_{59}	16.5	X	281.72490	154.87086	195.84880	3.47147	0.1768181	0.29623324	2.2286756	21	5 20.9	19.2
155069 2005 SA_{65}	16.7	X	246.46451	174.33282	202.26224	5.96935	0.1460612	0.29459940	2.2369081	21	5 19.0	19.8
155070 2005 SB_{69}	16.3	X	14.80625	229.67584	202.73836	5.83641	0.0903180	0.26159328	2.4213170	21	—	—
155071 2005 SS_{71}	17.6	X	123.76312	97.16374	248.38672	1.09104	0.1971885	0.26923665	2.3752716	21	—	—
155072 2005 SS_{73}	16.3	X	233.18144	245.98475	122.43654	2.97126	0.0985530	0.22628614	2.6670475	21	5 2.2	20.3
155073 2005 SP_{77}	17.3	X	0.77435	275.60348	146.09211	1.65564	0.1724501	0.25688302	2.4508258	21	—	—
155074 2005 SH_{90}	16.6	X	250.10371	149.19912	212.24486	1.59082	0.1519536	0.22859085	2.6490907	21	5 5.4	20.7
155075 2005 SZ_{96}	17.2	X	142.08727	272.68544	188.40280	4.72978	0.1655586	0.28822653	2.2697607	21	5 26.2	20.4
155076 2005 SH_{103}	16.5	X	190.21000	115.23329	207.87456	1.26788	0.2015412	0.27681881	2.3316981	21	1 18.0	20.1
155077 2005 SX_{103}	15.5	X	180.19590	49.71423	1.85591	13.78660	0.2200703	0.22215164	2.7000369	21	4 28.3	20.3
155078 2005 SG_{104}	15.9	X	322.38005	342.88440	51.94014	0.28079	0.2015736	0.18194856	3.0843972	21	9 23.4	18.9
155079 2005 SM_{112}	16.2	X	148.78620	96.29429	324.63292	7.94429	0.2000448	0.21968167	2.7202376	21	4 13.3	20.8
155080 2005 SC_{130}	16.8	X	326.26977	167.09347	193.82677	5.64754	0.1591732	0.30508823	2.1853404	21	8 30.2	18.3
155081 2005 SH_{130}	16.5	X	89.33709	11.48621	48.08460	2.90141	0.1704731	0.27068306	2.3668024	21	1 20.9	18.7
155082 2005 SF_{131}	15.7	X	291.76371	41.98610	341.06821	11.77712	0.1932792	0.23686618	2.5870253	21	7 22.5	19.0
155083 Banneker	16.3	X	64.99473	206.10608	183.59528	1.43175	0.0962441	0.19954362	2.9003082	21	—	—
155084 2005 ST_{137}	16.2	X	3.53651	234.14698	181.02923	2.57551	0.1675115	0.19177213	2.9781442	21	—	—
155085 2005 SW_{147}	16.6	X	194.21914	274.65268	177.64948	3.37508	0.0386893	0.23276131	2.6173524	21	7 8.0	20.2
155086 2005 SE_{148}	16.7	X	241.90392	143.77347	180.12375	2.94134	0.1770335	0.28513118	2.2861580	21	3 3.3	20.3
155087 2005 SL_{149}	16.3	X	318.69707	330.67773	102.12320	2.67108	0.1544726	0.18697218	3.0288985	21	11 12.8	19.6
155088 2005 ST_{158}	15.3	X	183.79941	203.18874	214.79201	11.34418	0.1747303	0.22448742	2.6812751	21	5 13.7	19.7
155089 2005 SK_{159}	15.9	X	133.35188	43.12985	351.71766	4.00933	0.0816311	0.21262703	2.7800785	21	2 17.1	19.7
155090 2005 SJ_{164}	16.7	X	151.80135	218.79821	147.93798	6.43291	0.1141192	0.27421196	2.3464526	21	1 26.1	19.7
155091 2005 SX_{164}	15.8	X	277.55453	203.67927	164.30755	8.94875	0.1551464	0.23310867	2.6147516	21	6 14.9	19.6
155092 2005 SX_{169}	17.3	X	287.00901	62.63243	353.08636	7.83314	0.1340165	0.24315564	2.5422201	21	9 7.7	20.2
155093 2005 SP_{183}	17.3	X	198.09959	9.99750	244.84583	1.89581	0.1468794	0.26564579	2.3966287	21	—	—
155094 2005 SB_{192}	16.6	X	128.49784	125.59135	34.58961	5.61505	0.1191098	0.23109329	2.6299318	21	7 27.2	20.5
155095 2005 SJ_{193}	17.1	X	233.23733	126.97895	287.88100	1.10795	0.1637158	0.29467874	2.2365066	21	6 23.8	20.4
155096 2005 SW_{203}	15.6	X	159.31208	49.19840	20.10589	22.00616	0.0733508	0.22424655	2.6831948	21	4 23.9	19.7
155097 2005 SE_{211}	16.9	X	67.91866	159.43159	207.20539	1.36357	0.2136820	0.26121331	2.4236646	21	—	—
155098 2005 SF_{214}	15.2	X	298.31863	111.37927	319.12620	3.69489	0.2375705	0.18050875	3.1007770	21	9 20.4	19.0
155099 2005 SP_{214}	16.2	X	51.83329	302.13185	238.64184	7.03772	0.0567199	0.28560335	2.2836376	21	4 25.6	18.8
155100 2005 SX_{214}	15.1	X	231.34880	220.04891	230.23296	12.79728	0.2480794	0.17130865	3.2108241	21	7 25.5	20.6
155101 2005 SM_{218}	16.5	X	228.48223	158.14847	175.23625	5.10119	0.1884527	0.28332457	2.2958661	21	3 2.9	20.2
155102 2005 SB_{219}	15.3	X	243.94006	150.97081	227.16952	10.58302	0.2064532	0.22651677	2.6652368	21	5 15.8	19.7
155103 2005 SC_{225}	16.8	X	83.78045	214.95378	157.55321	8.63176	0.1032385	0.26397798	2.4067127	21	—	—
155104 2005 SO_{225}	15.3	X	224.13292	57.72977	34.64821	14.22332	0.1409401	0.23230162	2.6208041	21	8 11.3	19.5
155105 2005 SH_{227}	17.0	X	70.67119	69.24831	100.05630	1.88709	0.0482334	0.28920156	2.2646563	21	5 9.4	19.3
155106 2005 SX_{231}	17.3	X	40.85095	88.98018	204.92889	1.44965	0.0569738	0.30450940	2.1881088	21	9 30.7	19.7
155107 2005 SZ_{237}	15.4	X	338.22999	102.52496	260.91087	2.13202	0.2216363	0.18065951	3.0990518	21	9 9.7	18.5
155108 2005 SW_{242}	17.2	X	306.35316	230.23271	16.90145	1.10243	0.1024310	0.28111917	2.3078579	21	2 10.5	20.0
155109 2005 SM_{244}	17.3	X	77.43472	180.94591	7.54344	3.45689	0.0528970	0.29397102	2.2400946	21	6 18.0	19.7
155110 2005 TB	17.5	X	85.47546	44.77551	226.18322	30.38244	0.3484574	0.69573608	1.2613619	21	—	—
155111 2005 TP_{5}	16.1	X	107.53561	67.84376	344.66737	10.04531	0.2533617	0.21024046	2.8010779	21	3 3.8	20.0
155112 2005 TU_{25}	16.8	X	24.42322	101.17812	64.88813	0.88650	0.0716775	0.27679802	2.3318148	21	2 20.2	19.1
155113 2005 TO_{42}	16.2	X	193.67892	16.70336	350.20930	4.23875	0.1750792	0.21827191	2.7319378	21	3 20.4	20.6
155114 2005 TY_{42}	16.6	X	231.98483	353.39706	338.55285	6.69052	0.1363467	0.28169098	2.3047337	21	3 5.9	20.1
155115 2005 TR_{46}	15.5	X	9.38627	208.55335	162.62224	1.80686	0.2031848	0.18715207	3.0269572	21	11 27.6	18.9
155116 Verkhivnya	15.6	X	280.18415	67.99033	341.94216	8.96172	0.2315718	0.17527540	3.1621956	21	8 2.5	20.1
155117 2005 TE_{50}	17.0	X	133.08236	198.34865	179.32186	1.90918	0.2354099	0.27270343	2.3550980	21	2 3.9	20.3
155118 2005 TK_{53}	15.9	X	177.74601	356.39395	5.74125	4.81665	0.1281932	0.21408763	2.7674195	21	2 28.8	20.2
155119 2005 TR_{55}	16.0	X	41.04955	88.95335	30.77389	9.11308	0.1478685	0.21052634	2.7985416	21	2 4.2	19.2
155120 2005 TW_{64}	16.7	X	349.64662	171.74950	333.92218	5.20109	0.1355837	0.27305890	2.3530536	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155121 2005 TE_{68}	15.8	X	237.89135	333.34214	93.87545	8.63564	0.4104359	0.17026532	3.2239274	21	6 26.0	21.5
155122 2005 TZ_{72}	15.7	X	359.31508	243.11556	140.12430	10.93445	0.1338218	0.18695552	3.0290785	21	11 21.3	19.5
155123 2005 TX_{78}	15.8	X	329.48781	187.71205	166.04146	12.76564	0.2471109	0.24084954	2.5584219	21	8 7.9	17.9
155124 2005 TD_{99}	16.7	X	135.87030	206.24506	229.62861	6.26113	0.0911850	0.28499567	2.2868826	21	4 3.2	19.7
155125 2005 TN_{107}	14.6	X	8.12900	233.39932	208.36934	2.26677	0.1814905	0.12437412	3.9748068	21	—	—
155126 2005 TY_{109}	17.4	X	59.77992	228.19226	282.38841	1.82052	0.1034463	0.28351527	2.2948365	21	3 29.9	19.5
155127 2005 TX_{110}	17.1	X	197.99931	272.70180	218.58380	6.22185	0.1996274	0.23916666	2.5704094	21	8 22.9	21.5
155128 2005 TM_{117}	17.2	X	351.90858	301.04945	245.73287	1.50293	0.1474238	0.27787762	2.3257713	21	1 16.2	19.4
155129 2005 TT_{123}	16.2	X	126.46410	91.75103	26.78498	12.45656	0.1456163	0.22417468	2.6837683	21	5 29.6	20.3
155130 2005 TH_{126}	17.8	X	316.19136	31.30076	166.17635	1.57584	0.1314058	0.27243355	2.3566531	21	—	—
155131 2005 TQ_{127}	16.0	X	90.68443	270.14338	209.34901	5.57305	0.0879205	0.21909139	2.7251213	21	4 11.1	19.5
155132 2005 TV_{132}	17.0	X	358.02607	115.90955	43.33088	1.98874	0.1289518	0.27124629	2.3635249	21	—	—
155133 2005 TW_{140}	17.3	X	333.11655	222.84231	111.74114	2.14739	0.0892480	0.30155391	2.2023825	21	8 7.2	19.1
155134 2005 TX_{152}	16.5	X	187.56088	268.02373	110.41386	4.75747	0.2513158	0.28038348	2.3118932	21	3 28.7	20.4
155135 2005 TC_{165}	15.5	X	279.87321	202.63783	232.80356	3.54614	0.1789567	0.17844661	3.1246198	21	9 7.9	19.7
155136 2005 TS_{166}	16.8	X	124.12714	295.64985	357.00901	1.80312	0.0260737	0.25561811	2.4589043	21	—	—
155137 2005 TZ_{166}	16.6	X	222.50878	152.63058	227.25576	1.33706	0.1105703	0.22561607	2.6723255	21	5 3.4	20.7
155138 Pucinskas	15.9	X	27.08036	147.40332	9.64336	4.91392	0.1006729	0.21350115	2.7724852	21	2 26.4	19.0
155139 2005 TF_{173}	16.7	X	194.69549	351.95602	23.85245	6.70038	0.1356153	0.28199007	2.3031038	21	3 27.2	20.0
155140 2005 UD	17.4	X	4.71458	207.60326	19.71395	28.65961	0.8722419	0.68472473	1.2748489	21	10 20.8	19.0
155141 2005 UY	16.8	X	215.04054	171.77606	198.77592	4.33400	0.1381864	0.28719262	2.2752050	21	4 7.9	20.0
155142 Tenagra	16.5	X	192.12758	49.67266	316.87194	0.07655	0.0851220	0.21474097	2.7618035	21	3 17.6	20.4
155143 2005 UB_{10}	16.9	X	347.21354	187.69768	160.00253	4.65766	0.1957656	0.24364722	2.5387995	21	9 20.5	18.9
155144 2005 UG_{14}	15.9	X	201.79347	272.92386	54.17831	0.87937	0.0696911	0.21282421	2.7783611	21	2 7.9	19.9
155145 2005 UR_{18}	16.8	X	178.74628	127.41740	202.55392	4.95040	0.2056189	0.27282352	2.3544069	21	1 16.4	20.5
155146 2005 UF_{29}	16.8	X	34.72993	229.12779	216.27972	1.32959	0.1452969	0.26283506	2.4136846	21	—	—
155147 2005 UZ_{29}	16.6	X	234.23279	19.98455	36.68311	6.98523	0.0483406	0.29462993	2.2367536	21	7 11.6	19.4
155148 2005 UC_{57}	17.1	X	173.57270	184.29092	181.67377	2.87346	0.1164202	0.27747804	2.3280036	21	2 18.2	20.3
155149 2005 UE_{61}	16.4	X	258.13275	159.94581	217.64306	1.42364	0.0930880	0.22925245	2.6439915	21	6 11.6	20.1
155150 2005 UL_{67}	15.8	X	160.36772	232.55705	148.28309	13.40050	0.1302885	0.21482586	2.7610759	21	3 6.7	20.1
155151 2005 UH_{69}	16.1	X	134.33923	82.86814	328.58537	2.49486	0.0897987	0.21398874	2.7682721	21	3 10.4	20.0
155152 2005 UE_{78}	16.8	X	180.40627	289.98483	225.24837	1.60429	0.0956117	0.23932067	2.5693065	21	9 11.4	20.7
155153 2005 UV_{78}	15.8	X	67.69930	238.95042	129.52986	3.35098	0.1109418	0.19465351	2.9486817	21	—	—
155154 2005 UW_{78}	15.3	X	220.83684	321.84358	58.98361	15.26013	0.1094384	0.22353422	2.6888921	21	5 5.4	19.5
155155 2005 UD_{79}	14.9	X	344.10483	313.55373	71.93493	13.18372	0.0571340	0.18151917	3.0892594	21	10 28.5	19.1
155156 2005 UR_{79}	15.4	X	84.41021	37.36392	77.09217	12.76579	0.1109431	0.21336420	2.7736714	21	4 7.4	19.2
155157 2005 UF_{80}	15.6	X	292.34310	289.72620	175.61128	5.04028	0.1596425	0.18370651	3.0646886	21	11 10.0	19.4
155158 2005 UL_{80}	15.9	X	154.03633	234.82640	125.56805	6.73759	0.1693992	0.20849109	2.8167246	21	2 7.3	20.2
155159 2005 UK_{83}	16.5	X	298.51863	349.79417	207.17192	4.49633	0.1469467	0.26758694	2.3850241	21	—	—
155160 2005 US_{96}	16.8	X	190.68439	155.51883	131.93668	2.99071	0.0890993	0.26590539	2.3950686	21	—	—
155161 2005 UQ_{104}	15.7	X	96.68712	298.19445	218.79504	13.87031	0.0530094	0.22288260	2.6941303	21	6 3.6	19.5
155162 2005 UZ_{104}	16.2	X	173.94227	193.47307	84.39627	5.95155	0.0935555	0.26009132	2.4306297	21	—	—
155163 2005 UJ_{124}	15.3	X	210.79279	142.06063	39.32850	12.02786	0.1078206	0.18493814	3.0510669	21	11 8.2	19.9
155164 2005 UN_{141}	17.0	X	194.77197	205.87249	142.87283	3.42684	0.1398240	0.27810102	2.3245256	21	2 20.3	20.4
155165 2005 UU_{147}	15.6	X	38.35456	132.86027	19.89856	3.99155	0.0421887	0.21340626	2.7733070	21	3 8.6	19.0
155166 2005 UU_{151}	15.7	X	26.70696	155.45407	232.63379	2.95403	0.0227505	0.18980957	2.9986376	21	12 21.1	19.9
155167 2005 UG_{172}	16.5	X	194.33084	203.75137	219.55490	1.89697	0.0927666	0.22518191	2.6757594	21	5 30.1	20.5
155168 2005 UC_{175}	15.8	X	152.21579	349.79680	22.23332	4.54704	0.1154021	0.20956001	2.8071381	21	2 15.5	20.0
155169 2005 UF_{186}	16.2	X	234.09320	72.21726	78.30289	2.31116	0.1112545	0.18190940	3.0848399	21	10 27.8	20.7
155170 2005 UK_{191}	16.1	X	125.29895	45.30951	313.30101	1.09027	0.0779235	0.20318683	2.8655348	21	—	—
155171 2005 UX_{205}	17.1	X	276.32662	286.49815	192.56560	1.62378	0.0943259	0.24758582	2.5118028	21	11 24.6	19.9
155172 2005 UJ_{214}	15.3	X	58.78938	345.80158	108.00874	16.46168	0.1026167	0.20528480	2.8459779	21	1 26.2	18.7
155173 2005 US_{216}	16.0	X	313.24320	314.12441	62.94829	3.57767	0.2087057	0.23835326	2.5762539	21	8 17.1	18.4
155174 2005 UA_{220}	16.6	X	9.93625	242.17012	5.30784	6.35633	0.0796905	0.29021150	2.2593992	21	5 25.4	18.9
155175 2005 UP_{247}	16.4	X	147.52483	235.98355	177.88755	2.41186	0.2061976	0.27845922	2.3225317	21	4 3.0	19.9
155176 2005 UH_{248}	17.4	X	147.35886	57.16841	173.05400	1.25356	0.1424720	0.30960302	2.1640432	21	11 20.7	20.6
155177 2005 UR_{272}	15.9	X	341.43832	311.70538	149.61658	2.41150	0.1299653	0.19238790	2.9717861	21	—	—
155178 2005 UX_{274}	16.5	X	200.63228	47.68808	346.98722	1.44839	0.1692261	0.28437624	2.2902023	21	4 24.8	20.2
155179 2005 UH_{277}	17.1	X	293.48038	46.26388	207.47649	0.06621	0.0979727	0.27785311	2.3259080	21	2 3.9	20.2
155180 2005 UF_{289}	15.2	X	312.62273	51.97574	303.01045	4.35525	0.0486229	0.17130804	3.2108317	21	7 31.3	19.5
155181 2005 UY_{315}	16.0	X	307.78391	138.05387	145.48052	2.07103	0.0109122	0.22128812	2.7070565	21	4 25.5	19.7
155182 2005 UL_{317}	17.0	X	203.89858	211.00556	223.81036	2.44803	0.0834300	0.23353491	2.6115690	21	6 24.6	20.9
155183 2005 UB_{327}	16.1	X	338.32879	181.75691	271.89244	1.34086	0.2058869	0.19130867	2.9829521	21	—	—
155184 2005 UW_{329}	15.2	X	323.39318	105.14690	340.78098	20.90897	0.1522621	0.18844197	3.0131283	21	12 5.0	19.1
