Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160001 Bakonybél	15.4	X	316.73377	306.85660	191.73840	20.22643	0.1024486	0.17744649	3.1363494	21	—	—
160002 2006 JO_{57}	14.8	X	153.59586	254.61474	118.24600	12.66826	0.0056360	0.18325920	3.0696735	21	2 10.4	19.1
160003 2006 SL_{284}	17.0	X	284.79460	157.93073	174.91765	2.41618	0.1285064	0.31279467	2.1492973	21	5 5.5	19.6
160004 2007 GP_{24}	16.5	X	104.10803	165.93575	140.08725	4.49368	0.0950850	0.24128843	2.5553185	21	12 30.2	20.3
160005 2007 GA_{51}	13.6	X	250.72117	206.11879	65.53399	13.53694	0.1605567	0.12606863	3.9391092	21	2 2.5	19.8
160006 2007 HK_{56}	17.0	X	74.33486	129.33952	198.45111	4.86893	0.0643503	0.31186211	2.1535798	21	—	—
160007 2007 HY_{60}	15.0	X	159.27771	156.32317	107.01371	6.55116	0.1535111	0.17516735	3.1634959	21	12 22.1	20.1
160008 2007 JJ	15.0	X	228.67465	42.86285	192.85736	16.83028	0.1254683	0.18248105	3.0783940	21	—	—
160009 2007 JM_{3}	16.0	X	220.03216	92.72383	146.33341	8.23664	0.0871913	0.25240936	2.4796996	21	—	—
160010 6699 $P–L$	16.5	X	304.36408	129.19902	173.57300	4.77914	0.2571931	0.27177787	2.3604419	21	4 2.9	19.6
160011 1098 $T–2$	15.9	X	354.76583	67.72434	274.11468	2.10197	0.1147906	0.22562644	2.6722437	21	9 19.0	18.8
160012 1110 $T–2$	17.5	X	301.01339	174.87283	184.53856	3.43943	0.2224441	0.28542246	2.2846024	21	6 23.6	20.0
160013 Elbrus	16.1	X	109.73229	149.69129	158.17768	0.07172	0.2910406	0.16852452	3.2460907	21	—	—
160014 3057 $T–2$	16.2	X	244.44186	179.34751	158.70111	2.35933	0.3369166	0.19940639	2.9016387	21	3 22.8	21.5
160015 3079 $T–2$	16.3	X	273.16487	279.60881	24.34489	2.39515	0.2301343	0.24029119	2.5623836	21	3 9.3	20.2
160016 1988 SX_{1}	16.3	X	207.70626	234.99386	114.76799	6.69534	0.2380406	0.25761570	2.4461767	21	3 11.2	20.5
160017 1990 JD_{2}	15.3	X	109.74750	78.11791	164.95358	16.78177	0.1672859	0.23064694	2.6333237	21	10 27.3	19.6
160018 1991 TY_{2}	15.5	X	170.60252	120.52893	248.74003	3.36252	0.1609240	0.18149562	3.0895266	21	3 5.2	20.6
160019 1994 FE	15.6	X	236.41880	62.35626	155.67388	17.61436	0.1185184	0.24312375	2.5424424	21	—	—
160020 1995 FN_{4}	16.9	X	201.92890	354.90866	142.62613	3.88599	0.0805331	0.24274106	2.5451139	21	9 15.2	20.4
160021 1995 FE_{7}	16.0	X	216.85787	174.79604	91.02627	4.66309	0.1571537	0.21687009	2.7436978	21	—	—
160022 1995 YL_{11}	17.2	X	30.49302	355.08441	152.42283	3.21853	0.1173273	0.27675713	2.3320445	21	1 31.6	19.3
160023 1996 VM_{19}	16.4	X	98.27220	343.67292	67.04445	3.43000	0.0372846	0.21104761	2.7939315	21	1 18.1	20.0
160024 1996 VG_{25}	16.2	X	29.01493	65.97004	58.94070	5.30583	0.0212579	0.21127360	2.7919388	21	1 19.5	19.9
160025 1996 XS	15.6	X	176.07818	101.77148	250.56716	6.31159	0.1516725	0.25360015	2.4719312	21	2 7.9	19.5
160026 1997 EH_{25}	17.5	X	215.43978	51.95617	57.99617	5.74845	0.0962649	0.30263306	2.1971437	21	8 29.9	20.4
160027 1997 UN_{1}	17.0	X	335.65034	80.90496	285.80945	4.10243	0.1660596	0.28700456	2.2761988	21	9 28.4	18.7
160028 1998 ET_{5}	16.2	X	359.98195	239.30273	357.85587	5.93735	0.1206700	0.30325302	2.1941482	21	4 14.6	18.1
160029 1998 FM_{101}	15.5	X	172.60786	243.70691	339.33736	10.49856	0.1923846	0.23524758	2.5988783	21	11 20.4	20.1
160030 1998 FM_{130}	15.3	X	253.94216	179.44380	12.51812	15.33376	0.0475351	0.24267292	2.5455903	21	—	—
160031 1998 HD_{48}	15.8	X	132.22883	146.08145	126.35598	4.60746	0.1554020	0.23428331	2.6060044	21	12 18.1	20.0
160032 1998 HM_{96}	15.7	X	196.07243	144.28567	65.59296	7.97889	0.1063652	0.23492585	2.6012505	21	12 5.1	19.4
160033 1998 QU_{81}	14.9	X	331.83200	142.10868	228.35606	16.14602	0.2633521	0.21466167	2.7624837	21	8 30.9	17.7
160034 1998 RS_{39}	15.6	X	12.49536	279.79201	80.91167	3.07244	0.3046771	0.21827425	2.7319184	21	12 13.1	18.3
160035 1998 WQ_{27}	17.2	X	353.47411	108.79789	44.47696	2.78598	0.1422394	0.27170743	2.3608499	21	—	—
160036 1998 XH_{7}	16.7	X	13.24849	25.90387	91.09761	3.35421	0.1342006	0.26866928	2.3786144	21	—	—
160037 1998 YG_{6}	14.5	X	343.68624	259.28725	168.08061	25.80836	0.2591616	0.17180429	3.2046459	21	12 23.1	18.3
160038 1999 CL_{56}	16.1	X	213.20423	117.96053	23.73473	5.52577	0.1782652	0.24511559	2.5286502	21	9 24.8	19.9
160039 1999 JE_{4}	15.7	X	240.98751	255.89669	43.86966	14.40903	0.2113221	0.25899633	2.4374758	21	2 9.1	20.0
160040 1999 NC_{30}	15.4	X	19.48767	252.78771	119.33887	29.97606	0.2959141	0.23208204	2.6224569	21	—	—
160041 1999 NJ_{36}	15.8	X	141.55894	220.29699	111.16678	10.90191	0.1780486	0.24438018	2.5337206	21	—	—
160042 1999 NW_{64}	15.5	X	28.01578	247.45662	120.19240	14.16363	0.2748264	0.23218250	2.6217004	21	—	—
160043 1999 OC_{2}	15.5	X	131.18975	52.63535	263.39917	12.29240	0.2825382	0.23895852	2.5719017	21	—	—
160044 1999 RJ_{37}	15.6	X	151.45950	121.87005	201.27986	14.60494	0.3267479	0.24388938	2.5371187	21	—	—
160045 1999 RU_{183}	16.0	X	112.42351	200.42493	143.94465	4.91987	0.1372064	0.23918885	2.5702503	21	—	—
160046 1999 SG_{23}	15.5	X	88.06040	327.23957	0.68671	15.07214	0.1330791	0.23521262	2.5991358	21	—	—
160047 1999 TF_{181}	16.0	X	103.80486	101.61197	257.61448	3.73168	0.2423401	0.23853797	2.5749237	21	—	—
160048 1999 TF_{185}	15.6	X	112.56803	345.84667	315.29744	12.46611	0.2575015	0.23459668	2.6036832	21	—	—
160049 1999 TF_{189}	15.1	X	46.55468	351.10633	355.60076	15.11014	0.1250751	0.22850771	2.6497332	21	12 16.6	19.0
160050 1999 TW_{242}	16.3	X	89.65110	216.65920	138.70956	6.65555	0.2598203	0.23490204	2.6014263	21	—	—
160051 1999 TB_{260}	15.5	X	105.57197	269.38062	71.05425	12.86408	0.3203934	0.23657426	2.5891530	21	—	—
160052 1999 TQ_{265}	15.4	X	115.67035	88.83674	276.96877	11.65487	0.2210824	0.24113385	2.5564105	21	1 3.0	18.6
160053 1999 TD_{284}	15.8	X	147.97237	174.60196	172.94884	7.33034	0.2406161	0.24185588	2.5513201	21	1 17.5	19.8
160054 1999 TZ_{290}	15.9	X	89.85049	182.81560	168.61473	6.84702	0.2841442	0.23394997	2.6084792	21	—	—
160055 1999 UQ_{44}	15.8	X	132.97842	234.99464	129.20715	4.55254	0.2646121	0.24168303	2.5525364	21	1 27.0	19.4
160056 1999 UF_{52}	15.7	X	72.24409	235.67723	130.88755	6.78771	0.2921520	0.23383056	2.6093672	21	—	—
160057 1999 UZ_{60}	15.0	X	1.73994	105.71738	296.93835	14.42442	0.2731661	0.22676004	2.6633304	21	—	—
160058 1999 VV_{36}	15.8	X	88.80706	262.03084	76.99822	5.57832	0.2884896	0.23200148	2.6230639	21	—	—
160059 1999 VV_{88}	16.1	X	170.03772	126.57713	258.70772	0.87015	0.0533292	0.20155021	2.8810263	21	3 16.4	20.4
160060 1999 VV_{113}	15.3	X	20.92862	64.48659	257.85662	11.20136	0.0616218	0.21912943	2.7248059	21	9 24.7	19.0
160061 1999 VG_{127}	16.1	X	92.04762	229.56736	43.24213	5.44779	0.1282613	0.22693046	2.6619967	21	11 7.4	20.0
160062 1999 VQ_{143}	16.4	X	80.58310	114.62215	270.38291	2.65833	0.2916482	0.23632739	2.5909558	21	—	—
160063 1999 VV_{204}	16.5	X	293.25035	284.66688	186.07463	0.85202	0.1553599	0.17948239	3.1125869	21	11 16.9	20.3
160064 1999 XG_{114}	15.2	X	45.86893	35.36079	311.09630	12.47831	0.1739039	0.22765625	2.6563360	21	12 24.0	18.9
160065 1999 XX_{117}	15.9	X	70.78147	61.16757	299.96191	4.18997	0.2694023	0.23269999	2.6178121	21	—	—
160066 1999 XS_{236}	15.4	X	40.09257	87.85701	269.30287	13.17846	0.1657101	0.22789546	2.6544768	21	12 27.9	18.9
160067 2000 BU_{5}	15.3	X	323.38434	335.91757	48.13722	15.42490	0.2159067	0.21583339	2.7524766	21	9 23.6	18.2
160068 2000 CS_{10}	14.9	X	307.73091	96.34936	291.81712	11.82300	0.2118725	0.21396102	2.7685111	21	8 14.5	18.0
160069 2000 CO_{12}	16.3	X	215.13922	316.33244	174.81565	7.04005	0.0835492	0.25777115	2.4451932	21	9 22.7	19.7
160070 2000 CU_{98}	15.1	X	168.05207	129.05902	142.48388	19.39692	0.0697475	0.17541097	3.1605661	21	—	—
160071 2000 CD_{100}	15.5	X	333.91356	63.75126	326.74172	5.93778	0.3257271	0.21772066	2.7365473	21	10 12.7	17.2
160072 2000 DE_{8}	16.8	X	50.59903	59.44744	144.41662	7.08129	0.0767523	0.28979453	2.2615660	21	6 3.1	19.3
160073 2000 DH_{60}	16.5	X	154.72916	295.87147	156.27512	4.27960	0.0769331	0.28900712	2.2656719	21	5 20.9	19.5
160074 2000 EV_{125}	16.6	X	73.42774	28.60355	149.37156	8.24861	0.0978402	0.28761605	2.2729714	21	6 5.3	19.2
160075 2000 FK_{34}	16.4	X	187.64769	75.18656	95.25225	10.92601	0.1936798	0.25473653	2.4645742	21	10 11.3	20.6
160076 2000 GS_{8}	14.8	X	174.46713	342.15407	3.71611	10.08123	0.0711539	0.18290695	3.0736134	21	2 9.5	19.5
160077 2000 GG_{27}	17.3	X	263.57093	20.47992	176.08286	2.98246	0.1455441	0.26593214	2.3949080	21	—	—
160078 2000 GN_{154}	16.4	X	73.05962	25.05031	231.04501	7.64649	0.1260891	0.29423207	2.2387695	21	9 29.8	19.3
160079 2000 GD_{175}	16.8	X	57.26354	302.25870	181.00394	6.16821	0.0712364	0.27742769	2.3282852	21	2 10.9	19.3
160080 2000 HG_{21}	16.5	X	317.10845	87.76625	94.08077	4.41433	0.1696895	0.27006976	2.3703842	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160081 2000 JK_{40}	16.9	X	52.72925	37.62105	235.29380	3.22831	0.1878805	0.28966206	2.2622554	21	10 6.9	19.5
160082 2000 KM_{58}	16.8	X	47.50198	56.62882	111.14766	7.45578	0.1818597	0.28067241	2.3103063	21	4 17.4	18.7
160083 2000 KX_{67}	16.7	X	258.86262	102.38191	112.33353	12.06923	0.2606456	0.26606806	2.3940923	21	—	—
160084 2000 KP_{74}	16.0	X	48.48721	40.30395	131.16223	7.44320	0.2247763	0.23443569	2.6048751	21	5 7.9	18.5
160085 2000 LJ_{6}	15.6	X	32.75996	120.81284	211.58949	22.72418	0.2956201	0.29006290	2.2601708	21	12 17.1	19.0
160086 2000 LT_{23}	16.2	X	354.25051	32.92661	252.74681	11.50643	0.1950623	0.28241520	2.3007919	21	6 23.0	17.7
160087 2000 NT_{26}	16.3	X	17.53786	317.66728	302.35756	22.74807	0.1620174	0.27956495	2.3164036	21	7 11.2	18.2
160088 2000 NG_{27}	16.4	X	0.06920	172.77316	111.72159	6.09880	0.2386974	0.28045487	2.3115008	21	7 8.4	17.3
160089 2000 OP_{7}	15.6	X	336.90599	19.97260	323.63621	13.04698	0.2215710	0.27967181	2.3158136	21	8 19.9	16.8
160090 2000 ON_{38}	16.4	X	247.89592	27.05953	278.38000	10.52027	0.2705600	0.26734044	2.3864899	21	2 8.7	20.7
160091 2000 OL_{67}	6.9	X	70.83966	316.68726	322.45763	1.97378	0.1125117	0.00321730	45.4438364	21	9 25.5	23.3
160092 2000 PL_{6}	14.8	X	232.47315	67.30894	323.01289	21.69252	0.3574191	0.26899456	2.3766964	21	4 30.9	19.7
160093 2000 QW_{44}	16.8	X	305.39838	205.64467	127.86649	3.26649	0.2226124	0.27651114	2.3334274	21	5 23.6	19.4
160094 2000 QR_{67}	16.4	X	280.81241	217.72688	125.17820	7.56895	0.1340107	0.27300161	2.3533828	21	5 18.5	19.5
160095 2000 QU_{101}	16.3	X	344.92766	213.22087	128.25681	5.23806	0.2051337	0.28071768	2.3100579	21	9 12.5	17.7
160096 2000 QJ_{118}	16.1	X	183.84574	139.04282	309.22778	6.53816	0.0626335	0.27274887	2.3548364	21	6 19.4	19.3
160097 2000 QJ_{165}	16.1	X	212.51204	71.84660	310.30198	6.64829	0.1267275	0.26871206	2.3783619	21	4 18.9	19.8
160098 2000 QX_{169}	16.2	X	261.14850	52.96458	308.47679	5.63293	0.1361939	0.27239812	2.3568574	21	5 14.9	19.6
160099 2000 QR_{229}	16.1	X	252.55477	33.78549	0.81307	6.98053	0.1181348	0.27470433	2.3436480	21	6 23.8	19.4
160100 2000 RD	15.5	X	309.40612	58.97264	321.25869	23.52519	0.2694401	0.28009847	2.3134612	21	8 6.9	17.2
160101 2000 RM_{23}	16.0	X	304.02040	127.94389	206.30234	5.08199	0.2608922	0.27503924	2.3417451	21	5 15.7	18.8
160102 2000 RX_{73}	16.3	X	315.88056	110.18054	221.51892	1.32477	0.2441694	0.27464306	2.3439965	21	6 3.3	18.6
160103 2000 RM_{104}	15.9	X	284.11162	88.51568	266.97391	9.25573	0.2582132	0.27344613	2.3508317	21	5 18.3	19.1
160104 2000 SG_{27}	16.1	X	268.20477	25.35713	230.72346	8.04920	0.1919901	0.26197648	2.4189553	21	1 4.1	20.1
160105 Gobi	15.9	X	5.27819	109.30554	243.56217	5.77074	0.1537944	0.28375542	2.2935415	21	11 10.2	18.0
160106 2000 SS_{62}	16.3	X	345.60201	265.61454	356.02207	5.82749	0.1914575	0.27209292	2.3586195	21	4 19.8	18.3
160107 2000 SD_{98}	15.9	X	256.39294	139.40832	215.12538	4.16420	0.2493621	0.27029912	2.3690431	21	4 20.9	19.6
160108 2000 SY_{144}	16.0	X	347.44640	309.05775	0.61399	6.39082	0.2164351	0.27726342	2.3292048	21	7 20.9	17.5
160109 2000 SH_{148}	16.4	X	287.81496	52.17775	279.73340	1.48464	0.2071001	0.27128800	2.3632826	21	4 28.2	19.4
160110 2000 SW_{152}	16.3	X	188.10042	40.92361	349.57354	1.37370	0.1956110	0.26304793	2.4123822	21	4 10.2	20.2
160111 2000 SZ_{160}	14.8	X	101.38450	321.32223	65.86027	15.28921	0.1955199	0.24570941	2.5245745	21	1 6.1	17.9
160112 2000 SP_{189}	16.1	X	291.10800	46.53752	219.89992	9.98111	0.1265174	0.26341730	2.4101266	21	2 12.5	19.7
160113 2000 SK_{216}	16.6	X	335.97859	194.78665	142.08506	6.48618	0.2509804	0.27847016	2.3224709	21	7 31.7	17.8
160114 2000 SX_{216}	16.0	X	244.42672	306.48727	87.72257	6.31330	0.2187645	0.27114780	2.3640972	21	6 3.3	19.7
160115 2000 ST_{237}	16.5	X	329.46902	214.11514	124.26462	6.56056	0.2638171	0.27801514	2.3250043	21	7 12.5	17.9
160116 2000 SR_{241}	16.3	X	284.62862	223.54723	125.14160	5.33525	0.2200360	0.27461144	2.3441764	21	5 17.7	19.4
160117 2000 SY_{253}	16.1	X	129.55041	329.98899	152.23158	6.62262	0.0931116	0.26803900	2.3823417	21	6 3.5	19.4
160118 2000 SU_{268}	16.6	X	315.00067	245.91419	80.67508	3.38912	0.2730747	0.27454315	2.3445652	21	5 19.5	18.8
160119 2000 TM_{31}	16.8	X	287.05205	192.69729	97.81170	4.29402	0.1672297	0.26745203	2.3858261	21	3 11.6	20.1
160120 2000 UU_{7}	16.1	X	253.45470	276.59690	60.66633	1.45786	0.2321512	0.26607637	2.3940424	21	3 29.9	19.8
160121 2000 UZ_{44}	15.6	X	317.73990	108.03209	52.18824	9.28774	0.0527684	0.24677371	2.5173105	21	—	—
160122 2000 UT_{60}	16.4	X	228.56896	98.08576	272.75051	2.39185	0.1911319	0.26655108	2.3911992	21	4 19.9	20.2
160123 2000 UQ_{75}	16.7	X	238.70869	237.06382	126.06131	6.33590	0.2524069	0.26630680	2.3926612	21	4 19.7	20.8
160124 2000 UM_{98}	15.8	X	165.63224	39.04643	21.16318	6.22381	0.0971096	0.26176891	2.4202339	21	4 21.7	19.2
160125 2000 VF_{8}	16.7	X	249.77415	98.70642	208.21792	2.04479	0.2107171	0.26223558	2.4173617	21	2 17.9	20.6
160126 2000 WW_{94}	16.0	X	139.05121	110.08719	292.19524	2.64541	0.1761251	0.25481474	2.4640699	21	3 8.3	19.5
160127 2000 WX_{96}	16.2	X	197.91860	43.00167	329.41995	1.70602	0.2147975	0.25964546	2.4334115	21	3 27.5	20.1
160128 2000 XK_{19}	15.9	X	291.11341	5.99995	345.77374	7.18603	0.2491983	0.27157176	2.3616361	21	5 22.1	19.1
160129 2000 XP_{23}	15.2	X	216.76294	19.05147	330.91480	12.05680	0.1577307	0.25957126	2.4338752	21	3 13.4	19.2
160130 2000 XU_{32}	15.0	X	239.06379	34.23681	321.96943	11.82303	0.3034150	0.26354963	2.4093197	21	3 31.7	19.5
160131 2000 XS_{45}	15.1	X	224.29323	142.65725	320.19583	24.08845	0.2147213	0.27024798	2.3693420	21	8 13.3	18.9
160132 2000 YJ_{7}	14.9	X	275.80486	329.60945	89.86636	11.74692	0.2089408	0.17550417	3.1594471	21	8 13.3	19.5
160133 2000 YZ_{60}	15.5	X	218.45546	95.75840	285.37579	12.58275	0.2596952	0.26137919	2.4226391	21	4 17.9	20.0
160134 2000 YP_{124}	16.7	X	178.44887	250.16775	130.17161	3.53977	0.1841292	0.25837044	2.4414106	21	3 21.8	20.6
160135 2000 YB_{131}	11.9	X	81.13874	359.55189	301.91116	17.33038	0.0490625	0.08410870	5.1591179	21	10 24.8	19.0
160136 2001 BV_{10}	16.7	X	194.44903	102.58633	129.64255	24.41399	0.0598174	0.37659165	1.8991339	21	—	—
160137 2001 BU_{41}	15.1	X	255.17644	85.15119	308.29491	20.48321	0.3292913	0.26605926	2.3941451	21	5 31.9	19.5
160138 2001 CT_{35}	16.1	X	122.08091	264.97059	8.36450	19.35318	0.0605500	0.37099529	1.9181848	21	—	—
160139 2001 CK_{47}	15.4	X	43.04569	338.02726	319.73552	3.54092	0.0319680	0.21867478	2.7285814	21	9 23.8	18.9
160140 2001 DZ_{3}	12.1	X	30.60368	28.91806	339.28567	24.52448	0.0580457	0.08285084	5.2112044	21	11 7.1	19.1
160141 2001 DW_{8}	17.0	X	125.72844	278.86431	338.03363	17.85821	0.0702363	0.37030590	1.9205648	21	12 13.2	19.7
160142 2001 DG_{101}	15.1	X	110.16529	323.22494	48.47794	12.89821	0.2011278	0.24388636	2.5371397	21	—	—
160143 2001 ED_{17}	16.6	X	306.32014	334.82774	108.18255	23.66879	0.0720446	0.37073767	1.9190733	21	12 29.5	18.0
160144 2001 FN_{52}	15.0	X	308.92933	238.66631	355.97927	9.78570	0.1659094	0.19108641	2.9852647	21	2 7.7	19.2
160145 2001 FR_{88}	17.2	X	35.59939	230.58088	35.76396	3.18976	0.1524781	0.25571960	2.4582537	21	8 23.8	19.8
160146 2001 HU_{22}	14.4	X	173.24968	225.27787	70.18633	28.41047	0.1963138	0.17560255	3.1582670	21	—	—
160147 2001 KN_{76}	6.6	X	350.46152	287.45981	327.09653	2.64464	0.0910774	0.00339824	43.8160845	21	5 23.6	22.6
160148 2001 KV_{76}	7.8	X	356.79021	229.28477	39.65773	15.32873	0.5119127	0.00166950	70.3739682	21	6 5.9	23.2
160149 2001 LC_{10}	16.7	X	261.28189	151.74534	152.63358	6.51435	0.1217638	0.28682495	2.2771489	21	3 1.8	19.8
160150 2001 MP_{30}	14.2	X	174.61449	95.68754	299.53887	8.83885	0.1297743	0.18249605	3.0782253	21	4 3.9	19.3
160151 2001 ND_{2}	16.7	X	186.35106	199.21858	148.27070	6.45786	0.1369668	0.27754446	2.3276321	21	2 9.8	20.1
160152 2001 OS_{54}	14.0	X	141.22465	79.61484	331.39384	14.60612	0.2559291	0.17888080	3.1195615	21	3 30.7	19.4
160153 2001 OD_{59}	14.9	X	136.45278	29.96772	301.14312	4.25280	0.1328356	0.17009427	3.2260883	21	—	—
160154 2001 QD_{103}	17.1	X	121.57931	207.98768	107.97796	2.41816	0.1860982	0.26460156	2.4029300	21	—	—
160155 2001 QP_{138}	16.4	X	277.32755	132.83052	235.55612	7.06585	0.1611108	0.28604929	2.2812636	21	6 12.0	19.3
160156 2001 QA_{283}	14.4	X	131.56289	144.25736	261.58058	13.59083	0.2130332	0.17423483	3.1747734	21	3 12.6	19.7
160157 2001 RZ_{19}	15.6	X	306.46178	109.00517	170.24487	8.65641	0.2289983	0.18586619	3.0409022	21	3 20.8	19.7
160158 2001 RS_{121}	17.0	X	170.21853	252.03454	40.76909	2.62888	0.1139452	0.31526361	2.1380613	21	—	—
160159 2001 SU_{79}	16.3	X	56.42477	257.68310	166.87523	12.37266	0.0530250	0.26824743	2.3811075	21	—	—
160160 2001 SL_{116}	16.9	X	197.27118	249.18206	12.12328	3.68263	0.1973080	0.31443096	2.1418342	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160161 2001 SF_{283}	15.3	X	228.42031	8.32694	28.34221	15.90544	0.2941434	0.22947113	2.6423115	21	5 16.2	20.1
160162 2001 SX_{345}	17.0	X	98.98227	208.88828	130.03061	7.35065	0.1515881	0.26153211	2.4216946	21	—	—
160163 2001 TB_{209}	17.3	X	157.03482	41.72643	252.82118	1.94012	0.1767619	0.31257992	2.1502815	21	—	—
160164 2001 TW_{252}	13.1	X	141.43336	74.68581	45.87547	9.83051	0.0377802	0.08338054	5.1891104	21	6 13.2	20.2
160165 2001 UR	16.9	X	261.30101	281.89299	149.93980	4.22986	0.1366645	0.24056153	2.5604636	21	8 22.3	20.4
160166 2001 UH_{88}	16.4	X	117.23937	134.76048	48.07216	5.68315	0.0863586	0.23748184	2.5825522	21	8 10.9	20.1
160167 2001 UH_{131}	16.4	X	126.07653	90.39276	61.36899	4.40125	0.0701216	0.23222929	2.6213482	21	7 6.8	20.0
160168 2001 UF_{145}	16.9	X	180.64281	312.93437	144.55545	1.44814	0.1799832	0.23067458	2.6331134	21	6 28.6	21.2
160169 2001 UJ_{149}	16.9	X	247.22546	325.60593	57.52294	4.05610	0.1672475	0.23243710	2.6197856	21	5 28.3	20.7
160170 2001 VM_{40}	16.1	X	81.55554	66.95358	47.04581	4.44122	0.1545661	0.21714701	2.7413647	21	4 3.3	19.5
160171 2001 VJ_{48}	16.1	X	349.43899	293.83092	75.22623	7.10741	0.1080956	0.29219011	2.2491877	21	11 4.2	18.1
160172 2001 VP_{78}	15.8	X	33.77275	261.86874	105.06850	22.23084	0.2083629	0.29993818	2.2102847	21	—	—
160173 2001 VR_{125}	16.2	X	93.94239	63.55202	72.93486	6.67705	0.0540550	0.22431229	2.6826705	21	5 4.6	19.8
160174 2001 WZ_{7}	16.6	X	216.52186	357.52827	105.34747	5.87170	0.2147284	0.23467869	2.6030766	21	8 5.9	20.8
160175 2001 WN_{28}	15.7	X	25.50024	90.72070	83.12487	9.93999	0.2496564	0.21638913	2.7477618	21	3 24.8	18.1
160176 2001 WN_{29}	16.9	X	217.88451	293.53238	150.56675	4.00861	0.2786628	0.23256464	2.6188277	21	7 9.5	21.5
160177 2001 WA_{58}	16.9	X	104.66613	44.44844	231.93631	2.26198	0.1772396	0.30037818	2.2081257	21	12 8.3	20.2
160178 2001 WK_{61}	16.5	X	69.66742	212.53713	47.81794	9.18670	0.1110048	0.29001861	2.2604009	21	10 5.2	19.3
160179 2001 WD_{75}	16.4	X	296.96864	244.83874	67.39785	4.14741	0.2089037	0.23205107	2.6226902	21	4 18.5	19.8
160180 2001 WH_{77}	16.2	X	82.70628	82.26186	65.41406	8.32517	0.0992858	0.22379455	2.6868065	21	5 10.7	19.6
160181 2001 WH_{88}	16.6	X	120.05220	69.00987	8.30722	3.23606	0.0927910	0.21966839	2.7203472	21	3 26.4	20.4
160182 2001 WJ_{102}	16.3	X	207.35663	359.02331	104.59404	5.59507	0.1510803	0.23452314	2.6042275	21	8 2.2	20.4
160183 2001 XA_{73}	15.9	X	155.47881	189.52409	211.73393	4.59491	0.0641579	0.22008322	2.7169278	21	3 17.5	19.7
160184 2001 XM_{114}	16.0	X	62.77699	81.16531	61.63291	7.76093	0.2430835	0.21567474	2.7538262	21	4 27.6	18.9
160185 2001 XF_{117}	15.9	X	253.19878	74.80817	327.84559	6.29898	0.1021975	0.28011132	2.3133905	21	7 9.2	18.9
160186 2001 XB_{123}	16.9	X	221.75248	275.79131	134.89191	3.45803	0.1615863	0.23115494	2.6294642	21	6 8.2	21.0
160187 2001 XU_{165}	16.1	X	90.90763	336.07479	102.03417	5.89720	0.0476488	0.21323279	2.7748109	21	2 13.8	19.8
160188 2001 XA_{187}	16.2	X	357.04030	60.86633	110.56336	4.23686	0.1294477	0.25979954	2.4324493	21	1 10.9	18.8
160189 2001 XS_{194}	16.4	X	148.89501	224.40023	265.48524	2.88060	0.0886285	0.27534808	2.3399937	21	7 5.7	19.4
160190 2001 XA_{204}	16.2	X	185.80288	268.09798	129.32508	5.04764	0.1087824	0.22399820	2.6851777	21	4 20.4	20.3
160191 2001 XK_{212}	15.9	X	195.43838	252.43193	124.81249	5.31064	0.1043698	0.22118841	2.7078700	21	4 5.3	20.1
160192 2001 YU_{11}	16.4	X	47.72717	44.02665	302.43063	3.07168	0.1423852	0.29749808	2.2223542	21	—	—
160193 2001 YH_{48}	16.1	X	7.78451	78.95947	79.48383	10.18485	0.1599527	0.21080249	2.7960969	21	1 23.3	19.3
160194 2001 YK_{67}	15.7	X	306.02288	93.21362	84.80062	12.26497	0.0633414	0.20435205	2.8546314	21	—	—
160195 2001 YF_{73}	16.0	X	18.99700	41.72044	94.09282	9.87932	0.0542521	0.20858130	2.8159124	21	1 18.8	19.5
160196 2001 YT_{84}	17.0	X	145.66723	346.02482	105.06285	9.65208	0.2376848	0.22116187	2.7080866	21	5 25.9	21.7
160197 2001 YP_{139}	15.8	X	141.73067	330.49773	135.76896	15.05715	0.1572260	0.22209512	2.7004950	21	6 5.7	20.3
160198 2001 YH_{151}	16.5	X	39.63591	30.69132	318.56876	7.26978	0.1533329	0.29511984	2.2342775	21	12 31.3	19.4
160199 2002 AJ_{45}	15.8	X	288.08805	224.54384	202.36664	3.11524	0.1227260	0.18670773	3.0317578	21	9 18.7	19.8
160200 2002 AT_{111}	15.9	X	183.50586	75.37389	91.43119	3.26833	0.1481025	0.18246613	3.0785618	21	9 25.3	20.8
160201 2002 AP_{151}	15.4	X	88.13007	302.40392	323.64625	14.12708	0.1715287	0.23113023	2.6296516	21	10 24.0	19.6
160202 2002 BG_{20}	14.9	X	118.38307	28.90521	136.78060	6.11242	0.1310039	0.17013321	3.2255961	21	7 21.1	19.8
160203 2002 BH_{31}	15.8	X	195.27107	162.02842	110.59598	8.21614	0.1160003	0.24549119	2.5260704	21	—	—
160204 2002 CT_{30}	16.5	X	342.01584	359.09199	17.54543	5.24324	0.2004864	0.28851475	2.2682488	21	11 4.7	17.8
160205 2002 CF_{35}	15.1	X	151.74350	239.04790	30.75327	13.91684	0.1756094	0.23892908	2.5721130	21	—	—
160206 2002 CZ_{35}	15.8	X	27.01828	209.92210	168.72335	6.76420	0.1858362	0.29464174	2.2366938	21	—	—
160207 2002 CE_{39}	15.9	X	265.22810	358.64974	138.86417	10.67145	0.0523070	0.19025373	2.9939688	21	11 29.5	20.2
160208 2002 CY_{77}	15.9	X	194.99605	62.93085	128.29171	10.86154	0.0671632	0.18645359	3.0345121	21	11 11.5	20.6
160209 2002 CA_{96}	15.3	X	226.72016	353.39357	149.50499	10.84993	0.0725531	0.18347850	3.0672270	21	10 17.9	19.9
160210 2002 CP_{110}	15.2	X	147.80666	57.84112	86.89035	2.30213	0.1321813	0.17081742	3.2169769	21	7 25.7	20.1
160211 2002 CQ_{196}	15.7	X	191.55024	49.42565	127.16345	9.94058	0.0284814	0.18452052	3.0556687	21	10 23.9	20.3
160212 2002 CM_{198}	15.7	X	316.22374	311.78771	139.18477	9.61617	0.0579160	0.19061000	2.9902369	21	12 8.7	19.7
160213 2002 CS_{252}	15.4	X	173.39050	130.67515	100.68545	10.20312	0.0486818	0.19057979	2.9905529	21	12 5.2	19.8
160214 2002 CD_{257}	14.8	X	55.45271	152.93994	117.90049	11.65753	0.0531441	0.17791613	3.1308277	21	9 9.6	19.2
160215 Haines–Stiles	15.9	X	222.53207	193.90250	128.27807	3.13316	0.1965872	0.25717156	2.4489923	21	2 15.9	19.8
160216 2002 ES_{28}	16.6	X	217.31942	42.10548	159.98412	8.20474	0.1509300	0.23844273	2.5756094	21	12 15.1	20.4
160217 2002 EZ_{39}	15.7	X	265.40972	288.71278	171.47083	10.19582	0.0973909	0.18232768	3.0801200	21	10 5.9	19.9
160218 2002 EQ_{61}	16.0	X	191.83880	155.12055	184.15737	6.11160	0.1480337	0.25511266	2.4621511	21	2 7.4	19.8
160219 2002 EM_{112}	16.0	X	155.87809	72.25957	52.82489	1.82015	0.1476082	0.16990083	3.2285366	21	7 10.0	21.2
160220 2002 FP_{20}	15.7	X	147.15170	163.57920	51.89038	11.10143	0.1829246	0.22871142	2.6481596	21	10 25.9	20.1
160221 2002 FL_{32}	15.8	X	288.66716	344.74073	41.63090	7.79930	0.2316738	0.27991970	2.3144461	21	7 14.7	18.6
160222 2002 GF_{24}	15.3	X	18.83798	273.93043	33.11782	9.56858	0.1308580	0.21834561	2.7313231	21	9 18.4	18.5
160223 2002 GK_{46}	15.1	X	212.02468	327.98884	179.41268	28.11312	0.1506585	0.17942756	3.1132209	21	9 26.9	19.9
160224 2002 GT_{59}	15.5	X	140.95983	4.52552	260.87460	9.96942	0.1207249	0.23349275	2.6118834	21	12 17.0	19.5
160225 2002 GC_{60}	15.6	X	100.30215	99.59317	136.78593	15.03664	0.1388447	0.22031525	2.7150199	21	10 7.4	19.9
160226 2002 GZ_{93}	16.1	X	138.42567	66.83081	224.81547	8.82332	0.1254617	0.23556923	2.5965120	21	—	—
160227 2002 GK_{107}	16.0	X	207.55403	71.88214	109.06317	13.65514	0.2173547	0.18350733	3.0669058	21	11 2.0	21.3
160228 2002 GQ_{112}	15.8	X	185.44706	94.33025	62.71793	9.39681	0.3059672	0.17686722	3.1431937	21	9 14.2	21.6
160229 2002 GN_{144}	15.5	X	210.85625	69.97062	89.00043	12.89495	0.2779460	0.18116168	3.0933222	21	10 7.1	21.0
160230 2002 GY_{181}	15.7	X	73.20156	186.95034	218.30605	8.95163	0.0901686	0.24214200	2.5493099	21	—	—
160231 2002 HA	15.4	X	69.17463	145.48023	153.15351	13.99846	0.2663506	0.22337526	2.6901676	21	12 2.7	19.9
160232 2002 HP_{7}	15.9	X	102.77114	84.57867	183.99100	4.56588	0.1257981	0.22654756	2.6649954	21	11 14.1	19.9
160233 2002 JQ_{14}	15.4	X	183.25468	139.68764	68.80671	18.86401	0.1407435	0.23264540	2.6182216	21	11 19.8	19.5
160234 2002 JM_{23}	14.1	X	172.90642	137.26136	65.91782	9.49531	0.1659585	0.12628425	3.9346242	21	10 24.3	20.4
160235 2002 JP_{37}	15.2	X	39.20047	90.36083	247.08788	11.41194	0.2873377	0.22315656	2.6919249	21	12 18.6	18.9
160236 2002 JH_{56}	15.4	X	52.83323	184.95146	51.35477	8.80250	0.2006388	0.21356977	2.7718913	21	8 16.7	19.0
160237 2002 JX_{100}	15.1	X	73.88898	254.63724	71.50063	28.24846	0.2252231	0.22960690	2.6412698	21	12 31.4	19.5
160238 2002 JG_{111}	15.3	X	35.48821	216.95507	45.21274	14.44983	0.1644252	0.21305250	2.7763761	21	8 22.4	18.8
160239 2002 JR_{118}	15.8	X	89.98912	137.13454	150.28258	13.04639	0.2720422	0.22606289	2.6688031	21	12 7.4	20.5
160240 2002 JO_{119}	15.5	X	56.74838	199.13997	90.78804	13.61191	0.2584127	0.22159126	2.7045871	21	11 10.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160241 2002 JO_{145}	15.7	X	9.55001	328.78387	140.63539	15.61540	0.0112625	0.24303455	2.5430645	21	—	—
160242 2002 MX_{1}	14.9	X	259.41784	277.30374	106.53105	27.74220	0.1666308	0.20420023	2.8560462	21	6 16.3	19.3
160243 2002 NM_{32}	14.0	X	96.59056	127.70898	276.42083	20.67124	0.0286573	0.17924728	3.1153081	21	1 10.8	18.4
160244 2002 NN_{35}	15.2	X	168.13143	62.17473	245.01646	8.96421	0.1860573	0.17955045	3.1118003	21	—	—
160245 2002 NZ_{56}	15.4	X	261.76172	310.55147	322.82931	8.70022	0.1054234	0.18902095	3.0069722	21	2 7.4	19.8
160246 2002 OV_{2}	14.5	X	140.30054	92.23040	273.13163	9.33073	0.1604446	0.17959096	3.1113323	21	1 31.3	19.4
160247 2002 OF_{3}	14.5	X	205.20501	112.68466	242.24795	9.75926	0.1446678	0.18764999	3.0216004	21	3 15.3	19.6
160248 2002 ON_{7}	14.8	X	187.42980	95.05833	230.24676	7.99862	0.1382076	0.18296907	3.0729178	21	1 26.5	19.8
160249 2002 PH_{23}	15.1	X	257.80897	117.32912	170.55330	10.56950	0.0578651	0.18958156	3.0010414	21	2 23.6	19.6
160250 2002 PZ_{32}	14.9	X	212.93182	24.93108	307.17417	9.43505	0.1020038	0.18826565	3.0150093	21	2 25.5	19.6
160251 2002 PF_{41}	14.5	X	110.86644	39.38282	324.36071	12.25452	0.1985939	0.17287169	3.1914408	21	1 8.8	19.1
160252 2002 PW_{41}	14.7	X	200.93676	320.26331	359.16530	14.80684	0.2397246	0.18180361	3.0860365	21	2 9.1	20.2
160253 2002 PH_{49}	15.2	X	211.07545	155.89375	204.07134	9.65620	0.0923441	0.19039954	2.9924400	21	3 30.6	19.8
160254 2002 PF_{69}	14.9	X	210.21433	51.73203	307.18939	21.67408	0.2266589	0.18961154	3.0007251	21	3 15.4	20.5
160255 2002 PJ_{131}	14.6	X	189.50706	339.56980	290.82803	22.61311	0.1378484	0.17497592	3.1658028	21	—	—
160256 2002 PD_{149}	6.3	X	234.92305	35.35766	103.44697	4.90611	0.0559677	0.00346821	43.2247606	21	10 4.4	22.8
160257 2002 QW_{24}	14.2	X	121.37109	98.84016	271.44366	25.65481	0.0816381	0.17611496	3.1521380	21	1 7.2	18.8
160258 2002 QB_{25}	16.3	X	69.77168	101.73735	238.24727	19.01808	0.1182409	0.37408943	1.9075932	21	—	—
160259 Mareike	15.1	X	309.85727	270.07110	88.07832	2.05146	0.0685131	0.15178327	3.4805947	21	7 29.1	19.7
160260 2002 QZ_{104}	15.4	X	316.28966	300.59550	287.44923	7.26775	0.1911881	0.19078858	2.9883707	21	1 31.8	19.5
160261 2002 RZ_{5}	15.1	X	154.00400	215.47382	166.53305	10.00689	0.1059029	0.18517008	3.0485186	21	3 1.6	19.7
160262 2002 RO_{8}	14.9	X	152.82268	219.27063	173.75274	11.53236	0.0915001	0.18562584	3.0435265	21	3 12.4	19.5
160263 2002 RE_{13}	13.8	X	46.05400	35.06665	359.69199	18.50164	0.1019179	0.16834886	3.2483483	21	—	—
160264 2002 RF_{64}	14.9	X	171.26247	151.92357	184.28157	13.36892	0.2090224	0.17776060	3.1326537	21	1 29.1	20.3
160265 2002 RH_{75}	14.6	X	105.80146	247.78067	171.30884	12.41185	0.2439807	0.18033681	3.1027477	21	3 12.4	19.1
160266 2002 SO_{15}	14.0	X	126.08540	109.54941	277.71902	15.53329	0.1550504	0.17779824	3.1322115	21	2 7.9	18.9
160267 2002 SY_{18}	14.9	X	165.33361	250.34601	130.79676	16.79702	0.2490902	0.18405712	3.0607954	21	3 25.2	20.4
160268 2002 SP_{20}	15.4	X	112.15544	272.59101	103.91633	2.30692	0.1687928	0.17550612	3.1594237	21	1 18.9	19.8
160269 2002 SW_{51}	14.9	X	158.34706	216.77228	124.51688	12.35998	0.1282218	0.17814674	3.1281252	21	1 20.5	19.7
160270 2002 TU_{59}	16.6	X	60.78274	246.73774	29.25250	21.47969	0.0696991	0.36309270	1.9459173	21	10 17.3	18.4
160271 2002 TN_{60}	16.7	X	30.42844	322.79183	45.33484	21.30476	0.0699467	0.37144057	1.9166515	21	—	—
160272 2002 TW_{64}	16.0	X	30.14998	283.85088	57.01755	23.26653	0.1313587	0.36558053	1.9370791	21	12 15.0	18.2
160273 2002 TS_{110}	14.5	X	92.58563	250.11368	128.25226	17.03012	0.1966679	0.17107970	3.2136882	21	1 2.2	18.8
160274 2002 TX_{118}	14.9	X	209.76141	322.47279	320.76948	9.36199	0.1895212	0.17684038	3.1435118	21	1 2.8	20.3
160275 2002 TH_{130}	14.9	X	171.74816	238.74466	145.05921	11.09669	0.1370031	0.18505884	3.0497401	21	3 26.2	19.8
160276 2002 TH_{216}	15.0	X	118.13143	266.41008	110.36688	11.02116	0.2524057	0.17559430	3.1583658	21	2 6.3	19.8
160277 2002 TX_{222}	14.6	X	132.35015	65.41644	272.70619	17.08162	0.1521381	0.17195551	3.2027668	21	—	—
160278 2002 TQ_{236}	14.0	X	112.63792	160.67369	247.33075	16.07333	0.1994859	0.17704202	3.1411244	21	2 21.8	19.0
160279 2002 TJ_{376}	14.7	X	151.74025	27.53240	294.29699	13.33117	0.2141227	0.17202798	3.2018673	21	1 1.4	19.9
160280 2002 UF_{5}	15.0	X	154.80494	152.66216	142.81894	6.54804	0.1560123	0.17071808	3.2182248	21	—	—
160281 2002 WO	16.5	X	22.88406	140.13056	276.84199	17.52050	0.1094551	0.36929342	1.9240735	21	—	—
160282 2002 YL_{10}	16.6	X	12.70966	47.37051	104.48419	4.20261	0.1460289	0.27356204	2.3501675	21	1 3.3	18.9
160283 2003 AH_{38}	17.0	X	39.18154	344.89931	153.52513	5.46853	0.1654168	0.27505201	2.3416726	21	2 3.3	18.9
160284 2003 AX_{67}	16.8	X	93.83455	347.11089	122.23949	4.02622	0.1789351	0.28042511	2.3116644	21	4 11.4	19.3
160285 2003 AC_{83}	16.3	X	111.81449	116.31676	90.17276	4.27849	0.0641981	0.24138695	2.5546232	21	9 2.4	19.9
160286 2003 BC_{40}	16.5	X	81.13776	121.33229	117.26563	5.81359	0.0471736	0.24146842	2.5540486	21	9 3.8	19.8
160287 2003 BO_{58}	17.6	X	341.00632	10.28393	119.86766	3.17629	0.1762414	0.26425434	2.4050344	21	—	—
160288 2003 BD_{65}	17.1	X	46.42321	355.98923	118.19400	3.17668	0.1203474	0.27305443	2.3530793	21	1 13.6	19.3
160289 2003 BM_{66}	16.3	X	116.45664	43.10627	135.64127	2.97160	0.1355424	0.23507594	2.6001432	21	8 7.2	20.0
160290 2003 BV_{82}	16.5	X	116.28466	101.72288	96.11059	8.53699	0.2020078	0.23797315	2.5789964	21	9 10.6	20.7
160291 2003 CP_{6}	16.7	X	183.51620	131.74399	19.90711	4.11524	0.1653410	0.24275408	2.5450229	21	9 9.9	20.8
160292 2003 DM_{6}	17.4	X	321.47884	5.82461	110.59160	2.59903	0.1375853	0.25895698	2.4377227	21	—	—
160293 2003 DK_{24}	15.7	X	79.56253	111.43857	105.60906	15.51883	0.2431165	0.23239371	2.6201116	21	9 3.6	19.8
160294 2003 EB_{33}	16.4	X	97.06923	273.29505	2.41696	4.86187	0.1717585	0.29610668	2.2293106	21	11 28.3	19.8
160295 2003 EY_{49}	16.4	X	30.57301	270.94170	352.19716	6.22168	0.1691300	0.28334573	2.2957518	21	8 14.5	18.3
160296 2003 FE_{12}	16.2	X	24.68612	303.49975	358.43636	6.77799	0.1355976	0.28774399	2.2722976	21	9 26.6	18.3
160297 2003 FV_{22}	16.4	X	93.07350	63.33827	93.30901	3.99605	0.1520985	0.22715625	2.6602325	21	6 13.2	20.0
160298 2003 FD_{72}	16.2	X	131.67061	12.23409	140.07677	9.95072	0.1843815	0.23131016	2.6282878	21	7 23.2	20.5
160299 2003 FN_{90}	15.5	X	13.24331	295.03635	0.43118	23.92790	0.1955592	0.28355408	2.2946271	21	9 9.8	17.4
160300 2003 FR_{91}	16.6	X	199.42657	24.85607	107.42701	6.25832	0.1993792	0.23883795	2.5727672	21	8 30.0	20.8
160301 2003 FQ_{100}	16.2	X	64.23811	73.04868	91.89318	5.33917	0.1580722	0.22335309	2.6903456	21	5 16.1	19.3
160302 2003 FZ_{101}	15.8	X	50.15725	35.07982	159.27544	13.23459	0.1856442	0.22370498	2.6875235	21	6 8.3	19.1
160303 2003 FE_{111}	16.6	X	2.02543	155.28831	105.34605	7.40850	0.2175003	0.27827871	2.3235359	21	5 30.6	18.0
160304 2003 GW_{1}	16.0	X	237.26578	129.58312	156.63355	8.74182	0.2556939	0.25894663	2.4377877	21	1 13.5	20.4
160305 2003 GK_{2}	15.7	X	94.74827	159.29543	49.90927	2.48011	0.1153659	0.17796316	3.1302761	21	8 18.1	20.2
160306 2003 GE_{5}	16.6	X	354.81019	65.79083	224.80867	1.89123	0.1877768	0.28017950	2.3130151	21	7 4.6	18.2
160307 2003 GA_{6}	16.4	X	344.30987	191.19832	63.09814	3.29904	0.1623769	0.27297331	2.3535454	21	4 13.4	18.6
160308 2003 GX_{12}	15.4	X	69.14485	119.43916	88.38162	1.57947	0.1625434	0.17309210	3.1887310	21	7 21.4	19.7
160309 2003 GT_{16}	15.5	X	356.80962	114.59998	140.20544	15.80377	0.0706529	0.22599367	2.6693480	21	5 25.2	19.1
160310 2003 GA_{32}	17.1	X	7.17705	108.00740	151.08214	2.37938	0.1954907	0.27808507	2.3246145	21	6 11.0	18.5
160311 2003 GA_{37}	15.7	X	112.87796	66.93746	128.15431	12.41865	0.1745649	0.23422129	2.6064644	21	8 30.6	19.7
160312 2003 GT_{39}	16.6	X	110.62971	109.26623	46.34707	7.79709	0.2178235	0.22830234	2.6513220	21	7 11.4	20.8
160313 2003 HX_{28}	16.5	X	56.69524	15.11114	259.43401	3.12959	0.1205627	0.28786951	2.2716370	21	10 3.1	19.1
160314 2003 HZ_{42}	16.5	X	338.24776	99.14665	136.61764	2.54004	0.1561220	0.26902373	2.3765247	21	3 6.6	19.1
160315 2003 HO_{49}	14.9	X	100.79169	75.90261	246.64525	26.27322	0.3433278	0.23604587	2.5930155	21	—	—
160316 2003 HD_{51}	16.1	X	327.03615	125.46513	125.69509	7.02651	0.1074381	0.26843116	2.3800208	21	3 21.3	18.8
160317 2003 JE_{5}	16.5	X	83.95082	108.80294	52.46626	13.68959	0.2086096	0.22378317	2.6868975	21	6 14.7	20.3
160318 2003 JR_{8}	14.9	X	119.96703	149.61009	76.76934	20.16740	0.1794312	0.18049739	3.1009071	21	10 18.9	20.2
160319 2003 JQ_{10}	16.5	X	288.44046	126.20900	162.26829	5.01100	0.2348651	0.26692835	2.3889455	21	2 28.3	19.9
160320 2003 KF_{12}	16.3	X	358.07264	83.61437	106.63387	9.49127	0.2269419	0.21310476	2.7759222	21	2 9.2	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160321 2003 KP_{13}	15.0	X	122.11700	146.23859	88.57911	14.37577	0.1140826	0.18361213	3.0657387	21	10 23.5	20.0
160322 2003 LA_{4}	16.1	X	282.87688	347.07574	267.21002	4.30523	0.1665594	0.26094436	2.4253296	21	1 18.4	19.6
160323 2003 MZ_{8}	16.2	X	187.02416	129.42914	140.25155	4.63861	0.1724290	0.24517651	2.5282313	21	—	—
160324 2003 ME_{10}	16.0	X	51.12168	344.00582	293.39638	9.46342	0.2820297	0.22323375	2.6913043	21	10 12.9	19.9
160325 2003 NV_{1}	14.2	X	114.27565	351.59463	292.53513	19.12014	0.1574923	0.17316572	3.1878271	21	12 7.6	19.5
160326 2003 NF_{7}	15.7	X	217.26706	25.34383	325.97476	7.39136	0.2393212	0.25804465	2.4434651	21	3 15.5	20.1
160327 2003 NJ_{10}	16.5	X	61.34705	24.76687	241.90352	5.61943	0.0979193	0.27844615	2.3226044	21	9 22.5	19.5
160328 2003 OG_{4}	16.0	X	98.39861	260.08473	133.50155	7.26925	0.1825330	0.24471081	2.5314379	21	1 7.8	18.8
160329 2003 OC_{31}	16.5	X	120.76908	10.63150	316.75950	9.14853	0.3007407	0.23788984	2.5795986	21	—	—
160330 2003 QN_{42}	15.7	X	55.11174	154.38515	186.62924	10.16926	0.2626585	0.22708085	2.6608213	21	—	—
160331 2003 QS_{57}	15.6	X	193.59115	112.51475	138.45053	12.64615	0.1142876	0.23838499	2.5760252	21	—	—
160332 2003 QU_{60}	15.0	X	20.54741	272.78750	7.78900	11.82610	0.1357679	0.21451335	2.7637568	21	8 15.6	18.3
160333 2003 QC_{79}	15.2	X	133.54408	30.49358	332.98545	4.56140	0.3200303	0.23814114	2.5777834	21	2 3.0	19.2
160334 2003 QH_{109}	15.6	X	72.00393	13.93739	302.27153	13.95815	0.2016465	0.22923119	2.6441550	21	12 18.6	19.8
160335 2003 RK_{3}	15.6	X	50.07758	99.56478	264.97272	10.60715	0.1920419	0.23072286	2.6327460	21	—	—
160336 2003 RW_{4}	15.7	X	83.24472	138.28891	190.44790	13.99609	0.1745400	0.23057532	2.6338690	21	—	—
160337 2003 RF_{18}	15.6	X	148.18210	340.99842	322.92054	12.94197	0.2824965	0.23930112	2.5694464	21	—	—
160338 2003 SR_{52}	15.5	X	35.82980	358.51552	316.53340	4.80986	0.1957566	0.22174479	2.7033385	21	10 30.6	18.9
160339 2003 SY_{66}	15.6	X	336.61324	169.78253	164.11075	2.98989	0.1101875	0.21196080	2.7859010	21	8 4.9	18.6
160340 2003 SB_{100}	15.1	X	24.13677	49.16648	274.34100	15.51284	0.2834491	0.22370897	2.6874916	21	11 6.4	18.4
160341 2003 ST_{103}	15.5	X	326.67544	4.32772	342.31790	3.37992	0.1093469	0.21319968	2.7750981	21	8 7.2	18.6
160342 2003 SW_{103}	15.7	X	339.43851	191.07734	184.38689	5.07592	0.1269602	0.21883087	2.7272837	21	10 10.2	18.6
160343 2003 SP_{139}	15.3	X	349.39336	326.62240	32.24379	14.12437	0.2036061	0.21910822	2.7249817	21	10 11.1	17.8
160344 2003 SG_{145}	15.2	X	324.99535	100.53143	249.85646	4.92929	0.0710923	0.21147162	2.7901957	21	8 10.1	18.7
160345 2003 SJ_{175}	15.9	X	199.09914	38.34591	168.91056	2.91165	0.0292907	0.22926426	2.6439007	21	12 12.8	19.4
160346 2003 SB_{296}	15.5	X	22.19828	339.60613	292.08231	8.09155	0.1063494	0.21140227	2.7908058	21	7 27.4	18.6
160347 2003 TL_{16}	15.5	X	294.66747	112.42301	267.90507	2.65569	0.1078106	0.21047956	2.7989561	21	8 1.2	19.1
160348 2003 TY_{20}	15.7	X	46.28186	189.13210	149.01564	10.21136	0.2075583	0.22416099	2.6838775	21	12 17.9	19.6