155185 2005 UX_{330}	15.9	X	357.60154	234.97667	121.78341	2.32191	0.1008396	0.17953584	3.1119691	21	10 9.3	19.7
155186 2005 UY_{334}	17.5	X	262.12317	216.12519	117.00416	2.45943	0.1634804	0.28580952	2.2825392	21	4 6.7	20.6
155187 2005 UC_{335}	16.5	X	205.92182	215.65268	109.26702	3.00847	0.0537139	0.20880285	2.8139201	21	2 10.4	20.6
155188 2005 UM_{349}	16.4	X	352.40542	228.29206	97.98675	6.97026	0.1891172	0.30288181	2.1959406	21	9 10.9	17.7
155189 2005 UN_{355}	15.1	X	307.36787	319.86884	37.52838	15.67001	0.1484385	0.23440722	2.6050859	21	7 18.5	18.5
155190 2005 UV_{355}	15.9	X	159.32138	141.30843	159.12295	2.33083	0.0774666	0.19697306	2.9254869	21	—	—
155191 2005 UZ_{365}	16.3	X	169.92922	202.10596	163.05490	4.50319	0.0820631	0.21195744	2.7859305	21	2 20.4	20.4
155192 2005 UV_{371}	16.5	X	310.43320	313.90264	25.86765	2.68368	0.2368499	0.23420651	2.6065741	21	6 8.8	19.4
155193 2005 UH_{377}	16.6	X	247.18189	296.51003	173.43407	4.18342	0.0912352	0.24165435	2.5527384	21	10 1.9	20.0
155194 2005 UK_{381}	16.2	X	84.49292	148.04733	235.97064	1.18862	0.0792829	0.20032128	2.8927972	21	—	—
155195 2005 UG_{396}	16.0	X	92.47614	333.13053	163.40402	3.07680	0.0425637	0.22071801	2.7117160	21	4 30.6	19.5
155196 2005 UM_{419}	16.1	X	230.99939	147.69693	63.44073	7.17296	0.0902354	0.25839082	2.4412823	21	—	—
155197 2005 UO_{429}	16.1	X	89.73690	42.46228	281.80216	2.29980	0.0850595	0.19058865	2.9904602	21	12 26.9	20.5
155198 2005 UO_{432}	17.1	X	248.87752	77.48797	133.16304	1.99336	0.1247381	0.25819054	2.4425446	21	—	—
155199 2005 UU_{433}	15.6	X	8.32458	150.94422	210.24507	1.72185	0.1445537	0.18234972	3.0798719	21	11 4.4	19.1
155200 2005 UC_{438}	16.7	X	231.90841	72.20383	142.29858	3.49476	0.1369577	0.25690174	2.4507068	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155201 2005 UL_{440}	17.5	X	297.85372	10.97172	108.81239	1.58912	0.1045995	0.25454748	2.4657943	21	12 31.1	20.2
155202 2005 UU_{444}	16.6	X	321.55431	26.07130	325.03039	1.74147	0.1903932	0.29927783	2.2135348	21	7 29.3	18.0
155203 2005 UV_{444}	14.8	X	312.04092	207.83428	251.07688	10.95659	0.1518332	0.18555605	3.0442896	21	12 4.4	18.1
155204 2005 UX_{445}	17.0	X	236.33382	200.67781	127.63143	1.50928	0.2340686	0.28225064	2.3016861	21	3 3.0	20.8
155205 2005 UV_{449}	14.7	X	261.02652	308.19915	50.04425	13.93294	0.2780598	0.22497177	2.6774253	21	5 1.4	19.1
155206 2005 UP_{457}	16.2	X	307.62153	299.46587	122.45058	15.53693	0.0978054	0.24578728	2.5240413	21	11 2.1	19.4
155207 2005 UO_{460}	16.7	X	41.97889	260.15861	23.03642	2.94970	0.0595978	0.29894102	2.2151971	21	9 17.4	19.0
155208 2005 UV_{460}	16.4	X	11.25440	206.67779	36.53790	2.96513	0.0479403	0.22258832	2.6965044	21	5 27.1	19.6
155209 2005 UV_{481}	15.5	X	207.77079	338.27847	114.86795	22.87959	0.0450221	0.23276082	2.6173560	21	7 26.4	19.1
155210 2005 UG_{483}	16.9	X	299.66717	302.96041	202.25527	5.00314	0.0896971	0.25912250	2.4366845	21	—	—
155211 2005 UP_{485}	16.3	X	353.83368	317.85141	96.76641	6.92642	0.0536259	0.25264342	2.4781679	21	12 29.0	19.3
155212 2005 UQ_{489}	15.1	X	193.47310	115.41606	357.18112	12.30283	0.1248609	0.16939617	3.2349456	21	8 2.7	20.4
155213 2005 UU_{494}	14.9	X	310.63379	294.26756	119.31516	10.09573	0.0821893	0.18104015	3.0947063	21	10 14.6	19.0
155214 2005 UK_{508}	16.1	X	246.18606	40.95347	324.30536	5.32491	0.0350937	0.22288525	2.6941090	21	5 16.9	19.8
155215 Vámostibor	16.7	X	7.50165	331.16776	78.46640	3.85425	0.1705653	0.25651880	2.4531452	21	—	—
155216 2005 VV_{2}	15.5	X	96.58528	342.87120	55.24006	7.11329	0.0632627	0.20336493	2.8638615	21	1 5.3	19.4
155217 2005 VH_{5}	16.4	X	265.12496	45.52751	326.90946	2.00106	0.0549900	0.22619766	2.6677429	21	6 19.2	19.9
155218 2005 VL_{7}	14.7	X	318.82198	91.98409	303.92272	18.47477	0.1930557	0.24211471	2.5495015	21	9 15.8	17.5
155219 2005 VX_{23}	16.0	X	213.50889	290.32617	356.93937	1.61664	0.0344270	0.20524327	2.8463618	21	1 4.4	20.2
155220 2005 VM_{25}	15.8	X	109.33788	195.70924	251.16825	7.70148	0.1210443	0.21451668	2.7637282	21	3 26.4	19.8
155221 2005 VT_{38}	15.6	X	343.76867	230.75866	125.84005	3.83344	0.1190451	0.17677080	3.1443366	21	9 16.6	19.3
155222 2005 VY_{52}	16.2	X	165.80459	233.69530	155.40106	4.01446	0.1026308	0.21437078	2.7649821	21	3 19.6	20.3
155223 2005 VH_{53}	16.2	X	104.67630	176.81237	168.77872	5.68714	0.1385938	0.25883642	2.4384796	21	—	—
155224 2005 VW_{60}	17.1	X	333.78629	188.24257	345.46710	0.70419	0.1248912	0.26689070	2.3891702	21	—	—
155225 2005 VR_{63}	17.4	X	333.89076	53.44848	150.08821	2.63420	0.1660052	0.27493668	2.3423274	21	1 10.1	20.1
155226 2005 VV_{70}	16.6	X	235.31228	269.51839	154.75943	2.60620	0.0784909	0.23076183	2.6324496	21	7 17.7	20.2
155227 2005 VD_{71}	15.9	X	219.11535	332.96863	92.08150	4.49810	0.0158658	0.22812015	2.6527335	21	7 5.2	19.3
155228 2005 VB_{98}	16.1	X	245.17510	81.93765	272.51709	1.63638	0.1234270	0.22382002	2.6866026	21	4 23.5	20.2
155229 2005 VD_{118}	16.4	X	311.12498	224.41111	136.16305	4.92627	0.2105589	0.29898313	2.2149891	21	7 17.2	18.0
155230 2005 VQ_{118}	14.6	X	271.00003	357.64043	83.48793	12.87691	0.1785828	0.17490124	3.1667039	21	9 11.7	19.3
155231 2005 WV_{2}	15.1	X	319.20109	238.50166	137.44118	10.07469	0.0935125	0.17495043	3.1661103	21	9 3.6	19.1
155232 2005 WL_{5}	15.0	X	325.50298	121.40150	229.06433	13.10475	0.1161890	0.23498241	2.6008331	21	8 4.7	18.2
155233 2005 WO_{8}	16.4	X	141.74136	350.96742	56.84368	1.39711	0.0592409	0.21246445	2.7814966	21	3 12.2	20.3
155234 2005 WK_{16}	16.3	X	66.32932	222.31780	68.01235	2.30507	0.1527403	0.24205915	2.5498916	21	11 6.4	19.7
155235 2005 WX_{17}	15.7	X	88.02789	101.63796	71.95799	9.90575	0.0890604	0.22109929	2.7085975	21	6 19.5	19.3
155236 2005 WO_{18}	15.9	X	330.13485	205.70793	72.14848	3.16066	0.0474235	0.22041624	2.7141905	21	5 13.9	19.4
155237 2005 WP_{18}	16.4	X	190.70392	266.70000	89.96095	0.60704	0.0814285	0.21088190	2.7953950	21	3 4.7	20.6
155238 2005 WY_{18}	15.9	X	26.67696	307.28387	257.30728	1.09770	0.0804119	0.21530402	2.7569864	21	4 29.2	19.1
155239 2005 WB_{19}	15.8	X	301.80063	75.27741	82.42243	3.09011	0.0793540	0.19195693	2.9762325	21	—	—
155240 2005 WO_{21}	16.2	X	24.89232	74.41390	297.58784	1.61254	0.1114107	0.18606598	3.0387250	21	12 9.5	20.2
155241 2005 WO_{22}	15.9	X	83.00797	274.99601	290.12943	2.32378	0.1694886	0.22595270	2.6696707	21	8 6.8	19.5
155242 2005 WQ_{24}	15.1	X	192.30214	212.45153	282.86035	3.81748	0.1012841	0.16932595	3.2358400	21	8 24.6	20.1
155243 2005 WW_{25}	15.9	X	345.06993	63.03775	350.93221	2.19703	0.1428586	0.18494887	3.0509489	21	12 3.5	19.3
155244 2005 WH_{29}	16.3	X	123.61348	290.55717	317.23466	1.41849	0.0384783	0.18002865	3.1062874	21	10 27.5	20.8
155245 2005 WJ_{38}	15.5	X	247.55884	330.62764	117.65327	3.18544	0.1028323	0.17055605	3.2202626	21	8 28.1	20.1
155246 2005 WE_{44}	16.0	X	322.39458	83.91792	314.41159	1.07154	0.0700797	0.24013146	2.5635198	21	10 16.8	18.9
155247 2005 WK_{46}	16.1	X	81.66222	251.62101	290.67431	0.68263	0.0271677	0.22315421	2.6919439	21	6 13.2	19.7
155248 2005 WN_{46}	15.1	X	324.71071	309.36532	152.05533	13.17687	0.1350699	0.18780085	3.0199819	21	12 31.0	18.9
155249 2005 WU_{48}	16.5	X	173.30645	337.64085	55.38423	2.11755	0.0691838	0.21351894	2.7723312	21	3 30.6	20.5
155250 2005 WW_{57}	16.3	X	346.94572	178.85709	165.68165	4.67315	0.2203029	0.24033951	2.5620402	21	9 14.0	17.9
155251 2005 WC_{59}	15.8	X	352.56723	109.55049	284.76266	0.76436	0.0965158	0.18299289	3.0726510	21	11 17.8	19.6
155252 2005 WU_{60}	16.8	X	125.03585	117.60533	24.98271	2.65726	0.0727495	0.29541884	2.2327696	21	6 22.1	19.6
155253 2005 WX_{66}	16.3	X	111.43100	190.96053	210.61529	1.23113	0.0944210	0.20585050	2.8407614	21	1 31.7	20.1
155254 2005 WB_{68}	16.0	X	83.91617	200.05999	199.67611	1.44591	0.0758125	0.19937970	2.9018976	21	—	—
155255 2005 WO_{73}	15.7	X	275.97524	187.43735	166.45183	14.82810	0.2663132	0.22891611	2.6465807	21	5 13.2	20.0
155256 2005 WH_{76}	16.7	X	283.07325	204.62481	18.94550	2.09919	0.1585120	0.26453629	2.4033252	21	—	—
155257 2005 WL_{81}	15.7	X	27.72923	159.51528	266.81049	1.67181	0.0777140	0.19273644	2.9682023	21	—	—
155258 2005 WP_{86}	16.2	X	349.50770	21.20361	237.92860	5.07460	0.1423664	0.28541200	2.2846582	21	4 30.6	18.1
155259 2005 WQ_{86}	16.5	X	236.55032	314.87511	95.90852	2.34337	0.0407256	0.22853495	2.6495226	21	7 5.9	19.9
155260 2005 WH_{89}	16.1	X	212.04173	292.02947	71.73623	4.06530	0.1020404	0.21727876	2.7402564	21	4 5.2	20.4
155261 2005 WE_{95}	16.5	X	172.42486	119.93029	108.17594	1.80081	0.1105614	0.24579269	2.5240042	21	12 4.8	20.2
155262 2005 WL_{95}	14.9	X	214.99360	245.53139	246.20607	10.47669	0.0809486	0.17272966	3.1931900	21	9 10.9	19.9
155263 2005 WM_{98}	16.8	X	306.51339	183.11039	167.85504	1.51072	0.0713620	0.23491981	2.6012951	21	7 15.6	19.8
155264 2005 WN_{99}	15.4	X	229.45838	217.53168	239.07593	4.14679	0.1241881	0.16858593	3.2453024	21	8 13.3	20.5
155265 2005 WM_{103}	16.0	X	207.83090	277.49836	83.34953	7.16554	0.0696891	0.21679687	2.7443156	21	3 30.8	20.1
155266 2005 WP_{105}	15.5	X	292.13181	153.81313	325.48393	0.62740	0.1372372	0.18372361	3.0644984	21	11 28.9	19.3
155267 2005 WE_{106}	15.8	X	100.39367	219.20862	179.40919	2.04035	0.1027888	0.20165113	2.8800649	21	1 15.9	19.7
155268 2005 WE_{108}	16.0	X	230.67797	135.51974	228.83435	5.55990	0.0337588	0.21952117	2.7215633	21	4 27.9	19.7
155269 2005 WC_{113}	15.9	X	231.24445	224.90076	148.09949	9.10270	0.2622593	0.22422250	2.6833867	21	4 28.2	20.7
155270 Dianawheeler	15.2	X	23.68355	325.67601	91.48830	15.13633	0.0983510	0.19283266	2.9672149	21	—	—
155271 2005 WJ_{114}	16.1	X	343.31445	13.33430	323.90262	3.62179	0.1953527	0.23729597	2.5839006	21	8 22.4	18.3
155272 2005 WT_{118}	15.4	X	255.05234	282.32326	151.62929	1.53278	0.1649491	0.17260808	3.1946894	21	8 9.9	20.1
155273 2005 WR_{119}	16.2	X	271.25054	198.61414	160.16881	2.05116	0.1049461	0.22701143	2.6613637	21	6 1.6	19.9
155274 2005 WM_{146}	16.5	X	153.78949	59.67114	14.47039	2.10769	0.0440372	0.21762386	2.7373587	21	4 25.9	20.5
155275 2005 WJ_{154}	16.2	X	242.14117	281.61399	284.88077	4.15495	0.0622882	0.25790449	2.4443503	21	—	—
155276 2005 WV_{155}	16.8	X	251.03892	196.93573	149.09713	7.57373	0.1471859	0.28576264	2.2827889	21	4 15.1	20.2
155277 2005 WJ_{159}	16.0	X	146.54725	34.35426	51.51664	5.99056	0.0176656	0.21912740	2.7248228	21	4 30.4	19.6
155278 2005 WR_{168}	16.2	X	292.14794	195.77485	170.76351	1.77497	0.1786735	0.23186761	2.6240735	21	6 28.5	19.4
155279 2005 WW_{173}	16.5	X	207.19300	47.23764	111.05938	2.82540	0.0685601	0.23985056	2.5655209	21	10 19.7	20.1
155280 2005 WR_{181}	16.0	X	144.61528	222.79965	146.11783	5.43091	0.1100236	0.20709958	2.8293276	21	2 1.3	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155281 2005 WX_{184}	16.9	X	232.81204	56.36280	327.87946	1.28498	0.1483890	0.22525881	2.6751504	21	5 16.7	20.9
155282 2005 WC_{186}	15.2	X	286.45595	331.55277	158.78750	5.42513	0.1332815	0.18394390	3.0620512	21	12 5.8	19.1
155283 2005 WS_{187}	15.2	X	352.41731	357.18768	86.56448	23.74006	0.0413691	0.19238352	2.9718312	21	—	—
155284 2005 WC_{190}	15.5	X	248.79534	104.96374	343.44607	14.57875	0.0619641	0.23763345	2.5814536	21	9 8.1	18.9
155285 2005 WH_{191}	16.0	X	225.26358	316.24467	164.43188	5.21947	0.0723568	0.23642450	2.5902463	21	9 20.7	19.6
155286 2005 WU_{192}	15.5	X	311.53758	176.86351	301.52196	12.45709	0.1049883	0.25159498	2.4850477	21	—	—
155287 2005 XK_{1}	16.9	X	86.51573	178.32710	166.84977	2.34399	0.2687225	0.32061269	2.1142138	21	—	—
155288 2005 XY_{5}	15.4	X	286.92994	303.43768	106.81429	4.05373	0.1481076	0.17141140	3.2095409	21	8 23.4	19.8
155289 2005 XE_{26}	15.5	X	55.39895	350.11785	111.30298	5.07059	0.0453463	0.20326174	2.8648307	21	1 26.9	19.1
155290 Anniegrauer	14.7	X	265.05493	336.83919	90.42906	14.18458	0.0496232	0.16762890	3.2576427	21	9 4.3	19.5
155291 2005 XO_{56}	16.0	X	134.92748	353.59763	351.69968	1.38763	0.0787198	0.19902654	2.9053294	21	—	—
155292 2005 XT_{64}	15.9	X	302.09178	197.54930	176.14187	4.40014	0.2102846	0.23512549	2.5997779	21	7 18.4	18.8
155293 2005 XO_{65}	15.9	X	256.61867	67.38675	292.74055	5.72839	0.0158929	0.22212971	2.7002146	21	5 27.2	19.5
155294 2005 XY_{65}	15.0	X	8.72599	243.06912	133.27592	11.89734	0.0771974	0.18198381	3.0839989	21	11 21.1	19.2
155295 2005 XN_{77}	15.6	X	36.40234	216.95866	87.06393	16.20098	0.1370468	0.23393575	2.6085849	21	10 20.7	19.1
155296 2005 YJ	14.5	X	304.94016	40.62473	6.04137	27.23152	0.1781522	0.17353571	3.1832944	21	9 16.5	18.5
155297 2005 YS_{9}	16.5	X	330.73147	293.37806	40.43797	2.35890	0.1057065	0.23291570	2.6161956	21	7 28.1	19.3
155298 2005 YG_{19}	16.6	X	296.04905	185.17106	64.09646	2.81901	0.0944516	0.27110670	2.3643361	21	2 3.9	19.8
155299 2005 YD_{25}	15.5	X	191.74640	60.87212	160.16353	0.60824	0.1296528	0.17758070	3.1347690	21	12 3.9	20.3
155300 2005 YG_{40}	15.1	X	207.34454	343.40041	161.76800	1.28431	0.0851692	0.16879109	3.2426721	21	9 23.5	19.8
155301 2005 YU_{43}	16.3	X	234.89049	247.25402	130.91888	3.23116	0.0818350	0.22202966	2.7010257	21	5 18.1	20.2
155302 2005 YS_{46}	14.2	X	37.54391	123.78632	92.50855	10.91005	0.0246674	0.15203582	3.4767391	21	6 1.9	19.1
155303 2005 YU_{53}	16.0	X	333.91919	31.76655	262.64906	2.39891	0.1738610	0.21689894	2.7434545	21	5 27.8	18.7
155304 2005 YE_{57}	16.6	X	352.23143	62.85270	330.27776	3.42909	0.0871321	0.24232620	2.5480179	21	11 27.4	19.5
155305 2005 YU_{73}	15.0	X	180.83812	133.35103	318.17128	2.98800	0.0384416	0.15757978	3.3947077	21	6 21.9	20.0
155306 2005 YA_{75}	15.7	X	311.78317	226.45362	175.86408	13.77530	0.1735898	0.23986498	2.5654181	21	9 26.2	18.0
155307 2005 YB_{133}	15.9	X	0.47164	306.20040	332.83913	4.93447	0.1161772	0.22174058	2.7033728	21	6 30.7	18.9
155308 2005 YA_{137}	15.5	X	234.84052	291.98684	289.13021	3.56605	0.1075313	0.18577022	3.0419494	21	—	—
155309 2005 YS_{141}	16.0	X	177.18159	269.33460	69.35620	2.54598	0.0852968	0.19974559	2.8983528	21	1 30.4	20.3
155310 2005 YF_{156}	15.9	X	1.68885	350.56586	40.34650	0.68949	0.2102331	0.18355522	3.0663723	21	12 9.2	19.2
155311 2005 YW_{159}	16.2	X	137.52202	230.75862	203.24155	3.35680	0.0822407	0.21060029	2.7978864	21	4 11.4	20.2
155312 2005 YC_{168}	15.4	X	164.62530	346.56789	261.79954	4.29177	0.0959366	0.17859031	3.1229435	21	12 11.4	20.3
155313 2005 YZ_{170}	15.7	X	250.09129	49.83619	184.76073	3.63893	0.0911010	0.19079105	2.9883449	21	—	—
155314 2005 YW_{206}	15.5	X	1.23134	309.68369	85.78138	1.23839	0.0585437	0.17759289	3.1346256	21	11 28.4	19.6
155315 2005 YM_{219}	16.0	X	104.55908	121.18546	291.37945	1.29907	0.1096239	0.20363203	2.8613567	21	2 8.4	19.8
155316 2005 YP_{275}	15.9	X	31.33549	297.17235	33.89052	1.51572	0.1913895	0.18183936	3.0856319	21	11 7.9	19.7
155317 2005 YU_{283}	16.9	X	311.74017	252.86352	47.98294	3.24541	0.0909902	0.28700842	2.2761784	21	5 6.2	19.1
155318 2006 AP_{18}	14.9	X	178.40068	147.21777	96.40458	10.68253	0.0469808	0.17942887	3.1132058	21	12 22.1	19.3
155319 2006 AC_{31}	16.0	X	270.89991	270.40876	86.57001	6.46201	0.0839780	0.22333713	2.6904738	21	6 2.0	19.7
155320 2006 AC_{32}	15.6	X	286.08909	208.31807	43.29458	2.57824	0.0482008	0.20103476	2.8859487	21	2 13.7	19.7
155321 2006 AA_{55}	15.4	X	108.20591	117.45220	173.03782	3.73551	0.0270212	0.17692812	3.1424724	21	11 29.9	20.0
155322 2006 AR_{56}	15.3	X	190.49547	173.59365	21.68205	1.02934	0.1180656	0.17513809	3.1638482	21	11 3.1	20.1
155323 2006 AD_{70}	16.0	X	170.39689	133.82122	216.55110	1.29622	0.0845675	0.19886388	2.9069135	21	2 5.1	20.2
155324 2006 AY_{81}	16.1	X	200.05487	325.14518	62.23630	3.00042	0.0839858	0.21294254	2.7773318	21	4 21.8	20.3
155325 2006 AG_{86}	14.8	X	19.43427	116.12264	228.49978	14.08584	0.1398183	0.24204261	2.5500077	21	11 11.8	17.8
155326 2006 AN_{97}	12.6	X	153.59515	350.67390	94.82309	20.89366	0.0185171	0.08301645	5.2042714	21	5 22.3	19.7
155327 2006 AV_{99}	13.3	X	43.46058	53.05625	159.00409	7.91006	0.0549428	0.08208061	5.2437541	21	6 9.5	20.1
155328 2006 BG_{13}	16.1	X	255.35855	134.59862	270.20519	5.21857	0.1306596	0.22938583	2.6429665	21	7 9.3	19.8
155329 2006 BJ_{43}	15.6	X	318.85420	300.66104	89.90782	6.01872	0.3438064	0.23553267	2.5967807	21	8 29.9	17.4
155330 2006 BN_{61}	14.8	X	36.71952	345.85564	346.96956	18.93046	0.1176808	0.17196355	3.2026670	21	10 27.8	19.4
155331 2006 BD_{104}	14.7	X	51.83250	264.12029	106.86454	24.30003	0.1665023	0.18794571	3.0184300	21	—	—
155332 2006 BA_{157}	13.1	X	316.02890	186.67729	127.98628	5.16173	0.1339244	0.08102777	5.2890799	21	6 7.4	19.6
155333 2006 BK_{196}	15.8	X	177.19303	167.91127	167.13479	6.15743	0.1669341	0.19212735	2.9744722	21	1 30.2	20.7
155334 2006 DZ_{169}	17.1	X	31.81426	275.94644	14.82328	6.61655	0.4090246	0.33973060	2.0341342	21	11 14.9	19.5
155335 2006 EV	14.8	X	147.52416	124.21178	74.57186	27.42804	0.2073292	0.17195657	3.2027537	21	10 15.6	20.7
155336 2006 GA_{1}	18.3	X	22.44635	355.28084	64.34962	4.19137	0.7372234	0.31904926	2.1211150	21	—	—
155337 2006 KH_{89}	12.6	X	328.71054	305.85219	353.83536	17.01921	0.0907534	0.08242714	5.2290470	21	6 9.1	19.4
155338 2006 MZ_{1}	20.5	X	199.50857	138.62949	226.62321	2.08211	0.4825764	0.50136395	1.5692807	21	3 8.9	23.0
155339 2006 RD_{83}	17.4	X	310.74822	212.97575	189.22678	4.90197	0.1025928	0.26279802	2.4139114	21	10 4.8	19.6
155340 2006 SK_{198}	16.3	X	36.76940	352.58223	260.55621	9.23763	0.4666423	0.32216614	2.1074120	21	10 3.0	18.9
155341 2006 SA_{218}	18.2	X	56.57347	278.04905	144.37608	18.52290	0.2414200	0.54875923	1.4775703	21	—	—
155342 2006 XD_{40}	15.9	X	6.92976	53.94992	264.84446	0.86563	0.0683375	0.18542689	3.0457032	21	9 1.3	19.8
155343 2006 YU_{6}	15.8	X	108.56328	302.61258	105.33968	10.38778	0.1533714	0.22083766	2.7107364	21	2 13.4	19.5
155344 2007 AP_{14}	16.6	X	4.80140	53.69804	18.13100	2.56974	0.1624755	0.26499384	2.4005579	21	—	—
155345 2007 AR_{14}	16.8	X	127.22119	338.11903	128.00904	5.64069	0.1077292	0.29343393	2.2428273	21	5 10.3	19.7
155346 2007 AH_{23}	17.4	X	279.94689	30.83339	145.39844	3.97380	0.1143568	0.26626285	2.3929245	21	—	—
155347 2007 BU_{31}	16.1	X	161.80433	299.65178	146.74310	6.99771	0.2154016	0.22745781	2.6578807	21	5 31.7	20.7
155348 2007 BE_{44}	16.6	X	296.11166	189.04977	311.64487	0.50602	0.1324586	0.26119264	2.4237925	21	—	—
155349 2007 CL_{17}	16.9	X	251.73515	183.12534	30.86946	2.78623	0.1277926	0.26406647	2.4061750	21	—	—
155350 2007 CN_{21}	15.6	X	245.40015	223.10031	144.74877	15.50132	0.1543874	0.23029545	2.6360024	21	5 13.3	20.0
155351 2007 CY_{24}	15.7	X	152.93540	310.58379	150.05353	14.72994	0.0624072	0.22821738	2.6519800	21	6 2.9	19.8
155352 2007 CA_{25}	16.4	X	233.58836	288.73852	302.86379	7.81064	0.1625643	0.26335089	2.4105318	21	—	—
155353 2007 CM_{25}	16.7	X	274.65359	329.47509	251.66514	1.50644	0.1474464	0.26698133	2.3886295	21	—	—
155354 2007 CE_{27}	15.2	X	257.76417	293.46592	157.95447	16.86815	0.1963065	0.17783662	3.1317609	21	8 31.0	19.8
155355 2007 DU_{2}	16.9	X	229.42291	163.91017	53.19571	2.46241	0.1441791	0.25948149	2.4344365	21	—	—
155356 2707 P–L	16.2	X	224.86825	339.34470	17.25294	5.42279	0.1710287	0.22072066	2.7116943	21	4 4.4	20.7
155357 6096 P–L	15.7	X	271.68310	350.70353	0.48057	11.79706	0.1913531	0.22297067	2.6934209	21	5 6.9	19.8
155358 6231 P–L	14.9	X	82.02679	346.94083	334.98404	8.39782	0.0757603	0.18076444	3.0978523	21	12 12.5	19.5
155359 6292 P–L	16.2	X	52.34926	34.66538	358.42070	6.86252	0.1109429	0.26292366	2.4131423	21	—	—
155360 1031 T–2	16.5	X	234.15176	181.56102	181.37138	6.83943	0.1267620	0.28180264	2.3041249	21	4 19.9	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155361 1096 T–2	15.1	X	135.58453	158.33889	191.22637	9.58769	0.1047047	0.19270874	2.9684867	21	—	—
155362 3127 T–3	16.4	X	294.96197	302.47969	36.97213	5.27215	0.1391478	0.28707547	2.2758239	21	5 28.6	18.9
155363 3207 T–3	15.9	X	298.91043	147.81290	193.69714	2.00752	0.1163415	0.21975373	2.7196429	21	6 14.3	19.4
155364 3402 T–3	16.1	X	278.52365	298.96712	40.33304	3.07621	0.1998016	0.21884275	2.7271851	21	5 2.7	20.1
155365 4308 T–3	15.9	X	265.47467	280.02422	76.70321	5.86903	0.1266269	0.21851939	2.7298748	21	5 20.4	19.8
155366 4557 T–3	16.2	X	37.06471	224.72502	111.22038	3.37336	0.0439327	0.24774337	2.5107378	21	11 13.8	19.3
155367 5095 T–3	15.5	X	336.23870	219.70803	68.83998	9.80699	0.1471858	0.21928904	2.7234836	21	5 27.2	18.2
155368 5120 T–3	14.8	X	254.46122	26.18638	37.47121	29.71328	0.2124493	0.17492409	3.1664281	21	7 31.6	20.2
155369 1981 EH_{15}	16.2	X	19.90279	248.85232	219.91842	4.61801	0.1607089	0.26669471	2.3903405	21	—	—
155370 1988 TX	16.3	X	44.95167	137.02370	207.03316	4.78865	0.3150958	0.30343071	2.1932915	21	—	—
155371 1990 SB_8	17.0	X	207.04834	285.10327	76.99166	3.32957	0.2317406	0.27476664	2.3432937	21	3 23.3	21.0
155372 1991 TM_{15}	15.4	X	10.09564	281.71297	45.47709	15.45778	0.2104414	0.22855899	2.6493369	21	10 14.4	18.1
155373 1991 TV_{16}	16.7	X	31.51312	352.27481	134.15817	3.21134	0.1310444	0.27511678	2.3413050	21	1 1.9	18.8
155374 1991 VZ_{10}	16.0	X	51.52621	265.55321	75.45582	4.37403	0.2257297	0.23366948	2.6105663	21	12 30.8	19.8
155375 1992 DP_3	17.3	X	347.36359	145.05362	47.86581	2.10571	0.1252730	0.27041240	2.3683814	21	1 24.1	20.0
155376 1992 RL_5	15.5	X	356.16870	331.44169	6.80355	6.02985	0.2659882	0.23852112	2.5750450	21	10 1.9	17.2
155377 1992 SW_9	16.5	X	253.60889	56.69839	5.37513	7.20557	0.1100990	0.23403886	2.6078187	21	8 5.4	20.1
155378 1993 FF_9	16.8	X	49.44380	120.58518	82.96429	3.14666	0.1449653	0.21525642	2.7573928	21	6 12.5	20.0
155379 1993 FP_{50}	17.0	X	40.53443	201.89520	351.35750	3.44788	0.0979817	0.28344313	2.2952258	21	4 28.8	19.1
155380 1993 FU_{56}	16.9	X	79.37093	33.44951	130.81577	5.87593	0.1301549	0.28487878	2.2875081	21	5 30.6	19.4
155381 1993 FY_{64}	15.8	X	240.53095	24.36064	288.59808	3.29195	0.0540813	0.20936391	2.8088907	21	3 3.8	19.9
155382 1993 TZ_{15}	15.6	X	99.29105	201.29857	153.02308	1.22042	0.1570765	0.18534484	3.0466020	21	—	—
155383 1993 TC_{18}	16.9	X	193.27782	219.45712	124.34709	1.52579	0.2326031	0.26573736	2.3960781	21	2 17.8	20.8
155384 1993 TZ_{19}	16.2	X	98.40895	316.93367	58.60766	3.46115	0.2032501	0.25819286	2.4425300	21	—	—
155385 1993 UO_6	16.6	X	58.90698	347.76487	61.66372	7.84287	0.1676265	0.25608273	2.4559293	21	—	—
155386 1994 AF_6	16.6	X	150.19648	281.09566	281.47385	0.77285	0.0919817	0.23808623	2.5781798	21	10 10.0	20.5
155387 1994 AC_9	15.8	X	32.94563	244.68464	133.74104	1.86139	0.1690817	0.17429097	3.1740916	21	—	—
155388 1994 AR_{10}	15.5	X	313.78996	52.47618	355.86373	3.48139	0.1985305	0.24090194	2.5580509	21	10 5.5	17.6
155389 1994 CY_3	15.8	X	106.07774	156.66226	150.28895	13.82689	0.1624929	0.24272915	2.5451971	21	—	—
155390 1994 PP_{29}	16.8	X	346.07897	118.71069	197.03202	4.03901	0.2922815	0.29115442	2.2545184	21	7 19.2	17.3
155391 1994 PG_{30}	16.4	X	9.12415	111.24185	169.70868	7.37428	0.1773726	0.29051322	2.2578345	21	7 24.1	18.1
155392 1994 SE_3	16.9	X	34.16435	137.69382	317.25526	0.94148	0.0425318	0.19637222	2.9314513	21	—	—
155393 1995 BN_5	16.9	X	217.87298	256.78712	113.30906	3.45177	0.2416926	0.27515979	2.3410610	21	4 10.5	20.9
155394 1995 CQ_6	15.7	X	145.59059	32.21417	221.70191	1.62595	0.1467868	0.17498244	3.1657242	21	11 29.9	20.9
155395 1995 SA_5	15.5	X	92.43778	228.57051	191.57992	14.90404	0.1331681	0.20463725	2.8519785	21	2 1.8	19.5
155396 1995 SS_{14}	16.1	X	313.22391	209.06201	177.21563	12.10977	0.1720390	0.22663785	2.6642875	21	8 31.8	19.0
155397 1995 SA_{19}	16.4	X	331.08643	267.68945	8.21352	3.44828	0.1726000	0.21801886	2.7340514	21	4 25.1	19.6
155398 1995 SS_{31}	16.1	X	274.11170	256.79603	159.46811	5.98098	0.0461698	0.22682793	2.6627989	21	8 31.8	19.6
155399 1995 SB_{47}	16.4	X	51.44614	329.12596	14.80505	7.04527	0.1483741	0.27151918	2.3619410	21	—	—
155400 1995 UD_1	17.2	X	237.36608	13.12197	5.63152	8.50552	0.1431020	0.29315400	2.2442548	21	5 8.6	20.5
155401 1995 UM_{14}	16.1	X	274.16942	22.29581	291.89999	2.03888	0.1700447	0.21435214	2.7651424	21	3 30.2	20.2
155402 1995 UZ_{17}	16.4	X	177.66260	23.30568	353.23395	5.39549	0.0246467	0.21104999	2.7939105	21	3 11.9	20.3
155403 1995 UC_{19}	16.6	X	351.92341	280.41641	57.50244	3.53612	0.1285411	0.22587289	2.6702996	21	9 11.9	19.4
155404 1995 UX_{38}	16.0	X	262.41209	350.90870	28.97643	3.43345	0.1111847	0.21927025	2.7236392	21	6 17.6	19.8
155405 1995 VH_9	16.1	X	253.85656	227.09140	66.36494	2.99066	0.0358817	0.20656950	2.8341658	21	2 28.0	20.0
155406 1995 VS_9	17.4	X	91.04565	160.58453	21.64744	2.31659	0.0364515	0.29436200	2.2381106	21	6 26.8	19.8
155407 1995 XB_4	15.9	X	357.45743	70.09959	216.51674	8.08955	0.1464449	0.21746602	2.7386831	21	7 4.0	18.9
155408 1995 YF_7	16.2	X	339.08439	207.21973	143.04821	3.27710	0.2511454	0.22371931	2.6874088	21	8 29.2	18.1
155409 1995 YN_7	15.9	X	228.78463	181.98305	159.08625	3.46812	0.0600372	0.20883032	2.8136734	21	3 27.4	19.9
155410 1996 CE_2	16.9	X	13.51763	66.84576	96.29904	5.19922	0.1802252	0.27438512	2.3454653	21	1 17.2	18.7
155411 1996 DG_3	16.9	X	260.58668	200.54557	157.29183	6.61051	0.1581518	0.28461797	2.2889054	21	5 9.9	20.1
155412 1996 FO_{10}	16.9	X	128.42605	307.76153	133.00096	3.09827	0.1058423	0.27668176	2.3324680	21	4 6.9	19.8
155413 1996 HS_{19}	15.3	X	161.50103	128.15032	130.30427	1.61506	0.1784311	0.17673726	3.1447344	21	12 18.2	20.6
155414 1996 HQ_{24}	16.7	X	260.11992	59.86897	191.34364	3.11686	0.1628109	0.26503256	2.4003241	21	—	—
155415 1996 JZ_5	13.2	X	285.55424	239.46984	109.96715	3.87348	0.1404227	0.08206137	5.2445738	21	6 7.8	20.0
155416 1996 KJ_2	15.3	X	212.91886	69.45594	74.85477	17.70601	0.2022771	0.17381520	3.1798811	21	9 29.2	20.8
155417 1996 RC_7	16.4	X	273.71191	39.10250	352.42028	7.28565	0.1937595	0.23167849	2.6255013	21	7 6.7	20.1
155418 1996 SQ_2	16.9	X	218.34365	307.93527	197.05196	1.15629	0.0721144	0.23895771	2.5719075	21	10 13.9	20.2