160349 2003 UA_{28}	15.5	X	21.77807	327.03953	28.45581	6.66557	0.0502900	0.22317118	2.6918073	21	11 12.7	18.9
160350 2003 UY_{49}	15.2	X	355.21924	260.48070	91.44717	10.19237	0.1571495	0.21684736	2.7438895	21	10 12.9	18.3
160351 2003 UZ_{85}	14.9	X	181.00019	7.82245	13.16694	15.15751	0.0889132	0.19151840	2.9807739	21	3 27.6	19.3
160352 2003 UJ_{138}	15.1	X	148.90614	126.74960	202.97589	9.40535	0.1136542	0.18106170	3.0944608	21	—	—
160353 2003 UV_{162}	15.2	X	337.70384	293.51083	67.04178	6.38853	0.1453651	0.21515951	2.7582207	21	9 17.9	18.1
160354 2003 UO_{198}	15.4	X	340.81540	163.72336	157.47830	4.66203	0.1009872	0.21049505	2.7988189	21	7 25.4	18.5
160355 2003 UT_{226}	13.9	X	120.63508	315.03626	91.22169	29.83108	0.2698738	0.18086235	3.0967342	21	3 30.6	19.4
160356 2003 UU_{278}	15.8	X	142.67989	43.16995	280.63040	3.03448	0.3008297	0.23703465	2.5857994	21	—	—
160357 2003 WF_{117}	15.7	X	344.79107	54.24406	270.91672	8.93001	0.3691826	0.21250560	2.7811375	21	7 18.8	17.0
160358 2003 WE_{159}	14.5	X	3.91276	7.22061	75.45967	24.15346	0.1239109	0.17057199	3.2200621	21	—	—
160359 2003 XV_{6}	14.7	X	183.98428	79.80441	253.14506	20.90749	0.0099691	0.17985139	3.1083280	21	1 22.2	19.5
160360 2003 XU_{12}	14.7	X	348.80616	9.61050	343.55795	16.10012	0.2543544	0.21159491	2.7891117	21	9 23.3	16.9
160361 2003 YD_{66}	15.9	X	111.56507	233.98160	148.03133	6.79684	0.3622640	0.23724503	2.5842705	21	2 8.6	19.4
160362 2003 YP_{90}	14.5	X	130.19950	252.08360	85.56602	27.28894	0.2009472	0.17832443	3.1260468	21	—	—
160363 2003 YP_{107}	14.8	X	31.28449	59.62266	318.91990	10.62526	0.3060154	0.22355889	2.6886943	21	—	—
160364 2004 BW_{115}	15.3	X	40.97347	47.13603	42.63651	5.23213	0.1379872	0.17266767	3.1939543	21	1 3.0	19.1
160365 2004 DC_{66}	17.7	X	16.81805	131.24678	117.62276	2.92145	0.1730812	0.29689800	2.2253476	21	6 16.4	18.9
160366 2004 ER_{16}	16.6	X	359.95522	75.82415	143.65038	6.72151	0.1735657	0.28900866	2.2656638	21	3 16.9	18.5
160367 2004 EN_{37}	13.8	X	129.93719	89.37787	298.34608	23.79545	0.2900948	0.17502356	3.1652283	21	2 21.8	19.3
160368 2004 EY_{42}	16.9	X	333.87513	171.58361	114.10733	3.80437	0.1233624	0.29482989	2.2357421	21	5 16.3	18.9
160369 2004 FW_{34}	17.2	X	55.48294	88.14481	136.84688	4.01210	0.1077247	0.29913621	2.2142334	21	7 18.2	19.3
160370 2004 FK_{36}	16.9	X	258.41907	167.97860	70.66276	3.18254	0.1520460	0.27479692	2.3431215	21	—	—
160371 2004 FG_{47}	17.1	X	337.12422	165.15976	113.97103	5.51139	0.1492695	0.29468122	2.2364940	21	5 9.1	19.1
160372 2004 FC_{51}	16.9	X	313.55162	144.61825	95.18093	4.48085	0.1326289	0.28380348	2.2932826	21	2 5.6	19.6
160373 2004 FU_{63}	16.9	X	210.58307	166.00402	83.25566	2.43571	0.1540657	0.26818752	2.3814621	21	—	—
160374 2004 GR_{22}	17.2	X	330.44343	59.20147	169.54214	3.19938	0.1254255	0.28396954	2.2923885	21	2 13.1	19.9
160375 2004 HG_{6}	16.6	X	151.45022	150.00725	79.38305	4.34217	0.1647593	0.25377929	2.4707678	21	11 16.4	20.5
160376 2004 HS_{27}	17.0	X	291.41954	80.03197	159.41992	5.12866	0.1107122	0.27842759	2.3227076	21	1 11.6	20.2
160377 2004 HY_{27}	16.7	X	15.76427	161.42479	60.84059	7.86556	0.0508041	0.28962918	2.2624266	21	4 30.2	19.0
160378 2004 HN_{30}	17.0	X	241.96677	170.15578	54.29830	3.78932	0.1191970	0.26834217	2.3805470	21	—	—
160379 2004 HX_{59}	16.0	X	254.08052	156.11765	106.77089	5.54294	0.2304667	0.21628582	2.7486368	21	1 6.3	20.5
160380 2004 HB_{67}	15.6	X	17.15318	239.09897	63.10670	9.85586	0.0878905	0.18500094	3.0503763	21	9 2.2	19.6
160381 2004 JV_{6}	17.5	X	355.83973	104.86552	100.09920	1.88356	0.0476202	0.28297626	2.2977497	21	3 3.6	20.0
160382 2004 JX_{16}	16.8	X	98.89144	55.19926	106.42205	6.99144	0.0351625	0.29235142	2.2483603	21	6 8.0	19.4
160383 2004 JL_{19}	16.8	X	306.28305	166.02373	33.52204	4.49750	0.0594088	0.27407782	2.3472181	21	—	—
160384 2004 JA_{30}	16.4	X	285.46119	166.00711	69.07573	7.35659	0.0561757	0.27518770	2.3409027	21	1 6.8	19.4
160385 2004 JJ_{35}	16.5	X	126.70416	162.69627	105.60536	6.90454	0.0954855	0.25343734	2.4729898	21	12 9.9	20.2
160386 2004 JX_{37}	16.3	X	245.83612	126.76927	106.41103	12.46213	0.2204113	0.26819912	2.3813934	21	—	—
160387 2004 JS_{44}	16.7	X	344.94619	128.44460	96.39782	8.09188	0.0621461	0.28318994	2.2965937	21	3 17.3	19.4
160388 2004 LC_{7}	16.7	X	60.84287	124.36050	67.31564	5.60000	0.1331893	0.29050335	2.2578857	21	6 9.3	18.8
160389 2004 LO_{23}	17.4	X	295.10853	47.33955	142.09620	2.99859	0.1151265	0.26956588	2.3733371	21	—	—
160390 2004 NQ_{8}	15.9	X	126.40565	114.20550	96.28512	12.73417	0.0822748	0.24055381	2.5605183	21	10 1.6	19.9
160391 2004 NJ_{20}	16.4	X	184.22646	93.58695	136.43609	13.16448	0.2228456	0.25430116	2.4673864	21	12 13.9	20.6
160392 2004 OJ_{7}	16.4	X	174.62987	165.76970	114.68562	14.67491	0.2013066	0.20041955	2.8918515	21	—	—
160393 2004 PZ_{6}	16.1	X	18.89299	88.04512	150.10779	12.40610	0.2041296	0.22603087	2.6690552	21	6 11.2	18.8
160394 2004 PB_{23}	15.5	X	358.18700	214.04206	133.94022	7.11055	0.0978488	0.17832292	3.1260645	21	9 30.1	19.4
160395 2004 PF_{74}	15.4	X	287.78383	344.16966	122.15988	12.31908	0.0678577	0.18600751	3.0393617	21	11 19.3	19.6
160396 2004 PY_{84}	16.8	X	60.32177	196.44503	151.73452	8.16752	0.1892115	0.30095563	2.2053003	21	—	—
160397 2004 PJ_{85}	16.4	X	61.75561	302.24731	10.90445	7.20581	0.2386197	0.29726176	2.2235318	21	12 18.6	19.8
160398 2004 PT_{103}	16.2	X	7.75005	64.29780	270.95241	5.57294	0.1529987	0.28890904	2.2661846	21	10 17.2	18.3
160399 2004 PA_{105}	16.3	X	48.46707	27.69135	297.75932	5.72884	0.1397722	0.29629411	2.2283703	21	12 7.5	19.1
160400 2004 RO_{5}	16.8	X	121.55428	171.72588	91.63021	8.11634	0.1802881	0.30189012	2.2007470	21	12 7.9	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160401 2004 RC_{120}	16.1	X	333.81317	333.62167	145.79730	2.39819	0.1433193	0.19168076	2.9790905	21	—	—
160402 2004 RU_{192}	16.3	X	34.94675	108.99453	213.14208	5.29993	0.2291549	0.29498881	2.2349391	21	11 29.7	18.9
160403 2004 RE_{194}	16.5	X	20.61150	16.05891	312.51997	6.52224	0.1252028	0.29089346	2.2558666	21	10 25.6	18.9
160404 2004 RC_{196}	15.4	X	329.66478	351.03266	4.03029	22.85381	0.1619408	0.28568980	2.2831769	21	9 6.7	17.4
160405 2004 RO_{201}	17.3	X	66.26582	323.33592	347.98542	6.89992	0.2266264	0.29811856	2.2192695	21	12 19.8	20.7
160406 2004 TR_{10}	16.6	X	149.03648	187.23402	89.34055	5.64071	0.2085715	0.30669775	2.1776880	21	—	—
160407 2004 TP_{115}	16.4	X	292.74856	359.70032	258.75416	5.53136	0.1178224	0.26223459	2.4173678	21	2 7.3	19.7
160408 2004 VD_{7}	17.0	X	346.71102	189.77626	135.13587	3.05347	0.1876360	0.28292788	2.2980116	21	8 15.8	18.2
160409 2004 VJ_{7}	17.0	X	356.87683	142.85756	197.81170	5.15495	0.1923068	0.28713654	2.2755012	21	10 10.8	18.6
160410 2004 VW_{15}	16.8	X	50.63136	190.34885	133.81383	8.85495	0.2135078	0.29502161	2.2347734	21	12 19.0	19.9
160411 2004 VC_{63}	16.5	X	21.09023	258.05484	70.53543	4.16506	0.1966951	0.28854654	2.2680823	21	11 11.5	18.8
160412 2004 XO_{8}	16.2	X	348.68513	309.08917	78.05266	4.62181	0.2140943	0.28946534	2.2632803	21	12 11.9	17.9
160413 2004 XF_{25}	15.7	X	81.17805	64.90388	286.13512	27.40416	0.1717684	0.23587423	2.5942733	21	—	—
160414 2004 XW_{32}	16.6	X	340.07601	246.21638	102.03231	3.64056	0.2318666	0.28362194	2.2942610	21	9 11.7	17.7
160415 2004 XA_{78}	16.6	X	341.47194	313.85838	49.12451	1.78859	0.1969670	0.28543116	2.2845559	21	10 11.2	18.0
160416 2004 YP_{2}	15.4	X	36.45521	41.43873	3.38705	14.80706	0.1641660	0.23636924	2.5906500	21	—	—
160417 2004 YL_{22}	15.8	X	13.37473	235.18477	121.14137	12.86457	0.1701031	0.22325187	2.6911587	21	11 22.5	19.1
160418 2005 AR_{8}	14.8	X	220.45869	308.88296	298.77499	26.61090	0.2153397	0.17568791	3.1572439	21	—	—
160419 2005 AA_{55}	15.4	X	161.95558	347.37343	8.53513	10.83322	0.2264234	0.25222312	2.4809201	21	2 11.6	19.5
160420 2005 AZ_{65}	16.2	X	2.30233	182.08254	181.06843	2.04046	0.0377432	0.22098018	2.7095708	21	10 26.5	19.5
160421 2005 BG_{13}	16.0	X	243.76884	24.69319	327.64987	1.35415	0.2205304	0.26288524	2.4133774	21	4 9.2	19.8
160422 2005 CD_{22}	15.4	X	347.16405	112.75172	118.47285	11.61299	0.0337758	0.19206609	2.9751047	21	4 15.5	19.6
160423 2005 EU_{10}	14.2	X	187.99969	356.72494	339.47983	16.32770	0.3125053	0.17801613	3.1296551	21	2 17.6	19.9
160424 2005 EM_{243}	14.3	X	143.36557	211.27494	134.79500	21.44895	0.1272516	0.17664445	3.1458358	21	1 11.7	19.2
160425 2005 JF	16.6	X	163.39756	206.47007	50.32791	6.33079	0.2159247	0.27371025	2.3493191	21	12 30.3	20.5
160426 2005 QL_{114}	15.3	X	15.41972	136.25376	129.72393	2.77828	0.1202624	0.17547265	3.1598254	21	7 8.6	19.0
160427 2005 RL_{43}	7.8	X	88.37345	170.77050	162.42167	12.25764	0.0447961	0.00811966	24.5156993	21	12 1.9	21.7
160428 2005 SV_{12}	16.2	X	260.72052	298.67639	8.26643	5.62437	0.0435809	0.22344313	2.6896228	21	3 20.9	19.8
160429 2005 SZ_{26}	17.0	X	108.49408	4.04983	47.27137	3.42129	0.1809292	0.27455094	2.3445208	21	2 10.8	19.6
160430 2005 SQ_{30}	15.6	X	87.09377	203.32206	128.14633	2.88282	0.0914269	0.19626365	2.9325323	21	—	—
160431 2005 ST_{33}	16.6	X	274.17481	47.50682	133.31245	4.54363	0.0241763	0.26288159	2.4133998	21	—	—
160432 2005 SF_{74}	17.3	X	163.79675	351.20346	281.11643	0.44578	0.1433545	0.26511679	2.3998157	21	—	—
160433 2005 SJ_{75}	16.3	X	203.53202	106.37135	0.61832	0.58524	0.1433086	0.17364979	3.1819001	21	7 31.9	21.4
160434 2005 SM_{75}	16.5	X	8.17360	33.39272	16.31531	2.33669	0.1214919	0.19488764	2.9463196	21	—	—
160435 2005 SA_{78}	16.2	X	335.36178	329.92761	162.31038	2.27852	0.0228178	0.20407471	2.8572172	21	—	—
160436 2005 SX_{128}	15.9	X	267.24029	186.61265	148.06491	9.33616	0.0932122	0.22781505	2.6551014	21	4 30.2	19.8
160437 2005 SS_{139}	16.8	X	304.87753	145.09904	36.34694	4.90454	0.0878240	0.26982347	2.3718264	21	—	—
160438 2005 SP_{140}	16.6	X	115.49299	55.44233	48.66213	4.44942	0.0642178	0.22250146	2.6972062	21	4 20.8	20.2
160439 2005 SS_{204}	16.5	X	182.12719	301.77304	49.18004	3.88539	0.1003991	0.21661668	2.7458372	21	2 18.5	20.6
160440 2005 SJ_{239}	16.6	X	106.12118	322.06117	81.29437	1.78409	0.0757211	0.21138706	2.7909396	21	1 24.1	20.3
160441 2005 SW_{252}	15.8	X	143.01585	239.60044	143.97396	5.71256	0.0751042	0.21427683	2.7657903	21	2 12.5	19.8
160442 2005 SE_{253}	15.0	X	307.74361	220.68952	111.99977	6.70081	0.1962653	0.17307047	3.1889967	21	6 5.4	19.0
160443 2005 TP_{36}	17.0	X	185.83296	308.17314	131.35316	1.25882	0.0930457	0.23052351	2.6342636	21	6 10.8	20.9
160444 2005 TP_{54}	16.9	X	192.27887	210.67513	177.13479	6.61008	0.1171202	0.28468637	2.2885387	21	4 8.5	20.1
160445 2005 TU_{78}	15.2	X	21.76356	278.08275	90.09736	16.83654	0.0718722	0.18741633	3.0241113	21	11 28.6	19.3
160446 2005 UG_{227}	16.8	X	213.56982	247.10148	190.32722	1.63327	0.0524609	0.23093045	2.6311680	21	7 11.3	20.5
160447 2005 UQ_{245}	16.8	X	235.91647	122.23165	116.28430	2.68912	0.0559629	0.26540109	2.3981016	21	—	—
160448 2005 UK_{433}	16.8	X	18.15505	107.54204	234.72795	1.44149	0.0668523	0.24324848	2.5415732	21	10 27.4	19.8
160449 2005 US_{433}	17.2	X	23.01719	334.89090	215.25785	2.10184	0.1076070	0.27730618	2.3289653	21	3 23.2	19.4
160450 2005 UX_{475}	16.0	X	95.83357	297.15939	165.66593	9.50340	0.1344182	0.21521948	2.7577083	21	4 6.2	19.7
160451 2005 UO_{496}	15.4	X	340.45530	155.15200	107.30538	12.90477	0.1496188	0.22697125	2.6616778	21	5 2.1	18.6
160452 2005 UK_{498}	16.0	X	22.03644	159.00125	123.89252	10.23907	0.1148236	0.23829832	2.5766498	21	8 17.0	18.7
160453 2005 VK_{118}	16.4	X	152.13936	271.94717	294.82316	18.24904	0.0462543	0.36593626	1.9358235	21	10 27.1	19.1
160454 2005 WU_{27}	18.0	X	10.67501	75.12423	30.61566	1.64120	0.1499193	0.25949410	2.4343577	21	—	—
160455 2005 WX_{81}	15.9	X	49.06426	53.57949	345.72954	1.24168	0.1119971	0.19320589	2.9633922	21	—	—
160456 2005 WH_{117}	16.9	X	58.32283	78.55039	254.38587	19.69091	0.0765840	0.37637763	1.8998538	21	—	—
160457 2005 YW_{168}	16.6	X	257.05025	349.57759	46.43679	9.88828	0.1701983	0.28885314	2.2664770	21	6 23.6	19.8
160458 2005 YT_{174}	16.6	X	81.46382	331.89977	316.04804	17.33754	0.0695473	0.36389801	1.9430453	21	11 28.4	19.3
160459 2005 YL_{188}	16.7	X	309.53975	263.91706	11.48667	1.97910	0.1973599	0.27024933	2.3693341	21	3 12.3	19.6
160460 2006 BH_{22}	16.4	X	339.59889	115.93511	129.69097	5.03041	0.1114584	0.26948012	2.3738406	21	4 1.1	18.9
160461 2006 BG_{38}	16.3	X	290.96385	100.26630	172.60687	2.56248	0.1583165	0.26367873	2.4085333	21	2 20.2	19.6
160462 2006 BR_{73}	16.6	X	8.66001	286.45858	354.51014	5.27904	0.1642894	0.28066772	2.3103321	21	7 25.2	18.3
160463 2006 BJ_{118}	16.1	X	46.78413	317.72990	315.25995	7.51309	0.2495497	0.21690914	2.7433685	21	9 26.9	19.6
160464 2006 BQ_{145}	15.2	X	162.57218	243.89927	316.15552	15.79434	0.1599840	0.22619684	2.6677494	21	10 9.7	19.9
160465 2006 BL_{226}	13.4	X	50.68208	76.48091	134.12034	2.71402	0.0511592	0.08114664	5.2839134	21	6 15.6	20.1
160466 2006 CL_{47}	15.6	X	182.92137	289.55124	344.31926	2.13903	0.1066614	0.18264747	3.0765238	21	—	—
160467 2006 DC_{63}	15.6	X	110.85705	269.93829	183.90656	2.00926	0.0586472	0.19654294	2.9297536	21	4 3.1	19.7
160468 2006 DZ_{67}	15.2	X	111.24593	178.61400	107.51559	11.09281	0.1292980	0.23254680	2.6189616	21	12 14.6	19.2
160469 2006 DK_{114}	15.1	X	159.70485	248.72220	48.16141	14.03334	0.1650107	0.24310691	2.5425598	21	—	—
160470 2006 FG_{20}	15.6	X	253.52561	91.80066	183.34841	1.80060	0.0977813	0.18412389	3.0600554	21	2 1.7	20.3
160471 2006 FB_{49}	14.6	X	62.14980	31.27858	42.14240	22.79477	0.1536242	0.18848395	3.0126809	21	1 17.9	18.7
160472 2006 HM_{35}	14.7	X	209.57368	212.90831	82.74796	12.00528	0.0463833	0.18026326	3.1035916	21	1 15.4	19.4
160473 2006 HO_{83}	16.5	X	276.56181	188.64284	96.65464	5.46005	0.1110098	0.25303633	2.4756018	21	3 1.9	20.0
160474 2006 JM_{31}	14.7	X	203.29290	130.65075	202.01379	14.51224	0.2810036	0.17936266	3.1139719	21	2 17.3	20.5
160475 2006 KR_{12}	15.4	X	121.81040	277.67616	151.79167	11.65076	0.0856256	0.19025716	2.9939328	21	3 23.6	19.7
160476 2006 SO_{124}	16.4	X	317.19825	234.45671	119.12541	10.58382	0.0814294	0.25504588	2.4625809	21	8 6.3	19.0
160477 2006 VF_{148}	14.7	X	176.80840	97.87376	87.88203	12.39025	0.1368380	0.18202173	3.0835706	21	10 16.4	19.8
160478 2006 WO_{82}	16.0	X	61.91681	340.89455	90.32131	6.84518	0.0689983	0.21419588	2.7664870	21	—	—
160479 2006 WJ_{168}	16.1	X	97.69194	8.15213	179.31218	0.99587	0.0897640	0.17424679	3.1746281	21	7 20.3	20.6
160480 2006 XE_{26}	16.0	X	20.84174	9.62050	98.15530	10.01585	0.1632479	0.21127919	2.7918896	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160481 2006 XH_{32}	15.3	X	80.41294	155.11544	63.20682	3.97328	0.0436333	0.17453654	3.1711136	21	8 1.9	19.8
160482 2007 AM_{5}	17.2	X	42.45421	229.23807	48.04340	0.74667	0.0414505	0.24365221	2.5387648	21	8 31.6	20.4
160483 2007 AS_{14}	15.0	X	322.28132	302.10400	89.33791	11.87281	0.0520087	0.18135171	3.0911609	21	10 7.1	19.3
160484 2007 AF_{27}	16.8	X	283.53884	152.37413	146.80847	7.74621	0.1420164	0.28898022	2.2658125	21	3 19.1	19.7
160485 2007 BL_{2}	15.7	X	333.14419	12.53149	75.98563	11.78532	0.0841511	0.19289792	2.9665456	21	12 28.8	19.4
160486 2007 BU_{18}	17.6	X	80.26430	47.51181	131.44988	3.24882	0.1512068	0.29371680	2.2413870	21	6 25.4	19.9
160487 2007 BL_{20}	16.7	X	268.99463	55.85052	103.76228	2.45143	0.1275453	0.25905507	2.4371073	21	—	—
160488 2007 BD_{33}	15.6	X	253.87132	119.93967	121.66887	13.25437	0.0662889	0.20604223	2.8389988	21	—	—
160489 2007 BV_{44}	17.3	X	298.22503	51.98706	152.03205	4.96775	0.0718272	0.27398486	2.3477491	21	—	—
160490 2007 BB_{45}	17.1	X	154.87502	356.29779	149.31705	6.33255	0.1416394	0.23607603	2.5927947	21	8 3.8	21.3
160491 2007 CC_{11}	16.1	X	49.45761	240.71290	136.51824	10.09550	0.0727276	0.19340464	2.9613617	21	—	—
160492 2007 CU_{11}	15.3	X	203.12789	12.76279	149.52775	15.56377	0.2027024	0.18015799	3.1048005	21	10 6.4	20.6
160493 Nantou	16.6	X	84.56537	324.47574	125.20692	5.81122	0.0668300	0.21320090	2.7750876	21	2 22.2	20.2
160494 2007 CG_{20}	15.9	X	30.54322	9.11828	150.53135	11.95796	0.0977837	0.21500896	2.7595082	21	3 7.1	19.0
160495 2007 CG_{24}	16.0	X	83.10037	86.38369	148.94591	9.19035	0.1183997	0.23764867	2.5813435	21	9 11.5	19.6
160496 2007 CE_{55}	15.0	X	225.73880	277.65400	167.10274	19.17153	0.1478514	0.17022349	3.2244555	21	7 23.9	20.4
160497 2007 CH_{56}	16.2	X	127.00355	355.28645	164.11572	12.27844	0.1268057	0.23182910	2.6243640	21	7 21.9	20.3
160498 2007 CO_{56}	17.3	X	23.19484	33.32693	170.19178	8.04674	0.1580328	0.28658826	2.2784025	21	4 15.0	19.0
160499 2007 DZ_{6}	16.8	X	140.25705	62.39977	118.30378	12.59168	0.1205421	0.23727328	2.5840653	21	9 6.7	20.9
160500 2007 DC_{32}	17.6	X	35.30175	76.40602	3.37148	2.02435	0.1669898	0.26884717	2.3775650	21	—	—
160501 2007 EC_{166}	16.3	X	134.24947	85.76326	52.56993	14.98893	0.1291623	0.22931864	2.6434827	21	7 3.9	20.5
160502 2007 FY_{27}	16.2	X	220.95440	239.10349	177.40851	14.88550	0.1036691	0.22911969	2.6450127	21	6 18.9	20.5
160503 2007 HX_{17}	15.3	X	312.72027	187.30700	141.45055	10.57674	0.2208159	0.21744938	2.7388228	21	6 3.1	18.7
160504 2007 HX_{37}	17.7	X	159.63086	337.61965	159.86603	4.78654	0.0917061	0.29710317	2.2243231	21	7 29.0	20.7
160505 2007 JN_{16}	16.7	X	9.15607	32.07578	281.84165	2.19625	0.1004160	0.22423889	2.6832559	21	9 3.4	19.6
160506 2007 JP_{22}	15.5	X	190.60206	88.41837	135.39442	16.73859	0.2213129	0.17481418	3.1677552	21	12 3.8	21.1
160507 3204 $T-3$	16.6	X	202.80644	319.58112	37.69969	3.16657	0.2066625	0.25970522	2.4330382	21	3 14.7	20.7
160508 4319 $T-3$	16.6	X	29.53211	270.53329	52.62899	8.11944	0.1790694	0.29232712	2.2484849	21	11 14.2	18.8
160509 1990 EG_{5}	14.4	X	264.71492	290.75153	297.78962	12.22732	0.1737846	0.18108975	3.0941412	21	—	—
160510 1990 RG_{1}	15.9	X	358.51243	27.96882	359.47660	6.58567	0.2676669	0.28969647	2.2620763	21	—	—
160511 1990 SD_{11}	14.7	X	141.33160	327.26779	341.58242	14.75707	0.2164556	0.23373896	2.6100489	21	—	—
160512 Franck–Hertz	16.4	X	77.24614	24.18013	325.86460	3.05131	0.2935366	0.23019373	2.6367790	21	—	—
160513 1990 TD_{13}	16.0	X	57.24232	259.75008	103.38471	7.54874	0.2717889	0.22885606	2.6470437	21	—	—
160514 1991 PQ_{9}	14.6	X	114.86260	12.28067	308.14784	8.34706	0.2396288	0.17471694	3.1689304	21	—	—
160515 1993 RP_{13}	16.9	X	295.78564	206.44218	181.27613	2.13266	0.2447182	0.27927182	2.3180242	21	7 23.9	19.4
160516 1994 PC_{32}	16.1	X	70.60051	149.69266	221.23888	3.46521	0.2972940	0.22886753	2.6469553	21	—	—
160517 1994 TB_{4}	16.1	X	10.40160	184.42682	189.06766	1.96740	0.2141712	0.22236794	2.6982857	21	12 13.2	18.9
160518 1994 VM_{3}	16.7	X	54.09723	350.73431	22.44263	4.77168	0.1762145	0.30029273	2.2085446	21	—	—
160519 1995 CS_{3}	16.5	X	29.33516	93.41293	246.36286	1.94221	0.3359130	0.28742744	2.2739656	21	12 29.8	19.5
160520 1995 GM_{2}	16.5	X	303.50376	154.38162	79.24077	3.21552	0.1448903	0.25993724	2.4315901	21	1 18.5	19.7
160521 1995 KU	15.5	X	173.89000	85.09015	197.29130	9.69808	0.1689910	0.24716333	2.5146643	21	—	—
160522 1995 SZ_{30}	15.9	X	4.52943	200.42347	153.24542	3.05694	0.0775410	0.23049611	2.6344724	21	10 22.7	19.1
160523 1995 SN_{40}	16.4	X	15.70318	172.26628	153.08723	2.77827	0.2180674	0.22963638	2.6410437	21	10 19.8	19.0
160524 1996 BF_{7}	16.3	X	8.17779	287.30183	91.40753	4.17379	0.0989660	0.22318198	2.6917205	21	11 30.9	19.6
160525 1996 EW_{10}	16.5	X	59.42180	122.68387	153.14299	6.42375	0.1609680	0.28927182	2.2642896	21	10 19.4	19.3
160526 1996 RZ_{4}	16.1	X	263.01307	140.36107	224.92721	5.02453	0.1541471	0.26872727	2.3782722	21	5 22.4	19.4
160527 1996 RE_{31}	12.2	X	322.41041	103.38088	320.76464	6.70815	0.0968825	0.08224311	5.2368446	21	10 20.3	18.8
160528 1996 RD_{32}	12.5	X	31.75716	301.06127	60.48658	4.06296	0.0939678	0.08393656	5.1661689	21	11 15.1	19.0
160529 1996 TN_{1}	16.1	X	291.83145	317.98087	306.87270	5.72028	0.0986758	0.26155127	2.4215763	21	2 18.1	19.3
160530 1996 TE_{16}	15.7	X	109.92803	119.60396	275.45077	5.15742	0.0390494	0.21464159	2.7626559	21	1 11.9	19.4
160531 1996 TB_{49}	15.0	X	171.55341	50.70980	350.33387	13.90961	0.2912831	0.18118106	3.0931016	21	4 13.3	20.7
160532 1996 TH_{50}	16.3	X	244.76931	172.70993	215.31356	4.30226	0.2106484	0.26780812	2.3837108	21	5 27.3	19.9
160533 1996 TT_{56}	12.2	X	12.23921	70.51008	292.12976	7.76951	0.0385542	0.08207671	5.2439202	21	10 15.2	19.0
160534 1996 TA_{58}	12.5	X	39.59760	12.14640	327.00776	10.63306	0.1139783	0.08289162	5.2094949	21	10 28.8	19.2
160535 1996 TC_{64}	16.4	X	218.25879	359.01458	17.44700	10.20885	0.2219259	0.26411365	2.4058884	21	4 17.1	20.3
160536 1996 UZ_{2}	16.0	X	192.82426	280.48609	36.43427	2.70815	0.0702260	0.21258155	2.7804751	21	1 17.6	20.0
160537 1996 XD_{17}	16.2	X	249.16745	204.45199	122.72532	7.41254	0.1638264	0.25986732	2.4320263	21	3 21.2	20.0
160538 1997 CG_{10}	15.9	X	140.69837	313.11580	308.89859	11.93580	0.1650956	0.23124000	2.6288193	21	12 12.5	20.3
160539 1997 SG	16.0	X	342.37628	74.33656	340.23033	3.16565	0.0597459	0.29448925	2.2374659	21	12 23.4	18.2
160540 1997 WB_{58}	16.1	X	227.26125	240.37590	151.19286	1.24298	0.2631372	0.19294846	2.9660275	21	5 15.9	21.3
160541 1997 WM_{58}	15.8	X	325.19053	303.52504	114.02813	7.89326	0.2692278	0.28848715	2.2683935	21	12 9.4	16.7
160542 1998 FG_{47}	16.7	X	81.83812	166.63968	346.08538	4.74982	0.0898039	0.30315453	2.1946234	21	5 4.9	19.1
160543 1998 GW_{8}	15.1	X	187.36278	143.77259	77.85294	13.44722	0.1144295	0.23616142	2.5921696	21	12 10.2	19.0
160544 1998 HV_{5}	16.5	X	133.49597	156.51495	105.07526	3.64666	0.1535295	0.23302060	2.6154104	21	12 6.2	20.7
160545 1998 KA_{11}	15.4	X	328.35844	240.47392	91.89477	16.11950	0.2478379	0.21789272	2.7351064	21	7 1.8	18.0
160546 1998 MD_{3}	16.0	X	105.12433	195.90531	111.60528	6.09680	0.1984165	0.23154681	2.6264966	21	—	—
160547 1998 MG_{17}	15.9	X	9.62805	46.03850	304.53851	10.41850	0.1962016	0.21960696	2.7208545	21	11 1.9	19.1
160548 1998 OW_{3}	16.5	X	11.28715	105.47462	218.67419	2.52853	0.1991587	0.21737412	2.7394549	21	10 2.2	19.3
160549 1998 QP_{20}	14.9	X	318.63285	119.08180	305.73191	4.25271	0.2934052	0.21735462	2.7396187	21	10 24.8	16.9
160550 1998 QM_{36}	15.4	X	25.92867	148.70489	259.89772	2.79800	0.3017093	0.22349320	2.6892211	21	—	—
160551 1998 QA_{45}	15.1	X	307.16103	60.02690	321.80183	12.17136	0.2166687	0.21214763	2.7842652	21	8 8.1	18.1
160552 1998 QB_{71}	15.8	X	345.37844	172.69713	208.98830	8.89386	0.3050289	0.21661170	2.7458793	21	11 10.4	17.6
160553 1998 QQ_{82}	15.5	X	7.57135	124.14068	226.66724	7.14439	0.2693093	0.21774133	2.7363741	21	11 13.8	17.9
160554 1998 QJ_{87}	14.9	X	357.27674	57.50607	304.90649	11.18349	0.1801114	0.21656607	2.7462650	21	10 21.5	18.0
160555 1998 RB_{1}	14.8	X	343.09571	5.77006	353.20182	9.50154	0.1833008	0.21337300	2.7735951	21	9 21.3	17.5
160556 1998 RR_{4}	15.6	X	4.49238	230.36988	161.95590	17.29920	0.2559716	0.21925588	2.7237582	21	—	—
160557 1998 RT_{18}	15.1	X	5.90146	351.90674	346.25017	12.73884	0.1615795	0.21659581	2.7460135	21	10 3.6	18.1
160558 1998 RL_{51}	15.8	X	48.64101	8.51240	297.27491	5.34189	0.2191425	0.21811405	2.7332558	21	11 8.3	19.6
160559 1998 RS_{55}	15.2	X	8.46647	4.38024	327.17402	5.99235	0.1434938	0.21457313	2.7632435	21	9 28.6	18.3
160560 1998 SZ_{6}	15.7	X	112.06670	86.66163	258.78955	0.62502	0.2416059	0.18513772	3.0488738	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160561 1998 SR_{12}	14.8	X	341.21776	89.76077	258.28686	21.93684	0.2669490	0.21276566	2.7788708	21	8 13.9	17.8
160562 1998 SO_{74}	15.5	X	13.45183	218.15108	164.60341	5.97514	0.2609271	0.21841612	2.7307352	21	—	—
160563 1998 SC_{82}	15.6	X	311.95763	176.23755	208.58617	4.26697	0.1698454	0.21224912	2.7833776	21	8 25.9	18.6
160564 1998 SL_{88}	15.5	X	11.11157	104.86898	237.34441	2.64737	0.0922152	0.21612538	2.7499969	21	10 14.4	18.7
160565 1998 SW_{99}	16.6	X	241.47624	345.38826	312.82101	3.93709	0.2595263	0.28326073	2.2962111	21	1 28.6	20.4
160566 1998 SO_{156}	15.5	X	356.59535	299.27133	4.65825	7.61942	0.2146816	0.21015124	2.8018707	21	8 2.4	18.1
160567 1998 TP_{36}	14.7	X	11.55646	177.19991	211.59480	12.15860	0.1686793	0.21753432	2.7381098	21	12 25.9	18.1
160568 1998 UB_{35}	15.1	X	321.81536	120.11437	242.55897	7.90743	0.1934266	0.21044276	2.7992825	21	8 7.3	18.2
160569 1998 VD_{1}	15.1	X	355.48950	319.44724	59.90572	17.73116	0.2658295	0.21547007	2.7555698	21	11 26.8	17.4
160570 1998 VQ_{51}	15.3	X	314.44244	263.54427	107.21571	8.68056	0.2227685	0.20926915	2.8097386	21	8 4.9	18.2
160571 1998 WG_{10}	15.1	X	269.41401	310.27139	59.38381	11.68151	0.1600883	0.20268572	2.8702559	21	6 5.6	19.2
160572 1999 CM_{46}	14.7	X	181.57720	272.19607	141.87501	11.23236	0.1576678	0.18889006	3.0083612	21	5 11.4	19.8
160573 1999 CS_{142}	17.2	X	237.21831	139.58580	135.09605	6.32500	0.1914822	0.30722582	2.1751919	21	—	—
160574 1999 EH_{11}	16.7	X	111.88979	43.58289	151.95186	4.58782	0.0962077	0.28252888	2.3001747	21	8 22.6	19.8
160575 1999 GQ_{6}	16.0	X	0.48992	65.06464	136.52000	7.36725	0.1730537	0.26550072	2.3975016	21	2 22.8	18.2
160576 1999 HB_{7}	16.3	X	276.89135	268.92361	35.79024	2.85544	0.2050527	0.26437325	2.4043132	21	3 13.9	19.9
160577 1999 JL_{48}	15.8	X	354.65785	179.86590	31.09397	8.27098	0.2055834	0.26433147	2.4045665	21	2 24.4	18.2
160578 1999 JJ_{90}	15.1	X	293.89107	134.05018	91.98210	16.85451	0.1005111	0.21467280	2.7623881	21	1 12.2	19.1
160579 1999 JG_{136}	15.6	X	73.44544	100.77449	81.12809	11.69831	0.1866926	0.22775028	2.6556048	21	6 26.2	18.9
160580 1999 KG	15.6	X	88.72387	328.68321	225.33343	12.24129	0.0975260	0.22952532	2.6418955	21	7 16.6	19.4
160581 1999 KH_{12}	14.9	X	313.74350	136.70979	102.50201	4.51754	0.1215168	0.17165612	3.2064898	21	2 27.6	19.2
160582 1999 NY_{3}	16.6	X	174.38931	171.19295	127.99443	12.64686	0.2657817	0.24592819	2.5230770	21	—	—
160583 1999 NN_{15}	15.7	X	212.23946	18.55202	293.39988	11.57210	0.2393760	0.25228015	2.4805462	21	1 25.9	20.1
160584 1999 ND_{65}	16.1	X	191.64630	263.59632	92.75841	4.44649	0.2750729	0.25170200	2.4843432	21	3 7.9	20.5
160585 1999 RK_{2}	16.5	X	128.50688	234.50415	148.75188	8.08731	0.2157319	0.24632520	2.5203653	21	2 7.7	19.9
160586 1999 RG_{7}	15.8	X	141.39028	261.95101	4.27435	13.07282	0.1656446	0.23411829	2.6072288	21	12 17.8	20.3
160587 1999 RG_{15}	15.4	X	183.79651	298.24712	346.44559	13.34519	0.0413322	0.24193037	2.5507964	21	—	—
160588 1999 RG_{17}	16.3	X	113.96881	3.78725	330.15056	8.42147	0.1709128	0.23889251	2.5723755	21	—	—
160589 1999 RU_{25}	15.8	X	74.03364	43.24411	340.10050	3.56503	0.2402924	0.23683682	2.5872391	21	—	—
160590 1999 RE_{28}	16.2	X	95.12317	41.59163	347.15620	5.12390	0.3451167	0.23958152	2.5674412	21	1 26.3	19.0
160591 1999 RD_{81}	16.3	X	141.83646	314.73809	17.88555	5.75058	0.1980825	0.24213560	2.5493548	21	—	—
160592 1999 RF_{86}	15.9	X	103.11797	270.81925	131.05686	5.40972	0.2600930	0.24258115	2.5462323	21	2 8.5	18.9
160593 1999 RL_{100}	16.5	X	161.55775	257.45698	39.52225	1.37431	0.2057729	0.24243287	2.5472704	21	—	—
160594 1999 RX_{135}	15.6	X	98.17989	272.56989	125.26662	4.45154	0.2679948	0.24258823	2.5461827	21	1 28.1	18.3
160595 1999 RC_{143}	16.5	X	101.69025	218.11222	134.78808	5.44025	0.1846683	0.23800124	2.5787935	21	—	—
160596 1999 RT_{152}	15.4	X	114.51776	1.36645	327.61364	11.69694	0.1851999	0.23900861	2.5715423	21	—	—
160597 1999 RQ_{159}	16.5	X	146.70610	248.56047	102.30819	2.96789	0.2375312	0.24458338	2.5323171	21	1 20.9	20.3
160598 1999 RP_{162}	16.0	X	144.18297	46.27324	295.21238	4.28086	0.2027625	0.24304676	2.5429793	21	1 3.3	19.7
160599 1999 RX_{166}	15.9	X	82.55142	250.40500	144.85257	13.59459	0.2828043	0.23963809	2.5670371	21	—	—
160600 1999 RV_{210}	15.0	X	43.38244	26.74116	335.69843	14.00787	0.1425631	0.23056911	2.6339162	21	—	—
160601 1999 RO_{234}	15.9	X	70.36648	337.80949	85.89658	6.11144	0.3167524	0.24006786	2.5639726	21	1 22.7	17.7
160602 1999 RX_{252}	15.9	X	142.88541	329.84465	322.66267	9.09663	0.1957477	0.23796350	2.5790661	21	—	—
160603 1999 SA_{15}	16.4	X	120.97021	336.56892	340.23673	12.73577	0.2974046	0.23825491	2.5769628	21	—	—
160604 1999 TD_{11}	15.4	X	115.61573	77.96841	351.39868	1.93375	0.3033869	0.24119262	2.5559952	21	4 4.6	19.3
160605 1999 TT_{12}	15.6	X	77.88021	324.07479	29.73422	15.78716	0.2144853	0.23532713	2.5982926	21	—	—
160606 1999 TW_{25}	16.2	X	119.11188	115.04961	251.79389	0.46051	0.2113669	0.24009313	2.5637926	21	1 7.9	19.3
160607 1999 TY_{27}	15.7	X	66.97387	35.98743	8.42375	2.81418	0.2991577	0.23532860	2.5982817	21	—	—
160608 1999 TX_{29}	16.1	X	92.51353	35.94117	3.87718	3.76483	0.2436550	0.24050166	2.5608885	21	1 19.3	18.8
160609 1999 TA_{35}	16.0	X	93.56910	99.26715	213.92845	20.77822	0.0709426	0.36642437	1.9341040	21	—	—
160610 1999 TO_{46}	16.3	X	266.35932	259.09021	25.94508	6.90940	0.1288603	0.29629237	2.2283791	21	2 10.7	19.5
160611 1999 TP_{47}	17.2	X	257.04350	313.26251	180.45155	6.61459	0.0700226	0.27355775	2.3501921	21	11 26.0	20.0
160612 1999 TF_{67}	16.5	X	145.40158	302.22888	1.75083	3.41039	0.2537421	0.23843807	2.5756429	21	—	—
160613 1999 TA_{68}	15.6	X	253.91899	56.52248	96.45088	2.28130	0.1165597	0.18066739	3.0989617	21	11 21.5	20.0
160614 1999 TW_{82}	16.9	X	131.42233	249.46124	57.11073	2.14573	0.1876716	0.23712116	2.5851704	21	—	—
160615 1999 TG_{97}	15.7	X	91.73910	184.40038	149.79795	12.32891	0.1392154	0.23424355	2.6062993	21	—	—
160616 1999 TR_{97}	15.7	X	91.82352	289.66208	97.33371	4.47821	0.1950239	0.23903321	2.5713659	21	—	—
160617 1999 TF_{99}	16.0	X	107.24506	292.18154	92.37647	6.08102	0.2530179	0.24058320	2.5603098	21	1 22.2	19.1
160618 1999 TV_{103}	16.4	X	106.53283	113.22094	259.43464	3.33219	0.2176420	0.23948502	2.5681308	21	—	—
160619 1999 TH_{106}	15.3	X	102.42292	53.85889	246.08562	9.96327	0.1948051	0.23567201	2.5957571	21	12 25.8	19.6
160620 1999 TS_{114}	15.9	X	97.27776	159.57570	208.61632	4.51444	0.1533306	0.23854143	2.5748988	21	—	—
160621 1999 TK_{120}	16.2	X	112.91271	67.07306	287.31265	2.69563	0.2130028	0.23902822	2.5714017	21	—	—
160622 1999 TF_{144}	15.7	X	85.87280	351.80053	19.00469	14.04839	0.1551948	0.23793869	2.5792454	21	—	—
160623 1999 TX_{195}	15.9	X	96.85375	37.62971	300.28133	5.70917	0.2306026	0.23418460	2.6067367	21	—	—
160624 1999 TD_{197}	15.4	X	60.99184	291.04098	34.80867	12.25535	0.2307374	0.22820500	2.6520759	21	12 20.8	19.6
160625 1999 TP_{241}	16.7	X	144.69280	252.64693	110.12226	5.42476	0.2677510	0.24313568	2.5423592	21	2 6.3	20.6
160626 1999 TE_{271}	16.6	X	161.75299	48.00772	323.32248	5.07038	0.1521180	0.29148555	2.2528107	21	2 14.3	19.8
160627 1999 TQ_{295}	16.1	X	120.69385	117.46629	181.25304	12.34959	0.2758697	0.23636690	2.5906671	21	—	—
160628 1999 UU_{29}	16.1	X	105.68360	300.50327	38.51152	3.39000	0.1838812	0.23681919	2.5873675	21	—	—
160629 1999 UQ_{45}	15.8	X	123.50611	53.43903	287.11699	4.18335	0.2791031	0.23877904	2.5731904	21	—	—
160630 1999 VU_{26}	16.0	X	115.02396	131.19844	236.68270	4.26354	0.3201198	0.23871844	2.5736258	21	1 19.1	19.5
160631 1999 VX_{29}	15.8	X	34.02752	158.39529	251.41724	2.49116	0.2078609	0.23156704	2.6263437	21	—	—
160632 1999 VU_{45}	15.7	X	147.62186	19.58587	307.54847	4.68598	0.1422819	0.23947510	2.5682017	21	—	—
160633 1999 VC_{46}	16.8	X	30.82041	112.34587	238.79170	19.24657	0.0979428	0.36389651	1.9430507	21	12 26.3	19.0
160634 1999 VG_{58}	15.6	X	347.48515	346.83702	51.33057	12.48544	0.1077193	0.22471906	2.6794323	21	11 23.9	18.5
160635 1999 VA_{83}	16.4	X	80.05722	222.40550	29.04011	20.42020	0.0696333	0.35660336	1.9694536	21	10 9.6	18.5
160636 1999 VR_{83}	14.7	X	134.62443	63.83030	222.36273	9.99210	0.0808922	0.18673362	3.0314777	21	12 26.4	19.4
160637 1999 VF_{88}	16.4	X	105.79800	113.32270	216.33741	2.92223	0.1962380	0.23485411	2.6017802	21	—	—
160638 1999 VB_{109}	16.2	X	37.04640	332.96312	41.10646	0.46542	0.1503374	0.22809167	2.6529543	21	—	—
160639 1999 VJ_{122}	16.7	X	60.86147	263.40929	88.88639	3.19962	0.1471351	0.22933478	2.6433587	21	—	—
160640 1999 VN_{149}	16.4	X	66.62036	339.16295	35.43205	4.49210	0.1764987	0.23269581	2.6178434	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160641 1999 VB_{158}	15.8	X	53.40975	285.87397	44.46486	10.13900	0.1705240	0.22692851	2.6620120	21	12 10.1	19.6
160642 1999 VD_{191}	15.9	X	85.37508	242.45395	40.21431	10.38485	0.1824236	0.22554620	2.6728774	21	11 16.9	20.0
160643 1999 XQ_{6}	15.8	X	105.57071	326.51589	44.75786	5.27795	0.2899242	0.23757053	2.5819094	21	1 9.1	18.9
160644 1999 XM_{11}	15.5	X	107.30074	94.62735	303.12800	3.99514	0.2993372	0.24056605	2.5604315	21	2 13.8	18.9
160645 1999 XW_{43}	15.6	X	52.74344	103.35083	278.37076	3.35955	0.1052328	0.23109453	2.6299224	21	—	—
160646 1999 XK_{44}	15.8	X	35.97665	60.77305	350.92682	1.12204	0.1882833	0.23216102	2.6218621	21	—	—
160647 1999 XH_{69}	15.8	X	89.21807	325.98579	76.84493	3.02420	0.2199127	0.23707311	2.5855197	21	1 14.3	18.6
160648 1999 XC_{71}	15.5	X	354.25646	118.30754	230.79988	6.62007	0.0896424	0.21781736	2.7357372	21	9 24.8	18.7
160649 1999 XR_{74}	15.7	X	86.34242	169.49840	229.37567	3.53897	0.2983719	0.23657910	2.5891177	21	1 15.9	18.3
160650 1999 XB_{75}	15.8	X	113.24545	299.90551	86.47449	2.97643	0.2148853	0.23807742	2.5782434	21	1 27.0	19.0
160651 1999 XQ_{101}	14.9	X	140.28555	298.69336	86.36322	5.37415	0.1989594	0.23962110	2.5671585	21	2 24.1	18.8
160652 1999 XB_{109}	16.1	X	85.89768	194.25594	195.88381	3.10078	0.1846077	0.23678348	2.5876277	21	—	—
160653 1999 XY_{112}	15.8	X	125.93324	51.97745	341.07142	11.55742	0.3012205	0.24289465	2.5440409	21	2 28.7	19.6
160654 1999 XQ_{113}	15.3	X	165.92459	3.13836	12.89427	15.97596	0.1927774	0.24579046	2.5240195	21	3 10.6	19.4
160655 1999 XB_{114}	15.2	X	101.03421	15.55816	0.93134	14.98003	0.1121317	0.23684445	2.5871836	21	—	—
160656 1999 XU_{116}	15.5	X	76.17371	105.63462	288.18952	3.45459	0.2916760	0.23616969	2.5921091	21	—	—
160657 1999 XC_{142}	16.3	X	337.81741	283.13814	67.37029	24.03992	0.0953184	0.35309938	1.9824614	21	10 9.9	18.6
160658 1999 XT_{153}	14.6	X	7.33844	130.43954	279.19344	10.99674	0.1922539	0.22353680	2.6888714	21	—	—
160659 1999 XY_{156}	15.5	X	78.44567	304.05924	109.23636	4.89071	0.2202466	0.23625338	2.5914969	21	1 9.3	17.8
160660 1999 XX_{204}	15.5	X	44.92834	55.69180	333.74315	10.95294	0.3076795	0.22905600	2.6455030	21	—	—
160661 1999 XD_{225}	13.1	X	325.04554	118.56983	301.65007	6.28202	0.0884780	0.08111915	5.2851072	21	10 19.9	19.8
160662 1999 XZ_{250}	15.8	X	326.32458	91.79631	300.47705	2.27691	0.0826606	0.21633270	2.7482397	21	10 9.6	19.1
160663 1999 XK_{259}	15.3	X	34.54372	285.50475	140.75651	12.93664	0.1406462	0.23326049	2.6136169	21	—	—
160664 2000 AE_{3}	15.1	X	4.54956	90.77816	320.87633	11.85987	0.1834652	0.22806896	2.6531304	21	—	—
160665 2000 AB_{7}	15.7	X	108.22512	8.81787	10.05322	4.15555	0.2363186	0.23707495	2.5855063	21	1 14.6	18.9
160666 2000 AW_{100}	15.5	X	24.98431	308.92758	78.41655	13.76771	0.1847488	0.22886798	2.6469518	21	—	—
160667 2000 AY_{100}	14.7	X	220.70411	223.60557	115.03495	8.56628	0.0634994	0.24728241	2.5138570	21	3 13.1	18.3
160668 2000 AQ_{155}	15.9	X	38.24709	148.91808	263.04583	2.96517	0.2444721	0.23122255	2.6289516	21	—	—
160669 2000 AN_{171}	15.9	X	151.52837	198.21907	173.52094	6.28661	0.3106969	0.24274914	2.5450574	21	2 24.8	20.3
160670 2000 AB_{215}	15.9	X	164.88162	62.19447	265.98017	5.87974	0.1439894	0.28273201	2.2990729	21	—	—
160671 2000 AY_{237}	16.4	X	114.51707	109.65051	266.83667	4.67944	0.2910117	0.23944243	2.5684354	21	1 25.2	19.9
160672 2000 BP_{11}	17.0	X	50.46107	257.40184	125.97653	1.41716	0.2222116	0.27396564	2.3478589	21	—	—
160673 2000 BB_{35}	15.4	X	116.76405	348.45373	40.75925	5.26470	0.2446600	0.23695813	2.5863560	21	2 10.1	18.9
160674 2000 CN_{32}	15.4	X	346.91171	70.71495	148.19603	11.75836	0.0515377	0.19223089	2.9734041	21	3 26.2	19.4
160675 2000 CK_{47}	16.1	X	13.99118	214.92526	202.33662	4.44045	0.2531779	0.22557781	2.6726277	21	—	—
160676 2000 CT_{55}	15.0	X	266.07440	123.02591	320.68230	8.73329	0.1558786	0.21227645	2.7831386	21	9 6.2	18.8
160677 2000 CP_{81}	15.2	X	44.49004	261.12493	140.67739	13.07103	0.3052209	0.22730727	2.6590541	21	—	—
160678 2000 CZ_{140}	15.3	X	335.65275	63.77721	307.78766	12.25090	0.1283246	0.21385338	2.7694401	21	9 19.2	18.6
160679 2000 DB_{6}	12.2	X	8.20358	34.53133	0.40694	12.93533	0.0762311	0.08268702	5.2180849	21	11 16.4	18.9
160680 2000 DX_{11}	14.9	X	171.92794	262.43841	176.30083	13.48103	0.0253800	0.19442133	2.9510288	21	5 26.9	19.3
160681 2000 DR_{23}	15.3	X	319.78591	56.18008	328.21263	13.19538	0.2174117	0.21270782	2.7793746	21	9 2.9	18.2
160682 2000 DN_{39}	15.0	X	332.10680	294.00504	324.04017	9.30651	0.0594864	0.19317814	2.9636760	21	4 16.3	19.0
160683 2000 DG_{79}	15.3	X	294.06361	286.68683	146.96746	32.30819	0.2793807	0.21540032	2.7561646	21	9 20.0	18.7
160684 2000 EL_{10}	17.1	X	7.31225	72.77544	31.57010	0.77211	0.1778109	0.27218671	2.3580777	21	—	—
160685 2000 EK_{92}	14.8	X	294.36424	237.12068	348.37178	12.33613	0.1187626	0.18083723	3.0970210	21	1 19.4	19.4
160686 2000 EO_{155}	14.8	X	340.87059	283.97473	307.35766	9.08457	0.0613017	0.18854170	3.0120657	21	3 25.4	19.0
160687 2000 EV_{164}	15.1	X	224.15493	292.77575	357.15102	5.84446	0.1359322	0.18021446	3.1041519	21	1 22.6	20.1
160688 2000 GB_{7}	16.4	X	64.67272	325.23333	188.14697	12.07521	0.1919053	0.23690246	2.5867612	21	5 5.4	19.3
160689 2000 GA_{41}	14.5	X	236.61153	115.57694	200.12164	8.61532	0.0755760	0.18339497	3.0681583	21	3 4.2	19.2
160690 2000 HD_{7}	16.7	X	35.45803	288.95633	47.17139	11.54705	0.2525353	0.29437201	2.2380599	21	12 21.1	19.7
160691 2000 HO_{13}	16.6	X	202.44974	338.02702	235.53972	1.36009	0.1694792	0.25784541	2.4447237	21	12 14.1	20.0
160692 2000 HD_{17}	17.0	X	117.90536	197.19355	79.66010	2.47019	0.1799481	0.30050847	2.2074874	21	12 20.8	20.5
160693 2000 HO_{55}	16.8	X	114.82836	278.03371	24.61167	3.24817	0.1952735	0.30207920	2.1998285	21	—	—
160694 2000 JG_{71}	15.3	X	280.61807	17.31080	221.89095	12.12123	0.1591976	0.22653366	2.6651044	21	1 3.2	19.6
160695 2000 KX_{13}	16.7	X	113.29495	226.67040	69.53665	5.42334	0.1340418	0.30079485	2.2060861	21	—	—
160696 2000 KX_{28}	16.6	X	270.18552	198.13328	61.27266	4.53179	0.1760534	0.26940711	2.3742695	21	1 11.5	20.3
160697 2000 LB_{15}	16.1	X	61.43927	106.30240	219.49003	4.41144	0.1923841	0.29498286	2.2349691	21	12 29.1	19.3
160698 2000 NJ_{26}	16.2	X	342.86442	142.77403	207.10193	6.24774	0.2068549	0.28329439	2.2960292	21	9 18.0	17.6
160699 2000 ON_{14}	16.3	X	60.10242	141.17317	142.52214	7.28926	0.1187234	0.28814975	2.2701639	21	10 25.4	19.2
160700 2000 OH_{15}	16.3	X	18.81256	226.29190	114.21086	6.21356	0.1856071	0.28802685	2.2708097	21	11 24.2	18.6