155419 1996 TG_{34}	16.3	X	114.06895	272.08379	27.73399	6.82006	0.2018585	0.24390179	2.5370327	21	—	—
155420 1996 VJ_{10}	15.3	X	174.25092	230.73118	349.04402	12.53970	0.1190103	0.24218129	2.5490342	21	11 21.5	19.5
155421 1996 VT_{22}	16.6	X	44.30370	142.74360	205.50323	12.94258	0.1851118	0.23969346	2.5666418	21	12 26.3	20.3
155422 1996 XR_{16}	16.2	X	87.08053	191.72314	55.01641	3.26367	0.0406219	0.23045496	2.6347860	21	9 20.4	19.7
155423 1997 AZ_{19}	16.5	X	143.80067	236.95574	184.14033	1.82081	0.0219221	0.21025860	2.8009168	21	3 26.6	20.5
155424 1997 BL_5	15.8	X	211.96273	247.91279	147.63972	6.91029	0.0788580	0.21537335	2.7563947	21	5 16.5	20.0
155425 1997 ER_6	15.8	X	355.17676	43.31474	216.34850	7.55979	0.0610133	0.21294039	2.7773505	21	5 26.5	19.2
155426 1997 GU_{13}	17.2	X	136.12808	353.30446	209.24668	3.19944	0.0986250	0.30046352	2.2077076	21	9 30.9	20.3
155427 1997 LO_5	13.5	X	315.02841	122.71005	186.07286	12.78268	0.0722831	0.08353926	5.1825357	21	6 6.5	20.3
155428 1997 MU_2	14.7	X	124.37006	210.70603	98.52503	19.14225	0.1190225	0.18066599	3.0989777	21	—	—
155429 1997 MB_8	16.5	X	130.71489	154.45229	266.66306	1.88405	0.1564187	0.27262750	2.3555352	21	3 18.9	19.6
155430 1997 NS_5	17.0	X	234.59999	157.04847	175.38319	2.25286	0.1755823	0.27574973	2.3377209	21	3 8.7	20.5
155431 1997 QL_2	14.3	X	96.44345	358.38181	316.58198	22.55037	0.2001927	0.17524344	3.1625801	21	—	—
155432 1997 SS_2	16.9	X	162.29884	348.92381	10.68394	2.14179	0.2268748	0.26587206	2.3952687	21	2 11.4	20.6
155433 1997 UQ_4	15.9	X	136.92589	294.72573	74.33957	2.86619	0.2030493	0.26451071	2.4034802	21	1 26.5	19.1
155434 1997 VQ_8	16.2	X	119.67326	327.75189	35.83986	7.58541	0.1877358	0.26021882	2.4298357	21	—	—
155435 1997 WN_6	16.1	X	109.78666	302.89691	78.32998	4.73235	0.2286643	0.26040758	2.4286614	21	1 12.5	18.8
155436 1997 WZ_{24}	16.5	X	253.82715	83.66985	224.28198	5.86849	0.1318280	0.27002792	2.3706290	21	2 24.9	20.2
155437 1998 DE	15.8	X	165.80445	159.14492	349.73720	3.30208	0.2292917	0.22990412	2.6389929	21	8 20.2	20.3
155438 Velásquez	15.5	X	225.20203	146.76657	338.13452	4.40023	0.2109784	0.23756999	2.5819133	21	9 10.0	19.6
155439 1998 DF_{24}	15.7	X	95.03801	176.49226	21.98694	4.29476	0.1392622	0.22423026	2.6833247	21	8 10.5	19.5
155440 1998 FN_8	16.5	X	151.56228	106.90097	28.37786	6.01165	0.2058669	0.22542258	2.6738545	21	7 22.9	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155441 1998 FP_{10}	15.5	X	45.25195	276.31662	356.84843	12.63466	0.2124516	0.22434848	2.6823820	21	9 22.9	18.8
155442 1998 HN_{9}	15.7	X	115.30014	339.40994	136.81002	9.96395	0.0990524	0.21490119	2.7604306	21	5 14.6	19.8
155443 1998 HX_{14}	16.3	X	51.27619	123.98267	114.17406	3.11296	0.0232318	0.22289831	2.6940038	21	7 16.9	19.6
155444 1998 HJ_{35}	15.6	X	130.21250	40.92420	105.43951	4.88108	0.1654746	0.22291766	2.6938479	21	7 13.2	19.8
155445 1998 HL_{35}	15.7	X	66.68277	156.30008	37.41847	14.96593	0.1418535	0.21957940	2.7210822	21	6 24.9	19.4
155446 1998 HK_{40}	15.4	X	353.67225	214.68633	32.92041	13.12505	0.1005554	0.21604949	2.7506409	21	5 2.6	18.6
155447 1998 HN_{41}	15.8	X	91.19431	116.23904	49.86479	13.14930	0.1166230	0.21921191	2.7241224	21	6 16.9	19.6
155448 1998 HB_{43}	16.0	X	286.69013	193.18623	148.05971	5.45447	0.0216047	0.21917132	2.7244587	21	6 11.9	19.7
155449 1998 HV_{94}	15.4	X	67.53921	5.46054	212.45664	12.69956	0.1339777	0.22032755	2.7149188	21	7 25.2	19.2
155450 1998 HT_{119}	15.9	X	357.67905	95.63994	166.35300	7.17728	0.3231135	0.21486698	2.7607236	21	5 19.4	17.7
155451 1998 HV_{134}	15.0	X	45.55912	132.49161	165.69753	12.83850	0.1837257	0.22759162	2.6568388	21	10 26.8	18.5
155452 1998 HN_{150}	15.6	X	107.03340	102.38088	102.10049	3.76138	0.1326171	0.22517963	2.6757774	21	8 31.1	19.6
155453 1998 HS_{154}	15.7	X	40.17476	201.50799	352.60377	11.48898	0.0828307	0.21704325	2.7422383	21	5 1.9	19.2
155454 1998 MU_{18}	15.2	X	326.45028	134.86106	159.09511	9.13362	0.1891570	0.21256081	2.7806559	21	5 14.4	18.5
155455 1998 ML_{24}	16.7	X	77.59992	221.22304	98.03373	6.93480	0.2873675	0.31079374	2.1585124	21	—	—
155456 1998 QQ_{62}	16.3	X	177.38418	60.24196	196.34872	4.91594	0.1293156	0.31571613	2.1360178	21	—	—
155457 1998 QK_{103}	16.3	X	306.98309	256.89736	119.01133	4.13182	0.1954946	0.29774438	2.2211284	21	8 7.5	17.9
155458 1998 QL_{111}	17.2	X	237.95161	141.67804	223.95459	1.70563	0.2352099	0.28994524	2.2607822	21	4 18.6	20.7
155459 1998 RS_{6}	15.0	X	230.65647	279.23277	343.74518	9.97600	0.0915563	0.19217610	2.9739692	21	—	—
155460 1998 RB_{14}	15.7	X	322.91428	70.26870	305.95943	1.22243	0.1200215	0.17079471	3.2172621	21	9 4.9	19.5
155461 1998 RV_{37}	16.3	X	152.05069	303.42167	324.68476	4.79990	0.1955129	0.31341648	2.1464536	21	—	—
155462 1998 RG_{42}	16.8	X	235.35704	68.77983	315.77590	4.17707	0.1462634	0.29050311	2.2578869	21	5 15.6	20.2
155463 1998 RM_{53}	15.0	X	19.59167	172.34349	186.66604	9.37789	0.0851390	0.17521316	3.1629444	21	11 12.4	19.2
155464 1998 RU_{70}	16.6	X	340.39538	279.24888	35.25419	6.85853	0.1601455	0.29638498	2.2279149	21	7 14.9	18.4
155465 1998 RE_{79}	14.7	X	91.89467	311.78749	21.85625	17.32236	0.1689994	0.18084291	3.0969562	21	—	—
155466 1998 SJ_{9}	16.6	X	43.04994	353.70984	5.76930	1.85120	0.2264135	0.30746808	2.1740491	21	—	—
155467 1998 SO_{20}	16.7	X	144.58919	55.39283	351.90714	4.35386	0.1871350	0.28133527	2.3066760	21	3 19.6	19.9
155468 1998 SM_{65}	16.7	X	293.65401	283.52949	104.69690	4.33846	0.1633614	0.29584766	2.2306116	21	8 7.8	18.7
155469 1998 SB_{81}	14.8	X	111.24330	129.43566	193.00489	9.60783	0.0934418	0.18232255	3.0801778	21	—	—
155470 1998 SH_{88}	16.9	X	180.88589	287.29550	118.56737	2.88600	0.2271801	0.28536671	2.2848999	21	4 24.5	20.7
155471 1998 SC_{97}	15.3	X	353.13256	258.27373	164.48537	6.84208	0.1651690	0.17757416	3.1348460	21	12 28.5	19.0
155472 1998 SY_{98}	14.9	X	129.74942	303.87782	8.16974	8.69008	0.1390675	0.18308615	3.0716075	21	—	—
155473 1998 SW_{104}	16.9	X	165.20886	15.88173	63.64589	5.02334	0.1256097	0.28698078	2.2763245	21	5 18.2	20.0
155474 1998 SO_{124}	14.9	X	102.05678	168.05612	187.89618	10.16650	0.2852487	0.18332069	3.0689871	21	—	—
155475 1998 SP_{131}	14.9	X	331.81519	204.19654	218.40139	13.17785	0.1909603	0.17298741	3.1900174	21	11 18.8	18.3
155476 1998 SX_{141}	15.3	X	79.72125	158.54297	180.33826	15.65225	0.1827039	0.17890086	3.1193284	21	—	—
155477 1998 SG_{149}	15.5	X	244.88273	296.24915	353.10065	10.54102	0.2845577	0.19636485	2.9315246	21	2 1.4	20.8
155478 1998 SY_{162}	16.7	X	0.36256	328.70561	21.61795	2.95880	0.1670844	0.30074462	2.2063317	21	11 2.8	18.2
155479 1998 TG_{2}	17.0	X	160.71557	24.41312	334.99681	2.69309	0.2019228	0.27737770	2.3285649	21	2 5.5	20.3
155480 1998 TK_{2}	16.6	X	124.14118	213.45959	238.31370	4.29441	0.0849086	0.28188100	2.3036978	21	4 10.0	19.5
155481 1998 TJ_{25}	17.1	X	46.61832	288.77422	182.81301	1.56705	0.1920044	0.27446429	2.3450142	21	1 8.7	18.6
155482 1998 TF_{38}	14.6	X	342.98739	200.72366	218.25298	18.34847	0.1445051	0.17355090	3.1831087	21	12 3.9	18.5
155483 1998 UC_{27}	15.3	X	76.79385	222.57815	115.34211	5.39278	0.3055725	0.17827255	3.1266534	21	—	—
155484 1998 US_{34}	14.9	X	298.75750	22.89204	41.77460	5.46038	0.1361397	0.16953193	3.2332185	21	9 30.3	19.0
155485 1998 VY_{11}	16.8	X	154.67920	251.88103	151.53200	4.18058	0.2392452	0.28013401	2.3132656	21	3 31.0	20.4
155486 1998 VT_{56}	16.5	X	109.56202	273.05605	139.97513	3.79596	0.2048524	0.27419392	2.3465555	21	2 17.3	19.0
155487 1998 WP_{8}	16.5	X	174.35290	327.50771	67.15197	7.05488	0.1223833	0.28004481	2.3137567	21	4 1.7	19.9
155488 1998 WJ_{35}	15.4	X	206.24358	11.57309	228.29423	0.71325	0.0356023	0.17953980	3.1119233	21	—	—
155489 1998 XA_{8}	15.9	X	90.92776	149.77562	173.21523	1.10219	0.1757559	0.17725612	3.1385946	21	—	—
155490 1998 XF_{27}	15.5	X	208.80506	316.43468	89.68669	24.82173	0.2129136	0.28436602	2.2902572	21	5 23.6	19.5
155491 1998 YR_{7}	16.5	X	305.54272	57.19878	38.61127	25.87748	0.0813208	0.38729693	1.8639747	21	—	—
155492 1999 AD_{15}	16.9	X	132.55730	73.10306	284.57393	2.82990	0.0303448	0.26465478	2.4026078	21	—	—
155493 1999 BZ_{26}	16.4	X	300.06636	159.56999	117.99822	3.53546	0.1564226	0.27421665	2.3464258	21	3 9.7	19.3
155494 1999 CY_{16}	14.6	X	262.74305	336.97941	51.39073	9.04731	0.2560844	0.24420412	2.5349383	21	6 9.5	18.5
155495 1999 CW_{33}	16.5	X	185.76557	163.98538	326.59328	4.21695	0.0787641	0.24106395	2.5569047	21	8 17.6	20.1
155496 1999 CF_{34}	15.9	X	263.78084	280.37963	332.62349	4.61591	0.0931889	0.26415391	2.4056440	21	1 3.9	19.4
155497 1999 CL_{91}	17.1	X	301.14248	27.01142	149.96590	1.09027	0.1497769	0.26009544	2.4306041	21	—	—
155498 1999 CO_{102}	15.8	X	203.83035	346.31739	147.82287	9.15865	0.1819525	0.24508289	2.5288752	21	9 5.6	19.7
155499 1999 EU_{6}	17.5	X	317.74385	273.12249	206.19489	0.97894	0.1415048	0.25508878	2.4623048	21	—	—
155500 1999 EN_{12}	14.4	X	10.63038	333.72131	24.89663	14.75816	0.1264918	0.24413746	2.5353997	21	11 11.7	17.4
155501 1999 JX_{96}	15.7	X	205.56282	14.33676	186.60601	10.08308	0.1274270	0.24468786	2.5315962	21	12 4.9	19.5
155502 1999 JP_{97}	15.2	X	192.85213	80.48865	132.90868	10.38943	0.1162622	0.24427341	2.5344589	21	12 8.6	19.1
155503 1999 LP_{5}	17.0	X	36.09422	97.76020	218.98668	20.05733	0.0844544	0.36869376	1.9261593	21	11 14.1	18.7
155504 1999 LC_{7}	15.8	X	11.58632	213.34757	94.97887	14.14937	0.1584578	0.23030985	2.6358925	21	9 15.1	18.9
155505 1999 NR_{32}	15.3	X	59.44461	208.13504	115.65357	13.54379	0.1724015	0.23392862	2.6086379	21	12 13.1	19.1
155506 1999 NM_{40}	15.4	X	73.18731	346.56393	311.89728	12.44801	0.2604522	0.23316776	2.6143098	21	12 3.1	19.7
155507 1999 RE_{5}	16.6	X	313.03290	154.73208	279.52009	0.72865	0.2117767	0.18240233	3.0792797	21	10 27.7	19.8
155508 1999 RF_{22}	15.9	X	75.42753	16.45949	2.01960	3.00923	0.2632691	0.19113043	2.9848064	21	—	—
155509 1999 RP_{73}	15.5	X	279.57531	141.61854	209.25444	6.03468	0.0352779	0.21614468	2.7498332	21	6 12.8	19.3
155510 1999 RR_{73}	15.5	X	48.76715	214.78126	176.49056	10.76245	0.1089643	0.19105387	2.9856037	21	—	—
155511 1999 RU_{143}	15.9	X	257.55057	168.88290	203.29139	4.36843	0.1355165	0.21506767	2.7590059	21	5 30.3	19.9
155512 1999 RH_{162}	15.4	X	279.44341	211.87590	138.68132	7.04735	0.0402279	0.21658253	2.7461259	21	6 12.1	19.2
155513 1999 RB_{172}	15.6	X	309.69648	284.84603	42.66581	3.78481	0.0797920	0.21755478	2.7379382	21	6 16.3	18.9
155514 1999 RT_{172}	15.7	X	316.02596	199.24978	134.52235	8.19086	0.1794783	0.21935006	2.7229785	21	6 21.0	18.9
155515 1999 RZ_{190}	15.8	X	52.13655	250.47633	68.31267	3.07106	0.3335362	0.23137841	2.6277709	21	12 16.7	19.8
155516 1999 RG_{204}	15.4	X	180.74908	178.38227	210.84306	16.59763	0.0901467	0.20651172	2.8346944	21	4 1.9	19.8
155517 1999 RH_{213}	16.5	X	101.16008	53.85434	342.82901	1.22877	0.0874140	0.19777845	2.9175394	21	1 13.8	20.4
155518 1999 RS_{217}	16.0	X	59.21568	21.22206	339.47451	8.04735	0.1176215	0.18943503	3.0025887	21	—	—
155519 1999 RS_{251}	16.5	X	248.70467	329.29184	358.58852	3.02929	0.0755571	0.20964892	2.8063444	21	3 30.8	20.5
155520 1999 TH_{10}	14.7	X	345.06290	248.98340	182.97009	8.18120	0.1936044	0.18429613	3.0581485	21	12 29.9	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155521 1999 TM_{26}	17.2	X	271.91987	101.40051	341.51946	2.14443	0.0957469	0.31276353	2.1494399	21	10 7.2	19.2
155522 1999 TF_{28}	15.3	X	353.90679	287.57447	29.50517	9.49117	0.2603548	0.21986775	2.7187025	21	8 21.3	17.5
155523 1999 TJ_{36}	14.9	X	25.65033	59.81217	247.94334	11.61255	0.3215675	0.22535903	2.6743572	21	10 26.4	17.9
155524 1999 TL_{57}	16.1	X	310.98054	29.84174	55.16405	1.50843	0.0564129	0.18193156	3.0845893	21	11 20.9	20.2
155525 1999 TR_{61}	15.6	X	41.95277	95.52100	331.98217	2.24148	0.0949375	0.19363592	2.9590032	21	—	—
155526 1999 TV_{64}	16.5	X	156.17985	352.70392	354.55646	5.77375	0.0728929	0.19960464	2.8997170	21	1 17.9	20.7
155527 1999 TU_{72}	16.0	X	190.10298	220.73516	102.69068	3.26672	0.0965154	0.19624581	2.9327100	21	1 26.1	20.4
155528 1999 TX_{85}	15.6	X	81.20319	204.14819	215.05000	8.71016	0.0635903	0.19329632	2.9624680	21	1 11.1	19.7
155529 1999 TZ_{119}	14.8	X	284.43029	70.36383	353.56441	11.47974	0.2702596	0.17349757	3.1837610	21	8 20.9	19.2
155530 1999 TS_{121}	15.4	X	331.32580	269.69684	208.57715	8.23325	0.0513726	0.18961563	3.0006819	21	—	—
155531 1999 TB_{129}	15.8	X	117.28048	139.14387	281.39001	0.94821	0.0591815	0.20272551	2.8698803	21	2 26.9	19.6
155532 1999 TR_{133}	16.0	X	319.67428	21.42047	269.63393	1.14232	0.2302252	0.21413348	2.7670245	21	4 18.6	19.2
155533 1999 TU_{135}	15.6	X	40.47369	219.80045	204.38301	9.70880	0.0824904	0.19126950	2.9833593	21	—	—
155534 1999 TY_{145}	15.7	X	302.62853	242.82748	177.96478	8.66011	0.1909513	0.17719009	3.1393743	21	9 22.9	19.6
155535 1999 TR_{177}	15.9	X	355.36640	143.28063	194.15338	4.44065	0.3072549	0.22232294	2.6986498	21	9 28.2	17.5