160701 2000 OD_{50}	16.2	X	295.10483	31.59321	327.22727	4.58955	0.2236724	0.27578416	2.3375263	21	6 12.9	19.0
160702 2000 PU_{2}	16.2	X	8.94194	60.28335	281.19582	6.64565	0.1601508	0.28656110	2.2785465	21	10 29.9	18.4
160703 2000 PB_{19}	17.0	X	348.15747	278.87171	28.77956	2.16380	0.2133121	0.28034835	2.3120863	21	7 17.7	18.2
160704 2000 PW_{27}	15.2	X	305.88665	98.25440	254.57145	23.87965	0.2101235	0.27732103	2.3288822	21	6 22.2	17.7
160705 2000 QE_{4}	15.7	X	315.53811	93.39987	331.99165	4.27403	0.1575704	0.28625100	2.2801918	21	11 19.9	17.6
160706 2000 QK_{4}	16.8	X	316.03637	16.81347	334.54333	3.83557	0.1918728	0.27865206	2.3214600	21	7 16.5	18.7
160707 2000 QP_{10}	16.5	X	340.42648	36.00114	316.93522	3.56432	0.2941425	0.28298152	2.2977212	21	9 18.1	17.0
160708 2000 QF_{20}	15.7	X	33.83869	44.13033	339.41598	5.72226	0.2020564	0.29175889	2.2514034	21	—	—
160709 2000 QC_{30}	15.9	X	291.51857	224.56960	123.90166	5.65159	0.1503180	0.27459479	2.3442712	21	6 6.2	18.6
160710 2000 QA_{52}	16.5	X	306.70194	104.94092	272.05027	1.13772	0.2419985	0.28012946	2.3132906	21	7 28.8	18.3
160711 2000 QK_{73}	15.7	X	259.23584	50.58885	336.05362	7.71597	0.2148787	0.27468187	2.3437757	21	6 7.4	19.2
160712 2000 QN_{85}	16.0	X	251.97574	89.43845	307.59183	6.68636	0.1125398	0.27618361	2.3352719	21	6 27.5	19.0
160713 2000 QQ_{96}	16.1	X	349.24230	340.06544	354.48665	12.49520	0.1888034	0.28124573	2.3071656	21	9 10.5	17.6
160714 2000 QO_{103}	16.2	X	304.19680	254.55130	135.01141	4.41442	0.1787059	0.28019855	2.3129103	21	8 26.2	18.0
160715 2000 QG_{106}	14.8	X	317.36353	193.00278	141.87656	12.44539	0.2044936	0.18155351	3.0888699	21	6 22.3	18.7
160716 2000 QG_{109}	16.9	X	320.21273	272.49454	75.74435	4.32020	0.1493772	0.27903107	2.3193574	21	7 27.4	18.9
160717 2000 QS_{118}	15.3	X	244.69203	175.35344	267.46506	4.84521	0.1721470	0.27791878	2.3255417	21	8 11.6	18.6
160718 2000 QP_{125}	15.7	X	231.98700	133.02992	288.63830	5.11997	0.1302894	0.27501094	2.3419057	21	7 5.3	18.7
160719 2000 QO_{132}	16.5	X	316.86661	330.97036	2.46353	4.39590	0.1774936	0.27878484	2.3207228	21	6 20.2	18.7
160720 2000 QM_{158}	16.1	X	297.34129	55.27009	289.74059	8.94090	0.0450899	0.27629678	2.3346341	21	6 27.5	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160721 2000 QB_{159}	15.3	X	311.14900	79.51365	184.51075	16.73455	0.2862616	0.17635215	3.1493109	21	2 26.1	19.8
160722 2000 QY_{166}	16.0	X	228.97105	88.72001	313.59008	6.43844	0.1100675	0.27314169	2.3525781	21	6 6.3	19.3
160723 2000 QL_{171}	16.5	X	341.48310	205.84995	181.82520	6.76709	0.2221884	0.28478209	2.2880259	21	11 26.7	18.0
160724 2000 QM_{171}	16.4	X	263.31480	136.66798	279.33044	2.03528	0.0987665	0.27856439	2.3219471	21	8 10.4	19.2
160725 2000 QV_{176}	16.1	X	2.33264	136.42245	187.28064	5.86353	0.1195268	0.28224788	2.3017011	21	9 14.7	18.0
160726 2000 QS_{179}	16.1	X	285.49703	225.39876	123.54453	5.89918	0.1265111	0.27367488	2.3495215	21	6 2.4	19.1
160727 2000 QG_{184}	16.6	X	324.70190	17.72112	352.32356	4.44010	0.1742661	0.28269725	2.2992613	21	9 9.3	18.2
160728 2000 QG_{192}	15.9	X	295.49091	317.66877	57.03973	7.33805	0.1377670	0.27874299	2.3209552	21	7 25.7	18.4
160729 2000 QC_{201}	16.8	X	285.37637	340.45996	36.09288	3.86826	0.1772855	0.27734773	2.3287327	21	7 3.4	19.6
160730 2000 QQ_{209}	16.8	X	354.91410	347.92701	309.52955	2.61457	0.1775110	0.27913829	2.3187634	21	7 18.3	18.2
160731 2000 QY_{230}	16.6	X	251.45350	213.08793	146.75043	2.64553	0.1640666	0.26964743	2.3728586	21	5 1.8	20.1
160732 2000 RU_{17}	16.4	X	294.80808	46.51511	292.86418	4.71783	0.2339513	0.27480016	2.3431031	21	5 12.5	19.4
160733 2000 RE_{22}	16.6	X	318.63833	348.39427	308.78374	2.12395	0.1848866	0.27321650	2.3521487	21	4 25.8	19.3
160734 2000 RS_{23}	16.1	X	249.83668	79.35440	291.46532	2.18132	0.1868072	0.27075216	2.3663997	21	5 10.7	19.6
160735 2000 RP_{27}	15.9	X	218.27366	41.92866	332.35397	6.55462	0.0774762	0.26702789	2.3883518	21	4 16.8	19.3
160736 2000 RB_{32}	15.8	X	258.09595	147.40416	234.86183	6.37101	0.1263448	0.27294332	2.3537178	21	6 12.2	19.0
160737 2000 RL_{34}	16.0	X	7.39879	116.52551	239.69685	5.94284	0.1522808	0.28461955	2.2888969	21	11 19.6	18.2
160738 2000 RZ_{41}	15.4	X	2.32486	340.41847	331.60519	13.53093	0.2189919	0.27979543	2.3151313	21	9 3.6	16.7
160739 2000 RB_{51}	16.1	X	340.86897	155.45906	226.22818	1.57307	0.2360616	0.28217010	2.3021240	21	11 13.7	17.1
160740 2000 RW_{69}	16.6	X	323.52352	278.43141	37.20621	2.85864	0.2222182	0.27526284	2.3404767	21	5 27.2	18.5
160741 2000 RE_{72}	16.5	X	266.72113	203.79158	182.97483	2.01965	0.2100653	0.27271407	2.3550368	21	6 17.7	19.6
160742 2000 RT_{83}	16.0	X	295.93133	27.75135	337.99791	5.18953	0.1302594	0.27522304	2.3407023	21	7 12.9	18.6
160743 2000 RU_{84}	16.6	X	258.41388	70.02191	312.83830	2.97458	0.0546851	0.27513164	2.3412207	21	6 23.9	19.6
160744 2000 RO_{91}	16.7	X	276.12141	124.61686	242.43306	1.49453	0.2315187	0.27375923	2.3490389	21	5 29.5	19.8
160745 2000 RW_{95}	16.1	X	297.27381	49.76616	235.90692	11.14696	0.2597621	0.27122013	2.3636768	21	2 25.2	19.8
160746 2000 RD_{100}	17.0	X	291.14191	230.87327	153.04364	3.55604	0.1751942	0.27769049	2.3268160	21	7 23.1	19.6
160747 2000 SR_{9}	16.3	X	317.70797	318.04662	338.23550	11.97704	0.2180931	0.27310029	2.3528159	21	4 12.0	19.2
160748 2000 SM_{35}	16.3	X	296.44693	157.14644	168.97654	8.25724	0.2009879	0.27332641	2.3515181	21	5 5.2	19.4
160749 2000 SZ_{74}	16.7	X	309.32397	325.22834	68.61960	3.39581	0.2013858	0.27960179	2.3162001	21	9 11.4	18.5
160750 2000 SR_{78}	16.2	X	247.02487	347.26184	77.06659	3.08011	0.2196659	0.22698870	2.6615414	21	7 15.6	20.2
160751 2000 SC_{83}	16.4	X	341.73968	287.54455	345.07934	5.06725	0.2048708	0.27363458	2.3497522	21	4 26.7	18.3
160752 2000 SQ_{84}	16.5	X	261.11030	260.49140	167.43448	4.18923	0.2080092	0.27641860	2.3339482	21	8 6.9	19.5
160753 2000 SW_{84}	16.0	X	319.86515	128.53639	177.50250	6.45941	0.1526684	0.27255736	2.3559394	21	5 20.0	18.5
160754 2000 SM_{88}	16.8	X	261.34350	317.74795	59.77322	4.74093	0.1693001	0.27188225	2.3598378	21	6 3.6	20.2
160755 2000 SE_{94}	16.3	X	356.89968	357.30415	312.07485	7.52918	0.0942149	0.27858444	2.3218357	21	8 10.3	18.5
160756 2000 SE_{96}	16.0	X	179.03823	144.07407	312.01312	5.76831	0.0736470	0.27189727	2.3597509	21	6 24.6	19.4
160757 2000 SU_{98}	16.3	X	236.64575	50.16801	335.31635	5.06050	0.1864984	0.27032705	2.3688799	21	5 15.8	20.2
160758 2000 SM_{99}	14.8	X	287.66478	146.59889	221.72860	6.97050	0.0307540	0.17988427	3.1079493	21	7 15.9	19.2
160759 2000 SV_{101}	16.0	X	168.23414	112.71568	332.89675	3.58482	0.1189169	0.26828851	2.3808644	21	5 29.3	19.5
160760 2000 SV_{103}	16.7	X	294.22351	123.24880	215.39799	2.86129	0.1937680	0.27340273	2.3510804	21	5 19.0	19.4
160761 2000 SE_{105}	16.6	X	336.05516	286.01366	39.24850	5.16742	0.2957917	0.27795176	2.3253577	21	7 1.9	17.8
160762 2000 SL_{106}	16.9	X	236.56289	190.00419	189.92573	0.92042	0.1925457	0.26949872	2.3737314	21	5 10.0	20.5
160763 2000 SJ_{108}	16.7	X	292.38105	183.67729	182.99867	1.98563	0.1937362	0.27545504	2.3393878	21	6 26.0	19.2
160764 2000 SJ_{125}	16.5	X	245.54508	208.65003	154.31634	5.84913	0.2502379	0.26815797	2.3816371	21	4 24.4	20.5
160765 2000 SK_{126}	16.0	X	234.98654	235.92335	146.34492	5.97762	0.1755791	0.26784580	2.3834872	21	5 14.6	19.8
160766 2000 SY_{130}	14.6	X	223.15525	206.78157	227.22087	16.77234	0.1212745	0.18018855	3.1044494	21	7 8.5	19.7
160767 2000 SS_{133}	16.3	X	304.72927	67.16214	237.03643	7.56910	0.1465948	0.27150467	2.3620251	21	4 20.9	19.2
160768 2000 SQ_{137}	16.8	X	327.98350	23.19747	298.77184	2.85946	0.2619682	0.27691156	2.3311774	21	6 8.9	18.5
160769 2000 SM_{152}	16.6	X	294.19993	121.47204	201.46551	4.44989	0.2385680	0.27129178	2.3632606	21	4 20.1	19.6
160770 2000 SF_{188}	16.6	X	282.66088	303.18715	34.86845	4.02031	0.1943011	0.27111924	2.3642632	21	5 2.5	19.8
160771 2000 SM_{195}	15.7	X	110.76066	113.47901	249.54461	1.03584	0.0549712	0.20484756	2.8500262	21	—	—
160772 2000 SU_{199}	16.4	X	123.58528	97.26069	181.38752	10.16478	0.2464564	0.24533918	2.5271136	21	12 21.3	21.0
160773 2000 SG_{206}	16.9	X	261.11375	200.61184	166.60611	1.35078	0.1910646	0.27079272	2.3661634	21	5 18.4	20.2
160774 2000 SK_{217}	16.4	X	304.34839	235.56493	97.99680	5.37500	0.2517953	0.27388182	2.3483379	21	5 17.6	19.0
160775 2000 SW_{234}	15.2	X	221.94083	130.55858	180.10807	11.03100	0.0629274	0.21449635	2.7639029	21	2 6.7	19.4
160776 2000 SP_{241}	16.3	X	18.65025	315.07707	24.82004	5.67555	0.2676489	0.28635373	2.2796464	21	12 4.3	18.6
160777 2000 SL_{243}	16.4	X	359.19266	249.44493	38.34670	4.86463	0.2055371	0.27839323	2.3228987	21	7 13.2	17.9
160778 2000 SA_{250}	16.8	X	337.40423	166.38272	134.75144	3.11114	0.1735357	0.27537254	2.3398551	21	6 11.5	18.7
160779 2000 SV_{257}	17.0	X	297.83006	315.29056	42.46455	3.58868	0.1261904	0.27490185	2.3425252	21	7 3.8	19.7
160780 2000 SL_{267}	16.5	X	315.44061	241.35512	57.78924	2.74140	0.2170304	0.27206997	2.3587522	21	4 19.9	19.0
160781 2000 SK_{277}	15.8	X	324.03042	340.85567	46.84795	5.64112	0.2093529	0.27924523	2.3181714	21	10 7.7	17.2
160782 2000 SY_{284}	15.8	X	128.47290	174.78354	278.90374	5.99798	0.0813597	0.26394856	2.4068915	21	4 18.3	19.0
160783 2000 SB_{292}	16.4	X	324.42122	28.67518	247.58726	4.82070	0.0948692	0.26964959	2.3728460	21	4 19.6	19.0
160784 2000 SF_{326}	15.3	X	151.10377	185.49235	14.70468	17.28139	0.1404114	0.23429565	2.6059129	21	10 8.5	19.4
160785 2000 SV_{337}	17.2	X	182.41734	291.12616	43.51873	2.85088	0.2238614	0.25988359	2.4319248	21	1 30.2	21.2
160786 2000 SM_{356}	15.9	X	225.57652	305.09599	70.92152	13.28108	0.1477479	0.26805195	2.3822650	21	4 30.9	19.6
160787 2000 SE_{361}	16.8	X	245.62430	161.52759	259.26937	1.75746	0.2495687	0.27524476	2.3405792	21	7 6.2	20.2
160788 2000 TF_{21}	16.4	X	274.23125	217.30905	136.75879	8.45972	0.1288029	0.27235516	2.3571053	21	5 26.2	19.6
160789 2000 TJ_{23}	16.3	X	346.15570	226.03966	38.34874	2.82135	0.1950387	0.27112643	2.3642214	21	4 27.4	18.0
160790 2000 TP_{42}	16.2	X	330.95522	163.22878	158.67684	15.07836	0.1168412	0.22917088	2.6446189	21	7 8.1	19.4
160791 2000 TF_{45}	15.9	X	209.47016	291.76818	118.55173	8.11997	0.1721889	0.26936820	2.3744982	21	5 26.7	19.7
160792 2000 TS_{50}	16.4	X	271.67485	199.86603	130.23569	7.60911	0.2172520	0.26883394	2.3776430	21	4 10.9	20.0
160793 2000 TN_{54}	15.7	X	330.58651	132.31747	104.44281	7.02221	0.0662128	0.26246538	2.4159505	21	3 14.3	18.6
160794 2000 UC_{7}	16.5	X	242.16159	191.32264	201.81950	2.55526	0.2426233	0.26995101	2.3710793	21	5 28.8	20.2
160795 2000 UA_{17}	16.0	X	284.48529	72.00777	237.67995	3.84260	0.1573477	0.26702921	2.3883439	21	3 31.6	19.3
160796 2000 UL_{20}	16.8	X	196.34250	295.28653	160.84844	1.25731	0.1504877	0.27027843	2.3691640	21	7 12.1	20.5
160797 2000 UM_{22}	16.1	X	174.30548	270.10530	133.12590	3.28178	0.2036181	0.26191931	2.4193073	21	4 16.4	20.0
160798 2000 UH_{59}	15.9	X	155.86231	162.93644	283.00388	4.47478	0.1083965	0.26481550	2.4016356	21	5 15.4	19.5
160799 2000 UN_{65}	17.0	X	241.59867	7.84475	331.74757	2.87926	0.1402699	0.26497164	2.4006921	21	3 26.5	20.7
160800 2000 UF_{71}	16.7	X	302.64127	46.32591	312.41162	1.84919	0.2430323	0.27494879	2.3422586	21	6 21.8	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160801 2000 UP_{90}	16.2	X	180.01476	111.99568	302.48897	1.78884	0.1882466	0.26249661	2.4157589	21	5 2.9	20.2
160802 2000 VP_{14}	16.3	X	238.35268	208.38864	191.99499	5.72746	0.1408608	0.26947145	2.3738916	21	6 12.5	19.8
160803 2000 VF_{26}	16.8	X	229.67455	335.37237	55.79005	2.71533	0.1897658	0.26755224	2.3852303	21	5 18.1	20.4
160804 2000 VQ_{28}	15.8	X	266.41060	258.33782	105.22317	4.92646	0.2616969	0.26971455	2.3724649	21	5 12.4	19.4
160805 2000 VQ_{32}	16.7	X	200.12878	237.25254	164.61349	2.11784	0.2107012	0.26395083	2.4068778	21	5 5.8	20.8
160806 2000 VE_{42}	16.9	X	322.17092	352.13592	341.14400	1.95768	0.2297239	0.27514813	2.3411272	21	6 21.6	18.9
160807 2000 VB_{44}	16.4	X	248.29937	358.21414	11.80510	2.78868	0.1475017	0.26754458	2.3852759	21	5 11.9	19.9
160808 2000 VJ_{46}	16.3	X	277.36717	13.18385	343.86816	6.21153	0.1647024	0.26966404	2.3727612	21	5 25.2	19.6
160809 2000 VJ_{51}	16.6	X	247.33608	318.23043	355.76980	5.81742	0.1437853	0.26133510	2.4229115	21	3 1.9	20.2
160810 2000 VE_{54}	16.0	X	242.81316	9.81101	0.39547	6.23775	0.1404874	0.26662611	2.3907505	21	5 5.5	19.7
160811 2000 VH_{55}	15.4	X	192.76218	35.11453	350.76001	3.42938	0.2170713	0.26195910	2.4190623	21	4 8.3	19.4
160812 2000 WN_{3}	15.3	X	254.92949	222.91922	158.44167	24.48811	0.2781935	0.26951244	2.3736508	21	5 26.8	19.7
160813 2000 WY_{14}	16.1	X	104.99884	20.27804	44.32996	5.47846	0.1077899	0.25268023	2.4779272	21	2 17.8	19.1
160814 2000 WA_{42}	15.1	X	218.47890	200.12093	45.95393	13.61737	0.0986686	0.24709181	2.5151496	21	—	—
160815 2000 WV_{43}	16.0	X	251.69518	249.42557	105.46497	5.49291	0.2538040	0.26642868	2.3919315	21	4 19.9	19.9
160816 2000 WO_{69}	16.1	X	316.85173	24.87009	345.24148	6.30517	0.2105394	0.27752706	2.3277294	21	8 16.9	17.7
160817 2000 WK_{72}	15.7	X	248.79704	239.17465	293.10665	23.50248	0.0432752	0.37691351	1.8980526	21	—	—
160818 2000 WH_{95}	16.0	X	212.33634	5.15843	6.55595	0.77410	0.2071597	0.26180284	2.4200248	21	4 7.8	19.9
160819 2000 WE_{122}	16.4	X	212.91915	333.60483	38.44417	2.45369	0.1975557	0.26202369	2.4186647	21	4 9.3	20.3
160820 2000 WD_{125}	16.6	X	287.90713	246.12515	113.46845	6.55026	0.2060764	0.27317265	2.3524004	21	6 7.8	19.5
160821 2000 WH_{133}	16.0	X	324.80310	359.25018	341.24076	6.50030	0.1371827	0.27497507	2.3421093	21	7 26.4	18.1
160822 2000 WY_{149}	16.8	X	295.05036	68.25362	205.55829	1.77130	0.2118245	0.26257918	2.4152524	21	2 19.2	20.2
160823 2000 WL_{180}	16.6	X	208.03597	277.05330	137.50719	5.32718	0.2235425	0.26605183	2.3941896	21	5 28.7	20.6
160824 2000 WU_{180}	16.2	X	290.72135	4.42186	322.64899	6.18666	0.1372593	0.26851628	2.3795179	21	5 4.0	19.4
160825 2000 WV_{196}	15.4	X	144.49188	66.87321	310.42235	5.27000	0.1490935	0.25244297	2.4794796	21	2 8.6	18.8
160826 2000 XT_{4}	14.6	X	239.45973	79.55124	312.79988	8.77574	0.3087673	0.12562728	3.9483297	21	5 23.5	21.3
160827 2000 XA_{8}	15.7	X	257.23226	51.05001	340.93947	5.08388	0.2235819	0.26971526	2.3724607	21	6 12.1	19.3
160828 2000 XP_{27}	15.6	X	39.17573	23.61941	55.40870	15.66446	0.0562515	0.24345820	2.5401134	21	—	—
160829 2000 XU_{27}	16.4	X	243.85880	28.05059	354.34240	4.61110	0.2610218	0.26686298	2.3893357	21	5 13.4	20.4
160830 2000 XJ_{30}	15.4	X	51.65910	8.33959	44.75832	13.19666	0.0707203	0.24363061	2.5389149	21	—	—
160831 2000 XK_{39}	14.9	X	84.82422	23.94512	10.67562	12.28545	0.0971304	0.24535404	2.5270116	21	—	—
160832 2000 YF_{12}	15.2	X	213.56041	1.84588	93.66155	25.03986	0.1590014	0.27282875	2.3543767	21	7 29.8	19.0
160833 2000 YN_{14}	15.4	X	249.45843	15.08728	112.95682	3.62736	0.0349457	0.17981225	3.1087791	21	10 29.2	19.8
160834 2000 YD_{51}	15.6	X	251.91082	92.09930	297.28581	5.92330	0.2735477	0.26794794	2.3828814	21	5 29.0	19.4
160835 2000 YY_{56}	15.9	X	217.25669	280.80642	103.68885	5.99456	0.1815520	0.26203068	2.4186218	21	5 1.2	19.8
160836 2000 YS_{68}	15.2	X	98.50398	56.63235	131.56992	8.67017	0.1543380	0.20981518	2.8048616	21	7 31.7	19.3
160837 2000 YQ_{70}	16.3	X	227.09645	290.93002	109.23478	4.23886	0.2998041	0.26747018	2.3857182	21	5 22.4	20.5
160838 2000 YF_{79}	16.6	X	186.86901	52.13652	3.51159	0.84266	0.2265365	0.26240942	2.4162940	21	5 11.4	20.7
160839 2000 YG_{97}	15.7	X	51.76919	125.40870	300.25918	12.07962	0.1623539	0.24241082	2.5474248	21	—	—
160840 2000 YG_{113}	16.2	X	168.97301	69.48157	339.78721	2.52453	0.1694051	0.25685784	2.4509860	21	4 15.5	20.2
160841 2000 YX_{117}	15.9	X	76.48910	104.58559	321.73911	3.44139	0.1814568	0.24526607	2.5276158	21	1 16.1	18.2
160842 2000 YE_{142}	15.2	X	316.81109	181.35713	251.25206	9.09436	0.0635708	0.19059910	2.9903509	21	11 14.0	19.0
160843 2001 AC_{41}	15.7	X	99.48279	159.20330	129.16211	11.19076	0.0249447	0.22834055	2.6510262	21	11 27.8	19.5
160844 2001 AB_{47}	14.2	X	38.26410	59.85478	22.73341	29.42978	0.1756102	0.24226793	2.5484264	21	—	—
160845 2001 AS_{48}	16.9	X	157.77646	108.13652	139.25784	23.43144	0.0693985	0.37354933	1.9094315	21	—	—
160846 2001 BV_{56}	16.2	X	84.39648	311.01538	97.12742	3.04848	0.1616707	0.24352210	2.5396691	21	1 2.1	18.8
160847 2001 BD_{68}	15.9	X	350.27238	64.79349	335.20271	20.27126	0.0601866	0.37126525	1.9172549	21	—	—
160848 2001 BN_{82}	17.0	X	320.82421	301.20973	44.85891	2.90234	0.2550619	0.28054007	2.3110329	21	7 5.9	18.5
160849 2001 CH_{15}	15.5	X	108.86424	201.60060	114.06418	10.50004	0.0804694	0.23177451	2.6247762	21	—	—
160850 2001 CB_{20}	16.6	X	5.36779	293.65262	139.53172	24.00026	0.1186035	0.37704201	1.8976213	21	—	—
160851 2001 CX_{43}	16.4	X	0.16199	8.61553	26.52645	22.14272	0.0595306	0.37078263	1.9189182	21	—	—
160852 2001 CT_{44}	15.0	X	160.89529	119.55096	17.81954	17.52313	0.0681575	0.21327592	2.7744368	21	8 4.7	19.5
160853 2001 DA_{11}	15.4	X	163.91998	278.89421	337.85033	14.10553	0.0459461	0.22936530	2.6431242	21	—	—
160854 2001 DV_{25}	15.8	X	178.79970	58.35296	344.26889	9.90018	0.2734407	0.25584326	2.4574615	21	4 16.7	20.2
160855 2001 DH_{81}	14.9	X	157.63036	329.58155	24.63077	13.64092	0.1939622	0.23851572	2.5750839	21	2 6.4	19.2
160856 2001 DU_{92}	12.5	X	15.28271	2.38775	28.40075	7.62947	0.0911279	0.08238529	5.2308177	21	11 24.3	19.0
160857 2001 EU_{21}	15.9	X	57.69786	281.11473	274.04642	5.97606	0.2547310	0.20428309	2.8552739	21	7 2.6	19.3
160858 2001 FA_{121}	15.3	X	244.48822	191.21475	54.39873	9.15785	0.2635118	0.18250611	3.0781122	21	—	—
160859 2001 FH_{122}	15.1	X	17.52761	265.22725	180.89824	17.11087	0.1326609	0.18588993	3.0406433	21	—	—
160860 2001 FV_{142}	15.7	X	52.54879	138.53270	165.46887	7.01550	0.0431806	0.21706172	2.7420827	21	10 19.5	19.4
160861 2001 FE_{186}	14.6	X	279.97706	69.25554	124.46084	15.02339	0.0748232	0.18434057	3.0576570	21	—	—
160862 2001 GD_{5}	14.9	X	232.68728	75.39851	193.72646	25.02452	0.2767877	0.18109784	3.0940491	21	—	—
160863 2001 HG_{20}	15.1	X	255.17315	91.00418	138.17375	19.63400	0.3383442	0.18045234	3.1014232	21	—	—
160864 2001 HG_{51}	16.0	X	165.53512	251.56828	14.00490	7.35337	0.1050721	0.27270418	2.3550937	21	—	—
160865 2001 JK_{2}	15.2	X	247.04528	222.67292	114.26455	10.35079	0.1034488	0.19187575	2.9770719	21	4 13.8	19.9
160866 2001 KM_{11}	15.1	X	220.26980	205.73870	81.44231	8.13697	0.1464626	0.18117749	3.0931422	21	1 14.9	20.2
160867 2001 KS_{25}	16.9	X	28.09784	354.30421	272.73016	5.37856	0.1641325	0.30049696	2.2075438	21	8 11.9	18.8
160868 2001 KS_{32}	16.1	X	241.57724	209.16110	91.53901	6.08016	0.1401161	0.23537921	2.5979093	21	2 12.5	20.2
160869 2001 KM_{39}	14.8	X	148.68611	111.83869	223.52315	24.67001	0.3609947	0.17257995	3.1950365	21	1 17.3	20.8
160870 2001 KU_{55}	14.9	X	194.55364	159.32340	129.88518	11.55249	0.1991680	0.17644079	3.1482561	21	—	—
160871 2001 KM_{66}	14.5	X	170.52435	104.37258	219.95536	15.30805	0.2819810	0.17602361	3.1532284	21	1 17.8	20.3
160872 2001 NS_{6}	15.5	X	293.76135	7.53797	221.97116	13.56866	0.1991795	0.23012725	2.6372868	21	—	—
160873 2001 NE_{14}	14.5	X	72.85544	83.87092	328.28370	13.52268	0.0308036	0.17228951	3.1986262	21	—	—
160874 2001 NQ_{18}	14.2	X	181.33803	75.48448	301.05834	9.80837	0.2466334	0.17960584	3.1111605	21	3 22.1	19.8
160875 2001 OQ_{21}	14.0	X	16.41166	59.21061	337.32710	16.41835	0.1492487	0.15671958	3.4071182	21	12 27.5	18.6
160876 2001 ON_{66}	15.4	X	195.70471	23.16954	332.30576	9.69326	0.1024554	0.23166480	2.6256047	21	3 4.7	19.5
160877 2001 OP_{77}	14.6	X	164.24924	71.01165	309.04270	25.40709	0.2081513	0.17890021	3.1193360	21	3 4.5	20.2
160878 2001 OO_{82}	14.3	X	146.03409	144.87516	253.09077	16.72545	0.1338212	0.17823521	3.1270900	21	3 8.2	19.5
160879 2001 OC_{100}	16.3	X	204.70530	53.78415	322.69529	4.00359	0.1873605	0.28176260	2.3043432	21	4 4.1	20.1
160880 2001 PJ_{10}	14.6	X	111.02979	102.90576	306.52292	8.65214	0.0686112	0.17572772	3.1567670	21	2 10.8	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160881 2001 PJ_{12}	14.5	X	143.52719	15.12194	5.51548	19.11496	0.1896587	0.17405230	3.1769926	21	3 4.4	19.7
160882 2001 PC_{29}	14.5	X	235.63711	314.23887	287.79119	3.88016	0.1152215	0.17074049	3.2179432	21	—	—
160883 2001 QW_{2}	14.0	X	70.19046	130.80388	308.40355	17.07305	0.1783224	0.17334776	3.1855950	21	2 7.8	17.9
160884 2001 QT_{39}	14.8	X	71.53626	281.32615	133.00925	5.91334	0.1368269	0.17127005	3.2113065	21	1 7.1	18.7
160885 2001 QF_{110}	15.6	X	241.97140	286.99655	108.51394	4.85478	0.1068404	0.24126698	2.5554700	21	6 14.3	19.3
160886 2001 QB_{135}	16.0	X	299.37582	342.81427	315.95722	8.07451	0.2721988	0.28465131	2.2887267	21	3 14.9	19.4
160887 2001 QD_{223}	15.2	X	124.38099	359.34968	352.47680	1.01849	0.1443418	0.16874531	3.2432585	21	1 1.8	19.9
160888 2001 QT_{258}	14.4	X	29.64837	44.15524	300.86407	8.67211	0.0754705	0.15199029	3.4774334	21	10 29.8	19.3
160889 2001 QX_{279}	16.3	X	234.77317	321.64446	39.98392	7.29775	0.1289481	0.28294992	2.2978923	21	4 18.2	19.5
160890 2001 QH_{282}	13.8	X	48.00947	96.19445	269.39680	15.19888	0.1865014	0.15570116	3.4219591	21	—	—
160891 2001 RU_{82}	16.3	X	142.70672	31.54955	206.85496	5.77820	0.1293850	0.30501806	2.1856755	21	11 26.6	19.4
160892 2001 RN_{112}	16.5	X	291.36440	359.53929	150.77897	3.06595	0.0965978	0.26106032	2.4246113	21	—	—
160893 2001 RH_{116}	16.9	X	311.99430	191.93705	147.19600	3.37582	0.1230763	0.29068506	2.2569446	21	6 29.4	19.1
160894 2001 SP_{87}	16.4	X	228.07361	112.10997	286.71145	2.42437	0.0765056	0.23691370	2.5866794	21	6 5.0	19.9
160895 2001 SN_{107}	16.6	X	115.72735	2.37099	337.45165	6.65274	0.2420293	0.31037072	2.1604732	21	—	—
160896 2001 SU_{199}	17.0	X	275.40760	268.36050	18.36985	4.17461	0.0372786	0.27792596	2.3255016	21	3 6.7	20.0
160897 2001 SB_{257}	17.1	X	144.87481	144.39370	187.28046	3.86889	0.1977994	0.31444406	2.1417747	21	—	—
160898 2001 SY_{262}	17.4	X	314.23493	110.02375	218.96244	20.59435	0.1092058	0.38844243	1.8603084	21	6 14.2	19.1
160899 2001 SG_{287}	15.8	X	159.94151	262.80108	148.83568	8.69292	0.3106582	0.22280519	2.6947544	21	4 24.1	20.7
160900 2001 SZ_{306}	16.6	X	173.08923	268.75323	154.53223	6.27781	0.2420326	0.23004150	2.6379420	21	5 13.7	21.3
160901 2001 SJ_{339}	16.5	X	230.61571	304.10551	116.57092	3.93402	0.1624470	0.23895409	2.5719335	21	6 29.4	20.4
160902 2001 SL_{342}	16.0	X	54.10578	128.30830	341.90610	7.82826	0.2658916	0.21442217	2.7645403	21	2 23.9	18.4
160903 Shiokaze	16.7	X	179.35593	13.60486	62.56342	1.41417	0.0884507	0.23128924	2.6284462	21	5 30.1	20.5
160904 2001 TR_{102}	16.9	X	192.38066	248.46115	199.76457	5.02934	0.2436406	0.23239302	2.6201168	21	6 26.2	21.5
160905 2001 TL_{206}	16.3	X	214.92893	351.04962	199.56122	2.04251	0.1223508	0.25448891	2.4661726	21	12 3.9	19.6
160906 2001 UB_{12}	16.7	X	155.51218	231.59210	98.21245	2.98006	0.2081593	0.31277926	2.1493679	21	—	—
160907 2001 UJ_{87}	16.9	X	97.27664	2.56539	230.28026	1.24985	0.1733889	0.29070993	2.2568159	21	10 4.2	20.0
160908 2001 UM_{138}	17.1	X	217.19023	197.71788	43.03341	5.35733	0.0672856	0.31009399	2.1617584	21	—	—
160909 2001 UD_{217}	16.3	X	195.18883	218.49642	55.95407	6.88981	0.0357491	0.21094992	2.7947941	21	—	—
160910 2001 VO_{6}	15.7	X	125.28550	293.01013	35.84254	4.75137	0.1066643	0.20890205	2.8130292	21	—	—
160911 2001 VV_{54}	16.8	X	26.60334	46.31365	7.29255	6.90108	0.0416213	0.30568769	2.1824824	21	—	—
160912 2001 WU_{27}	16.7	X	61.42203	283.87739	115.76951	3.35068	0.1708258	0.30794984	2.1717811	21	—	—
160913 2001 WH_{47}	16.0	X	9.36651	87.12672	294.77104	4.57986	0.1763121	0.29472051	2.2362953	21	—	—
160914 2001 XE_{13}	15.7	X	68.13921	107.73034	335.25179	10.74452	0.1616182	0.21037219	2.7999084	21	2 2.5	18.9
160915 2001 XO_{40}	16.3	X	42.97083	353.32687	4.36239	7.76676	0.1626819	0.29862859	2.2167419	21	—	—
160916 2001 XB_{44}	15.1	X	141.46598	309.94275	330.32632	10.53520	0.0624209	0.19705666	2.9246595	21	12 30.0	19.6
160917 2001 XA_{82}	16.0	X	86.35730	351.86197	113.56995	4.50232	0.1567784	0.21689260	2.7435080	21	3 31.1	19.4
160918 2001 XB_{88}	15.0	X	149.85340	62.92648	94.62931	6.03955	0.1726435	0.17533911	3.1614296	21	8 15.3	20.2
160919 2001 XL_{101}	16.5	X	354.14391	84.94355	304.32119	5.35765	0.1117303	0.29432242	2.2383113	21	12 11.8	18.8
160920 2001 XT_{109}	15.4	X	283.34127	48.41607	96.40796	7.57475	0.1790258	0.20028991	2.8930993	21	12 16.7	18.7
160921 2001 XH_{115}	16.1	X	79.65290	53.43961	311.16330	6.74432	0.1005209	0.30238812	2.1983301	21	—	—
160922 2001 XN_{117}	16.0	X	335.61020	73.31346	338.29813	6.91007	0.1046532	0.29289538	2.2455757	21	12 10.3	18.3
160923 2001 XN_{135}	16.3	X	201.21614	56.59878	97.38187	5.76037	0.1829265	0.23806270	2.5783497	21	9 29.7	20.5
160924 2001 XT_{140}	16.8	X	135.91989	228.36721	78.84617	3.98934	0.1855569	0.30703854	2.1760763	21	—	—
160925 2001 XA_{157}	16.2	X	247.59708	143.78780	340.07626	7.33840	0.0608677	0.29159835	2.2522297	21	10 29.7	19.0
160926 2001 XV_{172}	15.9	X	13.99819	77.58770	115.90988	6.46561	0.0951340	0.26613449	2.3936939	21	3 18.3	18.4
160927 2001 XV_{193}	16.4	X	18.04689	254.70085	120.85468	7.81784	0.1767619	0.29494457	2.2351626	21	—	—
160928 2001 XZ_{200}	15.2	X	345.42871	202.72009	79.04181	24.05869	0.0974676	0.22837479	2.6507612	21	6 7.6	18.1
160929 2001 XW_{237}	16.0	X	150.86027	263.52330	282.22510	4.38294	0.1701975	0.23475761	2.6024932	21	9 18.7	20.3
160930 2001 XF_{243}	16.1	X	2.27603	139.22606	106.52271	7.07137	0.0756295	0.27178205	2.3604178	21	5 14.7	18.7
160931 2001 XE_{248}	16.3	X	305.37751	315.90825	285.58056	6.96460	0.1636177	0.26149567	2.4219195	21	1 26.4	19.5
160932 2001 YO	16.3	X	7.62590	89.71854	269.35543	7.02861	0.1592553	0.29191422	2.2506047	21	11 26.7	18.4
160933 2001 YX_{26}	16.6	X	115.00376	52.64173	7.97499	3.56932	0.0955774	0.21595273	2.7514624	21	2 28.7	20.3
160934 2001 YA_{63}	16.1	X	354.85395	102.23444	306.11708	4.38788	0.1297003	0.29711844	2.2242468	21	—	—
160935 2001 YV_{68}	16.4	X	52.94155	132.15554	77.37030	4.88933	0.0797742	0.27400014	2.3476618	21	6 15.5	18.7
160936 2001 YD_{84}	16.2	X	2.92430	56.66060	301.58642	4.35896	0.1689339	0.29067991	2.2569713	21	11 17.2	18.2
160937 2001 YM_{84}	16.0	X	319.99068	310.13261	295.10699	7.41417	0.1893883	0.26355210	2.4093047	21	2 13.3	19.2
160938 2001 YR_{104}	16.1	X	349.53183	26.31694	162.86719	3.21481	0.1326136	0.26079858	2.4262334	21	1 22.3	18.8
160939 2002 AJ_{2}	16.0	X	275.87874	188.93697	8.07223	20.64999	0.0279223	0.35428422	1.9780390	21	—	—
160940 2002 AK_{5}	16.1	X	314.46893	338.66335	91.37264	6.25035	0.2441832	0.24179501	2.5517482	21	11 9.3	18.0
160941 2002 AM_{9}	14.6	X	153.39880	156.64939	302.13957	14.54225	0.0527918	0.17034187	3.2229614	21	5 29.5	19.6
160942 2002 AV_{33}	16.3	X	320.94638	117.46037	131.47603	1.90994	0.1407588	0.26517754	2.3994492	21	3 1.7	19.1
160943 2002 AR_{34}	15.9	X	340.70204	79.05063	303.38216	3.93084	0.1802119	0.28965799	2.2622766	21	11 9.3	17.6
160944 2002 AY_{37}	15.9	X	71.78163	319.52412	108.75858	4.94283	0.0835087	0.20987929	2.8042904	21	1 9.3	19.3
160945 2002 AD_{40}	14.7	X	221.72950	201.39203	293.08506	12.60919	0.0973815	0.18440826	3.0569087	21	9 19.0	19.6
160946 2002 AA_{49}	16.7	X	30.58711	66.33517	295.20321	3.25027	0.1858335	0.29447396	2.2375433	21	—	—
160947 2002 AX_{59}	16.1	X	252.42854	138.93465	297.87424	5.82001	0.1177772	0.28238454	2.3009584	21	8 21.3	19.1
160948 2002 AT_{76}	16.9	X	19.04615	351.33385	58.63083	3.57841	0.1699905	0.30013567	2.2093150	21	—	—
160949 2002 AD_{99}	15.7	X	304.79836	258.93144	319.35898	8.52878	0.1773181	0.25644571	2.4536113	21	—	—
160950 2002 AK_{107}	15.6	X	259.44812	302.73184	94.07343	3.12222	0.1432700	0.17851818	3.1237846	21	7 2.4	20.2
160951 2002 AR_{110}	16.4	X	18.42175	293.46378	102.05343	5.87935	0.1437704	0.29641117	2.2277836	21	—	—
160952 2002 AG_{111}	16.2	X	357.78472	297.44008	100.96485	5.98830	0.1408130	0.29365756	2.2416885	21	—	—
160953 2002 AA_{116}	16.4	X	17.98443	227.31109	117.89157	2.79424	0.2612704	0.29090443	2.2558099	21	12 11.9	18.8
160954 2002 AF_{122}	16.0	X	252.21813	126.02851	328.68712	4.95548	0.1127212	0.28455863	2.2892236	21	9 17.0	18.7
160955 2002 AN_{126}	16.4	X	0.97165	53.92497	278.07047	5.16564	0.1397458	0.28539504	2.2847487	21	9 25.1	18.4
160956 2002 AU_{129}	15.6	X	147.03733	83.56609	348.95409	24.68009	0.1857041	0.22031487	2.7150230	21	4 16.3	20.3
160957 2002 AD_{142}	16.8	X	89.76722	197.51067	170.10526	2.48790	0.2103341	0.25433442	2.4671712	21	—	—
160958 2002 AS_{156}	16.2	X	286.67753	349.94623	293.10447	2.03736	0.1071115	0.26222369	2.4174348	21	3 6.7	19.6
160959 2002 AZ_{159}	16.1	X	301.85610	157.51577	134.54901	6.71770	0.1389022	0.26677376	2.3898684	21	4 6.1	19.1
160960 2002 AU_{162}	16.0	X	291.35493	122.50073	280.82709	4.81172	0.1620277	0.28410232	2.2916741	21	8 23.6	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
160961 2002 AW_{178}	16.1	X	327.19445	240.17536	122.12820	7.28783	0.1348530	0.28159505	2.3052571	21	9 7.5	18.0
160962 2002 AA_{182}	15.7	X	65.25207	104.89322	93.12626	10.68984	0.1787797	0.22229141	2.6989050	21	7 5.7	18.9
160963 2002 AP_{182}	16.7	X	60.40236	191.43867	155.71236	6.06516	0.1911855	0.29619019	2.2288915	21	—	—
160964 2002 AY_{201}	16.6	X	311.23262	189.37277	205.19189	3.88787	0.1134915	0.28611549	2.2809117	21	9 25.7	18.6
160965 2002 BB_{5}	15.8	X	97.63792	229.19304	23.23222	13.67899	0.0762664	0.23370371	2.6103114	21	10 14.6	19.3
160966 2002 BO_{7}	15.5	X	124.94933	58.31450	129.09663	12.74404	0.1288414	0.22592715	2.6698720	21	8 28.5	19.6
160967 2002 BQ_{15}	16.1	X	243.43627	322.68851	310.14515	14.02302	0.1176468	0.25482220	2.4640218	21	1 9.2	19.8
160968 2002 BP_{23}	15.1	X	61.37472	246.28811	358.68467	13.91852	0.1273237	0.22795568	2.6540093	21	8 30.1	18.6
160969 2002 BV_{25}	15.2	X	163.02551	108.85891	80.79872	12.73870	0.2193866	0.22748012	2.6577069	21	10 12.1	20.0
160970 2002 CX_{10}	16.5	X	135.93537	76.27001	90.66126	21.75222	0.0571623	0.37443740	1.9064111	21	8 20.5	19.0
160971 2002 CM_{13}	15.4	X	326.99751	276.17368	316.83560	11.56598	0.0598173	0.21112738	2.7932277	21	3 5.9	19.3
160972 2002 CX_{23}	16.3	X	355.26370	46.88152	183.58886	6.66572	0.0709346	0.26618739	2.3933767	21	4 8.9	18.8
160973 2002 CO_{26}	15.3	X	171.80854	205.55075	282.30826	25.07164	0.1648819	0.28172376	2.3045550	21	7 24.7	19.2
160974 2002 CL_{38}	16.2	X	196.58653	120.47709	124.93636	6.00240	0.2195103	0.24155389	2.5534461	21	—	—
160975 2002 CO_{38}	15.8	X	328.53232	336.50324	334.16641	5.90753	0.1428865	0.27176617	2.3605097	21	6 12.2	18.2
160976 2002 CV_{52}	16.3	X	292.22220	314.29663	283.72942	1.59095	0.1524713	0.25778236	2.4451223	21	1 10.5	19.8
160977 2002 CH_{59}	15.8	X	203.42844	288.75801	345.97949	6.93887	0.1483345	0.24554744	2.5256846	21	—	—
160978 2002 CU_{60}	15.6	X	264.17811	143.50220	107.25832	15.86338	0.1439780	0.25434680	2.4670912	21	—	—
160979 2002 CG_{67}	16.2	X	16.02436	309.94450	327.79838	5.88450	0.0939758	0.27613659	2.3355370	21	7 28.8	18.4
160980 2002 CP_{70}	15.7	X	249.58223	108.67699	124.69650	2.86574	0.0582307	0.20034078	2.8926095	21	—	—
160981 2002 CV_{74}	15.8	X	19.46645	281.08920	141.01220	19.92427	0.1526678	0.19705384	2.9246873	21	—	—
160982 2002 CH_{85}	16.1	X	330.62450	176.82651	113.81793	5.03352	0.1869705	0.27065603	2.3669599	21	5 10.8	18.3
160983 2002 CX_{96}	16.2	X	219.56895	243.23454	10.88580	4.30993	0.1313324	0.24631472	2.5204368	21	—	—
160984 2002 CQ_{104}	16.0	X	303.66288	38.64218	9.96028	6.54957	0.2036039	0.28417449	2.2912861	21	9 22.3	17.8
160985 2002 CK_{109}	16.3	X	302.39077	269.60390	352.42196	7.75310	0.0881526	0.25984189	2.4321850	21	3 3.6	19.4
160986 2002 CX_{113}	16.1	X	238.51687	124.94812	130.37306	7.53101	0.1537697	0.25046013	2.4925487	21	—	—
160987 2002 CV_{118}	15.4	X	289.52837	245.60335	343.21836	11.51397	0.1586331	0.25474449	2.4645228	21	—	—
160988 2002 CK_{131}	16.5	X	270.57592	97.08771	309.43385	4.31361	0.1075862	0.27980008	2.3151057	21	8 6.2	19.0
160989 2002 CY_{142}	16.7	X	356.40947	71.74598	156.77000	3.85279	0.1069670	0.26611026	2.3938392	21	4 5.0	19.2
160990 2002 CF_{167}	15.9	X	208.76467	187.41892	44.22258	4.84207	0.1325632	0.24221431	2.5488025	21	—	—
160991 2002 CP_{168}	15.4	X	56.99807	186.59946	350.21466	15.80781	0.1441433	0.21426714	2.7658736	21	5 11.3	19.0
160992 2002 CE_{192}	16.4	X	261.64718	206.56713	84.34102	3.52310	0.1932406	0.26142985	2.4223260	21	2 11.9	20.2
160993 2002 CR_{202}	15.8	X	353.89210	78.00347	82.40921	3.19372	0.0170182	0.20430667	2.8550541	21	1 19.5	19.6
160994 2002 CS_{205}	15.6	X	326.71093	80.18359	329.61753	5.88960	0.1009950	0.18614965	3.0378144	21	10 26.2	19.4
160995 2002 CN_{218}	16.4	X	219.48760	72.62178	6.97998	4.50027	0.1497694	0.27626055	2.3348382	21	7 15.1	19.8
160996 2002 CE_{239}	16.0	X	325.84189	253.66853	315.78572	6.00005	0.0569756	0.25548429	2.4597629	21	1 29.0	18.9
160997 2002 CO_{254}	15.4	X	46.24734	49.47097	319.72343	11.53945	0.1090474	0.19257381	2.9698732	21	—	—
160998 2002 CA_{255}	16.7	X	162.50838	0.04066	209.80995	4.99470	0.1190397	0.28456697	2.2891788	21	11 7.1	20.0
160999 2002 CS_{296}	16.2	X	300.12355	308.39803	133.40419	2.21812	0.2048744	0.18694311	3.0292125	21	10 17.1	19.6
161000 2002 CZ_{302}	16.5	X	303.03445	312.19969	0.14249	2.14890	0.2055333	0.26948607	2.3738057	21	4 21.3	19.4
161001 2002 CG_{310}	16.2	X	355.47822	78.31408	297.55095	3.56741	0.2706039	0.28928616	2.2642148	21	12 18.8	17.9
161002 2002 CQ_{314}	16.2	X	292.51853	147.96086	176.05235	6.65678	0.1328536	0.26845163	2.3798999	21	5 7.6	19.1
161003 2002 DA_{2}	12.3	X	265.35765	5.40977	109.51671	32.20362	0.0343629	0.08217553	5.2397156	21	11 1.9	19.6
161004 2002 DV_{3}	16.5	X	63.70202	176.08384	86.29644	23.98465	0.0539313	0.37880119	1.8917417	21	10 15.5	19.2
161005 2002 DV_{19}	16.5	X	317.03594	40.29365	225.45494	4.00670	0.1185762	0.26421544	2.4052705	21	3 20.9	19.4
161006 2002 EV_{2}	16.1	X	171.37242	115.88459	11.37082	2.31621	0.1544394	0.27399721	2.3476785	21	7 29.6	19.7
161007 2002 EL_{32}	17.3	X	51.29016	316.69513	192.30718	0.90982	0.1282922	0.26015072	2.4302598	21	3 19.8	19.5
161008 2002 EO_{40}	16.2	X	207.25483	67.02414	13.63487	2.37452	0.1870716	0.27348270	2.3506221	21	7 1.1	19.9
161009 2002 EP_{41}	16.3	X	286.95147	116.96941	294.68187	4.43113	0.1639905	0.28277224	2.2988548	21	8 28.7	18.7
161010 2002 EK_{46}	16.0	X	163.87170	289.99070	334.34868	9.43279	0.1786552	0.23735231	2.5834917	21	—	—
161011 2002 EU_{47}	16.0	X	302.36418	273.97611	181.04575	4.11367	0.1367816	0.18748767	3.0233440	21	11 15.9	19.6
161012 2002 EK_{65}	16.1	X	166.18071	335.80901	340.00549	2.86332	0.1445162	0.24608939	2.5219750	21	—	—
161013 2002 EF_{74}	15.9	X	219.12884	15.09033	215.63143	4.53056	0.1188490	0.23983011	2.5656667	21	—	—
161014 2002 ES_{80}	16.3	X	282.46462	147.54825	253.16175	4.20146	0.1563581	0.28173444	2.3044967	21	8 5.8	18.8
161015 2002 EY_{86}	16.2	X	65.94973	131.17843	46.29254	3.04063	0.1417111	0.26341300	2.4101528	21	5 30.0	18.7
161016 2002 EG_{92}	15.4	X	143.44743	246.34868	178.39200	13.29361	0.0997751	0.20967962	2.8060704	21	4 10.2	19.5
161017 2002 EP_{106}	12.5	X	316.85941	292.45082	126.75455	10.11142	0.0369476	0.08035506	5.3185580	21	10 19.2	19.4
161018 2002 EU_{107}	12.4	X	342.63583	302.85207	121.36515	12.02273	0.0544363	0.08525006	5.1129661	21	11 23.5	19.0
161019 2002 EM_{115}	16.2	X	271.10119	352.80437	321.24480	6.06496	0.0871211	0.26201750	2.4187028	21	3 29.6	19.5
161020 2002 EK_{158}	13.3	X	344.13562	262.04127	143.23611	1.66997	0.0595325	0.08401752	5.1628496	21	11 1.8	19.9
161021 2002 EC_{161}	16.6	X	191.00316	105.80404	164.21827	3.10819	0.1691574	0.24383566	2.5374913	21	—	—
161022 2002 EP_{161}	15.9	X	283.56520	26.95452	320.42226	22.10312	0.1603413	0.27186590	2.3599324	21	5 14.5	19.7
161023 2002 FL_{2}	16.3	X	129.20497	303.06483	154.05742	7.82616	0.0881105	0.26415860	2.4056155	21	4 30.6	19.6
161024 2002 FM_{7}	12.4	X	10.91541	358.68991	8.14642	21.13475	0.0239797	0.08293926	5.2074998	21	10 16.8	19.3
161025 2002 FP_{11}	16.1	X	229.47808	188.73780	172.29671	6.07533	0.1144296	0.26241353	2.4162687	21	4 14.9	19.7
161026 2002 FP_{32}	16.2	X	302.62433	313.22136	81.83935	6.31396	0.1696297	0.28318878	2.2966000	21	9 6.2	18.3
161027 2002 FM_{38}	12.6	X	18.44964	336.50061	41.44452	7.32089	0.0841958	0.08280560	5.2131024	21	11 14.6	19.1
161028 2002 GS_{7}	15.1	X	185.81367	87.66827	158.90366	9.85352	0.0543199	0.18652609	3.0337258	21	—	—
161029 2002 GJ_{42}	15.9	X	267.61920	333.60352	34.69328	6.97214	0.1572584	0.26703882	2.3882866	21	5 30.3	19.2
161030 2002 GR_{62}	15.6	X	262.55047	188.94037	55.08858	2.89885	0.0330378	0.19584771	2.9366829	21	1 10.0	19.7
161031 2002 GA_{65}	16.3	X	123.69291	152.19668	94.17107	3.36379	0.1510233	0.22651484	2.6652520	21	11 8.9	20.5
161032 2002 GP_{65}	15.6	X	200.27612	186.69265	76.89782	2.97618	0.0494987	0.19033426	2.9931242	21	—	—
161033 2002 GW_{84}	15.5	X	141.30978	278.88436	72.22810	8.78613	0.0080540	0.24531293	2.5272939	21	—	—
161034 2002 GT_{93}	15.7	X	136.77042	260.44240	7.04072	15.38267	0.1366484	0.23191045	2.6237503	21	12 13.7	20.2
161035 2002 GH_{95}	15.3	X	254.60562	32.37115	229.92157	11.08486	0.0057806	0.19815444	2.9138477	21	1 21.2	19.6
161036 2002 GL_{101}	15.9	X	160.92816	259.78732	41.52791	1.05880	0.0555600	0.24149948	2.5538296	21	—	—
161037 2002 GV_{104}	15.7	X	80.01580	170.96355	154.14349	11.60665	0.2063242	0.22934797	2.6432574	21	—	—
161038 2002 GJ_{109}	17.2	X	249.82929	65.35653	51.68794	21.68704	0.1201563	0.38301448	1.8778429	21	11 5.7	18.5
161039 2002 GY_{126}	15.8	X	74.34885	103.78442	201.18142	12.10135	0.2801018	0.22483470	2.6785134	21	12 13.7	20.3
161040 2002 GQ_{155}	15.0	X	135.30538	142.09209	143.21645	9.81277	0.1184894	0.18438238	3.0571947	21	12 27.5	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161041 2002 GQ_{159}	15.7	X	101.78014	307.20928	9.08391	5.87698	0.2239678	0.23157623	2.6262742	21	—	—
161042 2002 GO_{162}	16.0	X	138.77884	223.45718	58.63792	4.80548	0.1794816	0.23397643	2.6082826	21	—	—
161043 2002 GL_{170}	16.0	X	132.29666	259.61473	22.56786	8.37700	0.1081834	0.23206212	2.6226070	21	12 28.9	20.2
161044 2002 GG_{181}	12.3	X	348.72139	146.70100	262.93098	11.65406	0.0577929	0.08285670	5.2109585	21	11 10.0	19.0
161045 2002 GB_{182}	16.3	X	131.86197	49.52467	240.73523	4.21556	0.0919675	0.23370267	2.6103191	21	—	—
161046 2002 HP_{3}	16.2	X	81.55840	144.02665	136.88009	9.84930	0.2667133	0.22336784	2.6902272	21	11 22.7	20.7
161047 2002 JK_{1}	15.4	X	21.67100	111.16066	215.16615	13.56295	0.2259713	0.21847840	2.7302162	21	10 29.9	18.4