155536 1999 TO_{196}	15.5	X	318.93619	23.72569	29.28443	10.77132	0.2103189	0.17633059	3.1495677	21	10 11.2	18.9
155537 1999 TL_{204}	15.2	X	21.73400	24.37467	26.15757	16.21646	0.0214228	0.18657274	3.0332200	21	—	—
155538 1999 TC_{207}	16.0	X	111.61900	112.58773	338.72757	24.09362	0.2184881	0.29253946	2.2473968	21	3 31.2	19.3
155539 1999 TU_{221}	15.8	X	356.81344	107.38349	214.09519	11.74349	0.2832675	0.22367917	2.6877303	21	8 28.1	17.9
155540 1999 TN_{224}	15.9	X	207.08469	38.51462	311.48145	1.07139	0.0816083	0.20487451	2.8497762	21	3 13.6	20.2
155541 1999 TJ_{250}	15.3	X	304.20721	332.11341	337.66416	8.59454	0.1422919	0.21355453	2.7720232	21	5 1.9	19.1
155542 1999 TE_{260}	15.7	X	68.95335	56.31313	339.92474	1.85260	0.1076623	0.19355986	2.9597783	21	—	—
155543 1999 TC_{264}	15.9	X	2.55432	261.08943	200.61006	2.23326	0.1536854	0.18927775	3.0042518	21	—	—
155544 1999 TX_{284}	15.2	X	205.45495	143.11100	175.24066	8.35238	0.1926288	0.20033328	2.8926817	21	2 2.4	20.2
155545 1999 TH_{306}	16.3	X	17.02232	199.97033	236.70940	1.80500	0.1122605	0.19144750	2.9815099	21	—	—
155546 1999 TP_{310}	16.4	X	331.23472	76.56762	253.67434	0.39189	0.2124514	0.22249527	2.6972562	21	7 10.5	18.9
155547 1999 UZ_{14}	15.4	X	114.09447	336.27789	54.27070	5.76611	0.1080568	0.19585549	2.9366052	21	1 27.3	19.5
155548 1999 UU_{21}	16.5	X	317.20741	198.38759	41.89104	2.50822	0.0184599	0.20277432	2.8694198	21	3 14.2	20.4
155549 1999 UC_{29}	16.3	X	102.73446	313.16196	70.41906	2.54355	0.0795000	0.19503006	2.9448850	21	—	—
155550 1999 UK_{31}	15.3	X	137.06914	329.88372	31.71243	9.52605	0.1215072	0.19591321	2.9360283	21	1 21.5	19.7
155551 1999 UL_{47}	15.8	X	324.24179	165.80915	257.81193	2.55784	0.1386684	0.17943866	3.1130925	21	11 8.3	19.4
155552 1999 UA_{48}	15.2	X	183.37777	32.63823	312.45390	4.52962	0.1837704	0.20087869	2.8874433	21	2 16.0	19.9
155553 1999 UY_{56}	15.9	X	255.13605	167.50183	41.03598	10.32720	0.0375263	0.18953429	3.0015404	21	—	—
155554 1999 VW_{57}	15.2	X	336.42667	170.57397	221.20079	4.65830	0.1891564	0.17660575	3.1462954	21	10 16.9	18.5
155555 1999 VM_{59}	15.2	X	300.86682	75.15155	230.91289	12.59202	0.1627015	0.20969702	2.8059152	21	4 21.9	19.0
155556 1999 VP_{80}	15.1	X	292.18762	232.80292	213.54132	14.12633	0.1592459	0.17675442	3.1445309	21	10 12.8	19.2
155557 1999 VW_{96}	15.3	X	342.95979	57.41215	40.52298	14.10381	0.1401745	0.18603999	3.0390080	21	—	—
155558 1999 VO_{127}	15.9	X	56.83284	312.03831	74.69359	2.49167	0.0501957	0.18947001	3.0022192	21	—	—
155559 1999 VB_{147}	16.0	X	262.09215	58.37130	33.90843	1.33477	0.1275397	0.17367414	3.1816027	21	9 15.7	20.4
155560 1999 VD_{159}	15.3	X	258.01036	96.11003	23.37141	7.60927	0.2440823	0.17709699	3.1404745	21	9 29.9	20.0
155561 1999 VL_{161}	14.7	X	104.70034	250.84271	46.18002	14.43498	0.0466380	0.18150809	3.0893851	21	12 3.7	19.3
155562 1999 VD_{183}	14.9	X	48.61968	354.39676	71.00311	8.88270	0.0489024	0.18823701	3.0153151	21	—	—
155563 1999 VR_{197}	14.5	X	146.51561	265.56798	59.83207	11.52584	0.0916615	0.19289222	2.9666040	21	—	—
155564 1999 VD_{204}	14.9	X	350.24443	38.81448	275.54138	10.76388	0.1635414	0.22154339	2.7049766	21	7 29.5	17.6
155565 1999 VX_{209}	15.5	X	29.02796	45.54577	43.76614	5.62605	0.0885878	0.19092332	2.9869645	21	—	—
155566 1999 VY_{209}	16.1	X	278.49554	211.85915	206.78957	0.93635	0.1851077	0.17150341	3.2083928	21	8 15.6	20.4
155567 1999 WX_{15}	16.2	X	18.86174	348.56533	68.30959	2.87967	0.1535126	0.18554134	3.0444505	21	—	—
155568 1999 WN_{17}	15.6	X	310.33565	278.79859	21.93661	7.45606	0.2614318	0.21423437	2.7661557	21	4 13.1	19.2
155569 1999 WU_{17}	15.6	X	334.48714	235.50986	32.80325	9.52239	0.1195168	0.21101808	2.7941922	21	4 28.7	18.8
155570 1999 WE_{24}	15.1	X	250.17163	143.25530	54.06268	20.03420	0.1768562	0.18597853	3.0396775	21	12 31.6	19.6
155571 1999 XC_{29}	14.6	X	8.96531	173.93572	231.07703	10.54084	0.1018013	0.18171334	3.0870584	21	12 25.0	18.6
155572 1999 XX_{47}	15.2	X	296.45265	245.29212	236.59220	9.03710	0.0923713	0.18156251	3.0887678	21	12 13.1	19.1
155573 1999 XG_{66}	15.2	X	276.86809	13.03971	71.32008	6.00279	0.1270546	0.17289379	3.1911688	21	9 27.3	19.6
155574 1999 XX_{73}	14.8	X	345.45163	189.27200	241.27838	2.24860	0.2937959	0.18099964	3.0951681	21	—	—
155575 1999 XL_{78}	14.6	X	214.54087	249.79667	253.38454	12.00653	0.1635645	0.17198843	3.2023581	21	9 16.6	19.9
155576 1999 XY_{128}	16.8	X	281.48301	359.47855	28.42094	6.48082	0.1936132	0.30605555	2.1807332	21	7 12.9	19.3
155577 1999 XT_{135}	16.8	X	102.46674	287.07777	225.35540	4.60868	0.1184235	0.29514728	2.2341390	21	6 12.6	19.5
155578 1999 XE_{145}	15.0	X	137.21595	100.43496	230.40961	8.84369	0.0797095	0.19075798	2.9886902	21	—	—
155579 1999 XG_{219}	15.6	X	22.48514	329.04924	47.81135	0.99734	0.1755562	0.17660037	3.1463593	21	12 18.8	19.6
155580 1999 XE_{232}	15.6	X	309.13874	66.49871	42.64401	2.39687	0.1619808	0.18169442	3.0872727	21	12 10.6	19.2
155581 1999 YN_{2}	17.0	X	307.06526	272.24043	108.50950	6.57287	0.0381933	0.30319914	2.1944081	21	9 10.9	19.3
155582 1999 YN_{15}	15.7	X	38.07499	209.33268	196.38582	2.88274	0.0634236	0.18542289	3.0457470	21	—	—
155583 2000 AY_{148}	14.3	X	214.08612	262.38417	238.44264	22.36504	0.0869739	0.17104354	3.2141411	21	9 17.5	19.6
155584 2000 AF_{157}	15.9	X	327.26159	110.59292	331.05455	2.02306	0.0543384	0.31489180	2.1397440	21	—	—
155585 2000 AJ_{166}	14.9	X	319.97034	231.17254	234.65582	10.91574	0.0686643	0.17792801	3.1306883	21	12 26.6	19.0
155586 2000 AU_{182}	16.4	X	121.46273	354.93436	216.63760	6.29764	0.0961793	0.30119795	2.2041173	21	9 25.1	19.3
155587 2000 AN_{205}	16.5	X	116.15851	131.67103	106.17459	3.42123	0.0795006	0.30321262	2.1943431	21	10 27.5	19.3
155588 2000 AQ_{209}	15.0	X	220.84420	123.36046	78.63185	11.96148	0.0608872	0.18199731	3.0838464	21	12 18.5	19.5
155589 2000 AJ_{249}	14.7	X	107.75795	173.38967	130.07021	6.89764	0.1915296	0.17336891	3.1853360	21	12 25.7	19.9
155590 2000 BZ_{9}	17.2	X	288.72320	74.20268	303.51521	1.14490	0.0676206	0.29893793	2.2152124	21	7 29.9	19.5
155591 2000 BK_{34}	16.9	X	265.90245	106.94229	357.83674	2.51442	0.0888486	0.30662716	2.1780222	21	10 30.5	19.2
155592 2000 CK	16.9	X	190.27974	331.40563	132.51605	6.70828	0.1034047	0.29646004	2.2275388	21	7 17.9	19.9
155593 2000 CK_{15}	15.0	X	302.82301	319.63704	97.09880	6.38239	0.1705359	0.16862223	3.2448366	21	9 23.1	19.1
155594 2000 CP_{22}	16.7	X	236.57650	252.49982	167.57293	4.35018	0.1104551	0.29810448	2.2193394	21	7 10.1	19.6
155595 2000 CL_{31}	16.4	X	167.22370	10.08935	162.17750	5.53235	0.0617960	0.30144293	2.2029230	21	9 27.5	19.1
155596 2000 CB_{42}	16.7	X	209.76894	218.62695	231.69791	3.86167	0.1088008	0.29820891	2.2188212	21	7 20.4	19.8
155597 2000 CE_{61}	16.5	X	66.07846	8.49273	154.38327	7.68997	0.0765659	0.28617886	2.2805749	21	4 29.1	19.0
155598 2000 CR_{69}	15.8	X	58.63114	47.98850	299.73207	1.00314	0.1301813	0.17374942	3.1806836	21	12 22.8	20.2
155599 2000 CL_{74}	14.6	X	116.51834	154.76539	130.51698	13.93601	0.1115170	0.17266429	3.1939960	21	12 9.9	19.8
155600 2000 CC_{81}	16.9	X	255.80338	247.73340	147.82945	4.51839	0.1434534	0.29824053	2.2186643	21	6 25.3	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155601 2000 CY_{97}	16.5	X	87.83246	316.35792	316.03932	4.44667	0.0347652	0.30586522	2.1816378	21	10 31.8	19.2
155602 2000 CS_{111}	16.6	X	201.36809	100.59493	353.99223	5.50229	0.0892495	0.29638804	2.2278995	21	7 20.3	19.6
155603 2000 CB_{138}	17.1	X	302.84939	225.65094	142.16520	2.26973	0.1419227	0.29789536	2.2203779	21	7 25.6	18.9
155604 2000 DP_{20}	16.6	X	187.51553	164.75216	299.78487	4.04625	0.0371012	0.29575846	2.2310601	21	7 17.8	19.2
155605 2000 DO_{40}	16.7	X	172.89999	126.08042	326.40613	5.25757	0.1133961	0.29238861	2.2481697	21	6 12.3	20.0
155606 2000 DW_{44}	16.0	X	333.62986	337.31843	331.43195	6.42148	0.1850021	0.29148401	2.2528186	21	6 12.5	17.9
155607 2000 DG_{55}	16.2	X	23.15847	310.48238	349.31372	6.35995	0.2233863	0.29537320	2.2329996	21	10 5.8	18.0
155608 2000 DN_{75}	16.7	X	143.59071	8.90643	149.12070	5.00942	0.0857152	0.29472774	2.2362587	21	8 7.9	19.6
155609 2000 DJ_{83}	16.2	X	41.83960	272.54594	346.53341	6.74374	0.1124445	0.29448804	2.2374720	21	8 19.9	18.4
155610 2000 DQ_{87}	16.9	X	122.94880	169.06006	28.67106	5.24590	0.0411987	0.29784755	2.2206155	21	9 6.9	19.6
155611 2000 DA_{107}	16.5	X	193.42222	17.26142	112.50546	5.31374	0.0898587	0.29764989	2.2215984	21	8 29.9	19.4
155612 2000 DW_{109}	17.4	X	85.74422	261.51386	227.58273	1.96553	0.0953867	0.28483279	2.2877543	21	4 10.1	19.8
155613 2000 EW_{13}	16.3	X	233.96221	308.35505	125.22663	4.50584	0.1343594	0.29801425	2.2197873	21	7 23.9	19.3
155614 2000 EO_{23}	16.7	X	284.82812	183.75857	165.17133	4.25636	0.1447472	0.29156585	2.2523971	21	5 28.4	19.3
155615 2000 ED_{60}	17.0	X	16.49348	55.05235	172.39754	4.33067	0.1606572	0.28434839	2.2903518	21	5 9.8	18.6
155616 2000 EU_{66}	17.0	X	149.36974	104.27379	25.42094	2.60742	0.0647997	0.29082817	2.2562042	21	7 4.9	20.0
155617 2000 EH_{68}	16.4	X	34.10264	131.21386	162.32278	4.11875	0.1033531	0.29485268	2.2356269	21	9 26.9	18.6
155618 2000 EJ_{75}	15.7	X	121.69972	305.28580	189.36452	23.43993	0.2388787	0.28956451	2.2627635	21	6 24.4	19.7
155619 2000 EF_{100}	15.9	X	359.47761	341.79476	341.69753	5.66707	0.1970828	0.29478099	2.2359894	21	9 18.1	17.2
155620 2000 ER_{100}	16.9	X	82.40980	284.85232	283.81197	0.88998	0.0490114	0.29194642	2.2504392	21	7 25.7	19.2
155621 2000 EV_{101}	17.3	X	118.75757	226.50219	243.68390	1.04899	0.1841921	0.28698074	2.2763247	21	5 13.9	20.4
155622 2000 EE_{145}	16.2	X	140.57632	273.21969	207.62309	5.81235	0.1156730	0.28935042	2.2638795	21	6 15.5	19.3
155623 2000 EY_{149}	16.5	X	111.90523	24.19547	88.24139	6.62923	0.1049801	0.28560638	2.2836214	21	4 29.5	19.3
155624 2000 EO_{180}	15.9	X	352.55659	345.08248	60.05191	6.61157	0.1051342	0.30957419	2.1641776	21	—	—
155625 2000 FO_{2}	16.2	X	309.48432	57.14764	199.48900	6.21782	0.0862577	0.27870043	2.3211914	21	2 28.1	19.0
155626 2000 FX_{14}	16.0	X	128.85956	94.86842	33.62630	23.36948	0.2525182	0.28997105	2.2606480	21	6 23.0	20.0
155627 2000 FY_{17}	16.5	X	52.70305	110.85437	92.87151	8.02888	0.1035499	0.28681934	2.2771786	21	6 9.6	18.7
155628 2000 FG_{29}	16.0	X	267.92124	286.30862	0.61026	6.43745	0.1167038	0.27641238	2.3339832	21	2 17.8	19.2
155629 2000 FP_{40}	16.0	X	160.48355	5.48633	79.50193	7.11499	0.1889024	0.28747097	2.2737361	21	5 24.7	19.6
155630 2000 FS_{46}	16.6	X	21.01681	183.16158	82.44564	6.85784	0.1594783	0.28808896	2.2704833	21	7 27.1	18.4
155631 2000 FH_{72}	17.0	X	169.05103	68.29645	15.34191	1.40984	0.1174091	0.28923633	2.2644748	21	5 27.0	20.0
155632 2000 FQ_{73}	18.2	X	338.21310	70.03307	185.02545	2.39876	0.1841699	0.28219168	2.3020067	21	3 27.3	20.0
155633 2000 GE	16.5	X	173.05190	9.49687	17.55196	7.30658	0.1502961	0.27985263	2.3148159	21	3 21.2	19.9
155634 2000 GJ_{2}	17.1	X	311.91951	272.85161	2.39159	1.45841	0.2247215	0.27796765	2.3252691	21	3 9.6	19.8
155635 2000 GL_{4}	16.1	X	11.30337	29.51244	189.47614	22.83563	0.2034101	0.28159431	2.3052612	21	4 9.9	17.5
155636 2000 GP_{10}	17.6	X	301.35905	225.79480	359.72821	1.12044	0.2231158	0.27371664	2.3492825	21	—	—
155637 2000 GZ_{21}	16.3	X	215.27494	182.47987	183.93856	7.36141	0.1782451	0.28161344	2.3051567	21	4 3.1	20.0
155638 2000 GD_{23}	16.6	X	268.61845	318.94005	25.43427	3.50585	0.2127198	0.28408056	2.2917912	21	4 21.9	19.9
155639 2000 GU_{38}	16.7	X	74.17177	75.99157	27.90599	3.50751	0.1116769	0.27743564	2.3282407	21	2 18.7	18.9
155640 2000 GJ_{39}	16.9	X	47.22948	13.32330	191.40981	5.68204	0.0896494	0.28510189	2.2863146	21	5 30.9	19.2
155641 2000 GT_{40}	17.0	X	59.64086	182.50510	6.50439	1.63526	0.1750758	0.28508258	2.2864178	21	6 10.6	19.1
155642 2000 GQ_{46}	16.8	X	101.82554	293.03724	205.66645	5.84531	0.0493160	0.28414965	2.2914196	21	5 12.3	19.5
155643 2000 GZ_{47}	17.2	X	2.76798	179.31421	32.23874	3.11272	0.1727121	0.27962227	2.3160870	21	3 11.8	19.0
155644 2000 GY_{48}	17.0	X	264.95769	261.07345	300.87395	0.80931	0.1319536	0.26604042	2.3942581	21	—	—
155645 2000 GM_{52}	16.8	X	12.95815	301.80247	199.54479	5.24321	0.1611004	0.27413747	2.3468776	21	—	—
155646 2000 GT_{57}	16.9	X	113.05719	294.70140	218.97488	4.71866	0.0922553	0.28738101	2.2742105	21	6 24.7	19.9
155647 2000 GW_{63}	17.2	X	299.94602	67.00751	210.05228	2.01798	0.1835954	0.27744363	2.3281960	21	3 2.3	20.3
155648 2000 GN_{80}	16.7	X	320.51024	237.49599	36.00212	10.11768	0.2484202	0.28031180	2.3122873	21	3 19.1	19.4
155649 2000 GL_{88}	16.8	X	358.87295	118.16722	60.51086	6.38529	0.1595183	0.27608335	2.3358372	21	1 16.3	19.1
155650 2000 GK_{92}	15.9	X	3.53766	138.32453	174.38515	7.60094	0.1591227	0.29409071	2.2394868	21	9 4.7	17.4
155651 2000 GO_{98}	16.4	X	40.88931	15.68146	226.91327	5.69001	0.1688144	0.28787223	2.2716227	21	7 28.3	18.5
155652 2000 GK_{131}	17.4	X	73.81030	292.36836	207.80282	1.36398	0.1487930	0.28136393	2.3065194	21	4 16.6	19.4
155653 2000 GD_{132}	16.5	X	166.23222	0.68518	86.70304	8.77758	0.0899030	0.28402465	2.2920919	21	5 29.1	19.6
155654 2000 GT_{143}	16.5	X	324.87888	169.53872	60.60241	11.99273	0.0978045	0.27641683	2.3339581	21	2 19.9	19.5
155655 2000 GG_{144}	17.4	X	305.31162	162.77169	350.32487	0.96984	0.1172013	0.26607915	2.3940258	21	—	—
155656 2000 GY_{147}	16.4	X	242.49520	288.23728	347.43251	6.63435	0.1139619	0.27340984	2.3510397	21	1 8.1	19.9
155657 2000 GA_{152}	17.7	X	35.32404	178.44176	349.52465	2.08097	0.1771287	0.28157494	2.3053669	21	3 13.4	19.3
155658 2000 GQ_{159}	16.8	X	32.72332	316.81344	263.78437	3.54108	0.1297385	0.28501346	2.2867875	21	5 31.8	18.7
155659 2000 GE_{173}	16.3	X	120.13222	59.79778	57.20526	7.69456	0.0621316	0.28567357	2.2832634	21	5 8.7	18.9
155660 2000 HL_{3}	16.4	X	224.71746	141.65422	206.01980	3.10388	0.1616188	0.27610872	2.3356941	21	3 18.6	19.9
155661 2000 HE_{5}	15.8	X	328.32548	91.21675	224.23912	22.23389	0.2397902	0.28391275	2.2926941	21	6 2.0	17.9
155662 2000 HE_{7}	17.4	X	73.87589	128.85812	26.77373	2.66484	0.0827156	0.28311396	2.2970046	21	4 28.9	19.7
155663 2000 HM_{8}	17.0	X	297.80609	56.89742	196.20844	1.91112	0.1763896	0.27412811	2.3469311	21	1 29.3	20.2
155664 2000 HA_{16}	16.7	X	11.03192	119.02702	39.38706	5.46504	0.1100744	0.27419080	2.3465733	21	1 15.6	19.2
155665 2000 HP_{23}	16.9	X	304.81176	140.63320	132.17138	2.69262	0.1749041	0.27730959	2.3289462	21	3 5.4	19.9
155666 2000 HW_{26}	17.0	X	323.92132	73.87074	204.01953	3.74034	0.1383950	0.28083096	2.3094367	21	4 14.1	19.5
155667 2000 HQ_{28}	15.2	X	124.66415	53.41451	74.19723	23.81361	0.2155852	0.28766250	2.2727267	21	6 15.5	18.5
155668 2000 HC_{43}	17.0	X	257.68654	182.13808	81.75085	1.99944	0.1715160	0.27021790	2.3695178	21	1 5.3	20.8
155669 2000 HJ_{48}	17.2	X	243.65706	232.66481	354.45037	0.99508	0.1423403	0.26449722	2.4035619	21	—	—
155670 2000 HS_{53}	17.1	X	5.23056	169.99467	67.49709	3.78785	0.1219976	0.28081012	2.3095510	21	5 2.3	19.1
155671 2000 HU_{54}	16.8	X	317.78121	191.49212	70.23700	3.17237	0.1845772	0.27656577	2.3331201	21	3 7.1	19.5
155672 2000 HF_{60}	16.7	X	270.98942	248.51383	28.31086	8.61252	0.1141862	0.27398855	2.3477280	21	2 10.7	20.1
155673 2000 HL_{60}	16.5	X	297.27588	288.30667	34.06283	7.96844	0.1449021	0.28271747	2.2991516	21	5 6.0	19.0
155674 2000 HY_{64}	17.1	X	329.79361	210.86992	26.47022	3.40343	0.1382507	0.27735123	2.3287131	21	2 25.7	19.6
155675 2000 HO_{66}	16.1	X	175.49306	114.31540	219.53646	4.63331	0.2067540	0.26733435	2.3865262	21	1 19.0	19.9
155676 2000 HL_{94}	16.9	X	292.74426	173.76930	72.10999	3.31949	0.1132109	0.27233641	2.3572135	21	1 23.7	20.1
155677 2000 JE_{2}	16.4	X	267.44903	259.20327	67.58375	3.39540	0.2350051	0.27607366	2.3358919	21	3 29.3	19.9
155678 2000 JK_{2}	15.6	X	316.39982	149.33540	170.05468	24.55453	0.2609706	0.28114460	2.3077188	21	5 17.1	18.6
155679 2000 JP_{2}	16.1	X	273.80418	169.42803	131.10212	7.56999	0.2624915	0.27461981	2.3441288	21	2 27.7	19.8
155680 2000 JU_{10}	16.6	X	298.44488	181.47574	52.41753	6.97506	0.0651008	0.27270394	2.3550950	21	1 22.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155681 2000 JN_{21}	16.5	X	247.27077	276.27942	4.19410	4.98466	0.1315248	0.27085824	2.3657818	21	1 18.8	20.0
155682 2000 JM_{46}	16.8	X	269.37341	205.51214	57.71758	6.59267	0.1922842	0.26993586	2.3711680	21	1 14.7	20.6
155683 2000 JG_{53}	16.8	X	229.16783	228.57774	15.63543	2.30870	0.1723128	0.26337211	2.4104022	21	—	—
155684 2000 JT_{54}	16.9	X	276.47172	105.48023	199.78765	4.37436	0.3363533	0.27418247	2.3466209	21	2 27.2	20.8
155685 2000 JF_{94}	16.4	X	336.60329	169.78097	86.23593	25.78614	0.1687858	0.27842532	2.3227202	21	4 16.6	19.5
155686 2000 KH_{26}	16.7	X	234.79010	237.64139	72.63286	3.38656	0.2388861	0.26930474	2.3748711	21	2 10.1	20.7
155687 2000 KB_{38}	16.3	X	10.08996	313.12111	90.56271	7.25310	0.1301538	0.25547537	2.4598202	21	—	—
155688 2000 KP_{49}	18.1	X	15.99806	137.01041	53.97613	3.05024	0.1487711	0.27799920	2.3250931	21	3 10.7	19.9
155689 2000 LV_{2}	16.1	X	134.64998	173.04431	130.27965	5.24472	0.1966746	0.25554429	2.4593779	21	—	—
155690 2000 OO_{14}	16.4	X	193.60675	71.22498	248.87795	1.67973	0.2347270	0.26194090	2.4191744	21	1 20.8	20.4
155691 2000 OS_{22}	15.0	X	339.51196	354.30011	12.51822	15.03111	0.3239777	0.23411961	2.6072190	21	10 1.2	16.1
155692 2000 OV_{28}	16.2	X	204.94907	128.13415	222.58446	4.54692	0.2576144	0.26574262	2.3960465	21	3 5.4	20.5
155693 2000 OY_{45}	15.5	X	153.08714	181.14063	169.57445	25.28310	0.2154096	0.25708498	2.4495421	21	1 20.8	19.7
155694 2000 PA_{18}	16.4	X	248.91361	185.78097	104.28458	5.67069	0.2324643	0.26638853	2.3921718	21	1 27.9	20.3
155695 2000 PP_{19}	15.7	X	177.71056	36.26108	1.68558	7.32859	0.2700564	0.21813395	2.7330896	21	4 14.6	20.7
155696 2000 QH_{24}	16.6	X	223.48812	138.40363	159.37066	2.14377	0.2043418	0.26143696	2.4222822	21	1 17.3	20.5
155697 2000 QP_{24}	15.9	X	310.61361	350.08282	338.12487	12.59490	0.2688628	0.22853241	2.6495422	21	5 13.4	19.5
155698 2000 QS_{41}	15.6	X	184.56364	13.09314	324.12734	8.66532	0.1597771	0.21376177	2.7702312	21	2 6.4	19.9
155699 2000 QR_{42}	16.6	X	352.94242	209.80375	172.89139	1.81744	0.2088551	0.23972771	2.5663973	21	11 27.5	18.8
155700 2000 QE_{67}	16.0	X	357.11721	301.53614	53.32629	4.65535	0.2492775	0.23688764	2.5868691	21	10 30.2	18.0
155701 2000 QS_{67}	16.0	X	0.15458	324.64122	17.54067	10.31574	0.1704127	0.23600270	2.5933317	21	10 7.6	18.4
155702 2000 QJ_{69}	15.5	X	235.87350	199.73989	273.39911	12.50420	0.0982170	0.23890316	2.5722990	21	9 12.6	19.5
155703 2000 QY_{77}	15.7	X	239.41933	123.70327	164.47155	6.29596	0.1778730	0.26260366	2.4151023	21	1 18.6	19.6
155704 2000 QJ_{89}	16.1	X	156.88934	95.83949	225.80999	5.28333	0.1223490	0.25498213	2.4629914	21	—	—
155705 2000 QZ_{104}	16.0	X	61.10009	278.87347	75.06423	6.99048	0.1707241	0.24406953	2.5358701	21	—	—
155706 2000 QF_{122}	15.7	X	326.95997	155.63762	190.61932	7.88308	0.1931688	0.23122288	2.6289491	21	7 26.7	18.3
155707 2000 QP_{123}	16.1	X	330.80725	334.46371	353.15757	14.79909	0.2935676	0.23030406	2.6359368	21	6 22.6	18.8
155708 2000 QD_{138}	16.3	X	31.49642	317.20207	41.57136	2.69488	0.2148843	0.24111362	2.5565535	21	12 29.8	19.6
155709 2000 QN_{147}	15.5	X	93.67656	156.15282	146.28186	18.16876	0.1573054	0.24476370	2.5310732	21	12 22.1	19.7
155710 2000 QW_{150}	15.2	X	345.93180	159.94386	209.10022	13.82665	0.2023499	0.23424680	2.6062752	21	10 18.6	17.4
155711 2000 QP_{160}	16.5	X	229.04467	116.05414	206.41026	6.86350	0.2618723	0.26526993	2.3988920	21	2 16.8	20.8
155712 2000 QA_{175}	16.0	X	158.37985	341.39677	309.40946	5.32020	0.1054459	0.25242669	2.4795861	21	—	—
155713 2000 QS_{185}	16.3	X	355.78827	319.10531	22.63430	4.43980	0.1950085	0.23664031	2.5886712	21	9 30.2	18.5
155714 2000 QK_{187}	15.4	X	259.97379	21.13428	359.90706	13.90068	0.2619306	0.22720796	2.6598288	21	5 25.1	20.0
155715 2000 QK_{191}	16.4	X	61.49160	280.85065	61.36680	5.10050	0.1923658	0.24483288	2.5305964	21	—	—
155716 2000 QE_{196}	15.4	X	240.27504	274.84094	150.71795	14.42359	0.1670447	0.22854684	2.6494307	21	7 14.7	19.7
155717 2000 QQ_{210}	16.8	X	192.99490	120.59966	183.30101	5.56940	0.2288164	0.25793998	2.4441261	21	1 1.3	20.9
155718 2000 QT_{210}	15.7	X	343.87302	170.02394	171.41695	11.12323	0.2082707	0.23419025	2.6066947	21	8 28.9	17.8
155719 2000 QD_{214}	16.3	X	344.57215	7.72132	16.85873	5.07941	0.1626889	0.23789835	2.5795370	21	11 5.9	18.7
155720 2000 QF_{214}	15.8	X	93.21399	133.95997	156.44104	15.39607	0.1300709	0.24290249	2.5439861	21	12 5.5	19.9
155721 2000 QQ_{214}	16.2	X	70.59285	237.98751	65.43855	1.06976	0.1774199	0.24165744	2.5527166	21	11 30.2	20.0
155722 2000 QS_{222}	15.6	X	13.59477	337.88592	7.86912	15.13362	0.1494526	0.23950591	2.5679815	21	10 30.3	18.6
155723 2000 QK_{229}	16.1	X	137.54580	43.92966	354.40766	7.50760	0.2757382	0.21151368	2.7898257	21	3 17.7	20.5
155724 2000 QD_{244}	16.7	X	230.70624	175.05304	125.91954	3.09210	0.1746917	0.26368458	2.4084976	21	1 27.3	20.4
155725 2000 RO_{8}	16.9	X	105.10078	234.47218	180.14372	17.93542	0.3440653	0.34921190	1.9971470	21	2 18.3	18.6
155726 2000 RL_{35}	16.6	X	185.29047	115.29990	202.74235	10.42413	0.2358349	0.25790628	2.4443390	21	1 10.8	20.9
155727 2000 RN_{40}	15.9	X	65.56026	145.18873	215.48487	9.69116	0.2293117	0.24537368	2.5268768	21	—	—
155728 2000 RP_{47}	15.3	X	107.01011	331.13621	350.13818	15.08279	0.1501306	0.24521524	2.5279651	21	—	—
155729 2000 RU_{63}	16.2	X	220.77137	213.81442	188.51744	13.19135	0.1317956	0.22376932	2.6870084	21	5 30.6	20.6
155730 2000 RQ_{64}	15.4	X	258.65009	224.57808	207.66007	12.69819	0.1660586	0.23238587	2.6201706	21	8 10.3	19.4
155731 2000 RH_{81}	15.0	X	242.43035	121.21170	312.06960	21.59130	0.0464165	0.23141675	2.6274806	21	8 10.6	18.6
155732 2000 RZ_{86}	16.1	X	335.75439	200.11601	201.67975	4.20496	0.1602927	0.23760445	2.5816637	21	11 15.0	18.4
155733 2000 RN_{89}	15.6	X	14.29896	140.31628	198.26482	11.86092	0.0349498	0.23675646	2.5878245	21	10 12.4	18.9
155734 2000 RJ_{97}	15.6	X	99.71069	57.29275	229.11060	14.36318	0.1139520	0.24335386	2.5408394	21	12 3.5	19.4
155735 2000 RZ_{101}	15.2	X	91.98500	81.99842	230.42863	14.12802	0.1517127	0.24361121	2.5390497	21	12 28.6	19.3
155736 2000 RN_{103}	15.2	X	273.58244	215.28092	215.59450	21.50347	0.0437743	0.23382055	2.6094417	21	9 15.8	18.9
155737 2000 SK_{6}	15.6	X	58.13858	328.89180	40.16534	17.85599	0.1995582	0.24535194	2.5270261	21	—	—
155738 2000 SB_{16}	15.3	X	284.58394	213.05064	204.89314	21.57830	0.0770473	0.23356963	2.6113102	21	9 9.6	19.0
155739 2000 SY_{30}	17.2	X	168.44460	282.03225	33.65287	1.61003	0.1919655	0.25561688	2.4589122	21	—	—
155740 2000 SF_{46}	14.9	X	116.25937	5.75492	304.48928	13.34014	0.1918098	0.24568866	2.5247166	21	—	—
155741 2000 SK_{56}	16.3	X	228.74295	188.58319	228.51389	0.77419	0.1785011	0.22522745	2.6753987	21	6 21.7	20.6
155742 2000 SH_{59}	16.6	X	42.61716	129.36619	197.07981	6.86064	0.1506663	0.23930959	2.5693857	21	11 23.4	19.9
155743 2000 SO_{60}	16.3	X	287.41610	164.20257	179.12948	6.34360	0.0787647	0.22547165	2.6734666	21	6 6.8	19.9
155744 2000 SC_{61}	16.3	X	117.52810	106.35940	171.93369	3.70255	0.1810011	0.24418837	2.5350473	21	12 14.4	20.4
155745 2000 SO_{67}	16.0	X	102.68437	291.65904	17.25549	4.86588	0.0914314	0.24424114	2.5346822	21	—	—
155746 2000 SX_{67}	16.4	X	23.21297	170.74454	161.27847	4.59306	0.1906953	0.23723547	2.5843399	21	11 9.0	19.3
155747 2000 SV_{93}	16.0	X	6.00583	184.14219	209.05089	10.34276	0.1273357	0.24170791	2.5523613	21	12 24.2	19.1
155748 2000 SV_{95}	15.7	X	190.90564	101.47259	337.68965	8.26553	0.0829053	0.22382343	2.6865753	21	6 15.8	19.8
155749 2000 SR_{97}	16.0	X	177.45470	71.38075	230.20558	5.77382	0.0918723	0.25347250	2.4727610	21	—	—
155750 2000 SK_{102}	16.0	X	57.58818	284.06119	0.17388	11.25332	0.1870682	0.23653626	2.5894303	21	10 19.3	19.6
155751 2000 SY_{102}	16.5	X	313.34172	32.99134	358.27173	2.37339	0.2007147	0.23279013	2.6171363	21	9 7.4	18.9
155752 2000 SP_{110}	15.9	X	52.93101	135.38851	193.02964	8.13137	0.1793473	0.24007385	2.5639299	21	12 12.3	19.5
155753 2000 SJ_{112}	16.4	X	148.24822	209.69066	204.07706	0.55216	0.2429412	0.21262535	2.7800932	21	4 11.5	21.0
155754 2000 SB_{118}	15.8	X	227.91021	32.32211	28.03149	8.75275	0.1823192	0.22362127	2.6881942	21	6 24.7	20.3
155755 2000 SK_{124}	15.5	X	303.02018	167.80680	197.29565	15.79485	0.1627886	0.22781318	2.6551159	21	7 13.1	19.1
155756 2000 SY_{127}	16.1	X	47.56247	129.45640	190.83042	9.22385	0.2187278	0.23832611	2.5764495	21	12 1.6	19.7
155757 2000 SY_{132}	16.0	X	81.63042	131.10025	218.68593	13.84767	0.0816196	0.24722951	2.5142156	21	—	—
155758 2000 SJ_{139}	16.1	X	2.42967	172.71697	209.98174	14.14465	0.1353389	0.23856570	2.5747242	21	12 5.5	19.1
155759 2000 SG_{140}	16.2	X	28.78074	83.31223	279.80791	2.71229	0.1411365	0.24013709	2.5634797	21	12 20.2	19.4
155760 2000 SP_{147}	16.7	X	20.13973	353.46096	8.54189	0.90314	0.1846444	0.23851576	2.5750836	21	12 12.6	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155761 2000 SN_{161}	15.9	X	318.02678	216.04423	140.35728	9.89696	0.0835788	0.23177966	2.6247373	21	8 9.3	18.9
155762 2000 SC_{164}	17.0	X	83.20915	129.17399	203.33430	21.72314	0.0152269	0.38450202	1.8729965	21	—	—
155763 2000 SJ_{178}	15.7	X	11.54379	147.37022	226.28075	13.23944	0.2503486	0.23771682	2.5808501	21	12 24.1	18.7
155764 2000 SS_{178}	15.6	X	208.85673	2.61308	14.86449	14.02831	0.1909747	0.21641715	2.7475247	21	4 13.9	20.3
155765 2000 SM_{189}	15.8	X	137.94265	87.80889	336.26359	8.24849	0.1374690	0.21299512	2.7768747	21	4 2.1	20.1
155766 2000 SO_{223}	16.5	X	263.72074	307.17941	68.73251	0.66560	0.1749502	0.22508856	2.6764991	21	6 5.4	20.2
155767 2000 SZ_{228}	15.8	X	234.69710	359.40897	18.23624	5.19872	0.0661982	0.22031413	2.7150291	21	5 16.5	19.6