161048 2002 JA_{6}	15.9	X	111.38605	174.99981	137.12806	10.79481	0.1808530	0.23171022	2.6252616	21	—	—
161049 2002 JV_{12}	15.8	X	63.09796	228.58169	62.69750	13.13269	0.1592552	0.22180383	2.7028588	21	11 4.1	19.6
161050 2002 JE_{15}	15.2	X	62.62941	191.94066	65.43197	13.60554	0.1246387	0.21813633	2.7330697	21	9 20.5	19.1
161051 2002 JW_{24}	15.8	X	132.38945	184.32809	56.40438	14.00316	0.1124906	0.22647359	2.6655756	21	11 9.2	19.9
161052 2002 JA_{29}	15.6	X	225.55517	355.56392	221.69959	14.38759	0.0825976	0.23673909	2.5879511	21	—	—
161053 2002 JO_{32}	15.2	X	69.87284	245.45004	60.45973	15.63019	0.0722995	0.22549435	2.6732871	21	11 17.4	18.8
161054 2002 JD_{44}	15.8	X	137.18582	7.57314	251.41448	7.26447	0.1911570	0.22995631	2.6385936	21	12 6.1	20.2
161055 2002 JV_{46}	15.6	X	58.75878	338.63363	346.53044	6.56573	0.2244480	0.22525377	2.6751902	21	12 17.1	19.6
161056 2002 JG_{53}	15.1	X	189.43152	294.74040	31.04638	8.95386	0.0757231	0.19423789	2.9528864	21	1 30.4	19.7
161057 2002 JL_{74}	15.4	X	216.03928	269.39602	282.54224	6.35412	0.1420986	0.23422808	2.6064140	21	11 30.2	19.3
161058 2002 JK_{78}	16.3	X	144.18706	245.49698	13.55495	2.45022	0.1545031	0.23146503	2.6271152	21	12 11.9	20.7
161059 2002 JE_{83}	16.2	X	241.74000	293.48198	253.86368	2.47416	0.1169728	0.23677036	2.5877233	21	12 29.5	19.6
161060 2002 JZ_{85}	15.8	X	83.85167	48.27140	255.88986	4.56016	0.1512751	0.22691245	2.6621376	21	12 9.6	19.8
161061 2002 JN_{99}	15.5	X	226.63065	106.55739	143.18823	13.81095	0.1599105	0.24137988	2.5546731	21	—	—
161062 2002 JY_{102}	15.3	X	356.69401	226.94017	80.61826	12.40132	0.1899358	0.21196028	2.7859056	21	8 8.7	18.1
161063 2002 JJ_{106}	15.6	X	89.51700	199.02782	118.79567	14.91969	0.2425450	0.22790354	2.6544140	21	—	—
161064 2002 JJ_{107}	15.6	X	69.16452	275.73658	9.84518	12.50786	0.1775838	0.22244411	2.6976697	21	10 31.2	19.6
161065 2002 JR_{143}	15.9	X	155.29029	142.72938	113.24436	14.09877	0.1376179	0.23376287	2.6098709	21	12 19.9	20.2
161066 2002 KB_{2}	15.9	X	98.60059	214.83639	71.99262	6.48997	0.1402737	0.22743439	2.6580632	21	12 2.4	19.7
161067 2002 KE_{9}	15.1	X	25.52875	262.21679	84.40147	13.68354	0.1924394	0.22207719	2.7006403	21	11 29.4	18.4
161068 2002 KY_{11}	16.1	X	60.29809	214.68452	109.83359	2.28477	0.0991136	0.22625447	2.6672963	21	12 2.5	19.6
161069 2002 LG_{8}	16.2	X	352.44839	87.78956	215.21326	7.05659	0.2536285	0.21051822	2.7986135	21	7 14.8	18.6
161070 2002 LU_{14}	16.8	X	252.09178	48.60679	270.75442	3.89031	0.1923415	0.30146937	2.2027942	21	3 2.7	20.3
161071 2002 LC_{25}	16.9	X	233.64533	231.63191	104.83519	5.60380	0.2335971	0.30064206	2.2068335	21	3 11.3	20.5
161072 2002 LQ_{28}	16.0	X	170.14967	188.02530	108.89456	11.98936	0.1193284	0.23549469	2.5970599	21	—	—
161073 2002 LH_{35}	15.6	X	248.62787	66.00189	246.44930	19.89709	0.3787427	0.19131499	2.9828864	21	2 14.5	21.6
161074 2002 LR_{37}	15.2	X	62.99978	126.48849	185.86313	13.66010	0.2148581	0.21863312	2.7289280	21	12 5.2	19.5
161075 2002 LR_{38}	15.9	X	111.11695	39.12358	185.02508	13.37675	0.1409872	0.21944981	2.7221533	21	9 28.3	20.0
161076 2002 LY_{40}	15.5	X	358.68582	168.06902	129.87429	10.21603	0.2307428	0.20998206	2.8033753	21	7 25.8	17.6
161077 2002 LB_{43}	15.2	X	306.83063	173.49473	152.41086	11.23379	0.1383819	0.20423756	2.8556981	21	6 3.8	19.1
161078 2002 LE_{57}	14.3	X	60.41809	97.04153	262.96829	13.89988	0.0957085	0.17194252	3.2029281	21	—	—
161079 2002 LP_{61}	15.3	X	196.28798	30.31105	166.83722	10.58650	0.1666902	0.17736862	3.1372673	21	11 10.6	20.5
161080 2002 MC_{1}	14.0	X	289.11316	71.19182	303.85480	15.32108	0.1813629	0.19931967	2.9024803	21	7 7.3	17.9
161081 2002 NR_{2}	16.1	X	62.94176	105.97102	258.29155	9.11539	0.3124965	0.27739881	2.3284468	21	—	—
161082 2002 NS_{8}	15.4	X	339.74760	230.42695	126.17091	13.94017	0.1282217	0.21210179	2.7846663	21	9 16.9	18.6
161083 2002 NU_{23}	15.5	X	358.17489	145.55735	133.77463	15.84271	0.1282415	0.20412725	2.8567269	21	6 27.3	18.9
161084 2002 NM_{64}	17.4	X	89.51450	299.07343	341.84088	2.04164	0.2086694	0.27154914	2.3617672	21	11 27.7	21.1
161085 2002 OR_{3}	14.4	X	131.26928	109.39226	252.70838	8.96690	0.1132506	0.17644510	3.1482048	21	1 14.2	19.1
161086 2002 OZ_{3}	14.7	X	188.22667	148.43820	215.10852	19.89684	0.2558043	0.18410618	3.0602517	21	3 12.6	20.4
161087 2002 OS_{8}	15.5	X	314.62354	101.35523	262.52919	2.15034	0.0904776	0.20791509	2.8219244	21	8 11.5	19.0
161088 2002 OJ_{10}	14.8	X	161.29211	122.49432	277.17738	9.52612	0.0766686	0.18912362	3.0058839	21	3 22.9	19.5
161089 2002 OY_{10}	16.4	X	168.45137	241.28230	140.51720	10.03749	0.1891475	0.23967211	2.5667942	21	3 17.9	20.6
161090 2002 ON_{13}	15.4	X	313.64335	47.50023	247.10888	9.86736	0.1365458	0.19999982	2.8958961	21	4 29.6	19.1
161091 2002 OR_{14}	16.4	X	174.67453	104.25487	279.37848	13.80644	0.1592917	0.24059635	2.5602165	21	3 13.9	20.8
161092 Zsigmond	15.7	X	161.73107	254.01159	113.37379	4.82037	0.0816565	0.18586987	3.0408621	21	2 19.6	20.2
161093 2002 PH_{44}	16.4	X	194.86388	206.29647	160.77379	3.55427	0.1817441	0.29062041	2.2572794	21	3 15.7	20.0
161094 2002 PS_{45}	14.2	X	89.69119	108.89470	330.90346	25.59686	0.2329632	0.17933881	3.1142480	21	3 9.3	18.6
161095 2002 PL_{56}	14.8	X	188.47689	74.84933	318.00427	14.45552	0.1273473	0.19145802	2.9814006	21	4 10.4	19.8
161096 2002 PP_{92}	14.9	X	169.57891	334.54729	30.20524	9.57405	0.1399692	0.18444131	3.0565436	21	3 3.3	19.8
161097 2002 PP_{111}	15.3	X	359.47527	13.71177	333.04674	12.64917	0.1674236	0.21132466	2.7914891	21	10 1.5	18.5
161098 2002 PS_{118}	16.4	X	86.71238	132.00863	274.91651	6.23227	0.0928795	0.28336114	2.2956686	21	—	—
161099 2002 PN_{124}	16.6	X	33.74454	255.12537	166.80870	4.16940	0.1309454	0.27721228	2.3294912	21	—	—
161100 2002 PQ_{124}	16.9	X	115.77744	298.55041	155.33691	4.86972	0.0608374	0.29519886	2.2338788	21	3 29.7	19.4
161101 2002 PL_{154}	15.9	X	308.79676	124.12831	193.61428	1.57450	0.2019326	0.20093861	2.8868693	21	5 14.9	19.6
161102 2002 PU_{165}	15.9	X	226.02758	41.36072	321.49511	0.97249	0.1348167	0.19348419	2.9605500	21	4 16.3	20.4
161103 2002 PT_{169}	17.6	X	76.91030	307.38445	115.55595	1.17050	0.2643183	0.28131001	2.3068141	21	1 9.8	18.8
161104 2002 PF_{174}	15.5	X	165.76389	235.49957	156.23116	7.94941	0.1344413	0.18867491	3.0106478	21	3 28.4	20.2
161105 2002 QS_{7}	14.9	X	180.70051	276.52913	115.81447	11.02243	0.1218855	0.19157645	2.9801718	21	4 14.9	19.8
161106 2002 QK_{14}	15.1	X	204.09857	156.39621	227.43771	8.06320	0.0968696	0.19281809	2.9673643	21	4 21.4	19.7
161107 2002 QR_{16}	15.2	X	215.67741	167.69883	194.90116	11.41280	0.0862384	0.19159790	2.9799494	21	4 8.8	19.6
161108 2002 QT_{27}	15.2	X	183.00484	250.60028	118.58807	10.53132	0.0220948	0.18904079	3.0067618	21	3 15.8	19.6
161109 2002 QA_{46}	15.4	X	10.52156	9.08250	333.98232	8.06919	0.1526753	0.21316320	2.7754147	21	10 17.8	18.6
161110 2002 QA_{54}	15.6	X	127.48075	297.25717	148.26696	10.06066	0.0449743	0.19080436	2.9882059	21	4 15.1	20.0
161111 2002 QS_{56}	15.6	X	256.77856	253.30703	107.62856	3.11438	0.0768753	0.19753580	2.9199282	21	5 23.0	19.8
161112 2002 QX_{57}	15.4	X	258.77968	263.19780	348.55062	6.38134	0.1612831	0.18434440	3.0576146	21	1 7.3	20.3
161113 2002 QX_{98}	15.6	X	239.17480	229.99065	103.67771	8.53500	0.0197553	0.19117608	2.9843312	21	4 7.9	19.9
161114 2002 RC_{2}	16.4	X	69.43585	166.93352	243.95644	1.01859	0.1695616	0.27815898	2.3242027	21	—	—
161115 2002 RL_{2}	14.8	X	123.55573	292.13237	145.11817	3.35967	0.0826775	0.18655741	3.0333863	21	4 3.1	19.2
161116 2002 RL_{5}	14.3	X	267.65026	223.90459	334.57557	25.38635	0.1349823	0.17234528	3.1979362	21	—	—
161117 2002 RO_{13}	15.4	X	155.07508	207.49237	143.35790	2.17117	0.1573752	0.17929811	3.1147192	21	1 30.6	20.3
161118 2002 RB_{17}	15.0	X	179.02701	237.65761	165.46882	9.73925	0.0731164	0.19046387	2.9917662	21	4 22.4	19.6
161119 2002 RK_{17}	15.2	X	232.65678	237.25049	169.74204	5.38628	0.2523734	0.19659488	2.9292374	21	6 8.5	20.2
161120 2002 RH_{18}	14.6	X	119.63541	70.65993	356.96836	15.63344	0.2528014	0.18204280	3.0833326	21	4 2.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161121 2002 RZ_{18}	16.0	X	6.56913	14.67573	37.45207	2.52269	0.1530939	0.26925227	2.3751797	21	—	—
161122 2002 RH_{21}	14.9	X	150.70002	253.87916	164.55654	20.37202	0.2698964	0.18567979	3.0429370	21	4 26.5	20.4
161123 2002 RA_{37}	15.2	X	200.97635	54.44802	323.46052	8.59189	0.0692290	0.19100166	2.9861478	21	4 8.2	19.8
161124 2002 RH_{44}	15.0	X	213.13653	191.52792	141.61693	9.32155	0.1399796	0.18681266	3.0306225	21	3 2.3	19.9
161125 2002 RY_{58}	14.9	X	131.53269	154.27477	265.26201	4.51216	0.1195729	0.18463167	3.0544423	21	3 22.5	19.5
161126 2002 RH_{61}	14.2	X	102.98086	43.27569	13.45647	23.80772	0.2281728	0.17740389	3.1368515	21	3 12.9	18.9
161127 2002 RW_{68}	15.3	X	233.03635	320.07046	345.97467	9.07874	0.0912390	0.18542223	3.0457541	21	2 19.4	19.9
161128 2002 RG_{77}	15.3	X	174.44965	26.01550	330.55835	3.05940	0.1972027	0.18365971	3.0652092	21	2 24.8	20.5
161129 2002 RG_{80}	15.3	X	306.26815	308.23479	354.18516	1.38935	0.0940759	0.19563353	2.9388259	21	5 7.2	19.0
161130 2002 RL_{82}	14.9	X	171.49075	286.08442	4.03747	12.19453	0.0997765	0.17361696	3.1823012	21	—	—
161131 2002 RR_{87}	16.2	X	212.95274	332.83096	12.43055	6.49589	0.1307455	0.29114429	2.2545707	21	3 5.5	19.6
161132 2002 RK_{96}	15.2	X	151.95817	4.50463	0.07273	7.21456	0.1066044	0.17886514	3.1197437	21	2 10.4	19.9
161133 2002 RR_{108}	15.1	X	209.82094	214.60911	168.20572	10.18531	0.0286634	0.19201722	2.9756095	21	5 2.0	19.5
161134 2002 RJ_{111}	14.9	X	176.18759	345.55049	345.03639	11.59145	0.1224888	0.17720683	3.1391766	21	1 27.8	19.9
161135 2002 RB_{116}	16.4	X	154.24528	193.45272	84.54036	3.49181	0.2105180	0.27608094	2.3358508	21	—	—
161136 2002 RT_{117}	14.6	X	257.23580	329.64129	322.36935	10.27901	0.0197343	0.18499575	3.0504334	21	3 3.3	19.0
161137 2002 RN_{136}	15.0	X	236.61442	193.09181	136.29876	11.11823	0.1007229	0.18908604	3.0062821	21	3 23.7	19.7
161138 2002 RD_{138}	14.6	X	175.42267	346.08202	6.16593	17.99653	0.1497725	0.18359051	3.0659793	21	2 24.9	19.7
161139 2002 RJ_{150}	14.9	X	176.35959	64.69361	310.21113	7.91497	0.0939523	0.18529718	3.0471244	21	3 12.1	19.7
161140 2002 RA_{152}	14.8	X	237.41974	39.39095	310.84178	10.77606	0.0157293	0.19175022	2.9783711	21	4 17.1	19.2
161141 2002 RD_{152}	15.8	X	216.80741	64.33081	314.06887	9.79987	0.2401187	0.19173849	2.9784925	21	4 18.6	21.1
161142 2002 RG_{152}	14.9	X	282.77808	288.01914	317.25402	11.63278	0.0731313	0.18345782	3.0674575	21	2 1.4	19.3
161143 2002 RR_{161}	15.5	X	197.86156	208.66821	172.06781	7.47747	0.1133514	0.19015530	2.9950019	21	4 13.8	20.2
161144 2002 RL_{202}	14.7	X	179.27350	33.25043	324.51824	11.03513	0.1085193	0.18359078	3.0659764	21	2 25.3	19.4
161145 2002 RA_{204}	15.5	X	182.86786	211.56081	156.70454	10.28539	0.1004531	0.18780873	3.0198974	21	3 14.9	20.2
161146 2002 RH_{245}	15.6	X	273.01988	258.92301	97.13001	3.11703	0.0995188	0.20005064	2.8954057	21	6 2.1	19.7
161147 2002 RW_{254}	15.8	X	357.84642	318.70293	302.64221	1.49735	0.1264351	0.19872225	2.9082945	21	5 30.8	19.0
161148 2002 SN_{15}	14.4	X	155.38833	25.31633	303.51265	15.81709	0.0918484	0.17463311	3.1699445	21	1 2.2	19.2
161149 2002 SA_{20}	17.1	X	108.81861	75.49649	16.06286	2.86729	0.1185043	0.28930160	2.2641342	21	3 25.6	19.7
161150 2002 SL_{25}	17.5	X	322.99423	184.95079	149.29063	4.65705	0.1912411	0.30625411	2.1797905	21	7 1.6	19.1
161151 2002 SH_{27}	14.9	X	145.76288	172.81005	170.04924	9.70965	0.0708644	0.17445252	3.1721317	21	1 3.9	19.7
161152 2002 SR_{28}	16.1	X	352.86078	156.83553	294.28634	20.37054	0.1030808	0.37478122	1.9052450	21	—	—
161153 2002 SF_{30}	14.9	X	140.06476	318.73196	40.64036	17.12144	0.1374164	0.17769209	3.1334588	21	1 29.9	19.9
161154 2002 SV_{36}	15.5	X	172.31834	163.26013	201.14354	4.12280	0.1546544	0.18160076	3.0883340	21	3 1.2	20.5
161155 2002 SY_{36}	16.7	X	0.40431	47.64186	350.11257	2.19616	0.1987570	0.26470699	2.4022919	21	—	—
161156 2002 SZ_{37}	15.3	X	180.40739	249.08635	111.01695	2.44251	0.2544741	0.18278667	3.0749616	21	3 8.4	20.6
161157 2002 SJ_{39}	15.5	X	175.38337	227.69337	143.87701	6.02129	0.1360064	0.18307686	3.0717115	21	3 13.7	20.4
161158 2002 ST_{52}	14.4	X	175.70544	234.23703	41.27787	18.79619	0.2225748	0.17379513	3.1801259	21	—	—
161159 2002 SH_{57}	16.1	X	160.03497	243.82174	120.29672	6.20658	0.1772264	0.28586425	2.2822479	21	2 7.4	19.2
161160 2002 SZ_{66}	15.0	X	134.76524	245.68737	148.78441	14.38111	0.1705294	0.17936963	3.1138912	21	3 5.6	19.8
161161 2002 TX	15.4	X	165.90953	328.99838	21.08943	8.77231	0.1838423	0.18050191	3.1008554	21	2 13.6	20.6
161162 2002 TH_{1}	15.2	X	142.33045	300.37716	62.22209	6.09842	0.1485681	0.17843154	3.1247957	21	2 2.4	20.0
161163 2002 TZ_{1}	16.4	X	152.68424	25.40000	356.24178	2.47200	0.1900438	0.23308943	2.6148954	21	3 1.9	20.4
161164 2002 TE_{9}	15.5	X	198.54045	257.24394	58.61116	2.28196	0.1589023	0.18148061	3.0896970	21	1 29.1	20.5
161165 2002 TH_{17}	15.0	X	127.07629	54.26953	356.71126	10.36306	0.0923520	0.18179693	3.0861120	21	3 7.9	19.4
161166 2002 TD_{24}	15.4	X	177.89977	350.78881	32.33859	4.25933	0.1862834	0.18487195	3.0517951	21	3 30.7	20.4
161167 2002 TP_{26}	15.3	X	228.61466	259.15977	56.55532	2.36818	0.2096894	0.18425916	3.0585576	21	2 21.5	20.5
161168 2002 TQ_{33}	16.8	X	39.50699	254.96572	71.00024	4.48046	0.2050644	0.26410230	2.4059574	21	11 30.6	19.8
161169 2002 TY_{38}	14.6	X	171.23950	101.47643	216.99707	15.04900	0.2253989	0.17453634	3.1711161	21	1 10.0	20.2
161170 2002 TX_{47}	16.2	X	196.83841	268.85042	155.23345	2.78099	0.1294502	0.24254500	2.5464852	21	6 1.9	20.2
161171 2002 TY_{52}	14.4	X	102.91901	138.98235	237.22310	15.72391	0.1496445	0.16940158	3.2348768	21	1 3.5	19.1
161172 2002 TH_{55}	14.6	X	177.76738	290.82794	12.92607	16.12460	0.2285084	0.17761297	3.1343893	21	1 2.9	20.2
161173 2002 TW_{62}	15.1	X	158.65562	51.14183	251.05886	4.19751	0.1424474	0.17206804	3.2013703	21	—	—
161174 2002 TD_{68}	16.4	X	65.14294	71.50463	210.19818	20.46224	0.0704404	0.36483689	1.9397104	21	10 31.4	18.3
161175 2002 TX_{70}	14.7	X	166.75500	42.01384	314.49159	9.70719	0.0836350	0.17950104	3.1123714	21	2 11.2	19.4
161176 2002 TT_{75}	15.1	X	214.31673	359.59839	342.73569	8.32055	0.1621305	0.18562655	3.0435188	21	3 11.8	20.1
161177 2002 TS_{89}	15.4	X	156.60721	105.02199	219.99635	10.74665	0.1929583	0.17440538	3.1727033	21	1 4.7	20.7
161178 2002 TM_{99}	15.0	X	249.11343	27.59586	240.19501	10.62955	0.0792065	0.18123227	3.0925188	21	1 19.2	19.8
161179 2002 TQ_{100}	14.9	X	257.35085	38.44460	262.70402	5.31313	0.0870994	0.18746065	3.0236346	21	3 6.7	19.6
161180 2002 TO_{105}	14.8	X	189.47732	65.83164	279.66015	7.81051	0.0046400	0.18348081	3.0672013	21	2 15.9	19.2
161181 2002 TH_{110}	14.9	X	194.47108	255.99397	42.25660	26.80162	0.2372039	0.17864809	3.1222701	21	1 8.5	20.7
161182 2002 TO_{120}	15.0	X	223.74627	356.34221	336.18758	9.01618	0.1073272	0.18456057	3.0552266	21	3 10.1	19.7
161183 2002 TV_{122}	14.8	X	199.00007	322.80081	322.78431	14.73788	0.0390324	0.17620591	3.1510532	21	—	—
161184 2002 TL_{126}	14.9	X	190.11786	334.54792	77.37734	5.95939	0.1338031	0.19162714	2.9796462	21	5 13.6	19.7
161185 2002 TZ_{127}	14.8	X	297.17142	294.85826	313.23664	8.52080	0.0456837	0.18408222	3.0605172	21	2 22.9	19.2
161186 2002 TW_{135}	14.6	X	193.55703	62.57078	302.95408	8.91839	0.1436762	0.18411152	3.0601924	21	3 17.6	19.6
161187 2002 TD_{139}	14.9	X	169.19070	95.35531	274.80333	6.53600	0.1794430	0.18120942	3.0927788	21	3 4.5	20.1
161188 2002 TA_{157}	14.4	X	115.70913	278.30455	50.96040	23.88095	0.1236233	0.16882635	3.2422206	21	—	—
161189 2002 TU_{179}	15.7	X	234.16158	130.40344	276.42007	14.04164	0.1293308	0.24519168	2.5281271	21	6 18.2	19.4
161190 2002 TW_{180}	14.8	X	140.50455	41.86222	357.01485	14.62275	0.2268791	0.17761138	3.1344080	21	3 19.6	19.8
161191 2002 TZ_{183}	15.2	X	140.37422	74.32781	321.93625	8.06087	0.1000754	0.18196948	3.0841608	21	3 2.8	19.8
161192 2002 TN_{196}	17.1	X	301.28582	93.20500	359.67600	1.58587	0.1676333	0.26208927	2.4182613	21	11 25.2	19.1
161193 2002 TG_{199}	15.5	X	125.77020	116.73620	274.95062	12.23366	0.1735506	0.22980811	2.6397278	21	2 8.3	19.4
161194 2002 TS_{206}	15.8	X	47.55278	218.19287	260.84724	5.14989	0.1602078	0.22760417	2.6567411	21	2 5.2	18.4
161195 2002 TS_{227}	14.9	X	137.07052	307.58530	82.80315	6.02768	0.1572077	0.17768884	3.1334970	21	3 3.4	19.8
161196 2002 TN_{229}	15.6	X	176.66524	303.45291	49.99698	1.61245	0.1454138	0.18057057	3.1000693	21	2 21.9	20.6
161197 2002 TU_{231}	14.2	X	107.57876	282.55650	156.10765	26.21414	0.2392984	0.17928006	3.1149283	21	4 11.1	19.2
161198 2002 TB_{237}	15.7	X	152.32744	57.43146	331.64574	10.77735	0.2056642	0.23312293	2.6146449	21	3 9.5	19.8
161199 2002 TA_{245}	15.1	X	161.52861	185.79241	141.41854	6.75607	0.1774877	0.17526305	3.1623442	21	1 11.4	20.2
161200 2002 TO_{254}	15.4	X	350.74378	53.06871	51.88613	12.09029	0.0751495	0.21880539	2.7274955	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161201 2002 TT_{254}	14.8	X	172.00247	265.96782	57.17407	12.22038	0.2578906	0.17621526	3.1509417	21	1 22.4	20.4
161202 2002 TN_{257}	16.9	X	10.39106	268.58051	91.47979	2.64452	0.2274927	0.26200003	2.4188104	21	12 7.4	19.2
161203 2002 TT_{269}	14.9	X	142.73143	14.38190	351.91330	12.12312	0.0895113	0.17758155	3.1347589	21	2 2.7	19.6
161204 2002 TK_{270}	14.8	X	135.01579	157.23307	211.74839	12.18331	0.0644964	0.17651967	3.1473182	21	1 19.0	19.6
161205 2002 TA_{271}	15.4	X	173.49317	38.23435	331.66459	5.53770	0.1590267	0.18263187	3.0766990	21	3 8.9	20.3
161206 2002 TG_{292}	16.3	X	12.48510	71.24890	271.90973	5.64231	0.1127062	0.25857990	2.4400920	21	10 26.5	19.0
161207 Lidz	15.2	X	209.26721	144.83822	119.50896	6.66375	0.1534717	0.17389486	3.1789098	21	—	—
161208 2002 UQ_{5}	15.2	X	222.70394	182.75461	103.48364	7.05897	0.1318079	0.17844328	3.1246587	21	1 16.3	20.1
161209 2002 UW_{5}	14.9	X	170.01764	289.49037	65.89084	22.02366	0.1811115	0.18103088	3.0948120	21	3 2.0	20.4
161210 2002 UG_{6}	16.0	X	7.53577	280.97101	113.72636	7.74766	0.1204288	0.26556023	2.3971434	21	—	—
161211 2002 UA_{7}	14.7	X	190.50635	211.61516	170.41018	13.63567	0.1585290	0.18559187	3.0438979	21	4 9.8	19.7
161212 2002 UE_{19}	15.9	X	81.85934	238.35815	221.34378	11.45977	0.1643037	0.22856609	2.6492820	21	3 9.4	19.2
161213 2002 UK_{31}	14.8	X	134.19172	69.36713	285.39634	7.77025	0.0743188	0.17370572	3.1812170	21	1 6.2	19.2
161214 2002 UU_{47}	15.0	X	140.02615	199.75543	129.02927	2.39903	0.1876635	0.17105669	3.2139763	21	—	—
161215 Loveday	16.4	X	78.04119	207.14553	143.99097	3.86961	0.0483248	0.21872617	2.7281540	21	—	—
161216 2002 VR_{6}	15.0	X	74.53539	56.60073	341.31925	4.00416	0.1099454	0.16865658	3.2443960	21	—	—
161217 2002 VS_{54}	15.1	X	142.56510	232.08944	109.97489	2.44067	0.1676684	0.17165069	3.2065574	21	1 11.1	20.0
161218 2002 VD_{85}	14.2	X	105.88389	68.11683	280.39146	12.09797	0.2571762	0.16759571	3.2580728	21	—	—
161219 2002 VW_{138}	16.8	X	49.75131	115.58931	310.68389	4.30559	0.1043317	0.27362045	2.3498331	21	—	—
161220 2002 WH_{17}	15.1	X	92.35133	296.70565	93.19453	10.22260	0.1622408	0.17017999	3.2250050	21	1 10.9	19.4
161221 2002 XJ_{1}	14.9	X	116.09074	180.80136	181.35498	8.29006	0.1686369	0.17055716	3.2202487	21	1 6.4	19.6
161222 2002 XO_{5}	15.4	X	188.51058	287.03855	94.79165	3.00300	0.3004405	0.18458340	3.0549748	21	4 8.7	20.9
161223 2002 XG_{20}	16.6	X	68.58085	117.40223	27.23352	5.69971	0.0996497	0.28551309	2.2841189	21	4 6.6	18.7
161224 2002 XP_{44}	15.0	X	191.73001	77.78992	294.47964	14.50515	0.2186392	0.18466885	3.0540322	21	3 21.2	20.5
161225 2002 XN_{56}	13.8	X	177.31255	102.02604	285.97897	20.17337	0.1698812	0.18306961	3.0717926	21	3 23.7	19.3
161226 2002 XC_{63}	15.8	X	200.20182	335.14041	104.57927	6.05496	0.1585301	0.24160626	2.5530771	21	6 24.4	19.9
161227 2002 XO_{68}	14.8	X	266.02645	231.73570	158.94971	11.30651	0.2060443	0.19604195	2.9347427	21	6 24.1	19.4
161228 2002 XF_{70}	14.9	X	186.04149	226.05674	139.51512	8.31547	0.2251181	0.18074362	3.0980902	21	3 19.4	20.2
161229 2002 XK_{71}	16.2	X	337.85290	222.74707	261.17970	5.48107	0.0759413	0.26637028	2.3922811	21	—	—
161230 2002 XO_{90}	16.2	X	67.29811	311.26962	49.44247	3.05726	0.2412923	0.26450709	2.4035021	21	—	—
161231 2002 XD_{108}	16.6	X	80.05593	194.95060	344.56502	4.20656	0.1054563	0.29249285	2.2476355	21	6 17.7	19.1
161232 2002 YG_{18}	17.1	X	117.75960	338.68985	118.73930	1.66190	0.1115044	0.28474708	2.2882134	21	4 15.4	20.0
161233 2003 AS_{2}	16.0	X	335.09971	281.43327	125.72403	24.18360	0.1160308	0.36260041	1.9476781	21	12 29.4	17.8
161234 2003 AB_{9}	16.6	X	295.52649	265.30961	167.79568	23.37877	0.0948916	0.35767230	1.9655277	21	11 20.9	18.8
161235 2003 AV_{14}	15.6	X	38.18725	196.84956	258.19766	10.21196	0.2636283	0.21542983	2.7559129	21	—	—
161236 2003 AK_{29}	16.5	X	22.73115	199.89866	294.30228	3.20737	0.1415063	0.27203923	2.3589298	21	—	—
161237 2003 AT_{36}	17.5	X	71.49157	260.16374	200.00002	3.81093	0.1940684	0.27698217	2.3307812	21	2 15.8	19.3
161238 2003 AC_{65}	15.0	X	220.15071	10.02045	27.17975	10.30722	0.2884190	0.18662747	3.0326271	21	5 14.3	20.5
161239 2003 AP_{69}	16.2	X	198.41820	264.26043	290.11933	5.02920	0.0966753	0.25381924	2.4705085	21	11 21.6	19.9
161240 2003 BK_{9}	14.9	X	352.93472	21.65615	285.75682	8.85808	0.0714549	0.18710607	3.0274534	21	7 25.9	18.6
161241 2003 BE_{12}	16.9	X	348.12194	59.34990	39.45075	2.66623	0.1477899	0.26115418	2.4240304	21	—	—
161242 2003 BK_{13}	16.2	X	40.04298	283.40828	178.04323	9.94392	0.1258638	0.27024287	2.3693718	21	—	—
161243 2003 BX_{16}	16.4	X	267.66905	174.25492	23.20946	4.89231	0.1272441	0.25998364	2.4313009	21	—	—
161244 2003 BP_{31}	16.3	X	68.77710	109.00620	310.74868	5.39314	0.1784146	0.26962392	2.3729965	21	—	—
161245 2003 BH_{74}	15.6	X	108.81242	352.84000	103.03590	16.55064	0.1344605	0.22593760	2.6697897	21	4 19.4	19.7
161246 2003 BJ_{78}	14.5	X	151.08536	65.95598	305.91892	13.00607	0.2800590	0.17656528	3.1467761	21	2 25.4	20.0
161247 2003 BM_{84}	16.8	X	8.15597	154.42701	32.81474	2.90419	0.1308916	0.27493529	2.3423353	21	2 19.4	18.9
161248 2003 CQ_{17}	16.8	X	142.43140	144.87109	344.31379	3.82282	0.2221150	0.23315063	2.6144378	21	7 7.2	21.1
161249 2003 DA_{4}	16.9	X	106.65160	135.20688	144.69366	4.35444	0.1828510	0.29960648	2.2119158	21	12 14.9	20.3
161250 2003 EL_{20}	16.4	X	41.47413	265.45253	359.79882	3.71273	0.2049764	0.28585077	2.2823196	21	9 12.6	18.7
161251 2003 EQ_{23}	16.5	X	44.55167	6.76607	74.91465	3.23139	0.1854014	0.26655430	2.3911799	21	—	—
161252 2003 EC_{28}	15.7	X	45.01259	162.13316	21.32375	8.89597	0.1413082	0.22266671	2.6958715	21	5 3.5	18.7
161253 2003 EO_{37}	15.5	X	24.35077	150.58587	112.16252	16.87043	0.2004140	0.22933820	2.6433324	21	7 31.8	18.0
161254 2003 EH_{41}	15.6	X	144.84271	316.61999	146.92166	9.96307	0.0703624	0.17474631	3.1685753	21	5 30.3	20.5
161255 2003 EO_{47}	16.0	X	195.80223	232.92216	231.51861	4.72407	0.2690259	0.23881147	2.5729574	21	7 17.5	20.6
161256 2003 EP_{53}	15.7	X	25.94438	113.15622	140.98903	13.29732	0.2298643	0.22518196	2.6757589	21	7 24.2	18.3
161257 2003 FD_{2}	16.7	X	322.57604	82.10981	141.30366	4.06515	0.0819762	0.27174385	2.3606390	21	2 4.5	19.7
161258 2003 FM_{5}	16.1	X	223.17955	203.57267	119.56276	6.63805	0.0346606	0.21642833	2.7474300	21	2 27.9	20.0
161259 2003 FN_{6}	16.3	X	257.30914	295.41332	24.61341	6.18623	0.1744691	0.27187081	2.3599040	21	3 16.8	20.0
161260 2003 FU_{16}	14.8	X	79.75552	164.77670	64.93556	10.53879	0.0564693	0.18087919	3.0965421	21	8 21.3	19.3
161261 2003 FS_{26}	15.4	X	127.87098	183.86779	36.10473	1.76132	0.0192966	0.18640567	3.0350322	21	9 28.7	19.7
161262 2003 FQ_{28}	16.0	X	57.44271	225.29244	67.48942	8.54782	0.1598086	0.29015061	2.2597153	21	11 8.3	18.8
161263 2003 FQ_{31}	16.8	X	91.75622	122.30780	159.56796	1.66363	0.1571569	0.29512554	2.2342487	21	12 1.1	20.1
161264 2003 FQ_{42}	16.3	X	342.49471	95.26749	165.25985	5.92689	0.1124422	0.27730218	2.3289877	21	4 27.0	18.6
161265 2003 FR_{46}	16.5	X	106.03568	278.92969	23.18626	3.76681	0.1874887	0.29946676	2.2126037	21	—	—
161266 2003 FG_{50}	16.1	X	113.74217	214.15883	75.60484	5.74342	0.1997054	0.29705278	2.2245746	21	—	—
161267 2003 FD_{54}	16.5	X	74.68855	310.32948	289.10901	5.88933	0.1134934	0.28568309	2.2832127	21	9 5.2	19.3
161268 2003 FJ_{61}	16.4	X	222.45482	322.80136	133.28707	5.35642	0.2385399	0.23950213	2.5680086	21	7 31.0	20.6
161269 2003 FM_{66}	16.7	X	122.78496	114.38832	160.27405	5.97577	0.1067485	0.29913928	2.2142182	21	12 21.5	20.0
161270 2003 FV_{66}	16.3	X	241.92212	231.55665	44.68787	9.96297	0.1822734	0.26201324	2.4187290	21	1 8.3	20.3
161271 2003 FK_{73}	15.9	X	102.15884	50.11101	151.30483	13.05288	0.1059551	0.23199264	2.6231305	21	8 16.7	19.5
161272 2003 FD_{83}	16.3	X	59.85679	165.05902	98.34884	4.78787	0.1540326	0.28592394	2.2819302	21	10 1.5	19.1
161273 2003 FL_{83}	16.5	X	351.44326	122.47092	132.47215	3.31219	0.2328296	0.27374733	2.3491069	21	4 19.6	18.1
161274 2003 FT_{84}	16.4	X	92.83101	334.77719	309.12926	6.39124	0.1524520	0.29653183	2.2271792	21	12 3.6	19.6
161275 2003 FU_{99}	16.8	X	95.72467	127.44981	358.67608	3.43579	0.0461223	0.22441220	2.6818742	21	4 19.3	20.3
161276 2003 FD_{107}	15.7	X	130.46940	332.73595	190.99699	15.23792	0.1905593	0.23139665	2.6276328	21	8 3.1	20.3
161277 2003 FR_{117}	15.2	X	94.70071	142.42615	110.91205	6.17977	0.1039552	0.18667587	3.0321028	21	10 12.9	19.8
161278 Cesarmendoza	15.8	X	75.35949	263.13916	78.92881	27.28583	0.1391485	0.24396123	2.5366206	21	—	—
161279 2003 FB_{131}	15.5	X	302.13515	348.85755	35.94550	17.49006	0.1784077	0.23630017	2.5911548	21	8 20.9	18.8
161280 2003 GP_{4}	15.8	X	19.88211	277.61421	16.72806	11.52184	0.1994423	0.23025419	2.6363173	21	9 12.6	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161281 2003 GH_{14}	15.0	X	156.40093	350.90660	142.14205	10.72668	0.0499335	0.17855218	3.1233881	21	7 15.4	19.6
161282 2003 GE_{18}	15.5	X	192.25601	244.03864	193.42081	9.20307	0.0840032	0.17511371	3.1641419	21	6 16.4	20.4
161283 2003 GE_{35}	16.2	X	39.62655	191.43954	128.85047	7.05976	0.1368960	0.29067546	2.2569943	21	11 19.8	18.9
161284 2003 GL_{43}	16.4	X	86.62734	165.32129	152.77408	4.24920	0.1346018	0.29747051	2.2224915	21	—	—
161285 2003 HU_{11}	16.9	X	88.10322	160.19475	110.47541	3.05950	0.1171751	0.29174216	2.2514895	21	11 9.3	19.9
161286 2003 HZ_{19}	17.0	X	321.49025	292.45976	350.42931	2.29366	0.1925404	0.27273605	2.3549102	21	4 8.5	19.4
161287 2003 HN_{20}	16.2	X	331.15295	226.95962	60.87721	8.26587	0.1256816	0.27507454	2.3415447	21	5 15.3	18.6
161288 2003 HQ_{22}	16.4	X	115.20487	302.50046	22.73414	7.11072	0.1942699	0.30314604	2.1946644	21	—	—
161289 2003 HK_{23}	17.4	X	59.92776	281.79356	25.45273	4.01617	0.1887244	0.29310217	2.2445194	21	12 2.6	20.3
161290 2003 HU_{28}	16.5	X	4.67384	211.93854	55.67000	5.03456	0.1368349	0.27630646	2.3345796	21	6 19.2	18.4
161291 2003 HV_{29}	16.1	X	278.18313	92.40444	218.93949	4.46363	0.3138359	0.26641076	2.3920387	21	3 10.1	20.0
161292 2003 HV_{44}	16.5	X	291.35597	130.83942	165.88789	9.00880	0.2218980	0.26730802	2.3866829	21	3 16.1	20.0
161293 2003 HR_{46}	16.7	X	75.89258	85.26627	144.31316	4.04026	0.1305202	0.28274773	2.2989876	21	8 29.6	19.5
161294 2003 JH_{14}	15.4	X	66.58097	133.86186	207.76507	17.67769	0.2156361	0.23884913	2.5726869	21	—	—
161295 2003 JF_{16}	16.3	X	308.08075	241.80812	179.09052	5.14841	0.0149746	0.29098927	2.2553714	21	11 8.9	18.9
161296 2003 KO_{3}	15.4	X	49.49125	103.36207	227.20793	12.81261	0.2357552	0.23487994	2.6015895	21	12 16.7	19.2
161297 2003 KG_{33}	15.5	X	72.81821	132.46878	147.07602	3.65448	0.1580806	0.18057833	3.0999805	21	10 24.8	19.9
161298 2003 LN_{4}	15.9	X	317.99586	117.59989	115.98653	6.85518	0.1786333	0.26400401	2.4065545	21	1 30.4	18.9
161299 2003 LR_{4}	16.7	X	301.55990	129.41741	151.06791	2.92567	0.1725303	0.26774605	2.3840791	21	3 13.2	19.8
161300 2003 LJ_{5}	15.4	X	261.89162	73.78087	172.75680	11.42219	0.2487927	0.25418636	2.4681292	21	—	—
161301 2003 MH_{1}	15.8	X	337.02347	155.13189	169.15120	22.94548	0.1600436	0.27700725	2.3306405	21	7 19.5	18.4
161302 2003 NK_{2}	16.4	X	268.21320	278.94549	15.25195	2.62433	0.1783121	0.26039900	2.4287147	21	2 23.0	20.1
161303 2003 NT_{6}	16.0	X	257.50562	243.56770	39.39874	5.50516	0.1677571	0.25769746	2.4456593	21	2 1.4	19.9
161304 2003 NQ_{9}	14.9	X	57.51772	32.06463	284.06077	10.11190	0.0989932	0.17417664	3.1754804	21	11 7.0	19.5
161305 2003 OQ_{1}	15.2	X	67.47757	189.47187	113.46122	17.49787	0.1750135	0.22955681	2.6416540	21	11 28.7	19.3
161306 2003 OB_{2}	16.1	X	297.12932	175.07676	120.93292	7.11408	0.1159329	0.26467826	2.4024657	21	4 9.7	19.2
161307 2003 OR_{2}	16.4	X	225.02570	353.81590	19.09946	2.64085	0.2298245	0.26015457	2.4302358	21	4 19.1	20.4
161308 2003 OU_{20}	16.1	X	258.50850	359.59409	357.05585	6.64261	0.1513805	0.26548449	2.3975994	21	5 3.4	19.7
161309 2003 OC_{22}	15.2	X	7.09172	11.34670	4.49144	13.43407	0.2468117	0.22257913	2.6965786	21	12 14.1	18.3
161310 2003 OE_{28}	15.8	X	141.71759	336.86312	323.05591	12.15687	0.1678201	0.23912409	2.5707144	21	—	—
161311 2003 OY_{28}	16.5	X	134.77093	278.95418	89.40404	3.63990	0.1829567	0.24525288	2.5277065	21	1 23.9	20.0
161312 2003 OY_{30}	16.0	X	111.01174	166.81306	163.76800	14.21983	0.3143382	0.23702861	2.5858433	21	—	—
161313 2003 PZ_{10}	16.5	X	188.07446	113.17225	154.82484	4.11824	0.1437630	0.24336789	2.5407418	21	—	—
161314 2003 QQ_{3}	16.0	X	206.78670	148.66741	110.10961	7.83829	0.1883288	0.24505700	2.5290533	21	—	—
161315 de Shalit	16.4	X	119.33917	62.11358	323.42109	4.83673	0.2345426	0.24296799	2.5435289	21	2 4.0	19.9
161316 2003 QH_{6}	15.7	X	129.03823	315.20832	335.30767	6.01820	0.0972769	0.23575305	2.5951622	21	—	—
161317 2003 QQ_{15}	16.4	X	152.36866	20.86626	309.44355	9.73329	0.1251174	0.24294894	2.5436618	21	—	—
161318 2003 QB_{18}	16.6	X	209.95044	237.99208	102.88054	2.86504	0.2725612	0.25337067	2.4734236	21	3 1.4	21.0
161319 2003 QJ_{28}	15.9	X	244.56584	129.43992	200.22654	2.18991	0.1974546	0.25744827	2.4472372	21	3 14.7	19.9
161320 2003 QE_{33}	15.2	X	88.19720	14.34507	303.21901	14.30887	0.1955244	0.23049848	2.6344543	21	—	—
161321 2003 QR_{33}	15.7	X	189.52574	36.88638	318.83540	6.93213	0.1522184	0.25332541	2.4737182	21	2 26.0	19.5
161322 2003 QZ_{33}	16.0	X	91.67785	255.21882	146.24225	15.50282	0.2249452	0.24259707	2.5461209	21	1 14.7	18.9
161323 2003 QF_{39}	16.2	X	109.28360	301.89863	351.95616	5.55158	0.2018431	0.23288425	2.6164311	21	12 25.1	20.6
161324 2003 QE_{41}	16.3	X	149.24281	302.24440	5.62210	1.88629	0.2036164	0.23969285	2.5666461	21	—	—
161325 2003 QZ_{49}	16.3	X	150.09824	203.35888	118.67703	3.06087	0.1818665	0.24151465	2.5537227	21	—	—
161326 2003 QC_{60}	16.0	X	111.98455	158.33927	147.99633	8.66355	0.0690341	0.23194677	2.6234764	21	—	—
161327 2003 QS_{63}	15.4	X	47.59780	181.52626	162.03587	14.32798	0.2637236	0.22605143	2.6688933	21	—	—
161328 2003 QV_{66}	15.4	X	40.72023	195.77470	194.84574	12.96992	0.2842367	0.22828034	2.6514923	21	—	—
161329 2003 QO_{72}	16.2	X	115.88025	286.32503	351.85501	12.47433	0.2574351	0.23311635	2.6146942	21	12 13.0	21.0
161330 2003 QY_{79}	16.0	X	137.64530	247.16514	123.31369	16.54415	0.2374957	0.24514056	2.5284785	21	2 5.5	19.7
161331 2003 QA_{90}	15.5	X	30.21050	149.25132	234.44709	8.86677	0.3629165	0.22424516	2.6832059	21	—	—
161332 2003 QX_{93}	15.5	X	5.92046	311.12318	143.67559	15.50322	0.0958894	0.23995919	2.5647466	21	—	—
161333 2003 QR_{99}	16.4	X	71.00292	226.37960	142.83881	2.47341	0.2154060	0.23436248	2.6054175	21	—	—
161334 2003 QY_{103}	13.6	X	36.17767	340.37043	76.76215	6.64354	0.2349038	0.12190453	4.0283095	21	—	—
161335 2003 QQ_{114}	16.3	X	123.43883	177.08047	212.00550	2.91729	0.1746279	0.24547029	2.5262137	21	2 3.2	19.8
161336 2003 RQ_{1}	14.6	X	8.60502	296.70119	118.29196	18.62144	0.1908156	0.17559506	3.1583568	21	—	—
161337 2003 RB_{22}	15.7	X	210.34993	330.93830	270.53108	6.50090	0.1257784	0.23913088	2.5706657	21	—	—
161338 2003 SC_{4}	15.1	X	47.83682	220.79298	6.98860	7.30197	0.1943863	0.20998935	2.8033105	21	7 24.6	18.5
161339 2003 SL_{22}	15.6	X	270.93847	88.54449	352.81901	4.86628	0.0903380	0.21643393	2.7473826	21	9 22.1	19.3
161340 2003 SK_{37}	15.7	X	144.66706	331.93127	309.23815	11.14769	0.1589897	0.23497067	2.6009197	21	—	—
161341 2003 SM_{41}	14.9	X	49.10581	90.47259	329.14647	13.28844	0.1777512	0.23375129	2.6099571	21	—	—
161342 2003 SQ_{44}	15.5	X	339.89819	98.25884	283.05635	4.26710	0.0768569	0.22092750	2.7100015	21	10 16.3	18.7
161343 2003 SL_{62}	15.4	X	121.72035	273.96289	316.41779	10.98366	0.2005628	0.22414835	2.6839784	21	10 14.8	20.0
161344 2003 SU_{64}	16.3	X	94.43122	265.18335	86.47232	5.55582	0.1743762	0.23479221	2.6022374	21	—	—
161345 2003 SX_{64}	16.5	X	60.79220	218.58695	170.70349	8.10430	0.2042685	0.23332242	2.6131544	21	—	—
161346 2003 SG_{89}	16.0	X	75.43112	36.63746	313.24647	9.11792	0.1402235	0.23193735	2.6235474	21	—	—
161347 2003 SP_{94}	15.7	X	69.10517	155.12979	196.26558	12.56787	0.2235499	0.22958925	2.6414051	21	—	—
161348 2003 SR_{103}	15.9	X	108.66494	146.91499	189.77989	7.15354	0.2031946	0.23486934	2.6016677	21	—	—
161349 Mecsek	16.0	X	5.08395	277.00901	116.74855	2.27491	0.0290019	0.22805830	2.6532130	21	12 9.3	19.4
161350 2003 SM_{140}	16.2	X	137.67601	198.03132	137.00982	6.77187	0.2795937	0.23878850	2.5731224	21	—	—
161351 2003 SR_{140}	15.6	X	7.04760	29.58567	301.22189	13.25726	0.0954421	0.21685597	2.7438169	21	9 15.8	19.1
161352 2003 SY_{140}	14.7	X	186.82949	20.06530	238.68372	16.53574	0.1682059	0.17910000	3.1170157	21	—	—
161353 2003 SV_{142}	15.8	X	19.23134	240.48274	156.66185	6.54190	0.1860107	0.22611803	2.6683692	21	—	—
161354 2003 SH_{149}	15.3	X	357.56638	147.51522	177.74241	5.12434	0.0579579	0.21418242	2.7666029	21	8 28.3	18.7
161355 2003 SG_{152}	16.1	X	153.04246	246.73855	77.95029	5.15397	0.1499728	0.24319077	2.5419753	21	—	—
161356 2003 SS_{157}	16.3	X	123.15265	355.92280	325.99122	0.91530	0.2388939	0.23559804	2.5963004	21	—	—
161357 2003 SB_{162}	15.7	X	332.45730	129.78200	216.69392	2.94940	0.1065912	0.21340454	2.7733219	21	8 15.2	18.8
161358 2003 SC_{163}	16.0	X	42.46382	173.39844	146.61418	2.40010	0.0681017	0.22058461	2.7128091	21	10 30.0	19.5
161359 2003 SU_{164}	15.8	X	48.14154	290.34133	56.58820	4.15096	0.0955371	0.22509904	2.6764160	21	12 14.5	19.3
161360 2003 SR_{165}	15.8	X	81.98184	199.18281	140.81266	7.27875	0.2039859	0.23011383	2.6373893	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161361 2003 SS_{165}	15.7	X	328.93194	261.40889	169.33309	12.39918	0.1371161	0.22253221	2.6969577	21	12 9.3	18.9
161362 2003 SC_{182}	15.7	X	91.56845	212.70634	178.84339	14.91840	0.1901707	0.23548917	2.5971005	21	—	—
161363 2003 SF_{192}	15.4	X	139.93230	325.30953	350.98957	14.94189	0.0969796	0.23510073	2.5999604	21	—	—
161364 2003 SJ_{198}	15.3	X	326.34084	31.62035	325.94441	10.95377	0.1258446	0.21426358	2.7659043	21	8 19.9	18.4
161365 2003 SD_{199}	15.4	X	22.47423	136.31804	225.76077	7.70687	0.2149429	0.22361364	2.6882554	21	12 17.3	18.6
161366 2003 SX_{207}	16.1	X	354.52083	331.59372	32.10349	2.34260	0.0927603	0.21875387	2.7279237	21	10 18.5	19.2
161367 2003 SP_{208}	16.1	X	194.46369	348.99743	271.11096	4.99928	0.1251027	0.24033359	2.5620822	21	—	—
161368 2003 SD_{226}	15.9	X	354.87757	334.78258	34.36408	5.23545	0.1257975	0.21932427	2.7231919	21	10 28.7	18.9
161369 2003 SK_{228}	16.0	X	38.56632	157.17344	178.02106	5.17357	0.2354372	0.22341175	2.6898746	21	12 8.5	19.6
161370 2003 SJ_{233}	16.0	X	38.95097	239.11459	92.05277	3.42997	0.1259059	0.22329427	2.6908180	21	11 17.5	19.4
161371 Bertrandou	16.1	X	298.60167	282.03654	199.23926	3.56180	0.0623925	0.23012480	2.6373054	21	12 29.6	19.4
161372 2003 SM_{247}	15.7	X	17.50504	232.84690	60.48233	1.80040	0.0991107	0.21386071	2.7693768	21	8 20.4	18.9
161373 2003 SN_{259}	15.7	X	269.21773	239.01690	197.52482	6.72824	0.0501656	0.21466630	2.7624439	21	9 18.4	19.4
161374 2003 SA_{272}	15.8	X	283.59001	216.71294	295.20688	8.89512	0.0181893	0.23541715	2.5976302	21	—	—
161375 2003 SF_{291}	15.3	X	316.92126	178.61367	213.67345	4.43396	0.1749196	0.21554819	2.7549040	21	9 15.1	18.1
161376 2003 SH_{291}	15.8	X	359.08996	131.35099	230.61672	2.29644	0.1898078	0.21909627	2.7250808	21	11 1.2	18.6
161377 2003 SX_{292}	15.6	X	72.14629	52.15104	324.11852	12.53681	0.1955020	0.23231884	2.6206746	21	—	—
161378 2003 ST_{293}	15.9	X	53.20717	300.79656	335.97731	3.83647	0.0763176	0.21716211	2.7412376	21	9 16.8	19.4
161379 2003 SE_{298}	15.7	X	54.97198	227.99350	106.57405	6.96749	0.0425093	0.22665032	2.6641898	21	12 1.4	19.4
161380 2003 SD_{304}	15.3	X	85.49882	17.22449	312.56782	13.53404	0.1096925	0.22850981	2.6497169	21	—	—
161381 2003 TH_{7}	15.4	X	203.03214	85.42890	84.80873	14.43657	0.0484983	0.22322545	2.6913711	21	11 3.2	19.4
161382 2003 TJ_{11}	15.4	X	322.90860	143.54279	235.84182	4.50416	0.0763382	0.21631268	2.7484092	21	9 15.9	18.7
161383 2003 TH_{15}	16.2	X	93.29098	225.78415	116.84785	3.87398	0.1347776	0.23238632	2.6201672	21	—	—
161384 2003 UK_{25}	15.4	X	357.01077	40.85142	329.61294	5.52418	0.0333186	0.21915997	2.7245528	21	10 25.1	18.9
161385 2003 UM_{27}	16.1	X	89.90952	195.90942	178.80144	13.85931	0.2842456	0.23363911	2.6107925	21	—	—
161386 2003 UB_{28}	15.8	X	303.74753	234.92077	150.77235	4.25830	0.1095363	0.21181816	2.7871516	21	8 23.1	19.3
161387 2003 UX_{40}	16.1	X	124.32587	121.61049	235.09298	2.60852	0.2456239	0.23778636	2.5803469	21	1 6.4	19.5
161388 2003 UH_{62}	15.3	X	12.21633	286.27018	67.99487	11.84540	0.1517075	0.22145328	2.7057104	21	11 12.5	18.3
161389 2003 UL_{78}	15.1	X	79.86026	359.25616	281.34938	13.21867	0.1538373	0.22257625	2.6966019	21	11 2.5	19.3
161390 2003 UB_{81}	15.7	X	73.58557	179.13625	180.46461	13.11435	0.1862564	0.22968230	2.6406917	21	—	—
161391 2003 UF_{97}	16.3	X	320.58864	302.60524	70.81680	1.55142	0.0880203	0.21408111	2.7674757	21	9 5.9	19.5
161392 2003 UU_{116}	16.2	X	122.62322	266.92675	82.85293	4.50114	0.3034726	0.23806690	2.5783193	21	1 4.2	19.8
161393 2003 UJ_{122}	16.1	X	16.59537	116.17094	229.26881	4.33304	0.1315965	0.21986900	2.7186922	21	11 2.4	19.1
161394 2003 UL_{130}	15.2	X	345.10945	84.27221	258.60665	10.28354	0.1824356	0.21299129	2.7769080	21	8 26.7	18.2
161395 2003 UM_{131}	15.6	X	320.42140	18.38724	292.09668	8.21586	0.1175705	0.20462931	2.8520523	21	6 4.3	19.3
161396 2003 UR_{132}	14.8	X	204.26045	170.90838	256.30531	11.64449	0.0844012	0.20126063	2.8837891	21	6 15.6	19.0
161397 2003 UU_{140}	15.5	X	174.31259	14.70545	133.14811	9.16211	0.0568179	0.21212044	2.7845031	21	8 27.2	19.5