155768 2000 SC_{232}	17.2	X	18.11344	312.24859	30.29423	22.10924	0.0759510	0.37806236	1.8942055	21	11 18.6	19.1
155769 2000 ST_{232}	16.9	X	82.71280	286.00459	8.23794	21.82598	0.0254646	0.37949382	1.8894391	21	12 4.7	19.4
155770 2000 SF_{238}	16.0	X	64.59149	286.38003	61.31724	11.48618	0.2205820	0.24321334	2.5418180	21	—	—
155771 2000 SK_{238}	16.3	X	310.45884	333.97051	357.39955	4.67962	0.0956223	0.22692801	2.6620159	21	6 20.6	19.6
155772 2000 SM_{240}	16.8	X	91.96852	340.91253	335.80273	17.79248	0.1167461	0.38477575	1.8721081	21	—	—
155773 2000 ST_{240}	16.8	X	222.81169	94.79699	344.12411	19.67155	0.0991626	0.36792202	1.9288518	21	7 31.7	19.3
155774 2000 SS_{244}	16.1	X	349.65814	325.79289	353.05218	13.35352	0.1312347	0.23210741	2.6222658	21	8 13.5	19.0
155775 2000 SZ_{247}	16.0	X	353.65193	285.93854	63.19063	3.40800	0.1074027	0.23542029	2.5976071	21	10 1.8	18.8
155776 2000 SD_{275}	15.7	X	318.15728	163.79495	199.40146	14.56477	0.1308280	0.22883311	2.6472206	21	8 9.3	19.0
155777 2000 SY_{282}	15.6	X	118.83510	269.56690	326.03090	13.94446	0.0703900	0.23613093	2.5923928	21	10 9.7	19.6
155778 2000 SF_{287}	15.0	X	98.68389	319.56487	336.36670	13.87767	0.1800207	0.23998531	2.5645605	21	12 18.3	19.4
155779 2000 SQ_{290}	15.8	X	4.22041	103.69587	200.92470	11.36144	0.0761108	0.23033017	2.6357375	21	8 8.9	19.1
155780 2000 SM_{304}	15.1	X	116.65496	115.85383	346.38257	13.25488	0.1058569	0.21481049	2.7612076	21	4 19.7	19.2
155781 2000 SX_{311}	14.8	X	255.63413	168.46725	226.05954	23.66647	0.0737488	0.22664670	2.6642182	21	6 29.2	18.9
155782 2000 SG_{334}	16.3	X	16.13576	130.50304	149.03494	3.76486	0.2193622	0.23209732	2.6223418	21	8 10.3	18.5
155783 2000 SH_{338}	14.9	X	133.28232	8.61983	86.80360	11.53264	0.2317926	0.21627924	2.7486925	21	5 20.5	19.4
155784 Ercol	16.7	X	227.81928	109.62096	189.57201	6.23673	0.1739323	0.26307607	2.4122102	21	1 21.4	20.7
155785 2000 SS_{351}	16.3	X	184.99133	232.93057	103.67507	11.60928	0.3459659	0.25963401	2.4334831	21	2 9.9	20.9
155786 2000 SD_{358}	12.2	X	296.44054	229.69719	98.98531	23.50583	0.1086266	0.08128864	5.2777579	21	6 4.8	19.1
155787 2000 SL_{365}	16.8	X	51.33827	191.56035	156.89740	8.47070	0.1727140	0.24326053	2.5414893	21	—	—
155788 2000 SR_{366}	16.1	X	106.00855	115.22659	164.35576	10.91320	0.1157250	0.24223880	2.5486307	21	12 3.1	20.1
155789 2000 TD_{9}	12.8	X	329.38926	113.65104	183.05867	7.91171	0.1704357	0.08312604	5.1996966	21	6 1.8	19.1
155790 2000 TC_{10}	16.9	X	80.63546	142.06498	187.39961	2.37976	0.1835125	0.24396811	2.5365728	21	—	—
155791 2000 TC_{15}	15.7	X	131.76021	71.38995	24.59244	3.78273	0.1264787	0.21538060	2.7563329	21	5 6.8	19.6
155792 2000 TL_{26}	16.3	X	350.27380	305.71467	28.51395	6.13564	0.1239505	0.23236372	2.6203371	21	9 4.9	19.0
155793 2000 TM_{37}	16.1	X	326.07985	279.00359	95.11801	6.94364	0.2552738	0.23437496	2.6053250	21	9 7.1	18.1
155794 2000 TZ_{52}	16.4	X	296.10943	359.47238	5.43630	2.43036	0.0907313	0.22707634	2.6608565	21	7 17.3	19.6
155795 2000 UG_{10}	15.1	X	331.41827	313.77524	48.20818	9.64209	0.2661747	0.23027740	2.6361402	21	9 2.2	17.2
155796 2000 UQ_{13}	16.5	X	92.23451	166.93295	169.48188	3.34641	0.2106626	0.24505379	2.5290753	21	—	—
155797 2000 UM_{39}	15.9	X	92.77057	4.82322	51.76416	8.92720	0.2972050	0.20430845	2.8550375	21	3 2.8	19.8
155798 2000 UU_{40}	15.8	X	137.74761	350.71075	69.78606	7.96586	0.2124818	0.21040605	2.7996081	21	4 11.5	20.3
155799 2000 UO_{45}	15.5	X	284.45908	300.26801	53.53761	15.13323	0.2089397	0.22377822	2.6869371	21	5 25.9	19.4
155800 2000 UT_{54}	15.7	X	16.95252	249.32185	86.84704	6.25104	0.3515431	0.23583286	2.5945767	21	11 30.6	18.4
155801 2000 UT_{61}	16.5	X	74.00071	23.48743	329.06679	3.37082	0.2462410	0.24452395	2.5327274	21	—	—
155802 2000 UK_{65}	15.8	X	90.00562	93.38798	13.98003	10.71357	0.1680393	0.21039570	2.7996999	21	4 7.5	19.3
155803 2000 UL_{108}	16.1	X	291.99083	274.69735	114.90120	6.95472	0.1739913	0.22777741	2.6553939	21	8 1.3	19.3
155804 2000 VA_{14}	15.5	X	170.53065	204.13287	222.56841	5.57674	0.0447523	0.21573031	2.7533533	21	5 7.1	19.2
155805 2000 VD_{26}	15.9	X	230.25968	135.00425	239.77887	3.97930	0.1271563	0.21797767	2.7343958	21	5 4.1	20.2
155806 2000 VE_{28}	15.3	X	231.16238	188.85144	219.46602	9.08003	0.2260085	0.22083506	2.7107577	21	6 9.7	19.8
155807 2000 VU_{29}	15.2	X	35.60696	143.06480	225.61312	10.39351	0.2359565	0.23855892	2.5747730	21	—	—
155808 2000 VF_{54}	15.5	X	9.99120	20.94750	24.05831	10.40816	0.2062695	0.19115632	2.9845368	21	—	—
155809 2000 VE_{58}	15.8	X	1.75312	333.92870	26.37568	5.78575	0.2868583	0.23506146	2.6002499	21	11 21.9	18.1
155810 2000 VA_{60}	15.6	X	95.43647	247.61625	226.59550	7.71844	0.0880871	0.21130617	2.7916519	21	4 10.4	19.4
155811 2000 WL_{20}	16.1	X	309.33533	275.43217	52.22425	2.75902	0.0987122	0.22254650	2.6968422	21	6 13.1	19.5
155812 2000 WS_{20}	15.5	X	263.56725	161.13946	200.33592	5.95044	0.0458320	0.21915942	2.7245573	21	6 4.4	19.3
155813 2000 WZ_{26}	16.5	X	117.39403	192.50215	211.42841	1.32633	0.0685527	0.20321509	2.8652691	21	2 7.7	20.4
155814 2000 WY_{31}	16.1	X	347.52820	197.64598	155.07766	5.18526	0.2661117	0.23137961	2.6277618	21	10 1.2	17.8
155815 2000 WU_{41}	15.5	X	167.31226	205.38529	222.50135	7.41511	0.2082418	0.21142459	2.7906094	21	5 12.8	20.2
155816 2000 WK_{67}	16.6	X	337.29016	182.62502	83.22216	23.65706	0.0316179	0.35825434	1.9633983	21	5 7.7	18.9
155817 2000 WR_{74}	16.1	X	99.68134	320.75197	352.76905	4.03608	0.2984880	0.24353328	2.5395914	21	—	—
155818 2000 WK_{89}	15.9	X	33.57893	281.50918	56.73096	12.30124	0.2676989	0.23621698	2.5917631	21	12 11.8	19.3
155819 2000 WS_{90}	15.5	X	353.99940	105.44619	250.10856	4.46395	0.2312966	0.23180763	2.6245261	21	10 17.3	17.6
155820 2000 WA_{95}	15.2	X	43.93594	267.62505	77.02289	15.47081	0.1705472	0.23568046	2.5956950	21	12 19.1	18.7
155821 2000 WM_{126}	15.8	X	80.99910	196.05770	166.78848	2.66794	0.1180519	0.19651805	2.9300009	21	—	—
155822 2000 WP_{130}	15.9	X	16.51300	244.77719	67.17903	7.73871	0.0250164	0.22754638	2.6571909	21	9 11.9	19.4
155823 2000 WA_{151}	16.2	X	8.54632	231.55801	52.47953	24.51388	0.0863148	0.36582465	1.9362172	21	8 8.3	18.5
155824 2000 WP_{158}	15.7	X	311.15071	0.52135	91.42423	10.92606	0.3649455	0.18870317	3.0103471	21	11 2.6	18.3
155825 2000 WW_{161}	15.6	X	61.53139	120.13758	207.03668	15.71388	0.2530136	0.23896520	2.5718538	21	12 26.5	19.8
155826 2000 WL_{172}	15.7	X	342.09814	234.67969	114.00347	15.49351	0.1502001	0.22930556	2.6435832	21	9 13.4	18.7
155827 2000 WA_{178}	15.4	X	356.62548	277.50811	82.04486	14.19220	0.2206388	0.23220373	2.6215406	21	11 5.5	17.9
155828 2000 XO_{2}	16.4	X	170.96362	38.25713	24.65031	20.68506	0.1055731	0.35863059	1.9620248	21	4 22.2	18.8
155829 2000 XV_{21}	15.2	X	228.26307	2.09888	24.00278	9.77926	0.1886204	0.21779255	2.7359451	21	5 10.8	19.7
155830 2000 XL_{23}	14.8	X	79.03529	1.25748	322.67109	11.50156	0.2373280	0.24016452	2.5632846	21	—	—
155831 2000 XE_{47}	15.2	X	239.37071	113.79295	34.13941	27.19194	0.1765324	0.18210012	3.0826856	21	10 23.7	19.7
155832 2000 XB_{52}	14.9	X	334.96811	267.63973	62.89618	15.77451	0.1289180	0.22246141	2.6975298	21	8 1.2	18.2
155833 2000 YB	16.0	X	270.97727	120.06916	257.96305	3.77026	0.1277850	0.22286511	2.6942713	21	6 23.5	19.8
155834 2000 YG_{3}	16.5	X	310.26146	75.02382	52.24183	1.01321	0.1931045	0.19016346	2.9949161	21	—	—
155835 2000 YA_{8}	15.3	X	278.67034	281.81215	75.80099	11.54072	0.1950985	0.21929268	2.7234534	21	5 28.0	19.0
155836 2000 YC_{22}	15.4	X	325.79328	48.66502	69.93675	2.80554	0.2183278	0.18920614	3.0050098	21	—	—
155837 2000 YG_{26}	15.3	X	330.73477	47.60690	58.63190	3.42684	0.1235915	0.18870535	3.0103240	21	—	—
155838 2000 YV_{48}	15.8	X	302.49655	60.14440	91.82285	4.47496	0.2146727	0.18955370	3.0013355	21	—	—
155839 2000 YZ_{50}	14.8	X	44.86047	297.16866	118.62418	12.12410	0.1075000	0.19208157	2.9749449	21	—	—
155840 2000 YA_{60}	15.2	X	49.29196	315.55070	89.41527	3.84465	0.0801912	0.19142709	2.9817217	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155841 2000 YU_{69}	15.6	X	206.19268	357.74033	69.14657	12.65893	0.0983667	0.21898050	2.7260412	21	6 15.8	19.7
155842 2000 YC_{87}	15.4	X	110.67656	296.51178	125.08269	6.65894	0.0597712	0.20248338	2.8721677	21	2 21.9	19.3
155843 2000 YL_{100}	15.7	X	315.22791	280.87780	180.80685	14.44352	0.1508449	0.18513417	3.0489127	21	12 14.3	19.5
155844 2000 YZ_{112}	14.9	X	203.61665	246.49845	104.37906	16.01497	0.1654469	0.20520171	2.8467461	21	3 18.2	19.9
155845 2001 AG_{3}	16.2	X	352.83507	249.90065	40.08204	21.92269	0.0450559	0.35868323	1.9618328	21	7 3.3	18.5
155846 2001 AM_{27}	14.6	X	249.53806	78.42991	77.89616	14.49693	0.2119294	0.18274239	3.0754584	21	11 11.1	19.2
155847 2001 AD_{31}	15.4	X	243.32490	209.05801	289.25560	11.95952	0.2507356	0.18107741	3.0942818	21	9 29.4	20.5
155848 2001 AO_{44}	14.3	X	221.67764	280.71346	323.22923	14.93598	0.1850360	0.18548754	3.0450392	21	—	—
155849 2001 AK_{46}	15.1	X	249.48263	104.54083	51.61358	27.30624	0.1946318	0.18203199	3.0834547	21	11 10.7	19.7
155850 2001 AY_{46}	16.3	X	127.27972	60.13119	52.05753	21.88790	0.1056385	0.35306202	1.9826013	21	5 12.4	18.4
155851 2001 BP_{10}	16.4	X	182.89192	306.23097	120.44162	25.08064	0.0980262	0.35701655	1.9679338	21	5 25.1	19.5
155852 2001 BB_{19}	15.1	X	251.52642	59.73395	108.89157	12.21602	0.1519129	0.18367845	3.0650007	21	12 4.6	19.5
155853 2001 BA_{25}	15.0	X	275.54554	35.54443	128.79002	18.47735	0.1748792	0.18579874	3.0416381	21	12 27.4	19.0
155854 2001 BJ_{35}	14.6	X	214.02720	287.32346	313.59995	4.85879	0.1736959	0.18363440	3.0654908	21	—	—
155855 2001 BV_{38}	15.9	X	290.37428	319.12837	124.09754	2.19502	0.0938724	0.17866039	3.1221268	21	10 17.6	19.9
155856 2001 BD_{48}	14.8	X	293.58198	222.26689	271.45429	15.28990	0.1650694	0.18500678	3.0503122	21	12 16.8	18.4
155857 2001 BJ_{49}	15.3	X	265.32220	23.32676	162.75794	18.06222	0.2665679	0.18431355	3.0579559	21	12 25.3	19.7
155858 2001 BT_{51}	15.3	X	333.17326	204.42178	209.42593	6.64192	0.2332162	0.18237349	3.0796043	21	11 11.5	18.3
155859 2001 BY_{71}	15.6	X	357.36087	321.01447	163.34087	1.50269	0.1933573	0.19221151	2.9736039	21	—	—
155860 2001 BT_{77}	15.1	X	290.03741	127.52137	354.30731	10.99082	0.0819299	0.18332498	3.0689392	21	12 3.3	19.3
155861 2001 CA_{33}	14.9	X	250.34841	104.40123	52.10227	15.71038	0.1901160	0.18152562	3.0891862	21	11 11.7	19.5
155862 2001 CP_{33}	14.6	X	313.63292	15.32430	54.46045	19.30250	0.1292652	0.17960395	3.1111823	21	11 3.1	18.4
155863 2001 CQ_{34}	14.7	X	269.95756	41.71413	78.95801	18.05125	0.1749349	0.17920595	3.1157870	21	10 31.5	19.2
155864 2001 CE_{40}	14.4	X	212.87563	112.38155	99.87883	9.07317	0.1736537	0.18048505	3.1010485	21	12 10.8	19.4
155865 2001 DK	15.1	X	251.40593	7.02014	146.78413	4.70665	0.1336218	0.17921176	3.1157197	21	11 17.8	19.5
155866 2001 DW_{10}	15.4	X	188.99692	13.81471	148.98168	7.25820	0.2769496	0.17414194	3.1759023	21	9 20.4	21.1
155867 2001 DO_{18}	14.6	X	246.92234	358.83348	141.36117	23.87412	0.1397835	0.17708158	3.1406566	21	11 1.5	19.6
155868 2001 DD_{26}	14.6	X	120.72574	273.29141	357.53369	10.76484	0.0612005	0.17726753	3.1384600	21	11 19.4	19.5
155869 2001 DK_{27}	15.6	X	260.50665	100.93180	46.27455	3.77486	0.1501688	0.18057793	3.0999851	21	11 17.2	19.9
155870 2001 DL_{27}	15.0	X	348.53662	24.90462	112.15488	6.02323	0.0343474	0.18996661	2.9969848	21	—	—
155871 2001 DG_{40}	15.2	X	256.23309	321.91160	224.92773	3.75370	0.1732875	0.18468115	3.0538966	21	12 27.3	19.4
155872 2001 DM_{57}	16.0	X	191.06870	309.57780	24.45102	2.01512	0.0887937	0.19467635	2.9484510	21	2 8.9	20.4
155873 2001 DB_{59}	14.6	X	190.18338	98.63749	116.24183	26.16224	0.2581900	0.17386842	3.1792322	21	11 26.4	20.5
155874 2001 DQ_{82}	15.1	X	3.55155	337.09432	357.22496	3.68044	0.0450775	0.16809155	3.2516625	21	9 14.4	19.3
155875 2001 DR_{91}	14.9	X	321.96042	278.36356	194.24751	14.47367	0.0978599	0.18509448	3.0493486	21	—	—
155876 2001 DS_{96}	15.1	X	290.50729	23.26290	183.11805	11.52029	0.0668038	0.19186843	2.9771476	21	—	—
155877 2001 DF_{106}	15.1	X	196.80310	275.93256	357.84125	0.84888	0.1534359	0.18337860	3.0683409	21	—	—
155878 2001 ED_{4}	14.8	X	180.65883	40.81205	150.21286	11.38244	0.1389876	0.17327305	3.1865106	21	10 22.6	20.1
155879 2001 EK_{4}	14.7	X	250.49405	30.95788	152.56517	10.91312	0.1233481	0.18126515	3.0921449	21	12 23.2	19.1
155880 2001 ED_{7}	14.9	X	232.63852	45.03501	153.78131	10.44498	0.0173600	0.17996724	3.1069940	21	—	—
155881 2001 EF_{19}	14.9	X	263.67296	309.68490	187.90448	11.86724	0.1331005	0.18078641	3.0976014	21	11 13.9	19.2
155882 2001 FJ_{26}	15.1	X	269.26011	290.76492	199.32682	13.12488	0.2506088	0.17856819	3.1232014	21	10 24.5	19.3
155883 2001 FU_{38}	14.7	X	258.69993	287.52100	226.36937	5.76526	0.1513815	0.17896895	3.1185372	21	11 23.1	18.9
155884 2001 FC_{39}	14.3	X	150.95859	286.46751	352.13689	12.87464	0.2826535	0.17535950	3.1611846	21	—	—