161398 2003 UY_{162}	15.8	X	343.86368	266.63230	78.80044	3.81661	0.1600627	0.21448837	2.7639715	21	9 5.9	18.5
161399 2003 UB_{163}	15.2	X	278.10787	21.99860	50.42986	11.25889	0.2698543	0.21274948	2.7790117	21	8 29.1	19.1
161400 2003 UV_{164}	15.9	X	288.93303	224.86836	163.54294	4.70547	0.0827865	0.21043631	2.7993396	21	8 7.5	19.5
161401 2003 UT_{166}	15.6	X	19.40748	264.94680	43.62591	5.23939	0.0577045	0.21295188	2.7772506	21	9 11.2	19.1
161402 2003 UP_{168}	15.6	X	271.62202	56.50805	353.57831	3.11593	0.0922869	0.20947718	2.8078781	21	8 12.7	19.4
161403 2003 UH_{181}	15.6	X	294.65825	248.79361	141.82418	4.30982	0.1041131	0.21155686	2.7894461	21	8 16.7	19.0
161404 2003 UD_{190}	15.6	X	23.82695	292.30947	21.86439	5.51785	0.1842896	0.21642515	2.7474569	21	10 10.1	18.7
161405 2003 UF_{202}	15.4	X	14.16151	177.87306	170.85295	9.62701	0.2846515	0.21998628	2.7177259	21	11 28.6	18.4
161406 2003 UJ_{202}	15.9	X	91.88400	248.99834	124.56915	5.69082	0.2216477	0.23358478	2.6111973	21	—	—
161407 2003 UB_{213}	16.7	X	88.65336	265.33773	38.71516	6.62789	0.1090467	0.27736903	2.3286135	21	12 18.7	20.0
161408 2003 UC_{213}	15.6	X	306.15299	351.09829	40.42004	4.91247	0.0755601	0.21120622	2.7925326	21	9 10.6	19.1
161409 2003 UG_{234}	15.5	X	343.20258	347.17503	17.48646	3.56290	0.1707059	0.21507915	2.7589077	21	10 1.4	18.2
161410 2003 UP_{237}	15.4	X	9.61314	60.04349	266.26056	4.03037	0.0756901	0.21198338	2.7857032	21	9 16.8	18.8
161411 2003 UD_{238}	15.4	X	267.69477	318.33746	93.70121	7.92428	0.1032324	0.20899045	2.8122359	21	8 9.3	19.3
161412 2003 UW_{245}	15.9	X	337.63883	239.75047	148.96035	1.99392	0.0946752	0.21698783	2.7427052	21	10 25.3	18.9
161413 2003 UG_{246}	15.8	X	127.05079	266.94531	72.01963	4.76776	0.3041973	0.23622139	2.5917309	21	—	—
161414 2003 UD_{253}	15.9	X	349.53899	305.66358	43.88596	5.08328	0.2353489	0.21561431	2.7543407	21	9 26.9	18.1
161415 2003 UM_{253}	15.5	X	44.02597	304.64387	101.83074	12.64461	0.1880656	0.23479312	2.6022307	21	—	—
161416 2003 UU_{254}	15.3	X	5.01995	40.89723	323.24797	16.84814	0.3432119	0.21623722	2.7490486	21	12 9.3	18.3
161417 2003 UJ_{264}	15.7	X	354.71552	190.92969	163.80013	6.11357	0.0868740	0.21528882	2.7571161	21	10 6.9	18.9
161418 2003 UL_{267}	15.7	X	14.54092	85.81428	226.79105	3.90318	0.0602053	0.21141370	2.7907052	21	9 4.9	19.2
161419 2003 UL_{276}	15.9	X	113.36454	41.61692	0.57217	2.15927	0.3513094	0.23835436	2.5762459	21	3 6.3	19.7
161420 2003 UM_{276}	14.1	X	87.67384	157.08553	293.23986	26.65859	0.1318013	0.17883206	3.1201284	21	2 25.8	18.8
161421 2003 WC_{6}	16.1	X	88.22544	115.44403	276.82527	1.25664	0.2280597	0.23432521	2.6056938	21	—	—
161422 2003 WK_{17}	15.3	X	148.54292	359.65447	354.17617	12.39926	0.2110168	0.24023856	2.5627578	21	1 27.9	19.3
161423 2003 WE_{26}	15.8	X	351.93067	190.37056	156.49878	9.53213	0.2379207	0.21595391	2.7514524	21	9 29.2	18.0
161424 2003 WC_{39}	16.9	X	165.41390	246.86166	308.80066	5.61539	0.0712675	0.27109754	2.3643894	21	10 19.3	20.3
161425 2003 WC_{41}	16.2	X	350.73389	327.28287	2.16456	2.19986	0.2821527	0.21267593	2.7796524	21	8 26.9	17.9
161426 2003 WN_{42}	14.9	X	29.59746	282.01757	98.78616	27.50947	0.2484605	0.22416482	2.6838470	21	—	—
161427 2003 WC_{55}	15.8	X	317.65843	54.95944	321.94025	3.55405	0.0811085	0.21079150	2.7961941	21	9 4.6	19.1
161428 2003 WD_{57}	15.9	X	322.71953	149.32677	213.76466	4.16509	0.0816768	0.21187493	2.7866537	21	8 23.6	19.4
161429 2003 WY_{72}	15.0	X	1.85855	1.33426	344.20624	11.52272	0.0985639	0.21370049	2.7707609	21	10 1.4	18.4
161430 2003 WP_{81}	15.4	X	144.08581	256.98196	87.89713	14.57443	0.1961439	0.24266096	2.5456739	21	1 6.5	19.1
161431 2003 WG_{83}	15.1	X	83.19914	83.95499	277.97832	13.28179	0.1529371	0.23047224	2.6346543	21	—	—
161432 2003 WN_{83}	15.5	X	66.75906	81.76496	298.90622	10.39948	0.2826449	0.23063282	2.6334312	21	—	—
161433 2003 WY_{100}	16.3	X	127.16264	203.15320	142.52002	6.44486	0.2822391	0.23845924	2.5754904	21	—	—
161434 2003 WT_{133}	15.5	X	221.40655	85.47979	218.84194	4.09473	0.1688416	0.24219789	2.5489177	21	1 25.1	19.8
161435 2003 WB_{150}	15.9	X	11.85734	269.86819	102.33881	6.10453	0.1775445	0.22022759	2.7157403	21	12 8.1	19.0
161436 2003 WL_{159}	14.9	X	60.70360	349.17125	134.18281	16.29298	0.0354440	0.18513468	3.0489071	21	3 7.7	19.1
161437 2003 WJ_{170}	15.4	X	104.92005	132.21774	205.04268	17.33297	0.2528984	0.23062268	2.6335084	21	—	—
161438 2003 WY_{170}	15.7	X	74.67799	178.44798	152.76600	12.84264	0.2025337	0.22565213	2.6720408	21	—	—
161439 2003 WM_{171}	16.2	X	342.03417	220.79808	108.37277	9.05415	0.2330548	0.21125652	2.7920893	21	8 2.7	18.6
161440 2003 WA_{172}	15.7	X	158.11449	148.11322	199.95052	18.74015	0.2923893	0.23994138	2.5648735	21	1 28.4	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161441 2003 XV_9	15.3	X	23.12804	8.83912	14.88922	14.61883	0.2003917	0.22150560	2.7052843	21	—	—
161442 2003 YU_{14}	14.5	X	126.93754	19.15095	302.69366	14.42756	0.0511029	0.16830288	3.2489399	21	—	—
161443 2003 YK_{26}	14.9	X	122.27251	75.91311	316.10226	10.57682	0.0791727	0.17693913	3.1423421	21	2 5.6	19.2
161444 2003 YX_{32}	14.9	X	263.38558	174.87053	94.44036	16.34239	0.0471938	0.18533574	3.0467017	21	2 14.1	19.5
161445 2003 YN_{45}	15.1	X	152.39526	276.03802	14.99268	13.52406	0.2476450	0.23163515	2.6258288	21	—	—
161446 2003 YM_{46}	15.1	X	263.08168	352.34301	336.82938	9.38688	0.0919355	0.19159846	2.9799436	21	4 14.0	19.7
161447 2003 YF_{47}	14.9	X	191.57763	221.92676	99.93043	7.66857	0.0686183	0.18149852	3.0894937	21	1 27.5	19.5
161448 2003 YK_{63}	15.2	X	26.69427	260.45223	117.71392	10.20867	0.1974996	0.21957863	2.7210885	21	—	—
161449 2003 YX_{91}	15.5	X	105.40531	350.90927	102.26175	10.89904	0.0301793	0.18939116	3.0030524	21	3 28.7	19.9
161450 2003 YK_{103}	14.0	X	293.30988	92.18206	95.31451	27.56345	0.0514246	0.16954907	3.2330005	21	—	—
161451 2003 YM_{119}	16.8	X	116.46138	303.45232	51.55068	4.94704	0.1505685	0.28555696	2.2838849	21	—	—
161452 2003 YJ_{139}	15.4	X	283.63851	49.23352	356.74164	9.07450	0.1882369	0.20860958	2.8156579	21	8 10.9	19.1
161453 2003 YE_{158}	15.2	X	79.94280	21.53599	329.73845	12.21552	0.1697700	0.22826178	2.6516361	21	—	—
161454 2003 YD_{180}	16.8	X	218.86985	234.85949	96.33461	3.97956	0.1830646	0.29681814	2.2257468	21	2 20.3	20.3
161455 2004 AR	16.3	X	79.81183	250.95173	139.34600	5.54528	0.3132697	0.23297133	2.6157791	21	—	—
161456 2004 AH_{26}	15.4	X	181.10263	244.91233	136.20053	10.88550	0.1176283	0.18969508	2.9998440	21	3 31.5	20.2
161457 2004 BV	15.1	X	144.94905	70.08044	283.20868	7.67477	0.1348858	0.17366312	3.1817373	21	1 21.9	20.0
161458 2004 BP_2	14.9	X	124.63921	258.33761	126.06524	10.25529	0.0828543	0.17476843	3.1683080	21	1 31.4	19.4
161459 2004 BQ_{22}	14.6	X	82.71720	280.03444	136.93743	11.07880	0.0980095	0.17409094	3.1765226	21	1 20.3	18.8
161460 2004 BU_{44}	16.8	X	226.02751	74.87226	282.64226	2.64783	0.1991396	0.30199430	2.2002408	21	3 28.2	20.2
161461 2004 BS_{56}	16.0	X	21.50790	111.79345	321.98894	11.08821	0.1722286	0.22137990	2.7063083	21	—	—
161462 2004 BE_{116}	14.9	X	136.17975	97.54735	324.08681	21.21248	0.1208741	0.18279689	3.0748470	21	3 22.1	19.9
161463 2004 CY_1	14.3	X	78.83798	276.58685	163.46823	25.94839	0.2197713	0.17616456	3.1515462	21	3 1.2	18.3
161464 2004 CE_{35}	16.3	X	320.71077	9.77131	118.41041	7.36655	0.1119746	0.27585607	2.3371200	21	—	—
161465 2004 CY_{70}	15.8	X	188.98099	241.18018	39.54379	2.52868	0.0540886	0.22169474	2.7037454	21	—	—
161466 2004 CA_{83}	15.0	X	152.17336	59.99887	333.53458	16.61450	0.1722684	0.17912362	3.1167416	21	3 15.1	20.2
161467 2004 DY_{17}	16.7	X	198.68713	238.12361	12.82751	4.01721	0.2575956	0.26803692	2.3823540	21	—	—
161468 2004 DE_{31}	15.9	X	238.24217	226.75178	69.19075	1.19679	0.0712437	0.22921481	2.6442810	21	2 6.2	19.6
161469 2004 EC_{79}	16.7	X	207.08258	234.05043	53.78025	3.61668	0.1688266	0.27530054	2.3402630	21	—	—
161470 2004 EV_{80}	17.1	X	234.06689	52.83501	25.01752	7.25173	0.0782779	0.30879279	2.1678270	21	8 10.4	19.8
161471 2004 FE_{12}	15.1	X	184.65673	42.77373	316.65766	13.27952	0.1004842	0.23007107	2.6377160	21	2 24.7	19.3
161472 2004 FG_{20}	16.8	X	260.47443	233.84314	299.56238	1.71815	0.1454806	0.26872884	2.3782629	21	—	—
161473 2004 FC_{40}	16.8	X	338.86454	308.67968	316.31746	4.09955	0.1079563	0.29342824	2.2428562	21	4 21.3	19.0
161474 2004 FE_{40}	16.7	X	351.03799	312.30640	290.39964	4.91960	0.0536687	0.29267803	2.2466873	21	4 14.5	19.3
161475 2004 FY_{92}	15.8	X	31.28284	162.40622	191.02423	2.15726	0.2098674	0.25880289	2.4386902	21	12 25.6	18.8
161476 2004 FS_{96}	16.0	X	158.98672	193.73697	104.59736	9.65443	0.1396236	0.26962099	2.3730137	21	—	—
161477 2004 FJ_{160}	15.0	X	339.98144	113.04367	294.73846	15.75016	0.0791973	0.20439508	2.8542308	21	11 16.6	18.8
161478 2004 GX_{25}	14.6	X	21.85123	267.17144	186.06499	14.37144	0.0652820	0.15823996	3.3852593	21	—	—
161479 2004 GU_{27}	16.5	X	59.38642	284.22962	66.81473	22.52747	0.0844217	0.37299704	1.9113158	21	—	—
161480 2004 GX_{38}	15.5	X	183.69741	37.39032	35.27368	4.95193	0.1457100	0.23838246	2.5760434	21	5 29.9	19.5
161481 2004 GQ_{60}	17.0	X	53.27388	356.19049	136.64081	2.43526	0.1004024	0.28466437	2.2886567	21	2 19.9	19.0
161482 2004 GL_{61}	16.3	X	198.47114	262.08454	47.42442	4.72780	0.0746814	0.21933912	2.7230690	21	1 13.7	20.4
161483 2004 GA_{87}	16.4	X	205.98065	286.35556	316.84341	7.01840	0.0749432	0.26619984	2.3933021	21	—	—
161484 2004 HU_{42}	12.5	X	36.01511	310.87985	33.30275	17.38889	0.0238793	0.08285407	5.2110689	21	10 25.3	19.2
161485 2004 HZ_{47}	16.8	X	231.11272	312.27324	324.34217	6.07647	0.1348721	0.27358551	2.3500332	21	—	—
161486 2004 HE_{52}	15.9	X	20.90205	252.14843	30.50687	2.45295	0.1227219	0.18405186	3.0608537	21	8 11.6	19.6
161487 2004 JO_{15}	16.9	X	287.36905	184.82834	76.80659	2.97548	0.1225403	0.27874821	2.3209262	21	2 4.9	20.2
161488 2004 JC_{18}	16.7	X	302.34226	217.78482	21.40655	3.23484	0.0533350	0.27955174	2.3164766	21	2 2.9	19.6
161489 2004 KN_6	12.8	X	253.67484	36.24671	115.48754	8.15481	0.0108432	0.08416222	5.1569305	21	11 20.1	19.7
161490 2004 KY_7	17.3	X	283.83076	301.05274	325.10544	3.41488	0.1269231	0.27954729	2.3165012	21	2 5.4	20.2
161491 2004 KJ_{10}	15.0	X	73.87706	202.13337	27.63181	9.53801	0.0469694	0.18386003	3.0629824	21	8 11.9	19.4
161492 2004 LG_2	15.9	X	27.52249	181.27305	61.83185	8.18406	0.0566615	0.23385131	2.6092128	21	6 21.6	19.1
161493 2004 LL_6	15.1	X	50.80727	258.38617	66.96770	11.45156	0.0596698	0.19328408	2.9625930	21	11 11.9	19.2
161494 2004 LN_{14}	15.4	X	327.48637	92.48249	91.80955	14.57028	0.1292777	0.21620247	2.7493431	21	—	—
161495 2004 MA_1	16.1	X	303.81626	103.26280	111.48738	23.09197	0.1989332	0.27247151	2.3564342	21	—	—
161496 2004 NY	15.6	X	291.06062	309.31096	286.06593	13.09819	0.1121625	0.21295370	2.7772348	21	1 18.0	19.5
161497 2004 NY_{32}	16.1	X	340.63695	131.79060	270.55761	3.51518	0.2098930	0.24046155	2.5611732	21	11 29.4	18.2
161498 2004 PT_{69}	15.3	X	5.26097	315.75574	122.19011	7.10754	0.0402630	0.19091810	2.9870189	21	—	—
161499 2004 PE_{82}	15.9	X	69.87175	216.14342	337.54384	5.57243	0.0817134	0.22408095	2.6845166	21	6 20.8	19.4
161500 2004 RW_{13}	14.9	X	226.38613	143.49039	335.87171	16.44428	0.0769440	0.17558352	3.1584952	21	9 11.1	19.7
161501 2004 RV_{19}	16.3	X	77.19345	223.25777	88.52271	7.40522	0.1873937	0.24327461	2.5413912	21	12 18.4	20.2
161502 2004 RP_{26}	15.2	X	281.21956	61.84157	353.75445	8.58634	0.0760028	0.17292661	3.1907650	21	9 2.3	19.6
161503 2004 RD_{45}	15.7	X	111.16780	323.89909	330.53330	2.64560	0.0949371	0.18680850	3.0306675	21	12 14.0	20.2
161504 2004 RD_{54}	15.2	X	78.87821	217.00868	72.83330	4.52601	0.1231387	0.18036683	3.1024034	21	11 7.9	19.7
161505 2004 RU_{68}	16.4	X	267.16341	110.66574	175.22837	8.63927	0.2383798	0.27013590	2.3699973	21	2 3.6	20.5
161506 2004 RR_{79}	15.9	X	242.93226	54.19343	18.54621	23.13572	0.2600368	0.27990229	2.3145421	21	7 27.6	20.0
161507 2004 RU_{82}	17.2	X	200.89540	263.38266	26.00180	1.15171	0.1035654	0.25843517	2.4410030	21	—	—
161508 2004 RW_{88}	15.3	X	312.85746	308.91716	285.25855	12.36145	0.1719398	0.21437621	2.7649354	21	1 31.9	19.2
161509 2004 RB_{99}	17.9	X	142.50193	337.35862	323.08939	2.62631	0.1602932	0.31045182	2.1600969	21	—	—
161510 2004 RA_{150}	17.0	X	106.00587	161.39748	113.28567	4.45603	0.1477900	0.29987667	2.2105869	21	12 6.4	20.2
161511 2004 RP_{179}	15.0	X	137.00162	326.12305	327.52772	13.08026	0.1016687	0.18917750	3.0053132	21	—	—
161512 2004 RD_{190}	15.1	X	90.14180	353.17548	335.28551	10.98055	0.0945103	0.18497276	3.0506862	21	—	—
161513 2004 RK_{195}	16.7	X	160.53988	335.52117	313.70007	4.37457	0.2302584	0.31053410	2.1597153	21	—	—
161514 2004 RE_{288}	16.2	X	347.49544	215.01504	43.80274	6.91515	0.0689298	0.27203447	2.3589574	21	5 6.6	18.4
161515 2004 RO_{291}	15.2	X	206.27822	343.15782	191.35938	9.21266	0.0385033	0.17964920	3.1106599	21	11 2.9	19.7
161516 2004 RR_{326}	17.2	X	58.07697	58.32642	315.85546	5.18216	0.1827915	0.30204177	2.2000103	21	—	—
161517 2004 RZ_{328}	17.0	X	358.94654	101.36161	183.92307	4.99877	0.1711198	0.28405848	2.2919099	21	7 5.7	18.6
161518 2004 RK_{334}	15.0	X	40.85760	194.65419	137.42660	13.48284	0.0895187	0.18006862	3.1058277	21	11 12.4	19.5
161519 2004 SQ_{11}	16.3	X	251.10190	54.37621	26.48542	25.12904	0.1917410	0.28604518	2.2812854	21	9 1.7	19.9
161520 2004 SO_{32}	14.9	X	94.03701	148.87647	178.83568	14.71883	0.1101037	0.18466913	3.0540291	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161521 2004 SG_{51}	15.8	X	223.13854	351.66307	10.96515	2.59873	0.0641099	0.21075560	2.7965117	21	4 15.6	20.0
161522 2004 SO_{57}	15.2	X	275.71133	161.46327	215.70643	13.32290	0.1981076	0.22097829	2.7095863	21	6 17.5	19.2
161523 2004 SQ_{60}	15.3	X	62.67624	164.21928	170.19993	13.11585	0.1116434	0.18059179	3.0998264	21	12 11.7	20.0
161524 2004 TU_{16}	15.5	X	11.60737	19.62453	239.27372	24.27102	0.1688072	0.27848353	2.3223965	21	6 18.1	17.6
161525 2004 TH_{44}	17.2	X	106.01248	322.46788	337.03651	2.22754	0.1428278	0.29992335	2.2103575	21	—	—
161526 2004 TF_{106}	15.9	X	59.66089	115.72862	177.26170	12.93161	0.1836995	0.23581540	2.5947047	21	11 7.5	19.6
161527 2004 TG_{124}	16.2	X	203.11930	39.84027	39.53131	2.98192	0.1729652	0.21869869	2.7283825	21	6 26.4	20.6
161528 2004 TE_{133}	16.3	X	41.03162	174.54465	195.15970	6.97548	0.1534472	0.29708387	2.2244194	21	—	—
161529 2004 TR_{179}	16.7	X	248.30138	123.42835	179.95510	8.12805	0.1276137	0.26761262	2.3848715	21	2 15.1	20.2
161530 2004 TQ_{293}	16.6	X	328.29014	345.79799	278.84268	1.51865	0.1791623	0.27055279	2.3675620	21	3 26.3	19.3
161531 2004 TA_{296}	16.9	X	28.86474	58.04816	237.43442	3.94365	0.2054706	0.28550361	2.2841694	21	10 4.8	19.0
161532 2004 TN_{342}	16.1	X	68.37777	18.22338	218.82822	4.53087	0.1357984	0.27951019	2.3167062	21	8 27.9	18.9
161533 2004 TF_{345}	16.4	X	81.17129	117.34334	219.58980	6.58379	0.2278174	0.30013567	2.2093150	21	—	—
161534 2004 TZ_{359}	16.3	X	39.85950	26.74634	276.08366	4.97836	0.1647633	0.28891031	2.2661780	21	10 26.2	18.9
161535 2004 VR_{9}	16.5	X	140.66357	199.97390	116.13769	6.09787	0.2077372	0.30724075	2.1751214	21	—	—
161536 2004 VA_{16}	16.4	X	199.11013	321.60337	104.09349	6.52896	0.1720579	0.27171010	2.3608344	21	6 4.8	20.2
161537 2004 VA_{24}	16.9	X	325.21545	184.79736	195.25964	4.42057	0.1661637	0.28558300	2.2837461	21	9 28.2	18.5
161538 2004 VP_{26}	16.7	X	342.45590	9.27594	341.21139	5.30807	0.1746726	0.28600798	2.2814832	21	9 18.8	18.2
161539 2004 VQ_{57}	15.8	X	327.03952	322.01708	37.69909	8.11205	0.1643384	0.28319678	2.2965567	21	9 3.1	17.7
161540 2004 VP_{77}	15.0	X	148.39841	73.61388	209.90146	9.28641	0.0322054	0.18099232	3.0952516	21	—	—
161541 2004 VJ_{81}	16.6	X	265.92540	167.77685	96.99589	3.67767	0.1555988	0.25756355	2.4465069	21	1 17.2	20.2
161542 2004 WF_{3}	16.3	X	68.02737	186.74982	138.59780	3.19473	0.2230370	0.23766482	2.5812265	21	12 28.5	20.3
161543 2004 WH_{10}	16.4	X	90.49124	331.77493	334.06993	5.50568	0.1969345	0.29776997	2.2210012	21	—	—
161544 2004 XQ_{13}	16.0	X	194.93940	129.44285	250.95821	0.42494	0.1938958	0.26101911	2.4248666	21	4 3.8	20.0
161545 Ferrando	15.9	X	115.96592	16.48123	223.65558	22.94685	0.1825507	0.28417396	2.2912890	21	10 31.9	19.6
161546 Schneeweis	15.9	X	197.06225	147.97390	75.79597	5.22720	0.0393684	0.23463938	2.6033673	21	12 30.9	19.5
161547 2004 XS_{29}	15.4	X	242.52680	238.84168	257.50846	12.86157	0.1239852	0.22761333	2.6566699	21	10 19.7	19.3
161548 2004 XL_{49}	16.5	X	332.36885	230.66377	145.35964	7.39629	0.1195837	0.28724672	2.2749193	21	10 12.9	18.5
161549 2004 XN_{49}	16.4	X	320.99688	211.64979	167.34436	5.69024	0.1705555	0.28348756	2.2949860	21	9 16.3	17.9
161550 2004 XS_{54}	16.7	X	340.18336	349.14373	22.67170	3.66315	0.1849469	0.28520309	2.2857737	21	10 21.6	18.2
161551 2004 XO_{72}	16.4	X	4.65253	316.86749	35.41533	4.97621	0.2769169	0.28608781	2.2810588	21	11 29.9	18.3
161552 2004 XT_{80}	16.3	X	307.71396	310.69494	66.77836	4.36496	0.2415552	0.28139328	2.3063590	21	8 2.9	18.3
161553 2004 XV_{102}	16.6	X	350.97962	351.44356	14.40964	6.95305	0.1423926	0.28748300	2.2736727	21	10 31.4	18.6
161554 2004 XO_{121}	15.7	X	44.82295	74.15812	280.82646	11.85130	0.0625204	0.22910337	2.6451383	21	12 17.0	19.2
161555 2004 XX_{121}	16.5	X	124.14052	296.71509	288.54494	8.06363	0.0494952	0.28149376	2.3058101	21	10 9.0	19.7
161556 2004 XZ_{146}	16.7	X	75.31048	173.85580	311.95883	17.74648	0.0602962	0.36996998	1.9217272	21	2 19.4	18.3
161557 2004 YF_{6}	16.1	X	328.18657	223.96607	108.45038	3.00642	0.2150878	0.27378474	2.3488929	21	7 6.9	17.6
161558 2004 YF_{17}	16.3	X	223.55749	242.71085	98.19459	3.42593	0.2080150	0.25721784	2.4486986	21	3 12.4	20.4
161559 2004 YO_{21}	16.6	X	204.21653	271.87299	107.75509	2.26781	0.2591965	0.26138343	2.4226128	21	4 11.9	20.8
161560 2004 YW_{34}	16.5	X	346.29542	102.05702	253.91747	1.04727	0.0487089	0.21620707	2.7493041	21	9 22.5	20.0
161561 2005 AR_{7}	16.2	X	92.59307	20.28047	25.53740	2.49829	0.1473658	0.24447084	2.5330942	21	1 10.7	19.0
161562 2005 AU_{10}	16.0	X	84.58564	9.37398	40.52828	5.62372	0.1461907	0.24355068	2.5394704	21	1 3.2	18.8
161563 2005 AB_{17}	16.4	X	152.81529	278.16331	133.75889	1.93621	0.1836639	0.25771446	2.4455518	21	4 6.1	20.0
161564 2005 AF_{35}	15.1	X	103.55156	174.90621	118.89063	16.48753	0.1432604	0.22798705	2.6537658	21	12 17.5	19.4
161565 2005 AD_{62}	15.0	X	282.18892	8.94520	323.96472	12.00187	0.0992759	0.20120866	2.8842857	21	5 9.6	19.3
161566 2005 AH_{64}	15.2	X	214.69232	141.56971	123.89977	11.21755	0.1885851	0.17690329	3.1427664	21	—	—
161567 2005 BX	16.0	X	78.94517	305.17209	88.39374	3.76604	0.2120056	0.24125407	2.5555612	21	—	—
161568 2005 BC_{2}	15.5	X	343.28167	226.35443	111.12669	6.33825	0.0718414	0.21353432	2.7721981	21	8 25.5	18.8
161569 2005 BH_{17}	16.3	X	42.07058	100.83016	295.55839	6.64818	0.1487267	0.23495388	2.6010436	21	—	—
161570 2005 BR_{23}	15.3	X	335.03642	52.66140	83.74494	6.58109	0.1086247	0.17798482	3.1300221	21	—	—
161571 2005 CB_{6}	14.5	X	155.83365	171.10572	151.82572	18.80593	0.0949853	0.17329946	3.1861868	21	—	—
161572 2005 CP_{50}	15.1	X	18.21531	14.41378	146.50979	9.83382	0.0810102	0.18480058	3.0525808	21	2 22.6	19.0
161573 2005 CX_{57}	15.2	X	316.63304	242.56507	300.15273	4.42102	0.1061579	0.17857825	3.1230841	21	—	—
161574 2005 DS	14.9	X	182.99852	147.27288	158.23441	3.51238	0.0736333	0.17318828	3.1875503	21	—	—
161575 2005 EZ_{10}	15.2	X	175.49069	110.10002	319.14044	7.49645	0.0482164	0.19501313	2.9450555	21	5 15.2	19.7
161576 2005 EY_{47}	14.6	X	201.53900	309.00261	347.60884	14.60633	0.0880442	0.17527641	3.1621835	21	1 12.3	19.7
161577 2005 EK_{72}	14.8	X	113.34391	17.62783	34.33771	11.46322	0.0558883	0.18335889	3.0685608	21	2 20.2	19.3
161578 2005 EL_{85}	14.9	X	121.39399	259.30500	137.94295	10.34056	0.0741895	0.18133676	3.0913307	21	2 9.6	19.2
161579 2005 EH_{121}	17.7	X	133.58353	21.27214	206.11373	1.91932	0.1815263	0.27211626	2.3584846	21	10 30.9	21.5
161580 2005 EV_{122}	14.7	X	237.42862	135.99818	158.88821	12.36631	0.0979905	0.18176272	3.0864993	21	2 8.4	19.5
161581 2005 EA_{204}	14.9	X	221.97003	150.88915	131.20754	18.01597	0.1875521	0.17929476	3.1147581	21	1 9.7	20.2
161582 2005 ET_{219}	16.7	X	143.79725	129.42467	198.61588	3.75559	0.0381821	0.28802988	2.2707937	21	—	—
161583 2005 GZ_{119}	15.8	X	275.46740	325.51392	336.11046	11.85894	0.2605251	0.24092123	2.5579144	21	3 3.9	20.0
161584 2005 GN_{123}	15.3	X	350.87694	61.25339	217.06867	10.15187	0.2770373	0.18720647	3.0263709	21	6 1.4	18.0
161585 Danielhals	15.7	X	160.28821	237.85681	99.71920	2.85167	0.1742549	0.17519869	3.1631186	21	1 22.5	20.8
161586 2005 JO_{88}	16.7	X	356.90131	326.49325	44.47932	6.93319	0.1469758	0.26524542	2.3990398	21	11 16.2	18.9
161587 2005 LC_{7}	16.5	X	92.96647	264.98652	186.50070	4.64618	0.0692350	0.29612746	2.2292063	21	2 18.5	18.8
161588 2005 LE_{30}	15.6	X	283.21980	215.24664	116.11283	2.46882	0.2221775	0.17681072	3.1438632	21	4 29.1	20.2
161589 2005 MF_{49}	16.1	X	14.02156	56.03527	206.22774	3.54668	0.1676726	0.24327203	2.5414092	21	7 3.2	18.4
161590 2005 NO_{49}	15.3	X	320.13692	193.15930	204.03735	5.28776	0.2052317	0.18942297	3.0027162	21	9 21.7	18.6
161591 2005 OG_{14}	16.5	X	41.52510	313.92563	30.89754	1.67141	0.2040382	0.25858454	2.4400628	21	12 26.4	19.7
161592 Sarahhamilton	17.6	X	226.81968	180.08147	259.77461	2.63290	0.1494138	0.23949537	2.5680568	21	7 21.3	21.5
161593 2005 QE_{28}	16.6	X	349.92761	93.06949	333.82499	4.65603	0.0842476	0.26158217	2.4213856	21	—	—
161594 2005 QR_{171}	16.5	X	241.34522	5.32716	313.79990	6.69315	0.2076112	0.28684604	2.2770373	21	2 22.5	20.3
161595 2005 SK_{19}	15.3	X	36.03398	120.36971	201.45628	5.65249	0.1588035	0.18536917	3.0463354	21	10 30.6	19.2
161596 2005 SK_{79}	16.8	X	95.41401	127.45100	19.42314	6.90282	0.1143640	0.28916864	2.2648282	21	5 22.9	19.5
161597 2005 SR_{85}	16.4	X	274.22321	300.60752	30.60025	2.83831	0.0453114	0.22861542	2.6489009	21	5 7.3	19.8
161598 2005 SF_{129}	15.8	X	48.11706	115.89323	24.94747	5.26657	0.1066086	0.21477361	2.7615237	21	3 11.8	18.9
161599 2005 SB_{153}	17.4	X	32.15432	147.11443	141.93731	2.22870	0.1456769	0.30456672	2.1878342	21	9 25.4	19.3
161600 2005 TE_{28}	16.9	X	104.38099	36.08449	45.54687	5.53118	0.2080575	0.27580504	2.3374083	21	3 24.1	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161601 2005 TU_{75}	15.8	X	105.74128	128.89034	289.00465	8.04678	0.0837166	0.21222339	2.7836025	21	2 9.3	19.6
161602 2005 TQ_{129}	16.9	X	222.08093	80.52017	25.80693	3.89260	0.0146399	0.23966760	2.5668264	21	9 5.9	20.2
161603 2005 TY_{166}	16.2	X	120.91832	74.23784	280.08521	0.94100	0.0764976	0.20355514	2.8620772	21	—	—
161604 2005 TU_{174}	16.9	X	112.58728	192.90994	159.68277	6.00447	0.1139810	0.26648332	2.3916045	21	—	—
161605 2005 TR_{191}	15.9	X	116.63774	304.11800	176.14802	9.17431	0.0968521	0.22116287	2.7080784	21	5 19.4	19.8
161606 2005 UR_{38}	14.2	X	8.71422	327.96957	85.68056	3.20257	0.0810131	0.12750544	3.9094612	21	12 21.0	19.4
161607 2005 UW_{54}	16.7	X	275.71053	59.39320	310.78693	2.93818	0.1975464	0.29559045	2.2319054	21	6 6.1	19.4
161608 2005 UZ_{68}	14.3	X	179.83766	280.58139	245.93262	24.71628	0.2061141	0.18154363	3.0889820	21	9 8.4	20.1
161609 2005 UA_{83}	16.1	X	89.99161	311.18313	214.20130	12.53674	0.1993792	0.22355729	2.6887071	21	6 26.6	20.1
161610 2005 UN_{88}	16.0	X	146.15319	114.88896	72.80556	2.28698	0.1366329	0.17650244	3.1475229	21	9 15.4	20.9
161611 2005 UR_{110}	16.9	X	331.05949	298.73001	34.78932	3.85977	0.1632842	0.29839010	2.2179229	21	7 25.9	18.4
161612 2005 UQ_{127}	16.5	X	224.42347	193.95812	33.78760	2.61661	0.1644961	0.25957187	2.4338715	21	—	—
161613 2005 UE_{274}	15.9	X	230.02451	33.64641	350.21180	13.30292	0.1147527	0.22656377	2.6648682	21	5 11.0	20.2
161614 2005 UG_{427}	17.1	X	291.28991	68.49544	357.58094	3.07496	0.0857870	0.24168577	2.5525171	21	10 4.9	19.9
161615 2005 UQ_{440}	16.6	X	340.48853	240.58395	2.06884	7.43974	0.0773352	0.28483391	2.2877483	21	3 28.5	18.8
161616 2005 UB_{497}	15.2	X	161.32849	94.94294	79.38195	10.47781	0.0766423	0.17811281	3.1285225	21	9 17.2	20.1
161617 2005 UJ_{513}	15.5	X	351.32813	31.96240	40.58644	9.90121	0.0397916	0.19194813	2.9763234	21	—	—
161618 2005 VH_{117}	16.5	X	91.21419	132.99776	44.90901	2.77210	0.1381583	0.22407888	2.6845331	21	7 7.7	20.1
161619 2005 VH_{120}	16.2	X	61.40581	282.09107	307.31230	6.04892	0.1073536	0.27952702	2.3166132	21	8 3.3	18.8
161620 2005 WV_{57}	16.0	X	88.96485	228.46132	160.25503	4.69023	0.1579341	0.20038411	2.8921925	21	—	—
161621 2005 WM_{92}	15.6	X	140.32282	178.67957	74.91827	2.34737	0.2160378	0.18379739	3.0636783	21	11 27.5	20.8
161622 2005 WM_{115}	16.3	X	109.89970	7.29434	93.79878	5.06592	0.0622332	0.21057166	2.7981400	21	4 12.5	20.2
161623 2005 WF_{158}	15.7	X	32.12782	5.30527	285.88972	11.76337	0.0621326	0.22823504	2.6518432	21	8 30.5	19.3
161624 2005 WB_{202}	16.3	X	247.25497	138.23481	39.88002	1.81901	0.1612693	0.18358128	3.0660822	21	12 7.6	20.7
161625 2005 YJ_{7}	15.8	X	241.84720	217.50469	191.90796	12.41269	0.2862821	0.22931055	2.6435449	21	6 15.5	20.5
161626 2005 YD_{8}	16.8	X	311.69197	140.89990	109.25583	4.80934	0.2389157	0.26562789	2.3967364	21	2 4.8	20.2
161627 2005 YH_{8}	17.1	X	93.82217	344.42587	275.42233	4.93226	0.1471547	0.29473791	2.2362073	21	11 1.9	20.4
161628 2005 YW_{29}	15.7	X	75.12630	28.44896	53.69220	2.80780	0.0479738	0.19912969	2.9043260	21	1 31.2	19.5
161629 2005 YL_{47}	16.4	X	111.87557	49.48756	141.95773	5.70307	0.1267596	0.28128210	2.3069666	21	8 20.5	19.5
161630 2005 YP_{93}	16.9	X	349.73975	49.84919	300.71566	17.74717	0.0623999	0.35954332	1.9587029	21	9 28.7	19.2
161631 2005 YS_{130}	16.7	X	105.82667	287.57078	308.80611	7.85798	0.1411479	0.29295569	2.2452675	21	10 11.3	20.1
161632 2005 YB_{244}	17.3	X	251.91979	217.70355	61.17974	2.98358	0.1585856	0.26413480	2.4057600	21	1 20.5	21.0
161633 2005 YL_{247}	16.6	X	125.03828	319.78869	67.07393	2.85598	0.1205510	0.26246625	2.4159451	21	1 23.8	19.6
161634 2005 YN_{277}	16.6	X	269.89660	69.04993	281.01125	2.17814	0.2701038	0.28861522	2.2677225	21	4 23.6	20.1
161635 2005 YU_{290}	15.8	X	84.23233	165.61529	161.72258	1.60336	0.1798945	0.17958699	3.1113782	21	—	—
161636 2006 AR_{50}	16.9	X	115.68699	332.81553	278.48581	3.68780	0.1642827	0.29794855	2.2201136	21	11 15.1	20.2
161637 2006 AM_{58}	15.0	X	1.69810	143.18931	79.90204	17.95563	0.0587860	0.19800146	2.9153483	21	4 26.1	19.0
161638 2006 AA_{68}	15.8	X	197.00752	168.98083	129.51400	3.83099	0.1948420	0.19089662	2.9872430	21	1 6.9	20.7
161639 2006 AS_{78}	16.2	X	339.10407	236.48485	63.26427	1.87058	0.1074550	0.21844609	2.7304855	21	6 21.8	19.3
161640 2006 BJ_{5}	17.0	X	114.79862	139.87754	115.92711	5.17493	0.1750448	0.29820126	2.2188591	21	11 22.5	20.4
161641 2006 BE_{11}	16.4	X	353.67063	165.69213	87.57312	3.44022	0.1885978	0.27111983	2.3642598	21	4 28.7	18.1
161642 2006 BZ_{21}	16.9	X	350.91454	143.41522	119.12007	1.15223	0.1965707	0.27378086	2.3489151	21	5 5.4	18.8
161643 2006 BS_{25}	16.7	X	151.43045	252.90655	316.15989	5.85505	0.0953990	0.29255299	2.2473275	21	10 23.5	19.9
161644 2006 BC_{30}	16.3	X	314.81501	148.37001	111.22305	3.23285	0.1846960	0.26636543	2.3923101	21	3 1.3	19.2
161645 2006 BO_{40}	16.6	X	126.43060	293.43375	333.58475	5.84762	0.0808208	0.29682951	2.2256900	21	12 14.3	19.7
161646 2006 BL_{56}	13.7	X	6.05446	222.33517	20.67672	0.55809	0.0522732	0.08097623	5.2913241	21	5 27.6	20.3
161647 2006 BO_{69}	15.8	X	118.15566	203.81611	102.23965	7.35187	0.1313721	0.24224390	2.5485950	21	—	—
161648 2006 BH_{87}	16.5	X	44.47889	153.61074	128.83865	22.78355	0.1358941	0.28729749	2.2746513	21	10 10.4	19.6
161649 2006 BR_{95}	16.4	X	116.75061	48.27216	158.64894	4.71527	0.0750492	0.28479821	2.2879396	21	9 12.0	19.5
161650 2006 BM_{97}	15.9	X	235.64818	241.09046	352.03118	9.58851	0.0295715	0.24357464	2.5393039	21	—	—
161651 2006 BJ_{175}	15.4	X	357.69467	44.33092	104.49906	8.87023	0.0534344	0.19287566	2.9667738	21	1 8.9	19.2
161652 2006 BC_{181}	16.7	X	18.59598	177.39870	132.09724	8.44884	0.2537390	0.28710461	2.2756699	21	10 23.0	18.9
161653 2006 BB_{206}	16.2	X	118.09038	60.56771	227.10419	1.62806	0.2770372	0.23740471	2.5831115	21	12 27.5	20.8
161654 2006 BE_{211}	16.4	X	272.68838	170.38559	137.68885	9.51152	0.1958167	0.26506863	2.4001064	21	3 16.4	20.1
161655 2006 BZ_{234}	15.6	X	142.76321	279.92863	50.69401	1.48017	0.1768116	0.18935421	3.0034431	21	—	—
161656 2006 BG_{251}	16.9	X	275.17465	23.44964	237.90608	0.45181	0.1522717	0.25813787	2.4428768	21	1 21.8	20.5
161657 2006 BM_{268}	15.6	X	181.92822	208.29576	47.40441	10.70000	0.2362996	0.24124591	2.5556188	21	—	—
161658 2006 BS_{269}	16.2	X	319.57209	359.34792	57.90654	3.76938	0.2618720	0.23758709	2.5817895	21	10 28.6	17.9
161659 2006 CB_{23}	15.6	X	86.88978	351.73043	44.07138	9.80728	0.2101961	0.24256376	2.5463540	21	—	—
161660 2006 CW_{34}	16.7	X	51.04533	135.59359	151.95212	7.64435	0.1538373	0.29036925	2.2585808	21	10 24.1	19.4
161661 2006 CN_{59}	16.6	X	332.34064	58.34020	217.57861	0.75846	0.1695156	0.26935444	2.3745790	21	4 22.0	18.9
161662 2006 CV_{59}	16.2	X	109.22573	316.52026	335.68816	5.98449	0.1248059	0.29745452	2.2225711	21	12 30.6	19.5
161663 2006 DM_{3}	16.8	X	331.99336	80.39488	154.21899	3.24781	0.1248915	0.26369495	2.4084345	21	2 28.6	19.4
161664 2006 DM_{16}	12.6	X	284.49975	186.68520	134.28384	13.40257	0.0439695	0.08090398	5.2944736	21	5 21.2	19.7
161665 2006 DS_{48}	16.5	X	27.00784	237.85732	16.14915	6.72048	0.0846158	0.27632483	2.3344761	21	7 11.2	19.0
161666 2006 DN_{59}	16.4	X	265.88716	322.69014	348.52747	4.71591	0.1435210	0.26213807	2.4179611	21	3 15.9	20.0
161667 2006 DD_{71}	16.7	X	284.79570	320.20133	1.80197	2.13665	0.2162398	0.26920316	2.3754685	21	4 10.4	20.0
161668 2006 DS_{79}	16.5	X	303.55331	47.20513	216.86638	0.89918	0.1610891	0.26108484	2.4244596	21	2 23.6	19.8
161669 2006 DL_{83}	16.2	X	227.66643	102.27047	209.40252	1.92631	0.1877515	0.25610765	2.4557700	21	2 6.7	20.1
161670 2006 DP_{88}	16.4	X	226.35598	161.63969	169.51863	1.04616	0.1960007	0.25966140	2.4333120	21	3 1.2	20.3
161671 2006 DT_{90}	16.3	X	319.06494	349.10557	5.19544	6.67102	0.1387075	0.28114203	2.3077328	21	8 7.5	18.4
161672 2006 DB_{107}	16.6	X	349.08627	149.62055	189.43757	6.47954	0.1612232	0.28360133	2.2943722	21	9 14.2	18.2
161673 2006 DH_{211}	16.5	X	128.97574	155.46071	178.44749	1.49942	0.1780183	0.24197527	2.5504808	21	—	—
161674 2006 EM_{53}	16.1	X	279.82018	324.21459	334.71202	6.31734	0.1972259	0.26272197	2.4143772	21	3 8.6	19.5
161675 2006 FU_{1}	16.3	X	117.47039	108.79418	60.43079	4.98622	0.0569941	0.27701137	2.3306174	21	7 19.5	19.3
161676 2006 FQ_{4}	15.4	X	244.48191	234.32853	19.20611	11.11127	0.0841979	0.18173878	3.0867703	21	1 1.1	20.3
161677 2006 FM_{13}	16.3	X	70.85447	184.97237	177.15433	6.32594	0.1715964	0.29949305	2.2124742	21	—	—
161678 2006 FK_{17}	14.9	X	218.37154	289.55224	18.08597	16.42703	0.1222029	0.18535790	3.0464588	21	2 11.9	20.0
161679 2006 FY_{46}	15.1	X	339.88811	200.94438	59.40654	13.21303	0.1358782	0.20097716	2.8865001	21	4 29.6	18.5
161680 2006 GD_{15}	15.2	X	146.05042	255.58162	54.99285	6.03970	0.1644273	0.17100330	3.2146452	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161681 2006 GK_{24}	16.1	X	253.15412	290.22294	57.36160	1.96011	0.2020087	0.26212805	2.4180228	21	4 14.3	19.9
161682 2006 GP_{33}	16.3	X	243.03787	199.06751	133.84210	0.52950	0.2281525	0.26005041	2.4308846	21	3 16.1	20.4
161683 2006 GY_{42}	15.6	X	69.12937	165.29638	84.76280	14.96291	0.1054540	0.21168001	2.7883641	21	9 15.9	19.7
161684 2006 GD_{50}	15.2	X	144.03558	253.84660	324.07579	12.71566	0.1702964	0.22296575	2.6934605	21	10 16.9	19.9
161685 2006 GD_{52}	15.7	X	58.61365	96.43168	158.84365	13.98365	0.1603015	0.21028920	2.8006451	21	9 9.5	19.3
161686 2006 HX_{16}	14.9	X	219.37061	240.94210	52.16008	17.95113	0.0863271	0.18138981	3.0907280	21	1 25.1	20.0
161687 2006 HC_{17}	15.3	X	178.22130	90.72361	173.79867	15.81168	0.1879790	0.23038417	2.6353257	21	—	—
161688 2006 HX_{24}	14.9	X	235.14295	68.92189	204.95456	9.40118	0.0663483	0.17918159	3.1160694	21	1 13.9	19.8
161689 2006 HD_{30}	15.4	X	68.34771	290.01784	41.69990	12.99695	0.2828039	0.22317536	2.6917737	21	—	—
161690 2006 HF_{32}	16.0	X	168.23004	225.02175	163.26690	8.69241	0.2685066	0.25593611	2.4568672	21	3 27.5	20.2
161691 2006 HX_{41}	15.3	X	31.35471	170.87383	77.81600	16.20001	0.0933958	0.20361963	2.8614728	21	7 9.7	18.9
161692 2006 HS_{44}	15.3	X	211.33435	242.79433	68.64730	4.11507	0.1258760	0.17972896	3.1097395	21	2 4.9	20.4
161693 Attilladanko	15.1	X	61.50053	206.06130	101.01483	10.79948	0.2630054	0.21679076	2.7443671	21	12 3.0	19.3
161694 2006 HV_{52}	16.3	X	354.20223	339.73111	269.97279	5.13232	0.0705397	0.26734226	2.3864792	21	5 3.2	19.0
161695 2006 HL_{81}	15.0	X	222.73252	252.43496	36.65435	11.77155	0.0605567	0.18032358	3.1028994	21	1 23.9	19.9
161696 2006 HR_{83}	15.8	X	355.07994	180.69401	166.66786	4.75907	0.0817657	0.21328969	2.7743174	21	9 26.2	19.0
161697 2006 HZ_{104}	15.1	X	106.39208	149.96808	75.30327	13.57319	0.1110006	0.21370542	2.7707182	21	9 29.1	19.5
161698 2006 HL_{120}	15.9	X	196.48167	189.91968	146.27565	0.46953	0.1789201	0.18074468	3.0980782	21	2 19.2	21.0
161699 Lisahardaway	15.4	X	153.95372	294.90391	30.55151	0.67210	0.1462962	0.17027806	3.2237666	21	1 1.3	20.4
161700 2006 JK_{32}	15.4	X	232.31721	169.86236	103.96569	11.89872	0.1832530	0.17718040	3.1394887	21	1 8.9	20.5
161701 2006 JW_{41}	12.6	X	30.54855	195.93404	179.71974	14.90759	0.0575042	0.08160478	5.2641183	21	11 26.8	19.5
161702 2006 JZ_{46}	14.8	X	230.85312	184.85342	93.11437	10.44786	0.0629538	0.17985859	3.1082452	21	1 16.7	19.4
161703 2006 JH_{52}	15.3	X	260.48938	250.03012	21.21665	6.15116	0.0710565	0.18549836	3.0449208	21	2 9.3	19.8
161704 2006 JL_{55}	15.8	X	265.09849	289.71752	283.36338	7.82669	0.1607611	0.24425911	2.5345578	21	—	—
161705 2006 KJ	15.3	X	265.06336	349.53158	296.32940	3.62255	0.0506315	0.18729736	3.0253917	21	3 2.1	19.7
161706 2006 KG_{2}	16.5	X	123.52770	358.26118	275.13284	6.10150	0.1102449	0.28826624	2.2695523	21	12 18.6	19.8
161707 2006 KY_{2}	15.6	X	74.53372	183.97501	114.66185	3.14414	0.0554298	0.21863930	2.7288766	21	11 10.8	19.4
161708 2006 KX_{37}	14.9	X	138.09337	140.85018	169.86047	23.13568	0.1688043	0.17869601	3.1217118	21	—	—
161709 2006 KJ_{48}	16.2	X	212.80622	208.26409	111.92208	4.47564	0.1626961	0.24577293	2.5241395	21	2 7.0	20.2
161710 2006 KV_{75}	16.7	X	150.89939	339.85618	256.04903	5.79756	0.0134937	0.28797934	2.2710594	21	12 1.8	19.6
161711 2006 KU_{88}	14.9	X	205.78049	268.75646	91.51704	16.17063	0.1069320	0.19110366	2.9850851	21	4 3.9	19.9
161712 2006 KF_{91}	16.0	X	17.49859	176.81327	178.81069	6.32838	0.0455542	0.21819138	2.7326100	21	11 8.2	19.5
161713 2006 KJ_{109}	16.1	X	334.02906	329.83827	30.35685	4.51397	0.2122171	0.21193254	2.7861487	21	9 3.9	18.6
161714 2006 MH	14.7	X	121.08645	206.76100	138.23469	18.49095	0.1233649	0.16995334	3.2278716	21	—	—
161715 Wenchuan	16.1	X	225.67434	3.92025	301.58819	3.56459	0.1567436	0.24141072	2.5544555	21	1 31.4	20.2
161716 2006 OS_{15}	16.3	X	191.02866	237.84630	353.35417	18.64607	0.0644306	0.35337718	1.9814223	21	—	—
161717 2006 PL_{23}	12.4	X	289.45573	155.18593	318.08940	16.85818	0.0328799	0.08131563	5.2765900	21	11 6.7	19.5
161718 2006 QP_{28}	15.9	X	292.97957	148.68794	162.28516	2.31790	0.1469586	0.18350753	3.0669035	21	4 24.9	20.2
161719 2006 QM_{123}	15.4	X	149.76152	67.47129	275.98425	5.49807	0.3576497	0.22314281	2.6920355	21	1 27.0	20.0
161720 2006 QK_{126}	15.8	X	74.51905	226.92226	112.45377	5.51124	0.0718293	0.21254236	2.7808169	21	12 31.0	19.8
161721 2006 RF_{11}	16.0	X	171.14571	121.05812	180.64889	12.08622	0.1788400	0.22447963	2.6813371	21	—	—
161722 2006 RH_{20}	15.6	X	75.21897	210.79488	190.70125	15.91861	0.1618877	0.22050289	2.7134794	21	—	—
161723 2006 RT_{21}	15.2	X	214.62833	201.82818	194.31968	5.05692	0.1455028	0.17679915	3.1440005	21	5 17.6	20.2
161724 2006 RB_{48}	16.3	X	140.85780	222.47935	173.47568	2.72854	0.1167460	0.22964383	2.6409866	21	2 27.7	20.0
161725 2006 RK_{48}	16.8	X	299.95849	168.50976	211.99269	5.90653	0.1121720	0.25651874	2.4531456	21	8 9.7	19.7
161726 2006 RB_{102}	16.0	X	21.10725	232.77843	202.13058	1.36483	0.0547404	0.21732810	2.7398416	21	—	—
161727 2006 SW_{7}	16.6	X	102.62817	317.65369	55.91214	5.80121	0.2101364	0.28639255	2.2794404	21	—	—
161728 2006 SQ_{20}	14.6	X	293.69132	178.37253	195.33408	15.86716	0.3214895	0.18467593	3.0539542	21	6 17.9	19.1
161729 2006 SZ_{23}	15.1	X	285.68496	207.83919	144.19584	12.17448	0.0704887	0.18091315	3.0961545	21	6 18.9	19.5
161730 2006 SE_{27}	16.6	X	206.87766	302.13896	285.89397	5.52351	0.0893679	0.28006910	2.3136230	21	—	—
161731 2006 SG_{36}	15.1	X	11.84122	259.37870	40.22568	11.30097	0.0814781	0.19241702	2.9714863	21	8 21.9	19.0
161732 2006 SV_{42}	16.7	X	11.43810	298.97091	109.44426	6.24183	0.2151628	0.27094850	2.3652564	21	—	—
161733 2006 ST_{44}	14.8	X	277.22527	272.10290	26.67909	25.59029	0.2549617	0.17801658	3.1296499	21	3 21.1	20.0
161734 2006 SP_{83}	17.3	X	219.09948	117.45819	77.97553	2.76743	0.1622582	0.27504347	2.3417210	21	12 13.2	20.2
161735 2006 SC_{87}	16.9	X	281.47317	314.30697	196.24432	6.21807	0.0572941	0.27638804	2.3341202	21	—	—
161736 2006 SA_{121}	16.8	X	139.32540	233.70823	61.59320	6.80850	0.1129353	0.28000149	2.3139954	21	—	—
161737 2006 SR_{121}	15.7	X	243.13474	251.29756	147.28882	10.67990	0.2415958	0.17789351	3.1310931	21	6 9.3	21.0
161738 2006 SD_{126}	15.5	X	231.64881	57.63823	325.03546	7.99411	0.2090611	0.24203438	2.5500655	21	5 6.0	19.8
161739 2006 SL_{126}	16.5	X	152.73215	236.37564	56.26545	4.48470	0.1397046	0.28311359	2.2970066	21	—	—
161740 2006 SE_{154}	15.1	X	350.53341	150.70944	140.63474	10.80509	0.0145940	0.18341805	3.0679010	21	7 3.2	19.5
161741 2006 SU_{207}	15.3	X	334.61846	304.71912	15.74974	10.82870	0.0865024	0.18504023	3.0499446	21	7 18.1	19.3
161742 2006 SV_{238}	17.0	X	330.84556	4.71570	161.79888	2.90993	0.0929373	0.29000624	2.2604652	21	—	—
161743 2006 SR_{253}	16.6	X	85.32522	93.23332	30.12842	2.53039	0.0773107	0.23581671	2.5946951	21	4 5.9	19.9
161744 2006 SK_{259}	17.4	X	27.15181	312.08453	328.47951	0.76682	0.1774215	0.25774361	2.4453673	21	9 1.3	19.8
161745 2006 SV_{262}	17.5	X	298.16558	205.50249	74.15477	1.52994	0.1119171	0.30450324	2.1881383	21	3 11.6	20.0
161746 2006 SF_{267}	15.6	X	24.19492	334.95492	226.77356	12.00406	0.2085362	0.23674238	2.5879271	21	4 21.2	17.7
161747 2006 SY_{272}	16.8	X	80.56586	149.25394	169.16095	2.15638	0.2242254	0.27395489	2.3479202	21	—	—
161748 2006 SR_{274}	14.8	X	141.78552	280.42888	238.36440	10.88642	0.0256951	0.17792141	3.1307657	21	7 26.3	19.5
161749 2006 ST_{274}	16.5	X	75.95936	191.65906	236.17202	2.47233	0.0653552	0.21698946	2.7426915	21	1 10.6	19.9
161750 2006 SQ_{285}	16.1	X	314.82372	63.58128	205.86132	1.75420	0.1737150	0.23909153	2.5709478	21	3 18.9	19.2
161751 2006 SU_{287}	15.6	X	333.16798	316.51633	70.27857	11.99794	0.2424040	0.26277985	2.4140226	21	10 30.1	17.2
161752 2006 SX_{289}	16.6	X	17.02266	359.01822	98.52681	24.66092	0.0582962	0.35160288	1.9880827	21	—	—
161753 2006 SW_{327}	15.4	X	289.08843	274.92155	61.93481	4.19758	0.1446237	0.18070294	3.0985552	21	5 22.7	19.7
161754 2006 SJ_{354}	15.1	X	333.08070	85.19991	165.82092	7.89151	0.2616271	0.17782049	3.1319501	21	3 19.5	18.6
161755 2006 SQ_{354}	17.0	X	83.82162	211.33984	169.89665	2.56902	0.1837124	0.28235700	2.3011081	21	—	—
161756 2006 SB_{360}	15.8	X	344.54928	284.24039	38.46866	9.54254	0.0716244	0.18763173	3.0217963	21	8 7.8	19.8
161757 2006 TH	16.4	X	264.37243	257.39100	170.97417	6.28462	0.1228454	0.25624646	2.4548830	21	8 24.0	19.4
161758 2006 TL_{18}	16.5	X	154.27334	318.47092	160.11712	2.52898	0.1243556	0.24344675	2.5401931	21	6 28.8	20.3
161759 2006 TO_{20}	15.8	X	90.37620	243.14332	213.00641	21.31382	0.1126851	0.22705558	2.6610187	21	3 8.5	19.5
161760 2006 TU_{25}	17.2	X	158.74595	46.59018	218.69315	5.47907	0.2118252	0.27757664	2.3274522	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161761 2006 TK_{26}	15.7	X	323.67822	315.33360	20.15975	0.77613	0.1991335	0.18674639	3.0313395	21	7 4.6	19.2
161762 2006 TQ_{29}	15.2	X	318.26519	305.55953	37.48715	9.99312	0.1219780	0.18545228	3.0454252	21	7 18.1	19.1
161763 2006 TO_{30}	16.3	X	278.71070	314.38886	209.61866	10.71965	0.0950533	0.27585290	2.3371380	21	—	—
161764 2006 TV_{49}	15.2	X	175.15770	287.67083	191.51835	10.29857	0.0726287	0.18086623	3.0966899	21	7 18.1	20.0
161765 2006 TH_{55}	15.5	X	270.48608	359.91365	91.40085	9.54899	0.0955316	0.19289077	2.9666189	21	10 6.6	19.7
161766 2006 TC_{56}	15.4	X	262.12922	226.55409	79.24468	1.75451	0.1317513	0.17389829	3.1788682	21	3 17.9	20.1
161767 2006 TW_{62}	16.7	X	287.65117	354.36985	253.20725	4.61755	0.0912048	0.29845057	2.2176233	21	1 15.8	19.7
161768 2006 TA_{64}	14.9	X	357.33877	201.08077	121.77289	13.37637	0.0977676	0.18985119	2.9981993	21	8 27.2	18.6
161769 2006 TP_{67}	16.4	X	254.62640	205.38788	167.86256	2.68681	0.0926420	0.24598498	2.5226887	21	6 1.3	19.9
161770 2006 TK_{73}	16.1	X	252.13390	174.66027	143.18525	2.72051	0.1419472	0.23646176	2.5899742	21	3 14.3	20.1
161771 2006 TY_{86}	15.4	X	144.03969	283.56854	235.81259	8.14212	0.0490386	0.18086171	3.0967415	21	8 1.1	20.1
161772 2006 TG_{89}	16.6	X	43.71450	122.93039	237.42363	6.54007	0.1231294	0.27054009	2.3676361	21	—	—
161773 2006 TG_{90}	16.2	X	118.63200	107.89435	319.72364	2.17885	0.1033579	0.22675889	2.6633393	21	3 11.9	19.8
161774 2006 TU_{91}	14.7	X	175.50695	210.72800	235.62106	8.13158	0.0200942	0.17423311	3.1747942	21	6 8.6	19.2
161775 2006 TG_{108}	15.9	X	112.60385	282.88521	104.92774	22.75820	0.2811786	0.28642573	2.2792644	21	1 28.6	18.6
161776 2006 UJ_{7}	15.4	X	235.25840	242.40763	196.11229	8.97011	0.0254524	0.18388237	3.0627343	21	8 8.1	19.9
161777 2006 UE_{11}	17.1	X	177.48197	14.89778	183.46157	3.05982	0.0724528	0.26453983	2.4033038	21	11 8.4	20.4
161778 2006 US_{27}	15.2	X	15.60362	180.09749	29.08455	3.91822	0.1133421	0.16951972	3.2333737	21	4 23.5	19.2
161779 2006 UN_{50}	15.6	X	63.53933	329.80038	257.36527	6.24290	0.0594359	0.18288648	3.0738428	21	7 22.1	19.9
161780 2006 UQ_{70}	16.3	X	279.75839	261.06569	97.38241	9.72399	0.1151191	0.24760550	2.5116697	21	6 10.4	19.6
161781 2006 UX_{108}	14.9	X	111.02704	153.70227	60.64894	17.01310	0.1074967	0.18498485	3.0505532	21	9 19.9	19.8
161782 2006 UJ_{112}	15.3	X	230.62281	132.94661	207.17500	7.61047	0.0236086	0.17291206	3.1909441	21	4 2.2	19.9
161783 2006 UB_{132}	15.5	X	205.31330	301.82313	0.84829	12.11526	0.2168668	0.22700126	2.6614432	21	1 16.9	20.2
161784 2006 UZ_{138}	15.7	X	198.14914	280.48580	27.71114	12.90569	0.2739180	0.22551963	2.6730873	21	1 19.6	20.7
161785 2006 UR_{179}	15.4	X	209.60253	348.21305	89.37779	7.80283	0.0299891	0.17968192	3.1102823	21	7 8.5	19.8
161786 2006 UK_{189}	14.8	X	151.63482	121.61862	318.56517	11.93921	0.0230401	0.17146782	3.2088369	21	4 27.9	19.6
161787 2006 UA_{192}	15.8	X	284.16116	312.90377	250.93390	8.53057	0.0137977	0.21852086	2.7298625	21	—	—
161788 2006 UR_{208}	14.9	X	217.08113	183.12158	218.26654	20.25410	0.0138512	0.17475556	3.1684635	21	6 2.4	19.6
161789 2006 UW_{255}	16.0	X	261.47027	149.33494	226.76465	2.05915	0.3480888	0.18002715	3.1063046	21	5 17.9	21.1
161790 2006 UK_{261}	16.0	X	344.83522	88.38101	189.86825	0.68287	0.1396393	0.17842717	3.1248467	21	5 31.7	19.6
161791 2006 UM_{261}	15.3	X	316.29394	264.61916	129.22861	9.91357	0.2437552	0.19045244	2.9918858	21	9 8.0	18.4
161792 2006 UO_{274}	17.5	X	125.62689	224.41374	60.72932	2.63349	0.0978098	0.27507842	2.3415227	21	—	—
161793 2006 UT_{286}	15.8	X	116.59456	234.75320	272.15248	13.40384	0.0401065	0.23210627	2.6222744	21	6 14.1	19.4
161794 2006 UE_{287}	15.5	X	103.18727	215.59357	300.40976	12.58387	0.1964154	0.22637440	2.6663542	21	7 1.6	19.5
161795 2006 VJ_{29}	17.2	X	182.04879	34.41923	289.57203	2.57975	0.1889551	0.28892167	2.2661186	21	1 9.4	20.5
161796 2006 VT_{34}	17.3	X	25.59269	177.55340	230.52642	1.99705	0.2090342	0.27296182	2.3536115	21	—	—
161797 2006 VL_{45}	15.5	X	164.52731	193.35442	232.89191	13.88033	0.0945394	0.23329087	2.6133900	21	4 30.2	19.4
161798 2006 VN_{48}	16.1	X	51.52749	276.67709	150.41465	11.73649	0.2492417	0.21393087	2.7687712	21	—	—
161799 2006 VT_{51}	16.7	X	10.56254	135.06901	44.43853	1.75299	0.0076687	0.22426776	2.6830257	21	3 3.4	20.2
161800 2006 VJ_{63}	15.8	X	354.91877	293.30463	58.96310	2.80319	0.0891715	0.18900654	3.0071250	21	9 30.2	19.5
161801 2006 VS_{64}	15.8	X	296.36904	266.98312	77.31352	3.21555	0.1538695	0.17866988	3.1220162	21	6 9.7	19.9
161802 2006 VN_{75}	16.8	X	337.24042	293.78834	262.53432	5.94442	0.1179467	0.28554095	2.2839703	21	1 9.6	19.4
161803 2006 VL_{85}	15.2	X	272.34972	147.64360	267.79075	15.51588	0.2903042	0.18329212	3.0693060	21	7 18.2	19.9
161804 2006 VO_{87}	16.5	X	288.64233	311.40130	303.86559	4.33727	0.1494936	0.29475136	2.2361392	21	1 22.3	19.6
161805 2006 VQ_{89}	16.6	X	123.48965	250.40980	33.68886	3.59530	0.1249855	0.26807351	2.3821372	21	12 28.9	20.2
161806 2006 VZ_{92}	16.6	X	135.42915	218.98504	88.30188	8.08241	0.2384588	0.27921935	2.3183147	21	—	—
161807 2006 VS_{96}	17.0	X	304.60502	305.20755	136.90643	1.71828	0.1593473	0.26048104	2.4282047	21	11 17.1	19.1
161808 2006 VT_{119}	16.5	X	149.23456	183.11300	141.28035	0.68515	0.0708053	0.21331000	2.7741413	21	—	—
161809 2006 VM_{144}	15.8	X	245.04375	160.40950	3.94007	1.77717	0.0110659	0.20277286	2.8694335	21	12 12.7	19.6
161810 2006 VO_{147}	16.8	X	62.69277	83.85102	267.65485	1.58086	0.2447595	0.27188865	2.3598007	21	—	—
161811 2006 VL_{168}	15.7	X	252.05130	354.88596	90.24179	18.94901	0.1685811	0.17995406	3.1071456	21	8 26.7	20.6
161812 2006 WV_{24}	16.6	X	227.56908	326.95376	211.75882	5.78489	0.0519550	0.26441048	2.4040875	21	12 15.8	19.6
161813 2006 WW_{26}	16.3	X	81.81013	209.99388	78.29872	4.00640	0.1661535	0.26292489	2.4131348	21	11 25.3	19.7
161814 2006 WS_{27}	16.0	X	61.87987	72.03209	302.18167	0.96465	0.0302454	0.20478931	2.8505667	21	—	—
161815 2006 WK_{30}	16.8	X	64.83306	50.63912	337.96000	5.43916	0.2519769	0.27761956	2.3272124	21	—	—
161816 2006 WB_{45}	16.6	X	107.95867	126.63913	292.81800	3.01562	0.1990169	0.22145170	2.7057233	21	3 2.3	20.3
161817 2006 WL_{66}	15.2	X	301.18340	108.69274	221.63813	8.75872	0.2244455	0.17802040	3.1296050	21	5 18.8	19.3
161818 2006 WB_{86}	16.9	X	81.02010	239.04803	121.31311	4.25663	0.2320076	0.27707960	2.3302348	21	—	—
161819 2006 WS_{86}	16.2	X	249.52646	93.16209	257.83532	4.39215	0.1604514	0.30474639	2.1869742	21	4 12.7	19.4
161820 2006 WG_{89}	15.3	X	157.27461	295.26148	87.30147	15.52599	0.2832729	0.22435651	2.6823180	21	3 22.4	20.2
161821 2006 WP_{101}	16.3	X	20.30540	226.78775	93.10861	7.64112	0.0721210	0.25798808	2.4438223	21	10 7.4	19.2
161822 2006 WO_{103}	15.1	X	237.11996	238.04126	70.52327	14.46198	0.2503765	0.22902749	2.6457226	21	2 18.2	20.0
161823 2006 WG_{104}	16.2	X	152.20050	243.49176	73.72380	6.40622	0.0242622	0.21006271	2.8026578	21	—	—
161824 2006 WN_{131}	14.9	X	156.09593	197.57381	42.80637	14.63533	0.1132082	0.19673929	2.9278039	21	11 24.4	19.5
161825 2006 WE_{135}	16.4	X	130.29178	316.20161	131.30675	1.94110	0.1028872	0.23031037	2.6358886	21	4 21.9	20.1
161826 2006 WX_{148}	16.5	X	61.04394	65.81361	342.92553	2.18258	0.0653380	0.20978251	2.8051529	21	—	—
161827 2006 WX_{151}	15.8	X	101.57793	92.15497	270.53838	5.03820	0.0517902	0.20967248	2.8061341	21	—	—
161828 2006 WF_{178}	16.1	X	186.11819	266.68782	123.87568	6.92216	0.0561599	0.22235126	2.6984207	21	4 11.9	20.1
161829 2006 XQ_{8}	15.2	X	48.70517	231.60830	93.18447	11.09274	0.0372478	0.19149185	2.9810495	21	11 7.3	19.4
161830 2006 XZ_{25}	15.4	X	290.28654	136.23814	213.24269	4.42245	0.1540295	0.17732358	3.1377985	21	6 8.5	19.7
161831 2006 XZ_{32}	15.5	X	259.96528	115.13304	294.79855	15.28014	0.2447341	0.17748826	3.1358573	21	7 7.8	20.3
161832 2006 XV_{36}	16.2	X	317.10792	91.75424	324.09281	1.43090	0.0997377	0.18777470	3.0202623	21	10 21.3	20.0
161833 2006 XC_{49}	15.6	X	312.77366	117.79696	281.12674	7.36337	0.1338577	0.18350336	3.0669501	21	9 14.7	19.4
161834 2006 XU_{50}	16.2	X	291.32409	2.61207	119.75837	3.56883	0.0487465	0.19266740	2.9689113	21	12 13.5	20.0
161835 2006 XY_{50}	16.6	X	145.42049	263.20690	113.29346	6.70112	0.1121159	0.28339423	2.2954899	21	1 30.4	19.4
161836 2006 XX_{57}	15.3	X	251.99383	319.97130	89.26695	11.58345	0.2256527	0.17670024	3.1451736	21	6 30.3	20.2
161837 2006 XZ_{63}	15.1	X	66.14057	172.93730	176.22519	12.95455	0.1188095	0.20279857	2.8691910	21	—	—
161838 2006 XO_{66}	15.0	X	273.58868	282.65555	115.85082	18.52240	0.2053865	0.17639416	3.1488109	21	7 12.6	19.6
161839 2006 YB_{7}	15.7	X	162.59561	277.34749	199.45752	11.95272	0.0986641	0.23969897	2.5666024	21	7 2.8	19.8
161840 2006 YC_{16}	15.6	X	329.51423	127.60240	83.79905	10.87016	0.0649628	0.21760243	2.7375384	21	2 15.6	19.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161841 2006 YN_{18}	15.3	X	333.94924	285.45936	110.85290	11.36506	0.1191601	0.19202320	2.9755477	21	10 29.2	19.0
161842 2007 AV_{7}	14.7	X	251.82179	16.98747	127.05466	18.06127	0.1402266	0.18543231	3.0456438	21	11 11.9	19.4
161843 2007 AZ_{7}	15.6	X	270.14392	285.19200	136.72463	9.59071	0.2811552	0.18090912	3.0962005	21	7 27.6	20.1
161844 2007 AZ_{9}	15.1	X	302.69971	310.80365	109.18521	15.06350	0.0571308	0.18435537	3.0574934	21	10 17.1	19.5
161845 2007 AK_{18}	15.7	X	140.30480	259.62982	258.51060	12.41983	0.0739301	0.23618962	2.5919633	21	7 28.5	19.6
161846 2007 AG_{21}	16.9	X	35.77305	298.30615	129.93443	1.90974	0.1474333	0.26905964	2.3763132	21	—	—
161847 2007 AP_{24}	16.2	X	218.18522	244.51088	104.45767	6.92461	0.0474923	0.22281873	2.6946452	21	3 27.1	20.1
161848 2007 AZ_{25}	16.2	X	58.44370	298.69064	164.20443	9.34486	0.1979896	0.21334847	2.7738077	21	2 12.3	19.1
161849 2007 AL_{27}	15.8	X	223.09024	63.04155	76.32369	15.27510	0.2096290	0.17900632	3.1181031	21	9 30.6	21.1
161850 2007 BY_{7}	15.4	X	54.94381	153.02439	335.88774	12.78643	0.1503511	0.21493363	2.7601528	21	3 7.4	18.3
161851 2007 BQ_{8}	16.9	X	57.72815	167.25351	355.10036	5.65419	0.0885463	0.28830321	2.2693583	21	4 10.3	19.1
161852 2007 BP_{18}	16.2	X	186.06374	174.69547	315.38527	13.71606	0.0849263	0.23856534	2.5747268	21	8 15.7	19.9
161853 2007 BR_{19}	15.5	X	50.53756	110.92728	339.19905	16.87385	0.2044258	0.21140071	2.7908195	21	1 16.5	18.5
161854 2007 BQ_{29}	15.8	X	65.23332	6.15801	129.16496	13.76182	0.1117359	0.21725273	2.7404753	21	4 5.2	19.3
161855 2007 BH_{30}	16.4	X	80.80182	176.92463	318.89734	4.11265	0.1079679	0.22076452	2.7113351	21	4 20.3	19.9
161856 2007 BL_{40}	16.1	X	126.35231	45.91112	200.61247	0.17586	0.1418377	0.18098428	3.0953433	21	11 4.9	20.9
161857 2007 BU_{40}	15.8	X	110.49942	219.53593	128.06589	15.44741	0.1823323	0.20187880	2.8778992	21	—	—
161858 2007 BD_{42}	15.1	X	132.70313	275.88640	311.08665	7.60683	0.1947450	0.17583671	3.1554625	21	10 17.3	20.5
161859 2007 BN_{42}	16.6	X	212.73408	17.37742	175.22618	2.68145	0.1393002	0.25443170	2.4665423	21	12 2.0	20.0
161860 2007 BP_{43}	15.3	X	270.47175	282.13538	132.34784	13.65403	0.2887059	0.17714315	3.1399288	21	7 17.7	20.0
161861 2007 BX_{44}	17.1	X	354.60882	288.90534	224.13916	2.19401	0.0929499	0.27570067	2.3379982	21	—	—
161862 2007 BJ_{49}	16.1	X	89.19362	72.20649	321.67071	13.92603	0.1546886	0.20419294	2.8561142	21	1 3.7	19.8
161863 2007 BP_{50}	15.3	X	70.21585	167.92891	9.55387	15.91067	0.1838996	0.22262032	2.6962460	21	6 13.0	19.0
161864 2007 BE_{53}	16.1	X	121.55307	310.46665	112.22741	6.21989	0.0538320	0.21642509	2.7474575	21	3 6.9	19.9
161865 2007 BX_{59}	15.7	X	153.04804	212.63251	282.67187	13.59573	0.1167422	0.23347652	2.6120044	21	7 17.9	19.6
161866 2007 BF_{70}	15.3	X	169.07346	150.06751	10.62292	15.95583	0.1137757	0.23237895	2.6202226	21	9 11.3	19.4
161867 2007 CD	15.9	X	191.48254	48.42367	9.99202	12.78858	0.1719885	0.23448697	2.6044953	21	5 16.1	20.3
161868 2007 CQ	14.4	X	79.04462	336.76012	285.54599	12.10639	0.1510758	0.17445314	3.1721242	21	10 1.5	19.3
161869 2007 CW_{5}	15.1	X	223.93281	232.62947	275.05793	11.79596	0.1220491	0.18238385	3.0794876	21	10 5.9	20.0
161870 2007 CC_{7}	15.6	X	271.92760	304.60378	137.62580	11.28940	0.1157569	0.18207724	3.0829438	21	9 20.6	19.9
161871 2007 CE_{12}	17.0	X	329.80024	85.32499	98.02364	3.44487	0.1511735	0.27290737	2.3539246	21	—	—
161872 2007 CM_{13}	15.6	X	246.62552	142.63116	300.01759	4.40525	0.0267186	0.18220110	3.0815465	21	8 28.5	19.9
161873 2007 CG_{15}	15.2	X	188.25564	78.95301	75.98230	25.67054	0.2199982	0.17372037	3.1810382	21	9 25.4	21.1
161874 2007 CS_{22}	15.9	X	50.98642	354.87832	152.45776	11.87732	0.2339806	0.21623797	2.7490423	21	4 11.8	18.7
161875 2007 CK_{25}	16.2	X	196.14792	314.32877	314.30556	3.91490	0.1113185	0.26183293	2.4198394	21	—	—
161876 2007 CW_{28}	15.8	X	298.50355	256.29497	173.02044	9.06639	0.1225730	0.18403917	3.0609944	21	10 9.2	19.6
161877 2007 CR_{34}	15.5	X	355.25119	250.87704	112.71551	11.10210	0.0687452	0.18073962	3.0981359	21	10 17.7	19.7
161878 2007 CL_{36}	17.3	X	276.30294	245.94393	333.34905	2.05736	0.0703192	0.27179949	2.3603168	21	—	—
161879 2007 CT_{40}	17.5	X	94.29063	121.05528	142.84698	5.62701	0.0610915	0.31356221	2.1457884	21	11 6.2	20.1
161880 2007 CP_{44}	16.5	X	261.61210	252.00330	146.85448	13.06558	0.1672521	0.24058146	2.5603221	21	7 4.1	20.4
161881 2007 CS_{45}	15.9	X	37.24379	98.24911	146.37705	15.06346	0.1666776	0.22868974	2.6483269	21	7 23.1	18.9
161882 2007 CM_{46}	16.1	X	69.55150	144.00332	322.61875	7.55153	0.1374545	0.21394407	2.7686574	21	2 28.8	19.3
161883 2007 CU_{46}	16.9	X	75.14615	259.02768	223.41175	4.38116	0.1044888	0.28507218	2.2864734	21	3 13.5	19.3
161884 2007 CD_{54}	15.3	X	296.65579	19.20159	111.56686	9.85984	0.0400375	0.18978980	2.9988458	21	12 30.8	19.4
161885 2007 CF_{56}	16.6	X	359.26450	222.09177	206.11992	2.57367	0.1669863	0.26343210	2.4100363	21	—	—
161886 2007 CO_{58}	16.4	X	118.79929	126.86463	341.06132	13.81727	0.1521307	0.22505388	2.6767741	21	5 4.7	20.6
161887 2007 CG_{59}	15.9	X	106.21651	284.90191	167.95624	12.95795	0.1362731	0.21808368	2.7335096	21	4 6.9	19.7
161888 2007 CP_{62}	15.3	X	202.67484	122.26374	359.72054	22.12207	0.0511560	0.23464450	2.6033295	21	9 3.3	19.1
161889 2007 DP_{3}	16.3	X	259.31655	260.02806	298.37298	6.74552	0.0532737	0.26312474	2.4119128	21	—	—
161890 2007 DT_{3}	17.1	X	189.28548	248.07286	215.56233	3.31749	0.2080743	0.23538813	2.5978437	21	7 13.1	21.6
161891 2007 DW_{10}	15.2	X	356.37440	87.03934	351.08834	10.36322	0.1292678	0.19104159	2.9857317	21	—	—
161892 2007 DK_{19}	16.9	X	240.03372	283.69247	149.55022	3.49058	0.1389354	0.23825742	2.5769447	21	7 28.2	20.6
161893 2007 DJ_{23}	16.1	X	204.67830	59.20656	196.96136	1.22506	0.1922316	0.19037840	2.9926616	21	—	—
161894 2007 DZ_{29}	16.6	X	65.51041	240.54455	33.77104	2.70574	0.1450092	0.23633008	2.5909362	21	10 13.8	19.9
161895 2007 DV_{30}	15.7	X	192.02662	166.18009	86.22197	1.49465	0.0833137	0.18906506	3.0065045	21	—	—
161896 2007 DE_{34}	16.6	X	146.95502	84.25202	11.11007	1.69545	0.0357509	0.22103604	2.7091142	21	5 14.2	20.4
161897 2007 DQ_{41}	17.1	X	217.83301	279.72036	156.30780	4.95666	0.1035095	0.30181626	2.2011060	21	7 10.7	20.1
161898 2007 DS_{44}	16.6	X	275.13332	88.04214	143.36581	8.93723	0.0631964	0.27223365	2.3578066	21	—	—
161899 2007 DZ_{44}	17.4	X	112.05548	254.71718	152.41894	9.59516	0.1731961	0.28012709	2.3133036	21	2 5.3	19.9
161900 2007 DF_{47}	17.5	X	327.85294	197.59133	282.04095	0.57920	0.1359825	0.26349715	2.4096397	21	—	—
161901 2007 DD_{51}	15.8	X	225.16684	37.81113	189.20937	14.18227	0.1434679	0.25896879	2.4376486	21	—	—
161902 2007 DG_{52}	15.3	X	261.41908	148.01616	349.40195	10.65114	0.1395342	0.18218488	3.0817293	21	11 4.3	19.7
161903 2007 DK_{54}	16.5	X	213.40434	116.19969	148.38159	3.10073	0.1735192	0.26298231	2.4127835	21	—	—
161904 2007 DU_{54}	16.5	X	304.71380	116.57439	181.77844	3.50458	0.0947303	0.22071989	2.7117006	21	4 28.6	19.9
161905 2007 DN_{59}	17.2	X	67.89213	296.18118	187.16895	2.39069	0.1182134	0.28218159	2.3020615	21	3 5.9	19.5
161906 2007 DW_{59}	17.1	X	222.98931	105.13587	357.29653	4.84912	0.0927179	0.30785988	2.1722042	21	8 27.5	19.7
161907 2007 DL_{60}	17.0	X	280.09271	325.58291	294.02778	3.01919	0.1564002	0.27630385	2.3345943	21	1 21.2	20.4
161908 2007 DD_{79}	16.5	X	237.90652	196.41416	121.98333	3.37662	0.0798599	0.21260222	2.7802948	21	3 8.1	20.5
161909 2007 DO_{82}	16.1	X	215.86248	60.25736	81.91901	11.49175	0.0846992	0.24447387	2.5330733	21	10 12.6	19.9
161910 2007 DE_{86}	15.7	X	71.54913	7.40558	346.20345	11.47220	0.1783194	0.25471276	2.4647275	21	—	—
161911 2007 DV_{91}	15.2	X	117.21326	158.16100	122.21999	2.28771	0.1420277	0.18074813	3.0980387	21	12 5.9	20.1
161912 2007 DY_{97}	16.8	X	265.40384	352.33972	235.19895	1.53111	0.1482633	0.26426162	2.4049903	21	—	—
161913 2007 EA	17.5	X	0.24160	123.08103	146.83381	6.84286	0.1442770	0.29600438	2.2298242	21	6 13.1	19.3
161914 2007 EE_{9}	17.2	X	277.47435	147.03112	157.00482	2.28122	0.2186676	0.27861999	2.3216382	21	3 9.8	20.5
161915 2007 EY_{24}	15.7	X	205.28514	83.27462	167.13386	1.25434	0.0646747	0.18606837	3.0386990	21	—	—
161916 2007 EO_{34}	12.8	X	295.22012	198.74993	112.91926	5.32933	0.0649350	0.08111610	5.2852395	21	5 18.0	19.6
161917 2007 EK_{36}	15.9	X	132.74260	24.87535	130.15713	9.60555	0.2154508	0.22837814	2.6507353	21	7 30.1	20.2
161918 2007 EY_{37}	16.9	X	325.76235	66.79373	187.40009	6.59644	0.0776550	0.28169463	2.3047138	21	3 22.8	19.5
161919 2007 EH_{48}	15.8	X	348.68624	9.12653	143.86795	2.93335	0.0267350	0.19678209	2.9273794	21	1 3.8	19.8
161920 2007 EP_{51}	17.4	X	108.37324	110.54601	33.92076	1.87076	0.1156395	0.28846338	2.2685181	21	6 8.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
161921 2007 EX_{56}	16.3	X	283.62571	167.67364	98.14780	7.73517	0.1132536	0.27630281	2.3346002	21	2 8.3	19.5
161922 2007 EA_{57}	14.7	X	211.22982	76.19237	52.23577	15.06377	0.0770284	0.16968434	3.2312821	21	9 16.1	19.8
161923 2007 EP_{86}	17.4	X	210.84219	249.66045	24.46143	1.46626	0.1683991	0.26621081	2.3932364	21	—	—
161924 2007 EZ_{86}	15.4	X	249.23026	309.05892	206.72670	15.10711	0.2189187	0.18351768	3.0667905	21	11 6.6	19.9
161925 2007 EM_{101}	15.0	X	122.93000	223.56388	38.66123	9.99677	0.1264877	0.17380080	3.1800568	21	11 17.2	20.0
161926 2007 EX_{108}	16.9	X	99.56806	339.20065	148.54788	3.51681	0.1053193	0.28518780	2.2858554	21	5 2.9	19.6
161927 2007 EU_{119}	15.4	X	151.89958	120.41945	150.88005	3.91647	0.1454942	0.17695489	3.1421555	21	12 25.1	20.5
161928 2007 EB_{133}	16.4	X	165.21568	269.86992	168.89782	4.79576	0.0690705	0.22098061	2.7095673	21	5 18.6	20.3
161929 2007 ET_{133}	16.4	X	115.32710	155.86738	10.88338	2.73430	0.0369198	0.22644918	2.6657672	21	7 9.4	20.0
161930 2007 EG_{161}	14.8	X	195.53032	38.07811	200.82761	16.87113	0.1865253	0.17847146	3.1243298	21	12 22.9	20.1
161931 2007 EK_{171}	14.9	X	167.16082	121.64333	131.24048	17.20428	0.2026802	0.17819291	3.1275849	21	12 17.9	20.4
161932 2007 EU_{172}	16.5	X	38.14036	279.16057	15.76413	1.37867	0.0853048	0.23241274	2.6199686	21	9 23.8	19.5
161933 2007 EB_{181}	17.2	X	118.60427	257.92309	358.90659	5.55373	0.1708227	0.30738397	2.1744457	21	11 25.7	20.5
161934 2007 EJ_{185}	16.4	X	146.79930	335.26106	165.89587	13.91037	0.1884130	0.22784196	2.6548923	21	7 22.2	21.0
161935 2007 EN_{199}	17.2	X	170.99406	7.29835	271.15828	0.42039	0.1617346	0.25538510	2.4603998	21	—	—
161936 2007 FX_{23}	16.7	X	58.88792	128.78508	105.10506	1.01865	0.0358177	0.22588409	2.6702113	21	7 23.8	20.2
161937 2007 FC_{34}	17.5	X	64.47528	287.73266	181.51945	1.74571	0.1590489	0.27772297	2.3266346	21	2 11.5	19.4
161938 2007 FB_{37}	14.9	X	200.26447	11.71281	202.39192	15.56750	0.0785129	0.17950395	3.1123377	21	12 8.6	19.8
161939 2007 FT_{38}	15.6	X	179.24600	69.31919	167.80039	14.09486	0.2529433	0.17604795	3.1529378	21	12 7.3	21.3
161940 2007 FU_{38}	15.5	X	17.93024	243.66916	34.13916	13.79990	0.1848224	0.22041246	2.7142215	21	8 14.5	18.6
161941 2007 FT_{43}	17.1	X	82.74604	122.94445	191.00941	1.62300	0.1516066	0.31008177	2.1618152	21	—	—
161942 2007 GS_{1}	15.5	X	60.45805	68.23871	190.99161	12.87604	0.1441552	0.22575946	2.6711939	21	9 13.7	19.0
161943 2007 GF_{18}	15.3	X	327.53483	197.01218	123.50849	13.63529	0.2620067	0.21738987	2.7393226	21	6 11.6	18.2
161944 2007 GM_{20}	15.9	X	81.61965	67.44306	204.68349	4.40851	0.1982967	0.23103501	2.6303741	21	11 4.2	19.7
161945 2007 GP_{21}	17.2	X	317.29613	340.41345	194.27796	1.96561	0.1321128	0.26239915	2.4163570	21	—	—
161946 2007 GX_{23}	15.7	X	189.85733	111.79320	218.44071	2.17736	0.1039429	0.19289378	2.9665880	21	2 2.5	20.4
161947 2007 GD_{25}	15.1	X	48.78755	314.04645	25.09526	9.85945	0.2756427	0.23399957	2.6081107	21	—	—
161948 2007 GU_{29}	15.4	X	236.55261	167.57122	41.47755	7.70507	0.1170894	0.18347566	3.0672588	21	—	—
161949 2007 GF_{30}	15.4	X	182.81308	103.89658	185.77917	0.94725	0.2522487	0.18252426	3.0779081	21	—	—
161950 2007 GJ_{41}	16.9	X	35.89804	324.33077	210.66767	5.30665	0.0798480	0.27748266	2.3279777	21	3 23.0	19.3
161951 2007 GX_{47}	15.4	X	154.65166	0.21792	205.49196	8.00251	0.1611151	0.23553951	2.5967305	21	10 18.9	19.6
161952 2007 GA_{60}	15.2	X	115.01921	153.65371	226.52420	3.99758	0.2163895	0.19033600	2.9931060	21	1 28.7	19.5
161953 2007 HD_{17}	16.3	X	240.40078	130.25255	99.41009	7.69188	0.0640722	0.25852520	2.4404362	21	—	—
161954 2007 HB_{18}	17.2	X	193.17206	151.46698	112.26392	2.41215	0.1688368	0.25229552	2.4804455	21	—	—
161955 2007 HZ_{26}	17.1	X	314.33690	314.54990	193.02804	4.61949	0.0960978	0.25633240	2.4543343	21	—	—
161956 2007 HG_{39}	16.3	X	68.82323	181.51651	147.28759	4.16668	0.2421559	0.23778815	2.5803339	21	—	—
161957 2007 HR_{41}	14.7	X	186.11856	81.80558	198.69166	16.80344	0.2005075	0.18052955	3.1005389	21	—	—
161958 2007 HV_{46}	14.6	X	69.04821	318.21109	50.70728	17.50166	0.2067395	0.17786337	3.1314468	21	—	—
161959 2007 HH_{48}	16.7	X	205.51456	173.78196	114.63405	2.44969	0.1812979	0.25791635	2.4442754	21	—	—
161960 2007 HA_{64}	16.8	X	13.40240	344.84105	194.23627	5.99286	0.0630930	0.27390159	2.3482248	21	2 19.6	19.4
161961 2007 HO_{65}	15.5	X	184.62385	143.58140	170.27911	14.40909	0.2180732	0.18573233	3.0423630	21	1 14.8	20.9
161962 Galchyn	15.3	X	7.44539	191.21008	100.88456	11.15550	0.1387932	0.22029403	2.7151942	21	8 4.6	18.2
161963 2007 HU_{85}	15.0	X	209.32757	260.88903	76.25593	13.61202	0.1706745	0.19648919	2.9302877	21	3 7.7	20.1
161964 2007 HV_{85}	17.0	X	162.08290	74.68245	69.68608	13.68757	0.2076708	0.22755789	2.6571013	21	8 15.5	21.7
161965 2007 HX_{87}	15.8	X	112.86800	139.41665	152.90105	13.87186	0.1763334	0.23747640	2.5825917	21	12 26.1	20.2
161966 2007 JP_{3}	15.0	X	239.51379	33.55007	188.26363	10.81647	0.2176826	0.18380425	3.0636020	21	—	—
161967 2007 JE_{28}	15.0	X	214.84075	170.39752	61.33489	7.30376	0.0916933	0.18030476	3.1031153	21	—	—
161968 2007 JQ_{32}	15.9	X	352.92067	210.61706	72.68109	9.66450	0.1473814	0.21449301	2.7639316	21	6 20.7	18.8
161969 2007 JS_{32}	15.6	X	84.27931	164.24744	184.23878	4.50603	0.2728484	0.24086188	2.5583345	21	—	—
161970 2007 JW_{34}	16.4	X	198.05832	294.72746	229.68219	3.38856	0.1242110	0.23639246	2.5904804	21	10 9.7	20.4
161971 2007 JN_{38}	16.9	X	113.17156	24.11842	191.00822	4.72442	0.0842841	0.29788777	2.2204156	21	9 20.1	19.8
161972 2007 JJ_{40}	17.0	X	342.76529	149.42174	174.81214	9.83953	0.2781005	0.28523657	2.2855948	21	7 24.6	18.2
161973 2007 KJ_{5}	16.2	X	150.41472	112.24642	57.50059	5.64477	0.0411601	0.22500368	2.6771722	21	8 29.7	20.0
161974 2007 KP_{7}	15.5	X	95.56850	302.13640	254.17328	10.84476	0.1052611	0.22266994	2.6958454	21	7 29.2	19.4
161975 Kincsem	15.5	X	135.73379	76.39914	215.26989	17.79191	0.2538661	0.23927189	2.5696557	21	—	—
161976 2007 LY_{1}	15.2	X	196.62210	160.47284	120.65357	9.41085	0.1289435	0.18274479	3.0754314	21	—	—
161977 2007 LE_{3}	15.3	X	75.26119	157.01454	208.56651	6.37161	0.3434297	0.23961367	2.5672115	21	—	—
161978 2007 LU_{16}	16.7	X	156.59337	264.41334	70.63990	3.94279	0.2208546	0.25348062	2.4727083	21	1 8.1	20.4
161979 2007 MU_{24}	16.5	X	244.38664	264.79977	108.34386	8.71124	0.1204496	0.27190672	2.3596962	21	5 17.6	19.9
161980 2007 OR_{3}	16.5	X	251.09737	86.90285	249.07843	2.07435	0.1984704	0.26475682	2.4019905	21	3 27.2	20.1
161981 4745 *P–L*	16.6	X	197.70972	306.77783	5.20372	2.89626	0.1782796	0.26662868	2.3907352	21	1 12.3	20.4
161982 6159 *P–L*	16.6	X	291.34306	359.90713	322.01159	3.54706	0.2290273	0.27164281	2.3612243	21	4 14.6	20.0
161983 6236 *P–L*	14.9	X	272.78516	108.12172	349.01660	16.13103	0.0664451	0.17823912	3.1270442	21	10 8.5	19.4
161984 6515 *P–L*	15.0	X	91.67414	346.68712	0.34395	15.45554	0.3185758	0.23069299	2.6329733	21	—	—
161985 1253 *T–2*	16.7	X	39.85374	112.48909	206.05669	3.18775	0.1934646	0.28940330	2.2636037	21	11 24.5	19.3
161986 3418 *T–2*	15.8	X	315.75054	247.27634	30.25084	4.31348	0.1549855	0.24120218	2.5559277	21	4 4.2	19.0
161987 2026 *T–3*	16.4	X	66.87625	51.51956	306.87980	2.73778	0.2046253	0.22867791	2.6484183	21	—	—
161988 4069 *T–3*	16.3	X	286.15118	219.27489	149.57454	5.24594	0.1955497	0.24307152	2.5428066	21	6 20.5	19.6
161989 Cacus	17.2	X	64.64919	102.20088	161.22914	26.06163	0.2139768	0.82804730	1.1231367	21	—	—
161990 1981 EY_{29}	16.7	X	276.76004	2.96144	167.63896	5.34428	0.2060527	0.23856914	2.5746995	21	—	—
161991 1981 EU_{36}	16.8	X	249.45952	248.77094	231.88353	4.06416	0.1685875	0.28306604	2.2972638	21	10 11.1	19.7
161992 1981 EK_{38}	16.6	X	165.62013	233.50003	297.92566	3.35873	0.0698083	0.27966316	2.3158613	21	9 19.2	19.8
161993 1981 EG_{45}	16.3	X	94.53812	280.16971	288.89383	3.49472	0.0736091	0.27725204	2.3292685	21	8 15.0	19.1
161994 1981 EK_{48}	15.9	X	80.35074	68.97779	337.92213	14.68918	0.0568614	0.24149616	2.5538530	21	—	—
161995 1983 *LB*	17.2	X	346.96067	220.71950	81.17906	25.27179	0.4791559	0.28508435	2.2864084	21	5 15.2	18.5
161996 1985 RH_{3}	15.8	X	51.80738	357.31550	10.54758	8.49097	0.3240445	0.22481868	2.6786406	21	—	—
161997 1987 *AN*	16.5	X	305.06473	221.57148	136.12759	3.00732	0.1866703	0.27402095	2.3475429	21	7 4.9	19.0
161998 1988 *PA*	17.5	X	171.05296	137.61988	162.12204	8.22462	0.4053491	0.31311509	2.1478307	21	—	—
161999 1989 *RC*	18.7	X	21.84678	181.35417	140.15359	7.37457	0.5128907	0.27983374	2.3149201	21	12 21.5	22.0
162000 1990 *OS*	19.4	X	55.79393	21.53588	346.53431	1.09241	0.4624934	0.45326151	1.6784310	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162001 Vulpius	15.8	X	124.98643	164.47613	212.38582	14.25267	0.1951843	0.23538844	2.5978414	21	1 22.3	19.7
162002 Spalatin	16.8	X	59.21442	25.40437	318.91690	3.67680	0.2757680	0.22806085	2.6531933	21	—	—
162003 1991 TG	14.9	X	359.94005	208.45918	185.13190	31.94492	0.2795946	0.23274419	2.6174807	21	—	—
162004 1991 VE	18.2	X	187.02941	193.65242	61.86481	7.21777	0.6645797	1.17223288	0.8908272	21	—	—
162005 1992 SV_9	16.5	X	202.84127	211.63662	182.80768	0.90388	0.1835857	0.26134543	2.4228477	21	4 28.7	20.3
162006 1993 FU_{16}	15.3	X	71.13864	340.42458	110.82109	2.69374	0.1858252	0.17418363	3.1753955	21	2 28.4	19.1
162007 1993 FC_{32}	15.4	X	138.74193	274.12165	29.38885	12.71829	0.1855593	0.23155536	2.6264320	21	—	—
162008 1993 TW_3	16.8	X	68.54824	219.18627	1.74394	6.19294	0.0702932	0.27538540	2.3397823	21	7 28.5	19.6
162009 1993 TE_{19}	16.5	X	25.09159	123.81775	194.18738	4.98207	0.1841309	0.28246898	2.3004998	21	10 30.3	18.8
162010 1993 UN_6	16.9	X	271.53637	320.60443	93.73493	6.55170	0.1469392	0.27743718	2.3282321	21	8 14.6	19.6
162011 Konnohmaru	16.5	X	284.28893	342.96450	66.75120	4.55288	0.5973761	0.20688169	2.8313138	21	6 19.1	21.3
162012 1994 PY_{16}	16.3	X	70.22868	86.74059	281.66629	1.55220	0.1683509	0.22946591	2.6423516	21	—	—
162013 1994 PC_{17}	15.9	X	75.87660	67.88924	316.88820	5.95969	0.3477013	0.22989600	2.6390550	21	—	—
162014 1994 RF_{11}	16.6	X	104.61279	342.05053	353.46883	19.06072	0.0828384	0.37684007	1.8982992	21	—	—
162015 1994 TF_2	19.2	X	230.81998	349.76133	175.23164	23.75536	0.2839513	0.99599195	0.9930372	21	—	—
162016 1994 TC_{12}	16.3	X	351.49600	220.36717	177.81213	1.83984	0.0794630	0.22130400	2.7069270	21	11 28.9	19.5
162017 1994 UB_{11}	16.9	X	348.77121	97.16842	334.31571	5.79577	0.1144937	0.29805091	2.2196053	21	—	—
162018 1995 BD_8	17.1	X	357.35154	303.57374	4.99326	2.00068	0.1175125	0.27881421	2.3205599	21	8 11.9	19.1
162019 1995 DZ_4	17.1	X	293.31143	253.93320	170.00828	1.88842	0.1520028	0.28535017	2.2849882	21	10 3.4	18.9
162020 1995 DK_7	15.5	X	269.76009	336.86552	33.48458	2.36569	0.0457544	0.19897402	2.9058407	21	6 24.4	19.6
162021 1995 FV_{11}	16.0	X	251.79606	333.19131	30.14589	1.14338	0.0819329	0.19469491	2.9482636	21	5 18.9	20.2
162022 1995 FJ_{14}	15.7	X	266.00448	170.98650	172.78172	12.00668	0.1346971	0.19313349	2.9641328	21	5 7.1	20.2
162023 1995 GP_8	16.8	X	201.93865	291.12251	196.13356	1.73968	0.1847238	0.27833565	2.3232190	21	8 25.9	20.3
162024 1995 SK_{16}	16.5	X	114.97732	246.44976	174.85151	12.95005	0.1744167	0.24687896	2.5165950	21	3 6.5	19.9
162025 1995 SM_{25}	16.4	X	20.96240	280.47396	219.82201	2.29708	0.0417683	0.24469976	2.5315141	21	1 18.2	19.4
162026 1995 SJ_{58}	16.6	X	194.43175	322.91477	2.63875	1.60298	0.0507141	0.24542955	2.5264933	21	1 22.7	20.1
162027 1995 UN_{10}	16.5	X	78.53921	119.53757	256.88509	1.99653	0.1403353	0.23861811	2.5743471	21	—	—
162028 1995 UU_{55}	16.5	X	155.77315	13.22588	308.18542	1.09727	0.0573956	0.24143147	2.5543092	21	—	—
162029 1995 UP_{77}	16.8	X	165.34159	250.70210	36.09518	2.84698	0.1683143	0.23916216	2.5704416	21	—	—
162030 1995 VK_{12}	16.8	X	81.02737	315.34108	113.84836	2.45027	0.1760580	0.24162739	2.5529282	21	1 28.4	19.3
162031 1995 VE_{14}	16.6	X	10.37430	266.08561	168.28643	4.70106	0.0322108	0.23511371	2.5998647	21	—	—
162032 1995 WJ_8	16.1	X	183.29624	25.73635	280.55192	3.20188	0.1441181	0.24063514	2.5599414	21	—	—
162033 1995 WR_{37}	15.3	X	293.80289	294.17769	77.77687	12.81109	0.0860933	0.18085259	3.0968456	21	7 24.3	19.6
162034 1995 XT_1	15.5	X	77.74032	164.35838	277.23148	3.93504	0.2436760	0.23894036	2.5720321	21	2 18.6	18.1
162035 Jirotakahashi	15.4	X	178.49845	323.92290	36.85901	8.79177	0.2122076	0.24366803	2.5386550	21	3 3.6	19.7
162036 1996 AZ_{16}	16.1	X	143.81975	189.04935	181.01960	1.75765	0.1370077	0.23712408	2.5851492	21	1 30.8	19.8
162037 1996 BW_3	17.4	X	8.27381	288.93363	177.69518	3.51657	0.0627551	0.30735979	2.1745598	21	—	—
162038 1996 DH	16.6	X	110.43319	351.53975	309.28997	17.23343	0.2766706	0.49309462	1.5867769	21	—	—
162039 1996 JG	19.5	X	117.21019	280.22240	52.84989	5.28166	0.6606322	0.40753708	1.8017366	21	—	—
162040 1996 KF_4	16.2	X	86.68072	222.17465	69.51450	7.37240	0.1384978	0.28923964	2.2644575	21	12 5.6	19.3
162041 1996 NL_4	16.6	X	3.47187	98.14318	197.26298	1.42720	0.1979388	0.27560617	2.3385326	21	8 6.3	18.0
162042 1996 OR	15.9	X	176.90277	136.02278	252.01559	9.09998	0.3026987	0.18343741	3.0676850	21	4 3.8	21.6
162043 1996 PP_7	15.7	X	163.51488	187.01781	140.60626	9.41562	0.2228464	0.17598580	3.1536800	21	1 16.4	20.9
162044 1996 RP_3	14.8	X	208.06760	5.46446	2.38900	10.49223	0.0945719	0.18358851	3.0660017	21	4 5.9	19.7
162045 1996 RM_{16}	16.6	X	351.90912	312.15252	348.14952	2.72021	0.0693280	0.27190954	2.3596799	21	7 18.3	18.9
162046 1996 RQ_{31}	13.1	X	317.99357	307.52113	141.02607	2.89734	0.0646806	0.08336528	5.1897437	21	11 16.9	19.7
162047 1996 RJ_{32}	12.5	X	14.74116	356.15682	25.15584	6.30937	0.0306365	0.08374820	5.1739123	21	11 9.9	19.3
162048 1996 RO_{32}	12.9	X	7.59603	221.95820	164.33753	4.03565	0.0880361	0.08201292	5.2466394	21	11 11.5	19.5
162049 1996 SZ_7	14.7	X	151.57231	72.22263	11.59083	17.18468	0.3173041	0.18077092	3.0977783	21	5 20.1	20.5
162050 1996 SD_8	15.0	X	125.99236	9.84736	20.60831	20.84730	0.1556240	0.17450233	3.1715281	21	2 27.8	20.0
162051 1996 TE_1	15.8	X	275.14196	243.45417	72.05070	8.67948	0.1237804	0.26297545	2.4128255	21	4 7.9	19.2
162052 1996 TB_{10}	16.5	X	258.56549	145.77054	195.64467	1.64781	0.2054245	0.26497489	2.4006724	21	4 10.5	20.1
162053 1996 TL_{27}	15.1	X	76.56666	167.35799	42.72798	12.63848	0.1204948	0.18864230	3.0109947	21	8 1.2	19.5
162054 1996 TF_{42}	16.3	X	331.15875	212.46226	110.18996	3.56499	0.2178268	0.27253094	2.3560916	21	6 26.7	17.8
162055 1996 VA_3	17.0	X	326.58098	9.82759	325.08017	0.97711	0.2026617	0.27019938	2.3696261	21	7 9.6	18.8
162056 1996 XM_4	16.4	X	277.04893	42.49437	345.57150	5.55510	0.1277138	0.26874390	2.3781740	21	7 17.4	19.3
162057 1996 XN_{28}	15.3	X	167.64341	48.49668	358.86898	0.51339	0.1739411	0.17821118	3.1273712	21	4 18.5	20.3
162058 1997 AE_{12}	17.9	X	315.67293	60.80368	304.81807	4.85381	0.5547306	0.27087207	2.3657013	21	5 24.8	20.9
162059 1997 AM_{17}	14.9	X	158.88862	107.93053	276.32453	7.18092	0.2307843	0.17318931	3.1875376	21	3 15.2	20.4
162060 1997 CF_2	15.9	X	187.41318	300.57650	313.08995	6.09605	0.1661060	0.23526651	2.5987389	21	—	—
162061 1997 CH_{22}	16.4	X	304.75090	171.38566	327.75170	3.27653	0.1520439	0.23515919	2.5995295	21	—	—
162062 1997 EQ_{16}	15.7	X	145.45570	64.54791	178.78776	9.59909	0.1585918	0.22466432	2.6798674	21	11 25.3	20.2
162063 1997 EH_{29}	18.9	X	177.43789	198.63904	175.11923	13.01422	0.6664751	0.73671472	1.2141429	21	3 5.0	19.5
162064 1997 GT_4	16.0	X	93.81405	291.43793	15.02410	6.10961	0.0966775	0.22641585	2.6660288	21	12 17.1	20.0
162065 1997 KB_3	16.8	X	96.86670	166.04824	194.21962	6.31190	0.1970432	0.30341906	2.1933476	21	—	—
162066 1997 MU_8	15.6	X	270.03526	97.98725	288.23158	4.60949	0.1340158	0.20256205	2.8714240	21	7 2.7	19.7
162067 1997 NH_2	16.0	X	275.58323	199.07154	180.39307	12.14759	0.1290014	0.20279759	2.8692002	21	6 30.7	20.2
162068 1997 SD_{29}	15.1	X	205.12969	76.73316	24.51304	16.07683	0.0986270	0.19658165	2.9293689	21	8 4.8	19.9
162069 1997 TC_3	15.8	X	179.91304	137.31219	316.90845	1.31643	0.0478581	0.19488550	2.9463412	21	6 23.7	20.2
162070 1997 TQ_5	16.8	X	60.74471	196.79863	122.34277	2.19576	0.1966331	0.29332504	2.2433823	21	12 20.5	20.0
162071 1997 TL_{15}	16.3	X	190.77788	117.66909	233.73487	2.75511	0.1282606	0.18710654	3.0274483	21	3 1.0	21.1
162072 1997 TT_{17}	15.7	X	153.88818	115.97705	205.55898	5.62001	0.1272357	0.30261875	2.1972130	21	—	—
162073 1997 UK_{18}	15.8	X	15.14389	270.91996	59.36723	5.99426	0.2140570	0.28713610	2.2755035	21	11 6.6	17.7
162074 1997 VX_2	14.9	X	204.56298	148.73744	272.40504	9.51197	0.2761854	0.19113680	2.9847400	21	6 2.4	20.3
162075 1997 WG_5	15.3	X	236.29980	47.13697	228.11596	16.33695	0.2830253	0.18076123	3.0978890	21	1 6.9	21.1
162076 1997 WV_8	15.4	X	151.12057	318.13884	66.88501	14.89536	0.1382746	0.18217026	3.0818942	21	3 13.7	20.4
162077 1997 WG_{11}	15.8	X	159.42733	155.56257	230.13982	2.45442	0.1550607	0.18424342	3.0587318	21	3 14.4	20.7
162078 1997 WS_{24}	16.6	X	340.79900	168.26030	230.47949	5.37497	0.0940234	0.28905414	2.2654262	21	11 29.5	18.8
162079 1997 WE_{35}	15.0	X	182.90578	7.65990	72.30585	14.59760	0.1962529	0.18984001	2.9983171	21	6 9.2	20.0
162080 1998 DG_{16}	20.0	X	10.85924	356.86195	344.33606	16.20742	0.3582452	1.16079144	0.8966713	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162081 1998 FL_{123}	16.5	X	51.19178	272.77124	280.39708	1.51324	0.1275345	0.26095586	2.4252584	21	5 25.8	19.1
162082 1998 HL_{1}	19.1	X	98.16228	148.65106	213.53900	20.05182	0.1870172	0.70838834	1.2462977	21	—	—
162083 1998 HM_{25}	16.5	X	81.43763	25.45301	90.85095	3.20548	0.1660344	0.25698422	2.4501824	21	4 2.7	19.2
162084 1998 HB_{101}	16.0	X	148.92374	320.95749	217.22619	6.52221	0.1407798	0.26870391	2.3784100	21	9 8.8	19.7
162085 1998 HR_{127}	16.1	X	40.07151	345.86668	200.95878	6.41513	0.1309979	0.25832411	2.4417025	21	4 26.3	18.3
162086 1998 KT_{42}	16.1	X	133.83028	143.51010	155.15965	9.09089	0.1331948	0.23498201	2.6008360	21	—	—
162087 1998 KY_{63}	15.8	X	173.80042	12.76048	248.24807	5.03398	0.2737455	0.23522650	2.5990336	21	—	—
162088 1998 OV_{1}	16.4	X	96.67590	181.00198	130.50698	3.08769	0.1591415	0.22720723	2.6598345	21	12 31.3	20.7
162089 1998 OL_{13}	15.5	X	28.11739	38.34430	317.80444	4.17606	0.1762765	0.22111249	2.7084897	21	12 10.9	19.0
162090 1998 PP	15.5	X	9.12463	69.35503	334.27236	11.66814	0.1760319	0.22251920	2.6970628	21	—	—
162091 1998 QQ_{3}	15.1	X	329.01469	70.95821	331.05039	28.99147	0.2780653	0.21690775	2.7433803	21	9 29.4	18.0
162092 1998 QA_{4}	15.7	X	68.44067	356.27440	348.13854	12.17705	0.2715954	0.22494999	2.6775981	21	—	—
162093 1998 QV_{10}	15.5	X	62.00241	29.97352	323.66331	4.96476	0.2788481	0.22496097	2.6775110	21	—	—
162094 1998 QS_{24}	16.0	X	6.87303	42.60388	318.27908	8.44777	0.2296119	0.21843921	2.7305428	21	11 17.7	18.9
162095 1998 QC_{29}	15.9	X	10.63594	236.68579	112.93246	4.31016	0.1335556	0.21798595	2.7343265	21	10 31.5	19.1
162096 1998 QD_{30}	15.6	X	346.71690	76.42328	302.09962	10.53516	0.1827030	0.21775730	2.7362403	21	10 24.1	18.5
162097 1998 QF_{30}	15.7	X	20.89222	185.66368	196.07699	8.30403	0.0717768	0.22330404	2.6907395	21	12 19.3	19.3
162098 1998 QQ_{34}	15.7	X	17.31732	329.82520	353.43852	7.63290	0.2090809	0.21702908	2.7423577	21	10 12.4	18.7