155885 2001 FZ_{64}	14.9	X	220.53326	35.68685	156.99111	11.85513	0.0633708	0.17700822	3.1415243	21	12 7.9	19.7
155886 2001 FP_{67}	14.6	X	214.99733	26.96403	163.50239	7.76840	0.0832135	0.17559996	3.1582980	21	11 26.7	19.4
155887 2001 FU_{68}	14.2	X	134.63181	260.30714	22.19354	18.54126	0.1637411	0.17404443	3.1770884	21	12 21.9	19.7
155888 2001 FY_{83}	15.8	X	182.64390	242.59612	39.09465	1.54809	0.1595945	0.18187201	3.0852626	21	—	—
155889 2001 FK_{84}	14.9	X	89.32952	333.36224	7.00432	9.58291	0.0977431	0.17921676	3.1156617	21	—	—
155890 2001 FY_{84}	14.4	X	77.50772	274.69035	4.38919	23.65812	0.1778134	0.16726828	3.2623233	21	10 21.0	19.5
155891 2001 FU_{87}	14.7	X	161.99816	218.00111	30.75694	15.52848	0.1860869	0.17323102	3.1870260	21	12 4.4	20.2
155892 2001 FP_{93}	14.8	X	283.76785	10.84799	121.86028	11.39156	0.0687616	0.17942773	3.1132190	21	12 12.4	19.0
155893 2001 FL_{100}	15.1	X	159.94535	290.78468	293.91352	11.82027	0.1878825	0.17335477	3.1855091	21	11 4.9	20.6
155894 2001 FZ_{106}	15.2	X	163.16686	162.74161	33.77608	5.38619	0.1139983	0.17124454	3.2116255	21	10 10.5	20.3
155895 2001 FR_{108}	14.9	X	156.71331	97.85614	172.12332	12.07248	0.0347307	0.17843066	3.1248060	21	12 29.3	19.7
155896 2001 FT_{108}	14.5	X	100.61932	113.72080	174.99649	21.79947	0.1025893	0.17238978	3.1973858	21	11 27.9	19.7
155897 2001 FD_{116}	15.2	X	342.57986	354.56421	121.25040	4.60976	0.0580974	0.18441841	3.0567965	21	—	—
155898 2001 FZ_{116}	14.8	X	243.31048	6.79115	156.66375	14.63237	0.0883175	0.17675242	3.1445546	21	11 27.3	19.6
155899 2001 FW_{135}	15.5	X	307.42176	300.86299	176.20279	7.46043	0.1550908	0.18266201	3.0763605	21	12 19.1	19.2
155900 2001 FJ_{142}	14.9	X	189.36936	62.86685	192.64284	11.73098	0.1238159	0.17807757	3.1289352	21	—	—
155901 2001 FK_{179}	14.8	X	302.05773	69.31062	45.90140	16.17444	0.0794553	0.17913694	3.1165872	21	12 11.2	19.0
155902 2001 FA_{184}	15.0	X	280.39410	126.36754	22.76958	4.88863	0.0789322	0.17846790	3.1243713	21	12 25.1	19.1
155903 2001 FN_{184}	14.8	X	39.84667	27.28757	11.96988	9.69695	0.0943455	0.18196464	3.0842155	21	—	—
155904 2001 HA_{14}	15.0	X	74.45097	151.19068	182.50325	9.07626	0.0788750	0.17490042	3.1667138	21	12 17.9	19.7
155905 2001 HV_{66}	14.3	X	163.56313	238.95154	37.96256	27.36730	0.2232236	0.17567537	3.1573941	21	—	—
155906 2001 MR_{7}	14.8	X	150.02383	176.77226	90.32529	10.02805	0.1565143	0.17278251	3.1925389	21	12 18.3	20.0
155907 2001 MV_{23}	16.5	X	90.16080	99.47013	189.60253	2.54162	0.1486573	0.30581649	2.1818696	21	12 9.7	19.6
155908 2001 NG_{4}	16.8	X	91.15747	244.38325	356.00868	4.31993	0.0714846	0.30166920	2.2018213	21	9 26.8	19.4
155909 2001 NF_{15}	16.5	X	91.02833	258.73277	341.29681	5.34646	0.1206970	0.30205314	2.1999551	21	10 1.1	19.4
155910 2001 OH	16.7	X	92.88754	69.77095	210.82466	7.55279	0.1973102	0.30686879	2.1768787	21	12 5.3	20.0
155911 2001 OQ_{38}	16.2	X	98.86745	2.89590	31.17135	8.59849	0.2520765	0.26793237	2.3829738	21	1 16.8	18.7
155912 2001 OW_{40}	16.2	X	167.61507	314.69392	46.25530	7.97420	0.1779509	0.27344898	2.3508153	21	2 15.9	19.9
155913 2001 OR_{43}	16.2	X	215.03292	143.44559	220.58597	4.18815	0.2080528	0.27878251	2.3207358	21	3 29.1	20.0
155914 2001 OG_{55}	16.3	X	298.11255	218.51883	71.60206	7.57838	0.1229133	0.28537463	2.2848576	21	3 30.7	19.2
155915 2001 OQ_{55}	16.3	X	202.51497	140.32309	249.26534	3.56098	0.1798121	0.27970744	2.3156169	21	4 19.8	20.0
155916 2001 ON_{68}	16.8	X	119.84681	298.32735	298.76504	4.80360	0.1502565	0.30381986	2.1914183	21	10 30.7	20.2
155917 2001 OH_{73}	16.1	X	238.28515	352.63111	343.03830	6.47507	0.2105524	0.27983456	2.3149156	21	3 13.6	19.9
155918 2001 OF_{86}	17.0	X	177.68163	192.91138	169.12970	2.72639	0.2349636	0.27636763	2.3342351	21	2 25.8	20.6
155919 2001 ON_{95}	16.6	X	47.56235	211.39005	103.13598	5.84061	0.1743648	0.30428028	2.1892071	21	11 29.4	19.3
155920 2001 OG_{104}	17.1	X	24.41793	228.91093	77.19104	2.68759	0.2275414	0.29916989	2.2140672	21	10 22.7	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
155921 2001 OJ_{105}	15.5	X	312.95310	86.79741	243.78279	5.47099	0.2010472	0.28911821	2.2650915	21	6 3.4	17.7
155922 2001 PT_{5}	16.6	X	148.17057	146.29453	114.62763	6.43240	0.2080385	0.31100512	2.1575342	21	12 28.3	20.0
155923 2001 PB_{14}	16.2	X	100.76387	102.37957	160.69316	5.50477	0.1546376	0.30443424	2.1884689	21	11 18.4	19.4
155924 2001 PG_{25}	16.7	X	125.94148	89.14536	199.93738	4.08556	0.1785669	0.31033303	2.1606482	21	—	—
155925 2001 PW_{27}	17.3	X	68.71876	231.47648	105.69351	4.86986	0.1902438	0.30860726	2.1686957	21	—	—
155926 2001 PE_{29}	16.4	X	168.00568	254.98775	138.62480	2.63223	0.2181012	0.27709169	2.3301670	21	3 28.9	20.0
155927 2001 PN_{43}	16.4	X	355.34711	245.67674	85.95646	6.97773	0.1588182	0.29700429	2.2248167	21	9 25.1	18.2
155928 2001 PO_{43}	16.6	X	333.21354	283.93250	49.17420	4.84766	0.3065924	0.29415335	2.2391689	21	7 6.2	17.4
155929 2001 PG_{53}	17.1	X	129.32419	174.73418	198.47828	2.06012	0.2061982	0.27040055	2.3684506	21	1 21.0	20.1
155930 2001 PJ_{54}	17.0	X	115.28225	203.05950	197.19902	0.66875	0.1874864	0.27170759	2.3608489	21	2 5.1	19.6
155931 2001 PV_{58}	16.9	X	28.98588	153.13769	139.73785	4.33494	0.1679898	0.29712452	2.2242165	21	9 29.7	18.9
155932 2001 QD_{1}	17.0	X	178.61727	148.95627	208.74188	2.18991	0.1706967	0.27511224	2.3413308	21	2 16.9	20.5
155933 2001 QB_{2}	16.3	X	278.98206	44.20004	338.70476	12.75571	0.2325556	0.23985985	2.5654547	21	6 25.8	20.0
155934 2001 QB_{13}	16.6	X	170.05211	65.69287	302.22177	1.44175	0.2338563	0.27395209	2.3479363	21	2 26.7	20.3
155935 2001 QN_{15}	16.5	X	310.40200	291.80652	30.95699	4.39465	0.1530525	0.29021932	2.2593586	21	5 25.4	19.0
155936 2001 QG_{17}	16.7	X	287.28370	263.59561	108.42359	1.82247	0.2395708	0.29085526	2.2560641	21	6 18.2	19.2
155937 2001 QP_{28}	15.7	X	119.55127	345.31736	44.62307	3.50201	0.1755167	0.26668094	2.3904228	21	1 28.6	18.6
155938 2001 QR_{32}	17.2	X	64.26801	94.85424	226.83651	3.54809	0.2109069	0.30653072	2.1784790	21	12 30.7	20.4
155939 2001 QY_{35}	16.8	X	206.54504	262.14778	105.13047	2.41155	0.2069609	0.28125238	2.3071292	21	3 28.2	20.5
155940 2001 QX_{41}	16.9	X	279.85529	166.93701	132.40693	3.21978	0.1821589	0.28459707	2.2890174	21	3 10.0	20.0
155941 2001 QL_{43}	16.8	X	192.81596	37.58951	345.71182	1.30092	0.2081612	0.28087211	2.3092111	21	4 4.2	20.6
155942 2001 QS_{54}	16.7	X	359.80918	171.18343	120.38642	6.35607	0.1654234	0.29352697	2.2423533	21	7 20.5	18.1
155943 2001 QR_{55}	16.5	X	234.38178	258.61490	121.14584	6.53810	0.1492402	0.28510859	2.2862787	21	5 11.9	19.9
155944 2001 QW_{55}	16.6	X	131.42905	325.17423	65.82873	3.17125	0.2128136	0.27258552	2.3557771	21	2 18.3	19.7
155945 2001 QD_{56}	16.9	X	206.39499	290.12663	67.11247	3.46893	0.1809270	0.27937655	2.3174449	21	3 16.1	20.7
155946 2001 QK_{65}	16.6	X	125.20459	109.17893	259.92857	2.31171	0.2187261	0.26892397	2.3771124	21	1 12.9	19.6
155947 2001 QB_{69}	16.0	X	152.63402	194.02429	204.91004	9.50464	0.2165688	0.27463858	2.3440220	21	3 18.9	19.6
155948 Maquet	17.0	X	10.28773	103.22761	161.11228	4.43958	0.1003497	0.29141372	2.2531809	21	6 24.9	19.1
155949 2001 QC_{75}	15.6	X	51.95552	215.07009	201.39542	5.55349	0.1223556	0.25922411	2.4360477	21	—	—
155950 2001 QP_{79}	15.7	X	96.56088	220.23651	190.38130	5.87813	0.1410306	0.26433313	2.4045565	21	1 15.4	18.5
155951 2001 QD_{89}	16.4	X	174.18145	208.60721	164.23143	6.94699	0.1318178	0.27355730	2.3501947	21	3 1.9	19.8
155952 2001 QU_{91}	16.5	X	153.23864	247.58874	10.33198	2.75765	0.1447031	0.31253635	2.1504814	21	—	—
155953 2001 QG_{93}	15.8	X	286.55159	26.19784	328.34928	7.35436	0.2411742	0.23661054	2.5888883	21	5 23.5	19.6
155954 2001 QR_{95}	14.5	X	151.39872	223.48021	146.91188	2.93477	0.2486731	0.12286511	4.0072860	21	3 3.5	21.0
155955 2001 QS_{97}	15.9	X	172.36665	164.76261	213.13468	7.54804	0.1521965	0.27371050	2.3493176	21	3 5.6	19.6
155956 2001 QX_{98}	16.1	X	286.61815	90.15644	249.25169	4.15036	0.1722265	0.28530975	2.2852040	21	5 11.5	18.9
155957 2001 QU_{99}	16.7	X	52.37354	177.64707	114.71653	1.01024	0.1763442	0.30001941	2.2098857	21	11 4.1	19.2
155958 2001 QL_{106}	15.8	X	88.30606	300.66880	23.76347	22.59990	0.3317396	0.30635151	2.1793285	21	—	—
155959 2001 QF_{127}	14.3	X	172.51683	138.10316	209.20785	7.75574	0.2576860	0.12420390	3.9784376	21	2 18.8	21.0
155960 2001 QV_{143}	17.2	X	327.65840	91.51253	175.03103	2.62464	0.1474282	0.28506338	2.2865205	21	4 1.6	19.5
155961 2001 QE_{145}	17.4	X	251.10237	115.71688	188.12018	3.46540	0.0669487	0.27761989	2.3272105	21	2 21.9	20.6
155962 2001 QK_{145}	16.6	X	357.28500	7.45130	175.59189	8.84551	0.1359400	0.27499618	2.3419895	21	1 20.8	19.2
155963 2001 QJ_{158}	16.8	X	163.19564	166.23582	211.51444	0.83121	0.1799525	0.27472282	2.3435428	21	2 28.7	20.2
155964 2001 QL_{181}	15.9	X	109.42934	311.39986	65.71116	7.43380	0.0911080	0.26563929	2.3966678	21	—	—
155965 2001 QU_{198}	16.0	X	117.56161	11.16357	27.40275	5.96617	0.2275192	0.26610797	2.3938529	21	2 15.9	19.1
155966 2001 QF_{205}	16.5	X	111.93487	34.33338	203.92751	6.12863	0.1650314	0.30211838	2.1996384	21	10 27.5	19.7
155967 2001 QA_{215}	16.1	X	54.45035	298.81443	120.83236	1.13629	0.2074155	0.26295701	2.4129383	21	—	—
155968 2001 QC_{219}	17.2	X	219.58031	130.13390	216.39236	0.99761	0.1741002	0.27915635	2.3186634	21	3 12.3	20.8
155969 2001 QJ_{219}	16.6	X	143.68734	244.87624	169.79466	2.83267	0.1503310	0.27698800	2.3307485	21	3 25.5	19.9
155970 2001 QL_{220}	16.8	X	78.21641	203.49862	224.19544	1.30019	0.1618705	0.26746307	2.3857604	21	1 10.7	18.9
155971 2001 QK_{224}	17.4	X	46.36909	166.30761	141.75221	2.67400	0.1644329	0.30343230	2.1932838	21	11 17.2	19.9
155972 2001 QW_{227}	16.2	X	36.47282	221.59173	203.64176	10.89680	0.2120973	0.26169583	2.4206845	21	—	—
155973 2001 QJ_{235}	16.6	X	316.01061	116.16251	208.01086	4.55018	0.2474938	0.29008596	2.2600510	21	5 21.4	18.7
155974 2001 QN_{236}	16.2	X	96.68514	37.92340	337.39718	2.45360	0.2010535	0.26391671	2.4070851	21	—	—
155975 2001 QS_{238}	16.7	X	279.93620	150.73255	181.41362	6.95777	0.1422731	0.28476075	2.2881402	21	4 29.2	19.6
155976 2001 QP_{239}	15.9	X	89.41922	251.06314	160.96135	6.87841	0.1004054	0.26906523	2.3762802	21	—	—
155977 2001 QB_{240}	16.3	X	0.13976	4.98314	301.68077	3.98945	0.1675807	0.29302070	2.2449354	21	8 17.1	17.7
155978 2001 QF_{242}	17.0	X	318.53319	344.55180	326.03783	2.95751	0.1259664	0.28766355	2.2727212	21	5 25.6	19.4
155979 2001 QQ_{242}	16.9	X	194.23137	175.47423	161.10978	4.01239	0.1709391	0.27342141	2.3509733	21	2 5.8	20.4
155980 2001 QR_{246}	16.0	X	142.98537	177.22041	202.61767	2.27047	0.1986428	0.26955066	2.3734265	21	2 12.9	19.4
155981 2001 QC_{247}	16.3	X	81.17718	41.97755	1.63649	2.48378	0.1740457	0.26294287	2.4130248	21	—	—
155982 2001 QE_{247}	16.9	X	305.85286	183.79827	147.02157	2.15096	0.2392430	0.28793905	2.2712713	21	5 16.3	19.2
155983 2001 QM_{250}	16.7	X	25.32685	178.62006	108.04687	8.55098	0.2111008	0.29635946	2.2280428	21	9 23.9	18.8
155984 2001 QD_{256}	16.5	X	262.26322	306.24297	27.55123	3.80278	0.2060771	0.28323618	2.2963437	21	4 3.2	20.0
155985 2001 QM_{256}	16.4	X	168.25576	338.42230	33.79636	5.60935	0.2042238	0.27351093	2.3504603	21	3 3.3	20.1
155986 2001 QK_{258}	16.5	X	249.92889	251.01830	123.13885	4.99534	0.1727671	0.28515282	2.2860424	21	5 18.0	19.8
155987 2001 QX_{258}	16.6	X	211.55191	152.61770	221.49337	6.40028	0.1173702	0.28003191	2.3138278	21	4 8.9	19.9
155988 2001 QJ_{260}	16.3	X	87.52689	20.21176	232.87677	5.39929	0.1846706	0.29903708	2.2147227	21	10 22.2	19.5
155989 2001 QF_{267}	16.6	X	246.41490	150.52724	225.86642	3.06254	0.2082515	0.28602577	2.2813886	21	5 12.7	20.1
155990 2001 QX_{283}	16.4	X	296.77448	296.46168	52.14113	5.93721	0.2001375	0.28838303	2.2689395	21	6 3.6	19.0
155991 2001 QB_{284}	15.8	X	67.21545	352.51651	44.07802	11.09835	0.2027977	0.26307677	2.4122059	21	—	—
155992 2001 QN_{296}	16.5	X	314.22916	320.17778	30.30913	6.15431	0.1978953	0.29004976	2.2602391	21	7 10.6	18.5
155993 2001 RE_{1}	16.5	X	27.17620	79.71623	345.59353	1.85865	0.1942661	0.26043935	2.4284639	21	—	—
155994 2001 RJ_{2}	16.8	X	231.04556	127.07551	212.85087	1.95642	0.2620704	0.27768625	2.3268397	21	3 11.6	20.8
155995 2001 RX_{5}	16.9	X	331.61758	336.82797	324.48764	2.32809	0.1497272	0.28916965	2.2648229	21	6 1.0	18.9
155996 2001 RD_{11}	16.5	X	221.67703	164.28785	186.47903	3.32417	0.2035766	0.27820961	2.3239207	21	3 19.2	20.2
155997 2001 RP_{16}	15.9	X	57.29787	230.55371	184.60868	10.85401	0.1336076	0.26277644	2.4140435	21	—	—
155998 2001 RQ_{21}	16.8	X	22.47316	136.81586	141.10392	1.33833	0.1175107	0.29417655	2.2390511	21	8 13.3	18.8
155999 2001 RV_{26}	17.4	X	15.22341	332.79884	11.78833	1.06377	0.2046228	0.30035230	2.2082525	21	11 28.6	19.5
156000 2001 RR_{27}	16.7	X	314.04718	166.05180	167.32816	1.85734	0.1455022	0.29044576	2.2581841	21	6 20.2	18.8