162099 1998 QV_{41}	15.3	X	340.84159	359.05898	343.50978	11.85867	0.2703157	0.21377783	2.7700925	21	8 20.9	17.3
162100 1998 QD_{67}	15.2	X	41.19073	109.95602	271.46994	12.92789	0.1464765	0.22492375	2.6778064	21	—	—
162101 1998 QR_{85}	15.9	X	18.25301	157.83220	200.63316	9.27805	0.1622735	0.21922132	2.7240445	21	11 28.0	19.2
162102 1998 QV_{95}	15.2	X	337.19610	111.60326	274.95290	6.52552	0.2911194	0.21584021	2.7524186	21	10 17.0	17.2
162103 1998 RS_{1}	15.7	X	359.49176	36.39283	292.92791	8.24593	0.1633182	0.21315552	2.7754814	21	9 7.5	18.7
162104 1998 RM_{7}	16.3	X	323.16278	76.48008	352.75627	1.69096	0.0610398	0.22143009	2.7058993	21	11 25.6	19.5
162105 1998 RZ_{22}	15.6	X	18.82348	315.00411	7.33279	8.09084	0.2408024	0.21715224	2.7413207	21	10 19.6	18.5
162106 1998 RE_{23}	15.1	X	9.10732	11.26803	359.44901	16.05873	0.1617928	0.21972388	2.7198892	21	11 23.2	18.5
162107 1998 RQ_{26}	15.8	X	12.82200	355.52869	358.38108	9.30319	0.2318493	0.21830810	2.7316359	21	11 19.1	18.9
162108 1998 RH_{36}	15.9	X	6.52613	185.60033	184.42257	10.11625	0.2110157	0.21843348	2.7305905	21	12 1.3	19.0
162109 1998 RE_{39}	15.8	X	339.48618	49.75463	8.76015	7.70774	0.2465127	0.21883359	2.7272612	21	12 16.0	18.2
162110 1998 RQ_{63}	15.3	X	62.39799	240.53109	164.97913	14.95828	0.1472923	0.22793573	2.6541641	21	—	—
162111 1998 RT_{76}	15.1	X	37.80891	288.21105	30.06870	7.75205	0.2484908	0.21790443	2.7350085	21	11 15.1	18.5
162112 1998 RH_{79}	15.4	X	346.30853	56.99980	22.51683	16.21689	0.2544092	0.22050489	2.7134630	21	—	—
162113 1998 RE_{80}	15.1	X	344.39580	341.55336	44.28836	8.07699	0.2423739	0.21570518	2.7535671	21	11 7.6	17.3
162114 1998 SP_{9}	16.1	X	14.46303	195.17826	122.61336	4.41992	0.1966019	0.21380139	2.7698890	21	10 1.4	19.0
162115 1998 SP_{10}	15.6	X	55.44229	209.70439	171.27671	15.70021	0.2123361	0.22406488	2.6846450	21	—	—
162116 1998 SA_{15}	19.2	X	181.71661	331.44491	114.19765	7.11262	0.5586034	0.37177114	1.9155152	21	6 15.2	23.3
162117 1998 SD_{15}	19.0	X	213.82378	35.83620	183.92650	26.79764	0.3448468	1.09426962	0.9326524	21	—	—
162118 1998 SP_{19}	15.3	X	106.04942	291.44445	339.05760	13.34282	0.1812540	0.22263214	2.6961506	21	11 17.9	19.9
162119 1998 SV_{34}	14.8	X	355.34870	299.55974	16.78267	20.33559	0.2933505	0.21249906	2.7811946	21	9 1.5	17.2
162120 1998 SH_{36}	20.5	X	317.15408	278.78997	217.87140	2.13148	0.5710917	0.86867967	1.0878348	21	—	—
162121 1998 SD_{61}	15.6	X	114.80108	122.95369	218.01848	11.65049	0.1823913	0.22780326	2.6551930	21	—	—
162122 1998 SH_{63}	15.4	X	333.00813	73.36457	354.51113	8.54251	0.1501549	0.21938450	2.7226935	21	12 9.5	18.4
162123 1998 SW_{67}	15.9	X	142.51878	45.37986	248.30163	10.78503	0.1745570	0.22881350	2.6473719	21	—	—
162124 1998 SC_{69}	15.3	X	338.57039	73.22095	320.82879	13.37753	0.1355187	0.21742649	2.7390150	21	10 26.8	18.6
162125 1998 SC_{81}	15.6	X	24.49695	122.08211	244.60354	1.60841	0.1977515	0.21982588	2.7190477	21	12 22.7	18.7
162126 1998 SX_{83}	15.6	X	330.85036	4.26671	5.15468	5.85107	0.1116609	0.21342553	2.7731400	21	9 15.9	18.6
162127 1998 SO_{85}	15.2	X	14.36670	81.65404	6.21993	12.56071	0.2423757	0.22536255	2.6743293	21	—	—
162128 1998 SL_{87}	15.6	X	326.47116	95.25387	304.20895	3.83366	0.1742488	0.21495536	2.7599668	21	10 14.5	18.3
162129 1998 SZ_{91}	15.5	X	345.05992	27.40382	351.95868	8.94857	0.2193028	0.21542014	2.7559955	21	10 24.9	18.0
162130 1998 SP_{104}	15.8	X	87.12141	186.41907	159.49898	11.34998	0.1765479	0.22527191	2.6750466	21	—	—
162131 1998 SL_{127}	15.5	X	47.36687	347.90174	34.67398	10.14976	0.2874743	0.22266913	2.6958519	21	—	—
162132 1998 SA_{162}	16.0	X	350.05362	200.71721	166.56188	9.18759	0.1613870	0.21448697	2.7639835	21	10 21.1	18.9
162133 1998 SH_{163}	15.3	X	45.94075	307.53496	10.66834	8.17761	0.1834473	0.21719089	2.7409954	21	11 14.7	19.0
162134 1998 TJ_{24}	18.0	X	304.40327	330.32494	201.18665	0.81372	0.0784710	0.31487990	2.1397979	21	—	—
162135 1998 TE_{38}	14.8	X	289.83982	187.16440	252.06143	13.32452	0.1574067	0.21236470	2.7823675	21	9 30.7	18.5
162136 1998 UD_{5}	16.1	X	336.25235	254.83486	139.37660	2.77518	0.2692132	0.21439423	2.7647805	21	10 31.7	18.1
162137 1998 UJ_{10}	15.8	X	351.94296	122.71758	225.99559	3.97537	0.1754617	0.21199719	2.7855822	21	9 23.8	18.5
162138 1998 UY_{13}	15.8	X	37.48208	159.43426	172.53462	1.83407	0.0959382	0.21511981	2.7585601	21	11 10.4	19.4
162139 1998 UL_{19}	15.5	X	335.79844	324.92526	39.35418	17.66024	0.3089288	0.21298288	2.7769811	21	9 18.7	17.8
162140 1998 UX_{28}	15.7	X	337.25469	188.02099	170.86833	6.37154	0.2813380	0.21157032	2.7893278	21	9 2.2	17.8
162141 1998 UQ_{40}	15.6	X	329.15637	17.02652	5.37012	4.00615	0.1427377	0.21247508	2.7814038	21	9 28.6	18.5
162142 1998 VR	18.7	X	70.98506	170.70890	46.37394	21.80591	0.3178544	1.20317762	0.8754867	21	—	—
162143 1998 VJ_{1}	15.3	X	8.16737	156.84710	226.32773	16.39511	0.2893376	0.21703979	2.7422675	21	12 30.3	18.5
162144 1998 VZ_{32}	15.5	X	351.92375	230.19848	232.14635	8.18332	0.2200007	0.22059652	2.7127115	21	—	—
162145 1998 WH_{40}	15.8	X	194.02568	206.80301	60.33933	12.11470	0.0451958	0.22362549	2.6881604	21	—	—
162146 1998 XW_{34}	15.0	X	356.70914	304.20876	70.79158	9.21183	0.2884045	0.21356108	2.7719665	21	11 27.1	17.2
162147 1998 XV_{56}	14.9	X	353.13051	151.14866	250.06821	8.38673	0.1639161	0.21422590	2.7662286	21	12 10.9	17.9
162148 1998 XJ_{80}	15.1	X	282.30123	282.24391	185.85073	6.92102	0.2682695	0.21147810	2.7901387	21	10 16.6	18.3
162149 1998 YQ_{11}	17.3	X	271.58123	245.81823	256.57452	11.93025	0.3966468	0.38428613	1.8736979	21	12 17.3	16.0
162150 1998 YF_{20}	16.0	X	302.66575	310.96399	46.16894	1.44217	0.1403497	0.19980484	2.8977798	21	7 8.1	19.5
162151 1999 AS_{11}	15.0	X	198.87326	359.68506	292.57286	5.29881	0.1612827	0.17589496	3.1547658	21	1 3.1	20.2
162152 1999 AV_{13}	15.5	X	243.78413	67.99753	298.48503	9.57795	0.1112917	0.19330503	2.9623789	21	5 8.1	20.1
162153 1999 AP_{16}	16.6	X	196.36901	317.93992	270.39807	4.56960	0.0719191	0.29975298	2.2111950	21	—	—
162154 1999 AD_{20}	17.3	X	350.07492	97.24177	322.28509	3.22385	0.1061521	0.29829412	2.2183986	21	—	—
162155 1999 BV_{7}	15.3	X	275.14931	354.44851	59.32850	3.78222	0.2453953	0.20340056	2.8635271	21	7 30.0	19.3
162156 1999 BU_{28}	15.1	X	145.90396	26.45715	309.60014	8.43755	0.0693388	0.17454478	3.1710138	21	—	—
162157 1999 CV_{8}	19.7	X	112.38453	279.31879	131.98517	15.26629	0.3514946	0.66727618	1.2969771	21	—	—
162158 Merrillhess	14.8	X	341.30482	145.03263	255.15206	9.00923	0.2274152	0.21113712	2.7931418	21	11 18.6	17.3
162159 1999 CV_{140}	15.5	X	240.79992	48.04225	288.42214	0.52852	0.0879998	0.18770036	3.0210598	21	4 3.0	20.1
162160 1999 CR_{141}	16.4	X	173.95985	210.92317	311.39611	5.78846	0.1128649	0.28813365	2.2702485	21	9 15.3	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162161 1999 DK_3	17.3	X	57.88952	103.08284	149.72437	43.14610	0.4433437	0.32037467	2.1152609	21	11 1.7	21.6
162162 1999 DB_7	19.7	X	297.12903	29.86591	157.59962	10.84173	0.1948822	0.74438569	1.2057873	21	—	—
162163 1999 ER	17.0	X	11.61105	145.31157	149.49133	3.49611	0.2117874	0.28143141	2.3061506	21	8 30.3	18.5
162164 1999 EQ_6	15.3	X	146.84327	46.57058	345.46701	9.85524	0.1248799	0.17902316	3.1179076	21	3 8.7	19.9
162165 1999 FT_{43}	15.1	X	107.88248	105.39468	56.94287	2.81854	0.1360586	0.18916132	3.0054845	21	7 6.9	19.5
162166 Mantsch	16.3	X	352.97218	163.15545	142.38003	10.47299	0.0804055	0.27619109	2.3352297	21	7 27.0	18.6
162167 1999 GH_6	16.1	X	12.31729	45.16583	159.52030	5.20126	0.1790472	0.26730295	2.3867131	21	3 24.3	18.0
162168 1999 GT_6	17.2	X	231.92006	78.92759	206.16992	4.06007	0.5869282	0.20986888	2.8043832	21	1 9.6	23.3
162169 1999 GB_{14}	16.4	X	72.63864	353.53408	14.78304	8.05938	0.1683037	0.29689532	2.2253611	21	—	—
162170 1999 GA_{45}	16.4	X	4.26971	41.71662	171.69955	2.47079	0.1574582	0.26730657	2.3866916	21	3 21.4	18.4
162171 1999 GC_{56}	14.6	X	125.09588	46.99936	2.30531	16.68889	0.1333159	0.17779070	3.1323000	21	3 10.8	19.2
162172 1999 GQ_{58}	15.5	X	326.16088	72.51521	190.54752	21.08476	0.2167114	0.26679518	2.3897404	21	3 13.7	18.4
162173 Ryugu	19.3	X	137.37147	211.59322	251.31459	5.86635	0.1911566	0.75831162	1.1909794	21	—	—
162174 1999 JS_{11}	15.6	X	353.41054	310.67657	219.35857	24.30944	0.1948126	0.30503732	2.1855835	21	—	—
162175 1999 JJ_{45}	16.5	X	313.48349	224.98805	64.09313	4.26881	0.1964261	0.26650106	2.3914984	21	4 7.9	19.2
162176 1999 JZ_{76}	16.6	X	352.55357	114.69213	126.10174	6.05152	0.1915761	0.26769837	2.3843622	21	4 7.8	18.7
162177 1999 JU_{102}	16.0	X	308.90524	219.78157	87.93483	5.82952	0.2047572	0.26824354	2.3811305	21	4 26.7	18.8
162178 1999 JT_{114}	16.6	X	8.66659	242.30125	26.61380	2.97141	0.1823610	0.27122566	2.3636447	21	7 3.1	18.3
162179 1999 JZ_{127}	16.4	X	310.77198	184.23243	115.22828	3.11517	0.2142488	0.26746909	2.3857246	21	4 15.3	19.3
162180 1999 KR_5	16.2	X	57.29715	196.94929	54.35967	11.52021	0.2076036	0.27738549	2.3285214	21	9 22.4	19.2
162181 1999 LF_6	18.2	X	14.96486	140.84835	208.50974	18.94296	0.2805759	0.58896631	1.4095346	21	—	—
162182 1999 LY_6	16.3	X	305.98154	349.60784	268.61359	4.58138	0.1605093	0.25917601	2.4363491	21	2 17.7	19.5
162183 1999 NB_5	21.1	X	106.79634	123.11105	235.36415	1.43059	0.5351265	0.33013602	2.0733571	21	1 11.4	22.5
162184 1999 NP_{22}	16.1	X	293.44847	168.99355	116.26094	6.59134	0.2597132	0.26039183	2.4287593	21	3 1.4	19.7
162185 1999 NK_{27}	15.7	X	198.74789	267.61163	115.84589	10.52114	0.2473806	0.25647690	2.4534123	21	4 16.6	20.2
162186 1999 OP_3	15.0	X	7.37709	271.24077	311.48205	27.56694	0.6096999	0.22062768	2.7124561	21	1 28.7	16.2
162187 1999 QR_2	16.6	X	151.49066	144.24758	148.27235	18.78966	0.2778519	0.24103285	2.5571246	21	—	—
162188 1999 RB_2	16.3	X	205.49414	346.49671	208.09974	21.71274	0.0485648	0.36816270	1.9280111	21	12 29.1	18.9
162189 1999 RQ_2	16.6	X	175.29604	71.41767	202.53385	20.71269	0.0785008	0.37515875	1.9039666	21	—	—
162190 1999 RP_{14}	17.1	X	82.84448	2.33107	340.92425	19.27833	0.0466730	0.37168599	1.9158077	21	—	—
162191 1999 RX_{16}	16.8	X	198.76177	161.67211	193.21935	5.02312	0.2169026	0.25132932	2.4867986	21	3 7.2	20.9
162192 1999 RY_{28}	16.8	X	153.89874	118.68744	161.80872	24.30367	0.1551413	0.37434741	1.9067167	21	—	—
162193 1999 RO_{30}	17.3	X	112.87153	130.20894	184.84609	21.99279	0.0880862	0.37153780	1.9163171	21	—	—
162194 1999 RP_{35}	16.2	X	125.85492	16.93881	6.05536	5.90599	0.2690797	0.24320281	2.5418914	21	2 14.2	19.9
162195 1999 RK_{45}	19.2	X	253.34225	4.15829	120.01072	5.89385	0.7730475	0.48758186	1.5987149	21	8 20.8	21.9
162196 1999 RL_{45}	18.7	X	268.32352	234.27785	171.93033	22.43251	0.3749504	0.39937116	1.8262137	21	6 24.4	21.8
162197 1999 RA_{50}	16.1	X	228.98076	94.02155	229.44608	3.78701	0.1999802	0.25406310	2.4689274	21	2 20.9	20.3
162198 1999 RM_{55}	16.2	X	324.98592	282.64115	22.26573	2.17608	0.1959763	0.26422134	2.4052347	21	5 18.7	18.4
162199 1999 RU_{101}	15.9	X	181.02719	75.28547	294.92436	6.30612	0.1309431	0.25152101	2.4855350	21	3 5.5	19.8
162200 1999 RY_{106}	16.1	X	125.43268	344.64658	340.92151	9.00114	0.1688911	0.23894051	2.5720310	21	—	—
162201 1999 RK_{117}	16.9	X	81.32343	54.07804	318.73552	17.45453	0.0853387	0.37569864	1.9021421	21	—	—
162202 1999 RB_{156}	16.3	X	99.56940	116.80237	269.65063	3.55757	0.2453551	0.24128000	2.5553781	21	1 11.1	19.1
162203 1999 RV_{158}	16.4	X	199.49224	140.51652	151.64247	3.92490	0.1597597	0.24593035	2.5230622	21	—	—
162204 1999 RJ_{160}	15.9	X	200.66120	275.27921	108.51777	5.29223	0.1952911	0.25454682	2.4657986	21	4 16.2	20.0
162205 1999 RH_{165}	16.4	X	96.96692	195.56495	189.68052	6.72786	0.2403069	0.24069341	2.5595282	21	1 4.1	19.3
162206 1999 RN_{165}	16.5	X	225.59643	54.33847	321.69770	2.09906	0.1932234	0.25668259	2.4521015	21	4 24.5	20.6
162207 1999 RK_{200}	16.0	X	117.03392	148.77100	236.28847	12.80844	0.1424568	0.24342111	2.5403714	21	1 14.2	19.5
162208 1999 RB_{258}	16.8	X	27.50971	237.01062	154.72535	23.92719	0.0920006	0.37122508	1.9173932	21	—	—
162209 1999 SD_3	14.7	X	348.57770	118.08737	327.48914	30.01207	0.3191551	0.22933281	2.6433738	21	—	—
162210 1999 SM_5	19.1	X	104.35444	319.18406	327.73133	5.19255	0.6953027	0.28193905	2.3033816	21	—	—
162211 1999 SE_{18}	15.4	X	191.54319	246.81528	33.11112	13.04795	0.2881428	0.24475540	2.5311304	21	—	—
162212 1999 SP_{25}	16.2	X	139.11788	80.89245	251.72660	4.29849	0.1207220	0.24031898	2.5621861	21	—	—
162213 1999 TL_3	16.7	X	123.51539	32.65209	13.19047	11.14025	0.2801525	0.24441309	2.5334932	21	3 14.1	20.5
162214 1999 TC_{10}	18.6	X	31.83848	58.80533	27.67353	19.15808	0.5853132	0.27815938	2.3242004	21	—	—
162215 1999 TL_{12}	19.1	X	309.69529	346.76273	202.32991	17.33790	0.4365846	0.87628618	1.0815304	21	—	—
162216 1999 TD_{13}	17.0	X	99.40766	189.23664	211.05228	5.44191	0.3166422	0.23984483	2.5655617	21	2 8.5	20.2
162217 1999 TC_{34}	16.6	X	104.37943	193.52572	200.89111	5.97526	0.2324116	0.24121152	2.5558617	21	1 25.3	19.8
162218 1999 TW_{54}	16.4	X	196.59568	309.03660	257.86141	1.30453	0.0262241	0.22919019	2.6444703	21	12 9.4	20.0
162219 1999 TS_{63}	15.8	X	37.37256	221.30386	199.11642	5.15751	0.2533408	0.23322902	2.6138520	21	—	—
162220 1999 TL_{79}	17.1	X	215.99618	250.64395	34.16492	3.68534	0.1408328	0.24469804	2.5315260	21	—	—
162221 1999 TM_{87}	16.2	X	28.25985	310.58696	83.26868	4.03257	0.1146038	0.22950624	2.6420420	21	—	—
162222 1999 TS_{102}	15.6	X	138.47496	237.20801	127.01343	13.86158	0.2792586	0.24207804	2.5497589	21	2 3.3	19.6
162223 1999 TR_{119}	15.5	X	121.57643	336.78943	5.41532	13.71689	0.1575181	0.23878070	2.5731784	21	—	—
162224 1999 TD_{120}	16.1	X	102.53816	74.84163	278.81428	3.27507	0.1843974	0.23754676	2.5820817	21	—	—
162225 1999 TX_{121}	16.2	X	107.43053	90.04533	266.04206	2.80927	0.1763079	0.23822682	2.5771653	21	—	—
162226 1999 TR_{127}	16.3	X	49.35740	320.55250	87.32324	2.41013	0.2167753	0.23516822	2.5994629	21	—	—
162227 1999 TS_{127}	14.7	X	284.20952	322.15035	68.86017	3.95651	0.2738740	0.12641615	3.9318869	21	7 6.1	20.2
162228 1999 TS_{132}	16.4	X	107.62539	44.08862	351.33091	3.74462	0.1832653	0.24221658	2.5487866	21	1 25.9	19.6
162229 1999 TJ_{143}	16.5	X	133.61716	181.83253	185.03231	8.84720	0.2197802	0.24247597	2.5469685	21	1 23.5	20.3
162230 1999 TS_{148}	16.7	X	109.13984	192.50671	181.64933	4.80654	0.1284948	0.24032125	2.5621699	21	—	—
162231 1999 TP_{149}	16.4	X	228.92794	322.47213	22.72347	2.43370	0.0889692	0.25176035	2.4839594	21	3 26.1	20.1
162232 1999 TC_{154}	14.6	X	261.53375	352.08556	38.96760	11.61472	0.3570955	0.12391898	3.9845336	21	6 3.6	21.1
162233 1999 TL_{173}	16.4	X	157.02574	186.16700	186.32811	7.12266	0.2336079	0.24496917	2.5296577	21	2 23.2	20.6
162234 1999 TQ_{185}	15.5	X	110.96094	18.11579	325.47190	13.30003	0.1667831	0.23721092	2.5845182	21	—	—
162235 1999 TR_{185}	16.4	X	258.17184	72.38031	355.89425	18.66604	0.1238812	0.35456211	1.9770053	21	8 29.4	18.4
162236 1999 TE_{192}	15.5	X	113.21045	350.12365	355.80205	11.91202	0.1881338	0.23686125	2.5870612	21	—	—
162237 1999 TF_{196}	16.3	X	131.74710	0.36526	10.83837	13.52837	0.2728127	0.24152739	2.5536328	21	2 9.9	20.3
162238 1999 TP_{198}	15.5	X	59.62936	21.78963	21.93095	9.64672	0.1326171	0.23397171	2.6083177	21	—	—
162239 1999 TU_{198}	16.4	X	75.35760	66.49038	345.52475	4.16909	0.3494331	0.23718031	2.5847406	21	1 24.1	18.4
162240 1999 TU_{208}	15.8	X	20.37636	104.17254	352.66989	14.31020	0.0757752	0.23613039	2.5923967	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162241 1999 TZ_{217}	16.7	X	90.70111	25.32350	350.69605	2.48237	0.1859698	0.23743728	2.5828753	21	—	—
162242 1999 TC_{219}	16.6	X	144.03195	187.89352	161.94300	4.79644	0.2185940	0.24285145	2.5443425	21	1 14.5	20.5
162243 1999 TS_{228}	16.2	X	165.96589	211.90177	163.47407	9.02606	0.3094843	0.24687237	2.5166398	21	3 12.4	20.6
162244 1999 TD_{236}	15.1	X	63.15185	79.71441	39.10824	7.35111	0.0349908	0.24632503	2.5203664	21	2 23.2	18.3
162245 1999 TT_{241}	15.9	X	106.49004	290.37179	112.97357	5.82065	0.1007513	0.24170839	2.5523578	21	1 21.4	19.0
162246 1999 TO_{248}	16.3	X	102.46375	188.71344	205.60034	13.35700	0.2805923	0.23926822	2.5696819	21	1 28.3	19.7
162247 1999 TJ_{253}	15.7	X	31.72700	345.60581	68.39584	7.24072	0.2806804	0.23240794	2.6200047	21	—	—
162248 1999 TW_{267}	15.6	X	49.60085	138.53914	276.43342	10.55556	0.1755332	0.23680631	2.5874613	21	—	—
162249 1999 TX_{277}	16.1	X	258.72426	183.60643	9.55645	5.80875	0.0746925	0.23481363	2.6020792	21	—	—
162250 1999 TK_{288}	16.3	X	21.13867	264.16111	160.42289	3.69263	0.1281707	0.23290642	2.6162650	21	—	—
162251 1999 TM_{289}	16.5	X	51.33021	232.40335	155.43063	5.00995	0.2837159	0.23270408	2.6177814	21	—	—
162252 1999 TJ_{290}	16.7	X	129.99734	230.05567	164.14517	4.75499	0.2253627	0.24327546	2.5413853	21	2 24.8	20.5
162253 1999 TQ_{297}	16.5	X	119.24285	270.27827	63.51720	5.45237	0.1402379	0.23516273	2.5995034	21	—	—
162254 1999 TC_{313}	16.3	X	187.91417	148.19731	185.10004	10.12342	0.0713284	0.24701103	2.5156979	21	1 23.5	20.1
162255 1999 TU_{313}	16.6	X	40.34385	148.44140	277.77397	2.26747	0.1115231	0.23854024	2.5749074	21	—	—
162256 1999 TR_{314}	13.9	X	252.21753	76.19305	328.79324	8.96630	0.2783341	0.12515316	3.9582952	21	6 21.2	20.2
162257 1999 TS_{314}	16.3	X	102.65461	139.88247	201.89224	5.90428	0.1258141	0.23600023	2.5933498	21	—	—
162258 1999 TY_{322}	16.7	X	155.26012	308.25291	47.02989	9.20884	0.2432667	0.24425273	2.5346020	21	2 6.9	20.9
162259 1999 UV_{9}	14.8	X	358.69236	101.92515	0.10012	27.24761	0.2803445	0.23164954	2.6257200	21	—	—
162260 1999 UB_{10}	16.9	X	70.70842	351.16870	355.22898	19.50899	0.1028674	0.36666953	1.9332418	21	—	—
162261 1999 UE_{17}	16.7	X	43.17225	228.02830	207.94140	21.17362	0.0816520	0.37306584	1.9110808	21	—	—
162262 1999 UZ_{20}	16.6	X	148.16664	207.90482	184.23986	5.52199	0.1499865	0.24686643	2.5166802	21	3 3.7	20.3
162263 1999 UB_{25}	16.7	X	92.77580	99.56862	269.52557	3.83362	0.2606376	0.23706714	2.5855631	21	—	—
162264 1999 UN_{38}	15.6	X	9.42433	136.77181	290.25265	4.22383	0.2233032	0.23196069	2.6233714	21	—	—
162265 1999 UD_{39}	15.5	X	74.66317	145.46738	265.65664	4.88866	0.2601337	0.23800653	2.5787553	21	1 3.4	17.6
162266 1999 UR_{45}	16.3	X	113.67451	81.16025	308.37469	4.48566	0.2857222	0.24121637	2.5558274	21	2 9.2	19.7
162267 1999 UC_{47}	15.7	X	145.72495	91.02246	239.75267	6.73992	0.1584107	0.23962568	2.5671258	21	—	—
162268 1999 UL_{51}	15.7	X	59.34342	316.86846	118.10957	5.95472	0.1672921	0.23764941	2.5813381	21	—	—
162269 1999 VO_{6}	17.0	X	275.61389	302.51979	206.84965	40.12011	0.7380248	0.81468509	1.1353843	21	—	—
162270 1999 VU_{7}	15.8	X	27.32101	3.19051	76.82029	3.73888	0.1649118	0.23356896	2.6113152	21	—	—
162271 1999 VC_{8}	16.0	X	125.06708	289.33468	78.59766	5.78941	0.2872993	0.23923054	2.5699517	21	1 27.9	19.7
162272 1999 VQ_{9}	15.1	X	51.22400	204.25358	222.71208	4.17448	0.2666356	0.23458138	2.6037964	21	—	—
162273 1999 VL_{12}	17.2	X	35.78331	40.95256	234.40354	20.18217	0.2362384	0.48984707	1.5937825	21	10 23.0	18.3
162274 1999 VO_{19}	16.1	X	167.49854	281.30683	66.22202	10.02182	0.2175449	0.24366772	2.5386571	21	2 5.9	20.4
162275 1999 VM_{21}	15.6	X	165.56275	148.86678	212.89879	1.10233	0.0449099	0.24360083	2.5391218	21	2 2.7	19.1
162276 1999 VC_{33}	16.5	X	61.79926	128.16657	265.41383	2.24754	0.2082471	0.23351261	2.6117353	21	—	—
162277 1999 VY_{44}	16.1	X	109.59722	132.12503	236.36799	9.75367	0.1967389	0.23937833	2.5688939	21	—	—
162278 1999 VU_{49}	16.1	X	145.86219	323.72316	40.27061	6.86717	0.2506495	0.24248094	2.5469337	21	2 9.2	20.1
162279 1999 VS_{57}	15.9	X	64.01139	346.28525	38.96504	5.01243	0.0536156	0.23393450	2.6085942	21	—	—
162280 1999 VN_{59}	14.3	X	279.15220	340.99995	34.82238	3.24491	0.2291176	0.12377901	3.9875370	21	6 17.9	20.0
162281 1999 VF_{62}	16.2	X	65.04915	130.73549	272.81476	0.35757	0.1422911	0.23573202	2.5953165	21	—	—
162282 1999 VS_{69}	16.0	X	348.98517	253.32062	208.29535	1.52859	0.0899629	0.23247780	2.6194798	21	—	—
162283 1999 VJ_{73}	17.0	X	61.69524	259.82239	183.68100	2.45904	0.2064773	0.24063009	2.5599772	21	1 14.6	19.3
162284 1999 VU_{77}	14.2	X	274.45356	350.35045	35.34132	7.87841	0.2940797	0.12386256	3.9857434	21	6 16.2	20.2
162285 1999 VT_{81}	15.6	X	97.13054	227.60991	203.62617	9.25109	0.1078513	0.24441627	2.5334712	21	2 11.2	18.9
162286 1999 VB_{102}	16.1	X	70.48984	328.97425	69.69985	3.19375	0.0578631	0.23500741	2.6006486	21	—	—
162287 1999 VN_{107}	17.2	X	89.63088	152.28997	232.44833	0.79071	0.1541017	0.23599249	2.5934065	21	—	—
162288 1999 VW_{123}	17.0	X	75.17084	170.67412	153.87753	2.11430	0.0744723	0.22677104	2.6632442	21	12 16.8	20.7
162289 1999 VJ_{124}	16.3	X	153.52288	67.88871	234.19094	2.96587	0.1320288	0.23698979	2.5861257	21	—	—
162290 1999 VG_{129}	16.2	X	89.81416	347.76297	3.63052	4.61278	0.1710572	0.23492089	2.6012871	21	—	—
162291 1999 VP_{137}	16.4	X	22.93203	154.67189	228.64852	1.48087	0.1015574	0.22766793	2.6562451	21	12 29.3	19.8
162292 1999 VO_{142}	16.3	X	68.14552	204.98353	186.98892	3.00610	0.0666866	0.23360107	2.6110759	21	—	—
162293 1999 VY_{142}	17.1	X	84.25950	30.49291	333.27106	1.69458	0.1054408	0.23476969	2.6024039	21	—	—
162294 1999 VQ_{148}	16.0	X	116.31873	118.53342	236.31659	4.07807	0.2585668	0.23927753	2.5696153	21	—	—
162295 1999 VW_{149}	16.2	X	24.81937	95.01444	277.03372	1.66592	0.1213627	0.22681195	2.6629239	21	12 20.2	19.6
162296 1999 VD_{151}	16.7	X	102.18760	40.48000	359.25028	1.67693	0.1645618	0.23921756	2.5700447	21	1 21.1	19.7
162297 1999 VU_{167}	15.6	X	28.63914	126.77801	294.48531	2.78557	0.1725018	0.23176169	2.6248729	21	—	—
162298 1999 VZ_{174}	15.4	X	129.20050	58.32827	222.34202	10.87788	0.1022618	0.22853320	2.6495361	21	12 22.4	19.5
162299 1999 VW_{180}	16.5	X	353.04563	171.92680	196.51786	21.89671	0.0911475	0.35937840	1.9593021	21	11 23.7	18.5
162300 1999 VY_{180}	16.3	X	250.90194	278.76057	198.44798	21.53077	0.0957949	0.35684858	1.9685513	21	11 5.4	18.1
162301 1999 VX_{183}	16.3	X	45.58329	220.14620	215.61267	5.03154	0.2299714	0.23517614	2.5994046	21	—	—
162302 1999 VO_{184}	15.8	X	79.10797	347.08079	58.27651	5.84339	0.1666616	0.23807005	2.5782966	21	—	—
162303 1999 VW_{186}	16.8	X	271.03254	10.94210	54.82870	23.05742	0.0786434	0.35502422	1.9752894	21	10 5.4	19.2
162304 1999 VR_{193}	16.1	X	89.79195	66.49580	314.97480	3.52536	0.2884024	0.23767180	2.5811759	21	—	—
162305 1999 VD_{194}	16.0	X	55.28253	305.36757	139.18012	1.88676	0.0771120	0.24051736	2.5607770	21	—	—
162306 1999 VE_{200}	15.6	X	139.58165	262.15749	106.11542	14.17797	0.1244960	0.24115766	2.5562422	21	1 22.5	19.1
162307 1999 VP_{213}	15.7	X	90.98457	268.29761	102.54723	13.15362	0.2515042	0.23529926	2.5984977	21	—	—
162308 1999 VL_{225}	16.8	X	66.19526	263.75049	150.12445	4.74518	0.2722006	0.23611804	2.5924871	21	—	—
162309 1999 WK_{10}	16.7	X	104.53152	185.63693	176.68071	1.05133	0.2247844	0.23861014	2.5744045	21	—	—
162310 1999 WN_{13}	16.0	X	107.01169	321.63648	91.10048	5.87658	0.2614114	0.24073083	2.5592629	21	3 2.7	19.4
162311 1999 WM_{17}	16.4	X	150.93204	154.02454	221.33403	11.41195	0.2415140	0.24574554	2.5243270	21	2 19.1	20.6
162312 1999 WG_{20}	16.2	X	46.65888	149.41983	285.51764	3.59430	0.1938118	0.23596311	2.5936217	21	—	—
162313 1999 WA_{24}	16.5	X	118.38393	234.49583	67.34018	3.29215	0.0611919	0.22910884	2.6450963	21	—	—
162314 1999 XE_{7}	14.1	X	278.55514	344.89670	50.84244	9.39528	0.2691932	0.12371349	3.9889447	21	7 6.5	19.9
162315 1999 XC_{11}	16.0	X	95.59363	46.84938	17.50991	5.93616	0.2255396	0.24117356	2.5561299	21	2 24.6	19.1
162316 1999 XY_{14}	15.9	X	96.47307	146.93363	234.30575	12.32034	0.2866123	0.23627833	2.5913145	21	1 5.5	19.0
162317 1999 XB_{23}	15.7	X	73.99308	336.78163	49.57645	15.37883	0.1940572	0.23572463	2.5953708	21	—	—
162318 1999 XQ_{25}	15.7	X	70.68720	319.99532	71.93343	10.18391	0.2003383	0.23485042	2.6018075	21	—	—
162319 1999 XS_{26}	16.2	X	61.24722	187.37380	235.02483	3.15806	0.2250844	0.23683760	2.5872335	21	—	—
162320 1999 XN_{27}	15.9	X	37.38495	249.42830	197.23402	2.48185	0.2131100	0.23540862	2.5976929	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162321 1999 XG_{30}	15.8	X	162.26490	152.25536	210.88137	5.71288	0.2732001	0.24329324	2.5412615	21	2 18.9	20.2
162322 1999 XZ_{42}	16.0	X	142.64744	33.93871	22.41638	2.10672	0.1797363	0.24628520	2.5206381	21	4 1.7	19.8
162323 1999 XA_{45}	15.8	X	91.59536	129.87307	244.19866	13.67394	0.1967872	0.23580654	2.5947697	21	—	—
162324 1999 XB_{50}	16.0	X	125.15041	291.65834	67.17047	13.90759	0.2582454	0.23872262	2.5735958	21	1 12.9	19.7
162325 1999 XC_{50}	16.5	X	44.79417	195.17083	237.12533	1.05837	0.1265809	0.23472843	2.6027088	21	—	—
162326 1999 XB_{52}	15.7	X	166.85180	350.41783	20.26995	1.65185	0.1055166	0.24356302	2.5393846	21	2 22.3	19.4
162327 1999 XA_{55}	15.5	X	90.53488	137.38903	246.58916	12.93380	0.0831553	0.23500133	2.6006935	21	—	—
162328 1999 XJ_{59}	15.8	X	27.75815	206.18730	260.79247	3.72625	0.1965634	0.23497654	2.6008764	21	—	—
162329 1999 XM_{64}	15.6	X	102.65925	295.51940	79.17908	5.38323	0.3024978	0.23716263	2.5848690	21	1 11.3	18.6
162330 1999 XW_{65}	16.3	X	161.12678	134.24870	227.07090	3.38331	0.2231414	0.24247877	2.5469489	21	2 12.9	20.5
162331 1999 XT_{66}	16.2	X	115.07393	285.94865	79.97523	5.35292	0.2500615	0.23721090	2.5845183	21	1 8.3	19.4
162332 1999 XK_{101}	15.5	X	105.27722	140.77666	295.22024	4.95141	0.2767923	0.24085087	2.5584125	21	3 27.3	19.0
162333 1999 XZ_{101}	15.0	X	145.13776	88.14838	299.56334	4.83598	0.2245598	0.24082724	2.5585799	21	3 2.4	19.0
162334 1999 XP_{103}	15.0	X	7.08393	120.06564	291.17523	11.81306	0.1756477	0.22490368	2.6779657	21	—	—
162335 1999 XN_{113}	15.4	X	59.84380	103.57833	309.36838	12.10763	0.1902865	0.23580251	2.5947993	21	—	—
162336 1999 XT_{118}	16.2	X	145.03969	293.58967	47.44841	6.89149	0.3079189	0.24035799	2.5619089	21	1 16.5	20.3
162337 1999 XK_{124}	15.3	X	58.04466	140.91706	271.82350	11.23997	0.1725686	0.23499305	2.6007545	21	—	—
162338 1999 XT_{129}	15.4	X	45.81651	349.87865	44.39349	15.26788	0.1414302	0.23027049	2.6361929	21	—	—
162339 1999 XR_{133}	15.3	X	140.90628	50.56014	301.17658	9.78607	0.2462060	0.23786069	2.5798092	21	1 18.4	19.1
162340 1999 XT_{134}	15.5	X	100.47669	272.90423	96.81797	15.44872	0.3395110	0.23687832	2.5869370	21	1 7.3	18.4
162341 1999 XV_{134}	15.4	X	28.61050	282.49721	103.60077	16.19251	0.1835810	0.22797112	2.6538895	21	—	—
162342 1999 XT_{138}	15.7	X	332.45054	268.73568	95.58018	6.74764	0.0973169	0.21369306	2.7708251	21	9 15.1	19.0
162343 1999 XG_{155}	16.3	X	99.78982	280.56631	101.93846	4.88285	0.2959374	0.23704042	2.5857574	21	1 16.2	19.1
162344 1999 XX_{159}	16.0	X	68.30197	301.28737	115.12569	5.82318	0.2997509	0.23528485	2.5986038	21	1 3.8	17.8
162345 1999 XT_{162}	15.6	X	224.23550	31.20701	117.26947	5.03737	0.0548900	0.21671756	2.7449850	21	10 27.1	19.4
162346 1999 XX_{167}	15.5	X	54.40069	132.76945	293.65683	6.65321	0.1907319	0.23485484	2.6017748	21	—	—
162347 1999 XD_{172}	15.7	X	115.97979	11.85942	25.33301	4.36444	0.2366141	0.23846033	2.5754826	21	2 17.4	19.2
162348 1999 XT_{187}	15.2	X	172.69486	324.32284	37.83051	10.49693	0.1621243	0.24291351	2.5439092	21	2 26.4	19.3
162349 1999 XH_{208}	16.5	X	75.92882	80.85042	323.35219	3.86380	0.2915113	0.23590263	2.5940651	21	1 2.6	18.6
162350 1999 XX_{212}	15.5	X	122.26329	278.57366	87.78210	16.02266	0.1542718	0.23805785	2.5783847	21	1 3.1	18.9
162351 1999 XV_{215}	15.1	X	143.71408	92.59813	303.88480	5.05819	0.2418487	0.24419751	2.5349841	21	3 12.7	19.2
162352 1999 XS_{226}	12.6	X	307.64604	35.47998	64.28993	2.28390	0.0753767	0.08260516	5.2215320	21	11 14.9	19.2
162353 1999 YX	16.3	X	92.82147	278.37828	142.90062	5.82602	0.3236890	0.24029903	2.5623279	21	3 3.2	19.3
162354 1999 YQ_{5}	15.5	X	27.89650	65.12221	343.30244	26.24807	0.3113307	0.22945232	2.6424559	21	—	—
162355 1999 YW_{5}	15.1	X	30.11637	112.59398	311.01699	29.68852	0.2577247	0.23269522	2.6178479	21	—	—
162356 1999 YA_{6}	15.0	X	357.06973	102.38914	322.87144	26.03275	0.2840054	0.22826948	2.6515765	21	—	—
162357 1999 YA_{7}	14.9	X	3.54432	73.18769	355.20106	11.17888	0.1882398	0.22720822	2.6598268	21	—	—
162358 1999 YT_{7}	16.0	X	94.45276	238.32562	85.19220	12.92277	0.2130334	0.23038967	2.6352838	21	—	—
162359 1999 YH_{22}	16.9	X	10.49771	78.75767	313.43781	1.29519	0.1887163	0.22309366	2.6924309	21	—	—
162360 2000 AH_{3}	15.2	X	339.78239	177.79086	286.42636	11.23367	0.1504769	0.22906333	2.6454467	21	—	—
162361 2000 AF_{6}	20.2	X	188.01694	200.32505	110.66284	2.69614	0.4112403	1.19948562	0.8772823	21	—	—
162362 2000 AU_{23}	15.4	X	21.18228	301.09850	88.77166	13.76120	0.1605266	0.22500613	2.6771527	21	—	—
162363 2000 AN_{34}	14.9	X	162.05754	345.33850	32.55032	4.71356	0.2712028	0.24126691	2.5554705	21	3 12.0	19.2
162364 2000 AB_{70}	16.0	X	67.22297	303.97877	109.51649	8.63104	0.1940411	0.23510266	2.5999462	21	—	—
162365 2000 AK_{77}	15.6	X	136.81506	259.92135	128.78374	6.42313	0.1238366	0.23969257	2.5666481	21	2 14.4	19.2
162366 2000 AD_{83}	15.6	X	143.34947	207.09253	170.68513	4.61506	0.2346711	0.23971596	2.5664812	21	2 18.9	19.5
162367 2000 AJ_{101}	15.6	X	77.22650	276.67540	137.10298	3.90558	0.2468649	0.23773932	2.5806872	21	1 10.8	17.9
162368 2000 AV_{101}	15.7	X	26.53300	301.84520	143.62046	6.03124	0.2191868	0.23402440	2.6079261	21	—	—
162369 2000 AZ_{112}	15.8	X	129.71032	222.08890	181.15490	4.79054	0.3009017	0.24132460	2.5550632	21	3 16.4	19.9
162370 2000 AE_{119}	16.1	X	99.82120	251.95475	181.02188	2.93141	0.1873395	0.23820609	2.5773148	21	3 5.7	19.4
162371 2000 AY_{145}	15.4	X	68.80379	144.45837	280.38323	4.90998	0.2650034	0.23907017	2.5711009	21	1 10.9	17.3
162372 2000 AG_{149}	16.4	X	102.17083	197.45131	198.63259	6.34582	0.3087287	0.23793836	2.5792478	21	2 5.8	19.7
162373 2000 AR_{155}	15.5	X	163.05245	1.95966	18.91796	0.69272	0.1608362	0.24344142	2.5402302	21	3 7.1	19.2
162374 2000 AC_{175}	15.6	X	282.78178	321.19661	180.81046	6.40251	0.2335200	0.22329712	2.6907952	21	12 10.7	18.6
162375 2000 AK_{180}	15.5	X	116.29514	173.40312	240.70980	7.40457	0.3462957	0.24108301	2.5567699	21	3 19.5	19.5
162376 2000 AE_{191}	15.0	X	86.28649	189.00734	216.79749	11.91729	0.1479246	0.23457514	2.6038426	21	1 1.1	18.1
162377 2000 AL_{196}	15.5	X	333.43961	249.69559	196.42757	6.09215	0.2041058	0.22316840	2.6918297	21	—	—
162378 2000 AF_{201}	15.7	X	293.82979	295.76688	148.83806	9.29629	0.1693165	0.21978714	2.7193672	21	10 23.8	18.9
162379 2000 AF_{202}	15.1	X	59.37170	162.08271	230.13792	15.29111	0.1579876	0.23093777	2.6311125	21	—	—
162380 2000 AW_{225}	12.7	X	45.25530	32.97068	306.10560	2.54808	0.0342865	0.08163615	5.2627697	21	10 29.8	19.6
162381 2000 AM_{226}	15.6	X	56.44408	329.24485	304.77775	3.42289	0.0245076	0.21154848	2.7895198	21	9 8.8	19.4
162382 2000 AA_{254}	15.6	X	42.06993	1.40911	302.28911	2.82268	0.0823109	0.21292419	2.7774913	21	10 6.6	19.2
162383 2000 BN_{2}	15.1	X	5.29068	83.51064	359.53607	21.88362	0.0687813	0.22717878	2.6600566	21	—	—
162384 2000 BC_{6}	15.2	X	85.44682	9.68680	40.95789	12.76578	0.2558011	0.23562644	2.5960917	21	1 29.4	18.2
162385 2000 BM_{19}	18.5	X	351.59132	247.59359	70.33422	6.88830	0.3586884	1.54662457	0.7405359	21	—	—
162386 2000 BA_{26}	15.5	X	342.27320	110.65111	322.51861	7.59098	0.1837498	0.22257441	2.6966167	21	—	—
162387 2000 BN_{37}	15.9	X	337.27279	201.90481	114.03005	1.07729	0.1268669	0.20617556	2.8377748	21	7 10.4	19.1
162388 2000 BK_{39}	12.4	X	27.57255	240.40373	132.72502	4.21997	0.1266500	0.08216747	5.2400580	21	11 26.1	18.9
162389 2000 CE_{4}	16.4	X	348.48706	198.51788	261.37469	1.88622	0.2604943	0.22770192	2.6559807	21	—	—
162390 2000 CD_{13}	15.6	X	334.29339	158.53185	260.15862	2.99218	0.1513717	0.21995042	2.7180213	21	11 30.4	18.4
162391 2000 CZ_{43}	15.5	X	321.89003	172.58120	298.70515	8.28246	0.1836372	0.22282944	2.6945588	21	—	—
162392 2000 CG_{45}	15.7	X	309.11717	266.83186	170.42082	8.86170	0.2374051	0.21802053	2.7340374	21	11 1.4	18.3
162393 2000 CM_{81}	15.2	X	224.70470	280.53386	326.13085	23.56480	0.3146616	0.17501573	3.1653227	21	—	—
162394 2000 CW_{95}	15.7	X	128.58255	97.49140	133.03540	5.36143	0.0276331	0.21338564	2.7734856	21	10 18.5	19.6
162395 2000 CY_{108}	16.0	X	315.79403	35.69898	348.25385	1.13983	0.0920540	0.21109614	2.7935033	21	9 11.1	19.4
162396 2000 CV_{120}	12.8	X	352.56595	304.48553	110.04471	3.12558	0.0482127	0.08214269	5.2411118	21	11 21.9	19.6
162397 2000 CC_{135}	15.7	X	303.69603	2.37160	322.22108	17.03953	0.1364045	0.20045730	2.8914884	21	5 22.7	19.9
162398 2000 DP_{7}	15.7	X	279.63047	270.21484	152.41041	13.50127	0.1549975	0.21135264	2.7912427	21	8 30.4	19.3
162399 2000 DN_{10}	15.7	X	281.47190	121.30667	325.17063	11.76870	0.1264530	0.21444517	2.7643427	21	10 2.6	19.5
162400 2000 DR_{22}	15.2	X	59.79749	229.61981	149.21631	13.13366	0.2815784	0.22602478	2.6691031	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162401 2000 DK_{33}	15.8	X	169.24845	317.50861	174.17240	2.61312	0.1390057	0.20372806	2.8604574	21	7 30.2	20.4
162402 2000 DZ_{38}	16.1	X	69.54361	224.01229	193.93421	2.67348	0.3522281	0.23266976	2.6180389	21	1 19.5	17.9
162403 2000 DA_{41}	15.8	X	233.82503	158.04267	334.54425	4.78328	0.2315250	0.21298395	2.7769718	21	9 23.3	20.0
162404 2000 DP_{60}	14.7	X	319.43198	66.94239	155.51334	12.40572	0.1436303	0.18520501	3.0481352	21	2 6.3	18.8
162405 2000 DH_{78}	15.5	X	273.01139	136.52762	337.26933	9.24962	0.1021359	0.21409488	2.7673570	21	10 31.7	19.3
162406 2000 DV_{93}	15.3	X	269.14798	116.06854	342.15080	12.27206	0.1200175	0.21403235	2.7678960	21	10 3.1	19.0
162407 2000 DF_{94}	15.8	X	140.24754	184.55289	341.94286	14.04744	0.0919321	0.20393751	2.8584985	21	8 15.5	20.1
162408 2000 DM_{94}	15.5	X	342.18031	54.72813	348.88171	10.74885	0.1089915	0.21667846	2.7453152	21	11 17.7	18.9
162409 2000 DK_{102}	15.9	X	69.86726	17.05910	71.47032	4.65928	0.2649998	0.23414045	2.6070644	21	2 22.6	18.3
162410 2000 DE_{104}	14.8	X	248.69026	112.84906	122.71170	6.83248	0.1285195	0.17749495	3.1357785	21	—	—
162411 2000 DM_{111}	15.5	X	118.05833	319.71385	201.76155	1.35477	0.0117159	0.20023844	2.8935950	21	7 1.9	19.5
162412 2000 DF_{113}	15.4	X	354.06996	227.95238	147.63076	10.18148	0.2490916	0.21632877	2.7482730	21	11 20.2	18.0
162413 2000 EK_{2}	15.4	X	282.71742	100.24704	168.58024	9.79881	0.0924108	0.18701327	3.0284548	21	2 25.3	19.7
162414 2000 EL_{2}	16.2	X	272.39580	236.06100	207.67900	1.24406	0.1960068	0.21197256	2.7857980	21	9 10.3	19.9
162415 2000 EY_{2}	15.1	X	339.14184	207.77654	171.56582	8.12017	0.2176052	0.21149002	2.7900338	21	10 15.4	17.5
162416 2000 EH_{26}	21.7	X	135.72034	19.12982	215.20699	0.39888	0.4784261	0.39056669	1.8535569	21	11 20.8	25.5
162417 2000 EA_{30}	14.6	X	221.02330	82.65629	147.81058	23.26196	0.2087027	0.17334905	3.1855792	21	—	—
162418 2000 ER_{46}	15.4	X	134.32156	332.94533	179.45202	1.79620	0.0760346	0.19829365	2.9124837	21	7 17.0	19.6
162419 2000 EA_{67}	15.4	X	23.78400	129.18658	27.40355	1.26351	0.0970043	0.18515122	3.0487256	21	2 25.4	18.9
162420 2000 EU_{69}	15.4	X	345.16006	23.01658	185.62048	6.73429	0.1333104	0.18501033	3.0502731	21	2 26.8	19.1
162421 2000 ET_{70}	18.0	X	187.45747	46.09851	331.14277	22.32406	0.1237568	1.07008782	0.9466507	21	—	—
162422 2000 EV_{70}	20.6	X	69.20377	314.52363	108.93039	1.39921	0.5309868	0.74299945	1.2072866	21	—	—
162423 2000 EK_{88}	15.0	X	17.94289	308.71007	267.39473	9.00704	0.0489004	0.19331433	2.9622839	21	4 30.6	19.0
162424 2000 EE_{113}	15.3	X	259.75135	315.14925	342.07079	7.98125	0.2393106	0.18554024	3.0444625	21	2 22.8	20.4
162425 2000 EF_{136}	15.5	X	220.18697	347.01263	18.68279	4.21585	0.0228062	0.19035277	2.9929302	21	4 20.1	19.7
162426 2000 EP_{143}	15.3	X	283.89294	94.82675	160.26668	11.28127	0.1128185	0.18486782	3.0518406	21	2 7.6	19.8
162427 2000 EH_{162}	15.6	X	0.93075	50.50484	166.08408	13.14251	0.0250367	0.19080620	2.9881867	21	4 13.3	19.7
162428 2000 EP_{162}	15.6	X	290.68911	289.88995	341.37517	10.25532	0.0918351	0.18751989	3.0229978	21	3 9.4	19.8
162429 2000 EM_{165}	15.5	X	215.91147	36.49894	356.95390	13.34978	0.0213012	0.19499696	2.9452183	21	5 15.8	20.0
162430 2000 EQ_{193}	16.1	X	299.50754	299.95065	284.34713	0.83673	0.1684132	0.18169846	3.0872269	21	1 13.9	20.7
162431 2000 FV_{4}	14.6	X	244.41448	221.61920	192.46242	17.01007	0.1045093	0.19994926	2.8963843	21	7 9.5	19.2
162432 2000 FR_{5}	15.4	X	147.98455	190.26757	233.70984	0.71218	0.0718173	0.18855543	3.0119194	21	4 11.6	19.8
162433 2000 FK_{10}	19.3	X	100.10143	247.00182	41.67081	13.94060	0.4814873	0.62229285	1.3587498	21	—	—
162434 2000 FA_{34}	15.2	X	271.56702	54.79153	178.45634	17.30856	0.1797288	0.17771556	3.1331829	21	—	—
162435 2000 FO_{52}	15.9	X	222.74133	271.43119	27.31577	1.75380	0.1774555	0.17808983	3.1287916	21	1 29.8	21.0
162436 2000 FX_{52}	15.8	X	357.50246	340.19937	323.36737	4.34644	0.0938652	0.20263115	2.8707712	21	7 30.4	19.1
162437 2000 FH_{59}	14.9	X	297.76914	331.66116	109.37666	10.39401	0.3366098	0.21467901	2.7623349	21	9 28.9	17.9
162438 2000 GF_{3}	16.6	X	144.99039	294.71739	21.16349	6.56378	0.2847383	0.30827498	2.1702538	21	—	—
162439 2000 GD_{5}	15.3	X	299.90888	61.34528	158.75268	17.32129	0.1718830	0.18109983	3.0940265	21	1 8.6	20.1
162440 2000 GR_{8}	15.8	X	275.87157	269.32031	172.02653	7.59169	0.2003098	0.21104819	2.7939264	21	9 11.4	19.5
162441 2000 GO_{23}	14.8	X	248.14741	265.81327	18.12909	15.92778	0.2057606	0.17897959	3.1184135	21	2 7.1	20.2
162442 2000 GU_{39}	15.2	X	128.73068	5.94692	24.69143	2.65254	0.0503221	0.18041035	3.1019044	21	2 8.1	19.5
162443 2000 GF_{40}	17.2	X	162.00038	247.93801	30.87426	1.97122	0.1991246	0.30672066	2.1775796	21	—	—
162444 2000 GP_{63}	15.5	X	76.37594	102.72385	43.13491	5.23514	0.0431334	0.18817250	3.0160042	21	4 23.8	19.6
162445 2000 GV_{63}	15.0	X	171.28555	335.36039	27.48459	10.29923	0.1046696	0.18045105	3.1014381	21	3 1.5	19.9
162446 2000 GT_{83}	15.3	X	347.39683	28.13031	146.67280	8.90207	0.1648116	0.18308019	3.0716742	21	1 15.5	19.2
162447 2000 GJ_{118}	16.0	X	355.59710	310.79745	305.83979	1.04499	0.0569272	0.19657652	2.9294199	21	5 23.3	19.8
162448 2000 GW_{152}	14.8	X	311.97837	240.26182	4.13970	16.16713	0.1701557	0.18314984	3.0708953	21	2 26.4	19.1
162449 2000 GC_{156}	15.0	X	228.42352	288.28391	2.64297	11.80501	0.2022652	0.17685765	3.1433072	21	1 28.1	20.4
162450 2000 GA_{159}	14.6	X	268.96878	244.20580	11.86562	16.45960	0.0487075	0.18032231	3.1029140	21	2 8.4	19.3
162451 2000 GB_{180}	15.2	X	304.36272	243.06978	27.28343	11.86816	0.1105275	0.18564948	3.0432682	21	3 26.8	19.5
162452 2000 HO_{14}	18.3	X	57.10684	53.85642	217.42317	5.46160	0.4476662	0.28984537	2.2613015	21	11 13.2	21.8
162453 2000 HU_{17}	15.0	X	155.68565	117.96519	222.03091	11.12198	0.0614277	0.17429810	3.1740051	21	1 8.9	19.8
162454 2000 HO_{24}	14.6	X	317.46809	167.13046	38.40824	16.88782	0.0422567	0.17840388	3.1251187	21	2 6.5	19.3
162455 2000 HL_{28}	14.4	X	309.68699	67.98669	160.60591	27.09527	0.1440160	0.18078281	3.0976425	21	2 2.1	19.0
162456 2000 HA_{35}	14.8	X	342.48873	44.69244	155.06771	10.42969	0.1226821	0.18310401	3.0714077	21	2 13.9	18.8
162457 2000 HO_{35}	14.8	X	248.03589	109.34136	175.47851	16.21546	0.2151615	0.17771071	3.1332399	21	1 30.0	20.2
162458 2000 HK_{48}	17.5	X	159.29530	315.19442	284.66419	0.74826	0.1917760	0.30150058	2.2026422	21	12 10.9	21.0
162459 2000 HO_{50}	16.2	X	115.89932	124.27227	210.95391	6.11624	0.2301138	0.30491914	2.1861481	21	—	—
162460 2000 HX_{69}	14.9	X	247.63317	241.90088	8.05375	9.11885	0.0661026	0.17605690	3.1528309	21	1 2.5	19.8
162461 2000 HS_{94}	17.1	X	92.18595	77.52939	222.58442	4.48960	0.1940702	0.29777880	2.2209572	21	12 26.8	20.5
162462 2000 HV_{103}	15.0	X	246.75787	176.22214	152.18009	10.78856	0.0649708	0.18588834	3.0406606	21	4 5.2	19.6
162463 2000 JH_{5}	17.7	X	227.50872	353.50989	80.19945	22.21494	0.2382037	0.80376038	1.1456492	21	7 8.1	17.4
162464 2000 JR_{60}	14.5	X	310.90256	161.14023	49.39669	20.90885	0.0706884	0.17728183	3.1382911	21	1 31.1	19.3
162465 2000 JU_{81}	17.2	X	134.16380	265.49197	46.98054	3.93352	0.1747865	0.30706937	2.1759307	21	—	—
162466 Margon	15.3	X	329.27188	122.44452	158.32268	0.95487	0.0887251	0.19244222	2.9712268	21	5 13.9	19.1
162467 2000 KJ_{20}	17.0	X	73.54638	196.18493	77.12761	2.63939	0.2259757	0.29221214	2.2490747	21	11 8.3	20.2
162468 2000 KW_{23}	14.0	X	223.98666	101.36851	238.48377	14.97412	0.2472621	0.17832281	3.1260658	21	3 9.9	19.7
162469 2000 KK_{40}	15.0	X	152.53191	309.11723	58.48546	8.23400	0.2636091	0.17461349	3.1701819	21	2 28.8	20.5
162470 2000 KX_{43}	19.3	X	55.28273	31.78334	83.75085	35.26967	0.5530379	0.83983580	1.1126019	21	—	—
162471 2000 KK_{60}	14.6	X	256.56131	54.53286	228.67339	26.05621	0.1004208	0.17783220	3.1318127	21	2 5.9	19.9
162472 2000 LL	19.1	X	289.39576	66.86960	245.65108	31.85730	0.1183249	0.69793974	1.2587054	21	1 15.4	20.6
162473 2000 LA_{16}	17.3	X	67.36180	182.40105	150.93640	5.69581	0.2968821	0.29670299	2.2263226	21	—	—
162474 2000 LB_{16}	18.4	X	27.62612	285.25150	80.86057	50.71021	0.3574537	0.71305193	1.2408576	21	—	—
162475 2000 MV_{4}	16.3	X	359.45193	244.07899	88.58041	4.83724	0.2363880	0.28469413	2.2884972	21	10 12.6	17.8
162476 2000 NC_{21}	16.0	X	58.50938	136.51330	138.91608	6.67803	0.1679837	0.28646690	2.2790459	21	10 18.9	18.9
162477 2000 NV_{28}	16.4	X	21.32894	67.63347	289.24706	7.23427	0.1558583	0.29048753	2.2579677	21	12 15.4	18.8
162478 2000 OT_{9}	16.9	X	65.28988	110.27365	198.01538	2.53550	0.2147213	0.29069930	2.2568709	21	12 12.9	20.0
162479 2000 OH_{31}	16.2	X	23.12505	104.78741	225.38444	4.56554	0.2206865	0.28707776	2.2758118	21	11 20.6	18.5
162480 2000 OL_{36}	16.6	X	355.69333	189.93775	154.50430	6.83386	0.1370846	0.28543066	2.2845586	21	10 10.4	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162481 2000 OM_{56}	17.2	X	17.39667	298.87563	5.45302	5.08685	0.2226061	0.28395189	2.2924834	21	9 30.9	19.0
162482 2000 ON_{59}	16.9	X	129.47462	103.54294	226.78749	0.59291	0.1195005	0.30088265	2.2056569	21	—	—
162483 2000 PJ_{5}	17.4	X	11.47157	7.64603	124.41741	51.18290	0.3736956	1.20889602	0.8727237	21	—	—
162484 2000 PD_{10}	16.0	X	66.34437	292.04108	22.83127	7.11877	0.1418067	0.29001473	2.2604211	21	12 13.4	19.1
162485 2000 PA_{14}	16.3	X	190.81794	264.51116	293.66668	7.80177	0.1172220	0.29548182	2.2324524	21	11 21.9	19.6
162486 2000 PN_{14}	16.6	X	54.28543	16.55283	291.49693	6.45850	0.1229643	0.28993873	2.2608160	21	11 16.3	19.5
162487 2000 PF_{15}	16.7	X	8.05126	39.49790	318.98974	7.04795	0.1305119	0.28883492	2.2665723	21	11 19.4	19.1
162488 2000 PV_{19}	16.5	X	335.89723	354.48241	26.09222	6.14771	0.1369894	0.28543908	2.2845137	21	10 23.9	18.1
162489 2000 PX_{19}	16.4	X	12.08166	30.21406	339.05572	7.42699	0.1633915	0.28868008	2.2673828	21	12 19.5	18.9
162490 2000 PA_{21}	16.2	X	8.19650	98.51778	301.48757	6.25535	0.0720957	0.29426075	2.2386240	21	—	—
162491 2000 PV_{23}	16.2	X	1.10870	194.13735	133.04341	10.37308	0.2604033	0.28314475	2.2968380	21	10 13.7	17.9
162492 2000 QA_{2}	15.9	X	234.06787	289.87951	161.35105	26.11778	0.2528171	0.27736555	2.3286330	21	8 2.9	19.9
162493 2000 QY_{7}	16.0	X	14.03235	67.87693	303.52381	3.89579	0.1856027	0.28825943	2.2695880	21	12 29.5	18.4
162494 2000 QA_{8}	16.3	X	335.97329	49.65247	320.49195	3.39035	0.1185022	0.28326341	2.2961966	21	10 4.8	18.2
162495 2000 QV_{17}	17.3	X	16.99600	150.21106	141.15350	6.10755	0.1693588	0.28196108	2.3032616	21	8 31.4	19.1
162496 2000 QH_{26}	16.1	X	255.36997	21.84074	1.02221	6.64304	0.1385478	0.27111346	2.3642968	21	6 7.0	19.4
162497 2000 QW_{26}	16.0	X	314.18100	111.46304	312.03511	5.10711	0.1506779	0.28719096	2.2752138	21	11 13.7	17.8
162498 2000 QH_{32}	16.6	X	7.77574	286.96394	23.43897	5.94346	0.1728541	0.28222010	2.3018521	21	9 13.9	18.3
162499 2000 QZ_{33}	16.3	X	22.72526	83.82875	237.23232	5.66342	0.1624941	0.28536433	2.2849126	21	10 25.7	18.5
162500 2000 QE_{38}	16.5	X	119.61023	298.77694	331.99520	4.52477	0.1525763	0.29364279	2.2417636	21	12 12.8	19.9
162501 2000 QH_{38}	17.3	X	344.56057	343.49036	343.03583	1.81675	0.1609344	0.28127366	2.3070128	21	8 13.6	19.0
162502 2000 QL_{38}	16.3	X	124.06730	124.45734	143.83636	5.17243	0.0887018	0.29315945	2.2442270	21	12 13.6	19.4
162503 2000 QF_{41}	16.3	X	89.25763	309.09654	313.62485	5.83209	0.0867028	0.28749795	2.2735938	21	10 22.9	19.5
162504 2000 QM_{43}	16.1	X	87.30227	325.43274	324.17231	6.56967	0.1285929	0.29063160	2.2572214	21	12 1.9	19.4
162505 2000 QP_{48}	16.3	X	63.64779	164.80290	156.01225	7.12287	0.1451779	0.29055119	2.2576379	21	12 19.7	19.5
162506 2000 QC_{49}	16.7	X	35.81167	244.70962	148.16430	2.00275	0.2107384	0.29327705	2.2436270	21	—	—
162507 2000 QE_{60}	16.5	X	291.90561	252.12921	130.22996	9.99333	0.0853510	0.28003325	2.3138204	21	8 7.7	18.9
162508 2000 QA_{65}	16.0	X	246.65724	329.54973	88.16324	7.72307	0.1759287	0.27535223	2.3399701	21	7 11.7	19.3
162509 2000 QV_{66}	16.8	X	344.68946	281.01212	34.80087	3.45722	0.1880020	0.27913798	2.3187651	21	7 25.3	18.3
162510 2000 QW_{69}	17.5	X	78.76689	220.70001	344.34385	38.15085	0.3021054	0.61048217	1.3762185	21	9 9.6	18.2
162511 2000 QP_{73}	16.8	X	274.05954	32.23361	333.17125	3.26138	0.1534927	0.27498370	2.3420603	21	6 4.3	20.0
162512 2000 QT_{80}	16.1	X	112.03462	88.81329	171.66243	4.57176	0.1790945	0.28959482	2.2626056	21	11 24.6	19.6
162513 2000 QQ_{86}	16.3	X	322.81752	94.30556	294.49422	6.56950	0.0962207	0.28435228	2.2903309	21	10 6.4	18.6
162514 2000 QR_{97}	16.5	X	320.10589	334.96875	36.24093	2.79552	0.1889723	0.28042034	2.3116906	21	8 30.5	18.2
162515 2000 QK_{99}	15.8	X	285.44001	262.78499	161.11935	11.81732	0.1585661	0.28093571	2.3088626	21	9 17.9	18.0
162516 2000 QX_{106}	16.5	X	111.70716	8.36720	239.12352	6.07121	0.1173390	0.28865787	2.2674990	21	11 2.6	19.6
162517 2000 QA_{107}	15.2	X	294.98922	153.73322	181.43611	10.28306	0.1015246	0.18057806	3.0999836	21	6 4.9	19.6
162518 2000 QR_{108}	16.5	X	347.69906	296.36976	19.75541	6.76149	0.1442640	0.27969169	2.3157038	21	8 6.3	18.4
162519 2000 QX_{113}	16.9	X	296.45483	10.69145	340.73985	2.65634	0.1951569	0.27596039	2.3365310	21	6 9.0	19.5
162520 2000 QR_{119}	16.3	X	28.56905	25.41384	289.97571	6.16500	0.1364117	0.28385125	2.2930253	21	10 20.0	18.9
162521 2000 QA_{121}	16.1	X	239.22542	147.49290	298.94572	6.47654	0.0643551	0.27853277	2.3221228	21	8 24.6	19.0
162522 2000 QR_{122}	16.4	X	328.31415	37.75824	335.03694	7.79698	0.2227167	0.28090196	2.3090475	21	9 16.9	17.7
162523 2000 QQ_{125}	16.5	X	297.34057	74.21044	304.97221	5.78280	0.1298672	0.27883192	2.3204616	21	8 3.8	19.0
162524 2000 QT_{125}	16.3	X	304.61475	24.02346	310.87900	6.44925	0.1401375	0.27547543	2.3392725	21	6 6.8	18.9
162525 2000 QK_{127}	16.3	X	299.10130	34.07503	351.74557	2.84066	0.2678697	0.27748727	2.3279519	21	7 23.9	18.7
162526 2000 QV_{131}	16.4	X	319.56888	35.08147	336.63744	6.35627	0.2023650	0.27933629	2.3176676	21	8 26.6	17.8
162527 2000 QO_{134}	16.5	X	344.01048	45.76864	356.01840	4.07180	0.1899121	0.28836471	2.2690356	21	12 20.9	18.3
162528 2000 QT_{134}	16.3	X	34.19415	43.00958	358.03940	6.70826	0.1453028	0.29545906	2.2325671	21	—	—
162529 2000 QE_{141}	16.9	X	356.71524	180.64220	132.21341	3.21702	0.1801840	0.27932951	2.3177051	21	8 20.3	18.4
162530 2000 QV_{141}	15.9	X	58.69941	282.08451	11.59344	7.77380	0.2423882	0.28631287	2.2798633	21	11 17.6	19.1
162531 2000 QW_{142}	15.8	X	329.18853	338.02151	23.23353	7.02660	0.1433716	0.28002066	2.3138898	21	9 9.8	17.7
162532 2000 QC_{146}	16.3	X	330.61698	320.84097	36.71732	5.97515	0.1688423	0.28018393	2.3129908	21	9 5.6	18.0
162533 2000 QW_{146}	16.4	X	4.65369	281.55183	13.07135	5.07668	0.1314296	0.27844802	2.3225940	21	8 6.6	18.4
162534 2000 QR_{157}	16.3	X	312.98887	175.71887	205.19846	7.01121	0.2320515	0.28109788	2.3079745	21	8 17.9	18.2
162535 2000 QN_{158}	16.4	X	4.46815	145.59100	263.63452	6.96064	0.0897210	0.29238932	2.2481660	21	—	—
162536 2000 QB_{161}	16.4	X	74.46401	63.32043	244.04942	7.36875	0.1355513	0.29154085	2.2525258	21	12 12.9	19.3
162537 2000 QP_{164}	16.1	X	256.46567	161.11388	271.75329	5.09120	0.1484174	0.27990137	2.3145471	21	8 15.8	19.0
162538 2000 QQ_{164}	16.5	X	358.75184	141.34519	246.28918	4.79447	0.1705993	0.28814656	2.2701807	21	12 24.7	18.5
162539 2000 QA_{166}	16.4	X	30.10207	18.06964	298.75222	6.71159	0.0807983	0.28481785	2.2878344	21	10 15.0	19.0
162540 2000 QZ_{167}	15.7	X	218.87706	179.92368	259.35472	4.37607	0.1242956	0.27575629	2.3376838	21	7 14.4	19.2
162541 2000 QY_{170}	16.8	X	332.62302	122.10836	222.34823	4.25577	0.1581674	0.27994408	2.3143117	21	8 13.2	18.8
162542 2000 QX_{174}	16.9	X	315.23112	147.96818	188.37677	6.80714	0.1491133	0.27749932	2.3278845	21	6 26.4	19.3
162543 2000 QC_{177}	17.1	X	66.00209	117.44757	210.15658	2.69538	0.1288154	0.29118188	2.2543767	21	12 28.9	20.2
162544 2000 QF_{187}	16.3	X	77.69688	224.46614	52.77453	5.86937	0.1570439	0.28836915	2.2690123	21	11 9.4	19.4
162545 2000 QR_{205}	16.6	X	339.97413	190.37267	161.47562	5.09186	0.1253396	0.28125939	2.3070908	21	9 15.7	18.4
162546 2000 QM_{207}	16.1	X	190.94857	122.69563	303.66557	1.51727	0.1836421	0.26877964	2.3779632	21	5 28.1	19.8
162547 2000 QR_{208}	16.2	X	358.60097	339.15663	14.90542	6.50924	0.1654644	0.28337673	2.2955844	21	10 30.5	18.2
162548 2000 QH_{212}	17.2	X	355.63796	300.60163	4.25288	2.60952	0.2147743	0.27998998	2.3140588	21	8 4.6	18.3
162549 2000 QT_{213}	16.6	X	238.56563	59.25546	358.68669	4.65229	0.2139129	0.27432153	2.3458277	21	6 29.4	20.2
162550 2000 QF_{217}	16.7	X	40.25568	213.83468	82.97805	3.29123	0.1663399	0.28386832	2.2929333	21	10 21.4	19.3
162551 2000 QS_{226}	15.9	X	327.62267	253.84380	170.61248	23.08664	0.3194830	0.28720787	2.2751245	21	—	—
162552 2000 QC_{251}	15.8	X	356.56611	264.88415	88.71440	9.62149	0.2024983	0.28487850	2.2875096	21	11 6.0	17.6
162553 2000 RH_{12}	16.0	X	171.99008	208.82697	285.16002	6.12261	0.1034750	0.27625062	2.3348942	21	8 6.2	19.3
162554 2000 RK_{13}	16.0	X	284.99477	86.67535	325.12316	6.40400	0.0939911	0.28049883	2.3112593	21	9 6.7	18.5
162555 2000 RZ_{14}	16.4	X	280.74965	190.14852	231.10933	7.06552	0.2238004	0.28017914	2.3130171	21	8 19.9	19.2
162556 2000 RW_{16}	16.0	X	1.53221	77.45444	267.60995	5.64205	0.1355312	0.28380566	2.2932708	21	10 17.0	18.1
162557 2000 RP_{20}	15.8	X	356.07394	106.23739	228.66953	5.72723	0.1208381	0.28167965	2.3047955	21	9 18.1	17.9
162558 2000 RF_{21}	16.5	X	262.41144	150.02769	254.57557	5.23866	0.1820081	0.27600508	2.3362788	21	7 10.5	19.6
162559 2000 RY_{21}	16.3	X	25.60252	56.81884	230.32317	5.09231	0.1607346	0.28053323	2.3110704	21	9 5.8	18.5
162560 2000 RJ_{23}	16.5	X	335.03124	174.31457	228.80684	4.32316	0.1704421	0.28504543	2.2866165	21	11 30.1	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162561 2000 RT_{24}	16.3	X	20.23106	10.27318	291.85888	5.01038	0.1083324	0.28141985	2.3062138	21	9 11.2	18.7
162562 2000 RA_{27}	17.3	X	288.97328	105.85561	268.57923	4.94326	0.2831640	0.27639250	2.3340951	21	6 17.2	20.0
162563 2000 RU_{27}	15.7	X	10.17038	25.38012	308.40082	11.90691	0.0417230	0.28330391	2.2959777	21	9 29.4	18.6
162564 2000 RO_{31}	15.9	X	71.48156	97.54372	229.37038	4.05065	0.2300908	0.29100018	2.2553150	21	—	—
162565 2000 RU_{31}	16.1	X	207.70099	115.71995	295.14179	4.83370	0.1601627	0.26908152	2.3761844	21	5 23.3	19.9
162566 2000 RJ_{34}	15.7	X	261.79506	145.34364	329.89170	14.28279	0.5758291	0.23086400	2.6316729	21	8 24.1	20.1
162567 2000 RW_{37}	19.9	X	243.27776	133.28538	333.30533	13.74851	0.2501302	0.70720807	1.2476839	21	—	—
162568 2000 RF_{38}	16.9	X	278.52031	196.25755	159.09765	2.81952	0.1756872	0.27287138	2.3541315	21	5 24.9	20.1
162569 2000 RT_{41}	16.3	X	332.02462	46.22642	300.26620	5.77460	0.1632481	0.27875657	2.3208798	21	8 15.6	18.0
162570 2000 RA_{45}	15.9	X	240.36623	31.58629	340.33605	7.95291	0.1288187	0.26861290	2.3789472	21	5 4.8	19.6
162571 2000 RE_{59}	16.9	X	32.99550	346.90087	306.52571	2.00814	0.1844732	0.28125109	2.3071362	21	10 4.9	19.1
162572 2000 RT_{60}	16.1	X	349.16571	71.96776	273.42113	5.08073	0.2144713	0.28250859	2.3002848	21	9 26.3	17.6
162573 2000 RT_{63}	17.0	X	335.09349	102.30311	243.59655	3.59118	0.1805616	0.28026929	2.3125211	21	8 20.3	18.7
162574 2000 RT_{65}	16.6	X	311.02669	263.05020	133.85779	3.15461	0.2288295	0.27977026	2.3152702	21	9 15.4	18.0
162575 2000 RY_{77}	16.9	X	23.99873	98.14932	207.48839	3.05343	0.2321428	0.28341835	2.2953596	21	10 17.7	18.9
162576 2000 RR_{87}	16.3	X	223.19103	228.53021	195.34304	4.46273	0.1410755	0.27333501	2.3514687	21	6 27.1	19.7
162577 2000 RR_{90}	16.1	X	282.41177	101.92216	268.70192	5.22760	0.1260605	0.27488692	2.3426100	21	6 28.5	18.8
162578 2000 RJ_{92}	16.1	X	233.68590	88.16003	306.76385	3.81929	0.1661996	0.27019095	2.3696754	21	5 27.9	19.6
162579 2000 SE_{5}	15.8	X	325.78960	343.61957	31.62357	21.63996	0.1668541	0.28156264	2.3054340	21	10 1.7	17.9
162580 2000 SU_{6}	16.4	X	78.78645	347.64443	300.75174	5.93385	0.1169468	0.28943302	2.2634488	21	11 19.1	19.5
162581 2000 SA_{10}	18.6	X	190.30303	248.18006	200.34025	15.88908	0.3518081	0.45787407	1.6671398	21	6 21.3	21.7
162582 2000 SH_{12}	15.9	X	89.39386	33.55739	355.25910	5.62049	0.1471496	0.30175418	2.2014079	21	—	—
162583 2000 SD_{14}	16.0	X	65.95408	14.91063	243.08772	9.67580	0.1696514	0.28434052	2.2903941	21	9 26.9	19.1
162584 2000 SS_{29}	17.3	X	285.54246	344.48391	36.44748	2.82906	0.2186096	0.27671899	2.3322588	21	7 2.9	20.1
162585 2000 SN_{30}	16.8	X	279.34430	55.56869	0.60039	3.29232	0.1491052	0.27972313	2.3155303	21	8 27.9	19.2
162586 2000 SE_{31}	16.1	X	304.09935	255.23301	169.42231	6.32745	0.1673719	0.28368570	2.2939173	21	10 26.3	17.9
162587 2000 SE_{34}	16.5	X	169.93955	292.38138	142.24215	3.53267	0.1430987	0.26711907	2.3878083	21	5 19.3	20.1
162588 2000 ST_{34}	16.6	X	267.13935	31.31252	12.69873	3.36157	0.1597201	0.27664955	2.3326491	21	7 20.9	19.5
162589 2000 SH_{35}	16.6	X	249.30585	28.35154	44.31118	2.53664	0.1937075	0.27674855	2.3320927	21	8 2.9	19.9
162590 2000 SY_{38}	17.2	X	358.52197	164.59147	160.19833	6.17797	0.2706095	0.28116689	2.3075968	21	9 28.4	18.2
162591 2000 SF_{40}	16.8	X	358.57007	294.53559	53.12446	6.26872	0.1961607	0.28242066	2.3007622	21	10 27.3	18.4
162592 2000 SO_{43}	16.2	X	346.51831	187.41509	152.43667	6.84053	0.1600379	0.27885725	2.3203211	21	9 10.9	17.9
162593 2000 SY_{47}	15.9	X	320.64694	157.14143	213.89879	7.23756	0.2027015	0.28102171	2.3083915	21	8 24.1	17.6
162594 2000 SE_{61}	16.7	X	289.30987	261.56526	115.94810	2.66407	0.2236711	0.27626486	2.3348140	21	7 2.2	19.4
162595 2000 SX_{62}	16.3	X	9.43607	70.92419	201.45486	5.16225	0.1969575	0.27668847	2.3324303	21	7 10.7	17.9
162596 2000 SG_{64}	17.1	X	336.28834	319.28882	4.99064	2.23779	0.2020829	0.27791134	2.3255831	21	7 16.0	18.5
162597 2000 SJ_{66}	16.5	X	236.34705	246.68569	184.55069	5.84445	0.1409659	0.27495458	2.3422257	21	7 20.9	19.9
162598 2000 SP_{67}	17.2	X	291.76296	211.22976	164.78899	2.29789	0.1421006	0.27651030	2.3334321	21	7 18.1	19.7
162599 2000 SR_{68}	17.0	X	322.87839	296.44457	17.64797	5.37278	0.1659619	0.27460338	2.3442223	21	6 1.9	19.4
162600 2000 SV_{71}	16.1	X	238.50007	358.42136	19.47268	6.53260	0.1270691	0.26958601	2.3732190	21	5 12.6	19.6
162601 2000 SB_{72}	16.3	X	284.04814	212.21451	157.73388	6.72993	0.1432775	0.27441986	2.3452673	21	6 26.9	19.1
162602 2000 SD_{73}	16.6	X	278.29243	260.43386	105.77429	2.66793	0.1529329	0.27327553	2.3518099	21	6 11.9	19.6
162603 2000 SJ_{74}	16.5	X	313.07035	282.13390	136.53652	5.49589	0.2000748	0.28238745	2.3009426	21	11 3.9	18.0
162604 2000 SM_{74}	16.4	X	21.93226	230.83361	72.15482	6.36960	0.2237947	0.28120614	2.3073821	21	10 11.5	18.5
162605 2000 ST_{74}	17.1	X	315.40629	202.15893	154.83202	3.63497	0.2397779	0.27753178	2.3277030	21	7 14.2	19.1
162606 2000 SR_{77}	16.7	X	260.92363	234.46649	182.22326	6.55707	0.0883765	0.27752885	2.3277194	21	8 8.5	19.6
162607 2000 SV_{80}	17.0	X	316.68716	257.27846	149.44894	0.96300	0.1909945	0.28247347	2.3004755	21	10 21.7	18.6
162608 2000 SD_{90}	15.8	X	5.53584	84.01083	238.60165	10.99936	0.1423232	0.28262690	2.2996428	21	9 16.8	18.1
162609 2000 SH_{93}	16.3	X	345.79359	132.80768	219.54230	9.02475	0.2551530	0.28223656	2.3017626	21	10 4.0	17.3
162610 2000 SF_{98}	16.7	X	8.76296	9.97963	288.11749	2.14474	0.2256460	0.27997701	2.3141303	21	8 29.1	18.1
162611 2000 SN_{99}	16.3	X	293.77478	148.92017	229.63236	4.64141	0.1376677	0.27696604	2.3308717	21	7 24.9	19.0
162612 2000 SX_{99}	16.6	X	261.19262	122.28700	289.38100	1.77220	0.0552752	0.27655287	2.3331927	21	8 8.4	19.3
162613 2000 SE_{102}	17.1	X	336.91004	339.19091	344.17530	4.09277	0.1537575	0.27735630	2.3286847	21	7 21.6	19.0
162614 2000 SJ_{103}	16.3	X	205.01700	142.79656	303.47470	1.41659	0.1649733	0.27199667	2.3591759	21	7 7.3	19.8
162615 2000 SO_{103}	15.9	X	171.02114	141.72430	356.21192	7.78791	0.1156113	0.27479743	2.3431186	21	8 14.3	19.3
162616 2000 SU_{104}	16.7	X	290.97783	37.55912	1.84103	2.27081	0.2173606	0.27798643	2.3251643	21	8 9.3	19.0
162617 2000 SP_{107}	16.7	X	329.16600	95.81493	281.89044	0.78646	0.2127023	0.28112908	2.3078037	21	10 1.1	18.1
162618 2000 SA_{111}	16.8	X	11.51971	137.56638	168.71765	2.90889	0.1649591	0.27937673	2.3174439	21	9 11.3	18.7
162619 2000 SK_{114}	16.1	X	349.47843	284.40515	38.40124	4.84620	0.1381210	0.27780614	2.3261702	21	8 21.1	18.1
162620 2000 SP_{114}	16.7	X	268.71178	237.94108	179.70869	2.79368	0.1847889	0.27638835	2.3341185	21	8 6.0	19.5
162621 2000 SD_{118}	16.6	X	308.06386	241.82081	161.47343	2.49636	0.2091493	0.27993707	2.3143504	21	9 21.4	18.3
162622 2000 SZ_{118}	16.7	X	350.39070	294.34635	58.78033	3.26338	0.1846741	0.28109606	2.3079844	21	10 15.4	18.2
162623 2000 SH_{119}	16.2	X	22.59391	109.98463	180.87807	4.50718	0.2415144	0.27945874	2.3169905	21	9 22.9	18.1
162624 2000 SP_{121}	16.6	X	250.34171	314.72378	107.33135	3.23542	0.1888614	0.27387744	2.3483629	21	7 20.2	19.8
162625 2000 SR_{127}	15.9	X	257.94413	228.83006	184.47778	12.52369	0.1562647	0.27303564	2.3531873	21	7 19.1	19.3
162626 2000 SH_{129}	17.1	X	354.64909	68.74527	222.11383	1.59386	0.2137887	0.27718903	2.3296215	21	7 3.8	18.5
162627 2000 SR_{135}	16.1	X	169.34572	178.47837	277.86632	5.47656	0.0723452	0.27025448	2.3693040	21	6 12.9	19.4
162628 2000 SO_{138}	16.4	X	324.59351	327.50076	350.06638	8.99869	0.1415854	0.27462684	2.3440888	21	6 15.5	18.9
162629 2000 SU_{139}	16.1	X	247.47010	226.61493	247.84976	5.07169	0.0563563	0.28221621	2.3018733	21	10 17.0	18.9
162630 2000 SC_{146}	16.6	X	13.71173	71.57110	235.30207	1.52792	0.2337372	0.28043830	2.3115919	21	9 27.7	18.2
162631 2000 SN_{146}	17.1	X	280.78389	92.56325	309.89788	1.62264	0.2259670	0.27643686	2.3338454	21	7 26.1	19.6
162632 2000 SA_{147}	16.6	X	253.56205	200.99541	210.86689	3.24979	0.1447624	0.27409643	2.3471119	21	7 14.9	19.9
162633 2000 SQ_{151}	16.0	X	256.92985	33.02087	27.49449	6.95334	0.1327753	0.27507534	2.3415402	21	8 6.1	19.1
162634 2000 SH_{158}	16.6	X	276.99613	2.98513	52.47635	3.73633	0.1672768	0.27663417	2.3327355	21	8 20.9	19.3
162635 2000 SS_{164}	16.4	X	336.08626	312.23231	153.42352	7.87672	0.5145403	0.23903879	2.5713260	21	—	—
162636 2000 SG_{169}	15.9	X	321.18620	101.69797	255.54165	5.30598	0.1581689	0.27745977	2.3281058	21	8 8.4	18.0
162637 2000 SM_{173}	15.8	X	87.25676	352.63244	263.53434	11.11297	0.1991106	0.28420962	2.2910973	21	10 23.1	19.3
162638 2000 ST_{175}	16.4	X	335.97708	61.13218	297.42411	5.92206	0.1348592	0.27904618	2.3192736	21	9 13.4	18.4
162639 2000 SV_{176}	16.3	X	197.16835	129.49246	290.35656	5.67385	0.0768632	0.26710240	2.3879076	21	5 26.2	19.6
162640 2000 SM_{178}	16.2	X	202.18581	64.88805	345.29005	5.23561	0.2471475	0.26614029	2.3936591	21	5 15.1	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162641 2000 SB_{179}	16.3	X	222.20183	38.07308	13.98703	11.99008	0.2437824	0.26879205	2.3778901	21	6 1.8	20.5
162642 2000 SC_{191}	16.3	X	249.19066	337.94289	138.03667	4.67389	0.1156474	0.28317146	2.2966936	21	10 16.1	19.0
162643 2000 SA_{198}	16.5	X	20.95964	281.19141	4.14838	6.45525	0.1085910	0.27885802	2.3203168	21	8 22.5	18.8
162644 2000 SZ_{204}	16.6	X	82.64512	95.00713	219.10811	2.24640	0.1857225	0.29004676	2.2602547	21	—	—
162645 2000 SV_{207}	17.0	X	303.59316	312.85760	11.87497	2.59316	0.1736549	0.27242554	2.3566993	21	5 15.1	19.8
162646 2000 SJ_{208}	16.4	X	326.75562	220.02879	142.38654	7.10912	0.1470021	0.27792181	2.3255247	21	9 3.6	18.2
162647 2000 SM_{216}	16.3	X	354.94504	221.95036	133.50728	5.95082	0.1854068	0.28217693	2.3020869	21	11 1.1	18.2
162648 2000 ST_{218}	16.0	X	356.29238	226.70083	106.91421	7.50222	0.2267135	0.28021191	2.3128368	21	10 5.3	17.6
162649 2000 SF_{220}	16.3	X	24.40769	233.00142	121.47945	7.47376	0.1457993	0.28504451	2.2866214	21	12 14.3	18.9
162650 2000 SS_{222}	16.2	X	179.50802	220.20131	260.99727	4.57303	0.1098935	0.27438997	2.3454377	21	7 28.2	19.6
162651 2000 SU_{228}	16.6	X	290.29241	105.98052	210.56605	2.28807	0.1615926	0.26937860	2.3744370	21	4 17.6	19.5
162652 2000 SW_{229}	16.5	X	247.30293	8.29238	52.05748	2.82969	0.2033895	0.27335388	2.3513605	21	7 12.9	20.0
162653 2000 SM_{230}	16.8	X	304.36652	95.20420	222.98449	0.81709	0.1974161	0.27133384	2.3630164	21	5 3.4	19.6
162654 2000 SY_{232}	15.7	X	329.16861	332.59195	10.00616	24.30466	0.1760639	0.27615836	2.3354142	21	8 19.1	18.3
162655 2000 SN_{235}	16.5	X	54.78582	272.76746	2.45874	6.48483	0.1052894	0.28232964	2.3012567	21	9 29.5	19.2
162656 2000 SB_{242}	17.0	X	304.71040	317.95694	103.65151	2.14349	0.2038091	0.28366705	2.2940178	21	10 17.2	18.5
162657 2000 SJ_{244}	16.4	X	294.07008	344.56237	95.15403	3.72874	0.1273294	0.28488084	2.2874971	21	11 3.1	18.4
162658 2000 SK_{244}	16.8	X	331.06981	199.20323	167.43507	7.32535	0.1314686	0.28192520	2.3034571	21	9 21.1	18.7
162659 2000 SJ_{247}	16.6	X	315.35810	275.28589	116.65043	4.36450	0.0992236	0.28167271	2.3048334	21	10 3.6	18.8
162660 2000 SJ_{248}	17.0	X	15.08890	163.64290	123.14464	3.31675	0.2140231	0.27990841	2.3145083	21	8 25.7	18.4
162661 2000 SG_{253}	16.3	X	251.51546	97.47154	349.28829	7.11544	0.1014732	0.27988176	2.3146553	21	9 7.9	19.1
162662 2000 SF_{257}	16.1	X	35.33654	230.03433	52.39299	6.33174	0.1575621	0.27945389	2.3170173	21	9 22.2	18.5
162663 2000 SS_{257}	16.8	X	236.78981	202.39691	228.77614	1.94440	0.1781662	0.27390280	2.3482179	21	7 18.1	20.1
162664 2000 SE_{258}	16.2	X	348.25775	105.13436	179.32910	7.06384	0.1309234	0.27275044	2.3548274	21	6 12.6	18.5
162665 2000 SZ_{259}	16.1	X	180.41582	199.98674	244.73422	2.29668	0.1298250	0.26746074	2.3857743	21	6 11.1	19.7
162666 2000 SS_{263}	16.4	X	171.77034	148.16072	334.31361	5.25644	0.0796155	0.27509438	2.3414321	21	7 23.5	19.7
162667 2000 SN_{267}	16.6	X	211.17413	291.62242	146.11397	2.98418	0.1857256	0.27089082	2.3655921	21	6 30.7	20.3
162668 2000 SM_{268}	16.8	X	298.18504	303.84768	104.14961	3.22720	0.2089388	0.27876315	2.3208432	21	9 8.4	18.8
162669 2000 SS_{277}	16.6	X	323.80935	140.51511	214.74061	1.97105	0.1658057	0.27721602	2.3294702	21	8 11.5	18.6
162670 2000 SQ_{280}	16.0	X	283.43035	82.94133	302.88956	3.24617	0.1539568	0.27456951	2.3444151	21	7 18.0	18.6
162671 2000 SV_{287}	15.9	X	178.48522	106.24142	337.72141	11.56857	0.2297789	0.26501916	2.4004051	21	6 8.5	20.2
162672 2000 SR_{299}	16.4	X	307.35840	135.62531	240.29217	4.58316	0.1405239	0.27820842	2.3239273	21	8 13.2	18.8
162673 2000 SF_{304}	16.3	X	325.72400	29.94413	292.86323	6.30210	0.1422307	0.27514006	2.3411729	21	6 26.9	18.3
162674 2000 SF_{305}	16.2	X	178.70496	91.46429	316.05635	5.04557	0.1748669	0.26387106	2.4073628	21	4 20.6	20.1
162675 2000 SW_{327}	16.2	X	202.47771	136.56093	281.03190	3.52239	0.1609050	0.26736800	2.3863260	21	5 27.6	19.8
162676 2000 SO_{368}	17.3	X	338.83049	345.14832	17.35044	2.99298	0.1784517	0.28248348	2.3004211	21	10 1.6	18.9
162677 2000 SA_{372}	16.8	X	259.33600	273.70810	144.92052	3.00191	0.1770724	0.27510020	2.3413991	21	7 27.6	19.7
162678 2000 SE_{372}	16.5	X	263.07375	44.16828	284.35119	5.21456	0.1468360	0.26594223	2.3948474	21	4 1.1	20.1
162679 2000 TK_{1}	17.8	X	149.61082	167.36626	13.01476	29.23248	0.5716935	0.75016770	1.1995835	21	10 7.1	19.1
162680 2000 TY_{12}	16.8	X	351.62871	67.39348	221.25634	2.46752	0.1473828	0.27423621	2.3463143	21	6 25.2	18.5
162681 2000 TU_{13}	16.9	X	237.59269	10.24999	356.42430	1.03449	0.1279691	0.26766046	2.3845873	21	4 27.9	20.2
162682 2000 TL_{15}	16.7	X	178.30546	113.13258	339.90796	1.73069	0.1516063	0.26825548	2.3810599	21	6 20.2	20.4
162683 2000 TP_{39}	16.3	X	20.44876	210.99227	91.33847	7.46372	0.1597311	0.28180323	2.3041216	21	9 27.9	18.6
162684 2000 TC_{51}	16.8	X	278.87280	277.12689	117.42507	6.38344	0.2445721	0.27534672	2.3400014	21	7 8.6	19.6
162685 2000 TK_{59}	15.4	X	351.60985	12.97110	40.02490	27.23656	0.2390557	0.28663921	2.2781325	21	—	—
162686 2000 TO_{65}	17.0	X	290.17443	356.64471	265.66584	0.93227	0.1303753	0.26168838	2.4207304	21	2 9.6	20.3
162687 2000 UH_{1}	18.7	X	351.94923	41.00181	76.14476	14.77282	0.5437383	0.38391123	1.8749175	21	—	—
162688 2000 UJ_{4}	16.2	X	253.11486	269.83073	111.99436	5.11652	0.1349031	0.27032410	2.3688972	21	6 5.1	19.4
162689 2000 UN_{4}	16.4	X	182.47046	331.48145	85.06703	3.69066	0.1842671	0.26394547	2.4069103	21	5 9.1	20.2
162690 2000 UK_{5}	16.4	X	259.53561	187.85010	210.78202	6.82496	0.2102690	0.27167289	2.3610500	21	6 25.2	19.8
162691 2000 UN_{6}	16.9	X	6.74069	256.15071	135.49898	0.47631	0.2367938	0.28639264	2.2794399	21	—	—
162692 2000 UJ_{8}	16.7	X	302.13484	155.51346	219.87894	3.65184	0.2389909	0.27605832	2.3359784	21	7 16.7	18.9
162693 2000 UN_{10}	16.3	X	2.52602	327.77445	50.99535	6.31474	0.1750042	0.28380022	2.2933001	21	12 17.5	18.5
162694 2000 UH_{11}	19.6	X	346.79827	187.39470	29.78400	32.22520	0.4223644	1.21395644	0.8702967	21	—	—
162695 2000 UL_{11}	20.1	X	224.33151	152.01206	333.21337	2.19297	0.6353389	0.31841412	2.1239347	21	8 15.8	24.5
162696 2000 UK_{12}	16.6	X	259.16781	313.05742	33.52345	2.16874	0.2041958	0.26718571	2.3874112	21	4 17.8	20.1
162697 2000 UO_{18}	16.1	X	239.09803	108.54756	321.59371	6.12093	0.1035936	0.27189124	2.3597857	21	7 29.4	19.2
162698 2000 UN_{30}	18.2	X	275.32085	271.82891	66.23154	20.69241	0.4877216	0.31957324	2.1187959	21	4 5.4	22.5
162699 2000 US_{30}	16.8	X	292.01803	257.47908	209.57646	3.66021	0.0714907	0.28564180	2.2834327	21	12 14.4	19.0
162700 2000 UZ_{38}	16.7	X	302.38198	319.91880	55.27903	3.31963	0.1817956	0.27607151	2.3359040	21	7 30.0	18.9
162701 2000 UL_{42}	16.6	X	120.58068	306.46059	135.23322	1.76589	0.1613136	0.25807988	2.4432427	21	4 7.5	19.8
162702 2000 UT_{43}	16.4	X	240.31860	158.55792	223.03389	3.14479	0.1595062	0.26799443	2.3826058	21	5 18.6	19.8
162703 2000 UW_{51}	16.5	X	324.27417	92.35825	262.80674	2.26902	0.2012349	0.27659497	2.3329559	21	8 7.7	18.1
162704 2000 UR_{63}	16.4	X	150.64479	107.75866	322.13471	3.36189	0.1709740	0.26133916	2.4228864	21	4 23.3	20.2
162705 2000 UB_{66}	14.3	X	212.87852	18.60591	20.81987	3.27296	0.1706440	0.12369431	3.9893570	21	5 19.7	20.6
162706 2000 UY_{68}	15.9	X	195.60140	136.61389	279.32857	4.77396	0.1075648	0.26603088	2.3943153	21	5 18.8	19.4
162707 2000 UW_{69}	16.4	X	305.76032	27.19852	348.26626	3.05380	0.1409228	0.27618558	2.3352608	21	8 12.5	18.7
162708 2000 UR_{70}	16.4	X	261.99640	309.47361	17.32551	6.08327	0.1404541	0.26510727	2.3998732	21	4 1.7	19.8
162709 2000 UE_{71}	15.7	X	104.55473	198.90604	20.97533	7.67652	0.0506939	0.27530852	2.3402178	21	9 13.3	18.7
162710 2000 UU_{72}	16.3	X	190.10660	64.11864	20.52923	6.83210	0.1326101	0.26795434	2.3828435	21	6 20.8	20.0
162711 2000 UA_{78}	15.8	X	235.48046	271.77709	41.91239	9.76690	0.0571758	0.25798754	2.4438257	21	2 26.3	19.3
162712 2000 UY_{85}	17.1	X	249.15120	232.50551	156.15506	2.33811	0.2181329	0.27066769	2.3668920	21	5 31.8	20.7
162713 2000 UY_{95}	16.1	X	166.01484	47.72900	9.61923	6.99491	0.1057580	0.26181564	2.4199459	21	4 18.2	19.5
162714 2000 UN_{96}	15.9	X	302.60028	23.49831	345.83985	4.74647	0.0412098	0.27380855	2.3487568	21	8 12.5	18.6
162715 2000 UN_{99}	16.6	X	177.97440	67.91887	346.14741	3.83362	0.1466890	0.26262501	2.4149714	21	4 28.4	20.3
162716 2000 UT_{100}	16.0	X	248.42344	55.97617	269.54084	5.57156	0.1601490	0.26207409	2.4183547	21	3 12.3	19.8
162717 2000 UH_{102}	16.4	X	283.28439	60.03858	258.51050	10.62900	0.2515739	0.26788450	2.3832576	21	3 26.4	20.3
162718 2000 UW_{103}	15.8	X	162.33372	91.92699	324.14927	5.58643	0.1336762	0.25983745	2.4322127	21	4 13.4	19.6
162719 2000 UY_{103}	16.3	X	338.43524	337.01586	1.29992	5.49497	0.2165664	0.27566652	2.3381913	21	8 17.4	17.6
162720 2000 UR_{110}	15.9	X	274.70609	256.71331	99.45335	7.43822	0.1761997	0.26945959	2.3739612	21	5 22.4	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162721 2000 UC_{114}	16.4	X	196.61639	271.06636	155.75225	2.11992	0.1509590	0.26677561	2.3898573	21	6 3.9	20.2
162722 2000 VD	16.6	X	242.40563	182.44948	232.51680	4.40823	0.2180244	0.27215612	2.3582544	21	6 28.2	20.1
162723 2000 VM_{2}	17.6	X	222.20857	187.33973	329.81781	6.39243	0.6815592	0.41688961	1.7746879	21	9 19.7	21.2
162724 2000 VW_{2}	16.4	X	234.66630	28.08598	20.70429	2.91155	0.1876662	0.26898590	2.3767474	21	6 15.1	19.9
162725 2000 VT_{11}	16.4	X	210.13301	192.37854	200.82128	3.91089	0.0878005	0.26513509	2.3997053	21	5 6.3	19.7
162726 2000 VR_{12}	16.4	X	293.92525	145.39798	172.54275	2.30497	0.2137136	0.26900980	2.3766067	21	4 17.2	19.3
162727 2000 VO_{14}	16.5	X	280.19437	212.69842	117.51486	3.26608	0.2292147	0.26855734	2.3792753	21	4 16.7	19.8
162728 2000 VY_{14}	16.6	X	220.11106	277.10946	105.54118	4.22669	0.1829438	0.26548158	2.3976168	21	4 30.5	20.4
162729 2000 VU_{16}	16.9	X	220.07061	274.64929	130.20882	3.02842	0.2099635	0.26734818	2.3864439	21	5 26.7	20.7
162730 2000 VO_{17}	16.3	X	285.62947	292.51400	79.75038	5.82433	0.1628459	0.27245574	2.3565251	21	6 29.6	19.0
162731 2000 VG_{22}	16.1	X	313.03422	84.16712	243.28605	3.38312	0.1374166	0.27190808	2.3596883	21	6 11.1	18.5
162732 2000 VK_{23}	16.9	X	225.61976	8.30936	24.65155	3.13365	0.2232128	0.26755267	2.3852278	21	5 14.4	20.9
162733 2000 VH_{34}	16.0	X	288.34496	288.31403	80.08483	5.64832	0.2447714	0.27243069	2.3566696	21	6 13.9	19.0
162734 2000 VH_{48}	16.2	X	331.20238	26.60963	297.49199	1.59782	0.2209392	0.27351695	2.3504259	21	6 28.9	17.8
162735 2000 VL_{48}	16.9	X	207.76846	116.63348	312.12997	1.29153	0.1920546	0.26735381	2.3864104	21	6 15.6	20.5
162736 2000 VD_{52}	16.2	X	231.30192	113.76835	302.60583	3.72525	0.1663642	0.27011665	2.3701099	21	6 23.9	19.8
162737 2000 VP_{53}	16.2	X	357.87510	102.00086	252.67011	5.73171	0.1506816	0.28037446	2.3119428	21	10 27.1	18.2
162738 2000 VG_{55}	17.2	X	273.36191	23.83711	11.67765	2.50742	0.2163234	0.27340704	2.3510557	21	7 7.7	20.1
162739 2000 WS	14.8	X	338.82691	143.23680	358.73555	27.53762	0.1530957	0.24392185	2.5368935	21	—	—
162740 2000 WF_{6}	18.4	X	119.50762	159.11572	264.33105	39.20062	0.5031804	0.25567765	2.4585226	21	4 10.7	23.5
162741 2000 WG_{6}	17.3	X	304.94952	330.05024	60.75509	11.84618	0.4995494	0.27923390	2.3182341	21	6 25.3	20.0
162742 2000 WV_{14}	16.6	X	241.74303	348.89766	37.95588	5.38865	0.1713185	0.26745333	2.3858184	21	5 25.1	20.3
162743 2000 WN_{15}	16.0	X	240.07616	339.78859	71.16563	6.29254	0.2289380	0.26771933	2.3842378	21	6 19.8	19.7
162744 2000 WA_{18}	16.6	X	19.27381	295.35574	36.59505	3.44275	0.1777179	0.28059370	2.3107384	21	11 7.4	18.8
162745 2000 WT_{18}	16.2	X	265.71539	133.34284	254.95870	4.15657	0.2409431	0.27108385	2.3644690	21	6 14.6	19.7
162746 2000 WJ_{24}	16.0	X	143.12753	301.96786	199.17698	10.39266	0.1688053	0.26615634	2.3935629	21	7 17.5	19.9
162747 2000 WH_{28}	16.0	X	226.42321	347.03220	106.05104	13.81931	0.1378371	0.27279434	2.3545747	21	8 12.4	19.5
162748 2000 WG_{30}	15.9	X	243.58153	272.59456	91.19926	7.28214	0.1421710	0.26607211	2.3940680	21	5 2.5	19.5
162749 2000 WF_{42}	16.5	X	188.11392	211.39974	230.99988	5.82419	0.2075580	0.26635289	2.3923852	21	6 15.6	20.4
162750 2000 WY_{42}	17.0	X	256.39493	258.67907	121.02759	2.99763	0.2347450	0.26993808	2.3711550	21	5 25.7	20.7
162751 2000 WZ_{46}	16.8	X	240.59694	250.74461	163.53774	2.25610	0.1934212	0.27033344	2.3688426	21	6 28.1	20.3
162752 2000 WF_{48}	15.9	X	232.59028	278.85617	122.78454	5.51330	0.2141086	0.26670713	2.3902663	21	6 2.8	19.8
162753 2000 WO_{55}	14.6	X	345.36754	50.57557	96.43205	12.77130	0.1240732	0.24075411	2.5590980	21	—	—
162754 2000 WP_{56}	16.0	X	192.86079	200.79217	237.53608	5.46503	0.1011393	0.26694653	2.3888371	21	6 15.9	19.3
162755 Spacesora	16.5	X	213.95159	230.97883	147.54437	5.25148	0.1208778	0.26179025	2.4201024	21	4 21.8	20.1
162756 2000 WT_{82}	16.8	X	219.86406	110.59118	321.14802	2.31691	0.2112248	0.26877703	2.3779786	21	6 29.8	20.6
162757 2000 WP_{87}	16.5	X	255.01978	78.58461	351.62069	3.15406	0.2611581	0.27121303	2.3637181	21	7 28.1	19.8
162758 2000 WA_{96}	16.5	X	182.87901	324.13779	83.84934	3.77892	0.2256290	0.26155901	2.4215285	21	4 30.0	20.5
162759 2000 WV_{101}	16.3	X	194.27848	291.99218	126.22072	6.57122	0.1255934	0.26616735	2.3934969	21	5 22.9	20.0
162760 2000 WZ_{108}	16.3	X	190.13526	37.80917	34.65440	5.51063	0.2084234	0.26518901	2.3993800	21	6 3.8	20.4
162761 2000 WG_{110}	16.4	X	243.82638	112.55136	294.06478	4.30490	0.2327518	0.27006629	2.3704045	21	6 17.5	20.0
162762 2000 WN_{115}	16.1	X	246.03533	349.05951	56.28705	6.62949	0.1625208	0.26914375	2.3758181	21	6 25.2	19.4
162763 2000 WY_{115}	16.3	X	194.97170	103.17979	328.34240	1.96294	0.1696552	0.26477254	2.4018954	21	6 7.8	20.0
162764 2000 WJ_{117}	16.0	X	247.09292	6.92363	354.80343	4.92347	0.2081756	0.26434312	2.4044959	21	4 23.8	19.9
162765 2000 WO_{120}	16.2	X	120.62579	355.07281	73.40734	12.96849	0.1419889	0.25312726	2.4750089	21	3 25.9	19.8
162766 2000 WU_{127}	16.6	X	245.15353	136.26772	236.18615	1.83393	0.2016249	0.26615558	2.3935674	21	5 7.7	20.1
162767 2000 WD_{135}	15.1	X	124.11844	99.61385	344.98918	10.40105	0.2118563	0.25536208	2.4605476	21	4 16.9	18.8
162768 2000 WC_{138}	16.4	X	296.85589	238.34928	76.70435	2.18183	0.1958421	0.26832971	2.3806207	21	4 19.9	19.3
162769 2000 WJ_{155}	16.2	X	355.74820	33.87357	322.85257	6.15365	0.1502334	0.28021931	2.3127961	21	10 24.1	18.3
162770 2000 WS_{156}	16.3	X	157.92891	91.14230	306.62026	5.76155	0.1112022	0.25728898	2.4482472	21	3 14.4	19.9
162771 2000 WP_{169}	16.2	X	217.42579	273.05318	124.89751	7.72747	0.1257043	0.26629193	2.3927503	21	5 20.8	19.8
162772 2000 WX_{175}	15.5	X	233.49575	21.29742	27.07619	11.10604	0.2720352	0.26564145	2.3966548	21	6 5.6	19.6
162773 2000 WJ_{191}	16.4	X	230.97902	170.68941	178.76457	5.88922	0.1572458	0.26375792	2.4080512	21	3 29.3	20.0
162774 2000 XV_{1}	16.1	X	158.02745	163.87583	273.37238	5.36015	0.0804027	0.25895073	2.4377619	21	5 3.8	19.6
162775 2000 XG_{6}	15.8	X	352.38585	22.88784	339.93499	7.16011	0.1417640	0.27899259	2.3195707	21	10 25.5	17.9
162776 2000 XO_{11}	16.3	X	251.43901	96.95630	310.10819	6.71045	0.1807713	0.27061835	2.3671797	21	7 2.3	19.7
162777 2000 XV_{23}	13.8	X	209.82238	141.72176	293.23701	10.59448	0.2686714	0.12414656	3.9796626	21	6 24.2	20.5
162778 2000 XJ_{26}	16.1	X	207.41047	35.82309	37.76026	12.52439	0.1475017	0.26615225	2.3935874	21	6 22.8	20.0
162779 2000 XE_{30}	15.6	X	211.65578	27.24923	3.13256	9.85711	0.2373406	0.26243686	2.4161256	21	4 26.9	19.8
162780 2000 XJ_{38}	15.5	X	266.75457	86.45252	326.46223	21.59225	0.3236321	0.27110275	2.3643591	21	7 14.2	19.3
162781 2000 XL_{44}	17.7	X	54.37450	163.86322	332.02536	10.04533	0.4274690	0.29710837	2.2242971	21	4 11.4	18.4
162782 2000 XS_{47}	16.3	X	292.73376	19.57264	22.00644	9.04303	0.2040267	0.27590436	2.3368473	21	8 22.3	18.8
162783 2000 YJ_{11}	20.7	X	261.47138	339.11856	64.94021	7.26296	0.2322020	0.65474810	1.3134692	21	6 30.7	20.4
162784 2000 YQ_{15}	16.0	X	234.46920	1.60942	40.75678	4.05048	0.2849666	0.26631410	2.3926175	21	5 30.3	20.0
162785 2000 YA_{17}	15.6	X	295.63211	267.53276	112.12270	22.51590	0.2966881	0.27686505	2.3314385	21	7 2.9	18.4
162786 2000 YT_{21}	16.0	X	202.39333	343.68246	54.80725	13.44626	0.2891455	0.26203400	2.4186013	21	5 3.8	20.4
162787 2000 YB_{22}	15.1	X	311.69091	83.24912	67.06431	5.66289	0.1904595	0.23770710	2.5809204	21	—	—
162788 2000 YR_{31}	16.2	X	110.25882	331.22709	310.90744	5.43398	0.0563328	0.22853362	2.6495329	21	12 1.9	20.1
162789 2000 YF_{33}	16.0	X	285.27480	247.05008	127.69656	7.00873	0.3031475	0.27027117	2.3692064	21	6 10.8	19.2
162790 2000 YJ_{35}	16.3	X	272.95360	297.40075	103.05333	6.05341	0.2205922	0.27209401	2.3586132	21	7 13.2	19.4
162791 2000 YC_{42}	16.5	X	218.48951	297.54484	132.90465	2.86950	0.1965973	0.26637444	2.3922562	21	6 27.5	20.2
162792 2000 YX_{43}	16.4	X	161.76484	104.92495	321.55081	2.05675	0.1588657	0.25864646	2.4396734	21	4 29.9	20.1
162793 2000 YY_{43}	16.5	X	276.86536	282.87786	123.62105	2.58996	0.2939631	0.27284698	2.3542719	21	7 15.3	19.3
162794 2000 YC_{48}	16.6	X	256.35184	291.06593	97.42645	2.25250	0.1893496	0.26735376	2.3864107	21	6 10.9	20.0
162795 2000 YF_{52}	16.2	X	264.78629	121.85360	297.79870	4.49891	0.2201988	0.27153344	2.3618583	21	7 29.5	19.2
162796 2000 YA_{69}	13.4	X	207.03565	355.05235	80.82156	8.84884	0.1349866	0.12426990	3.9770290	21	6 27.8	19.5
162797 2000 YR_{74}	16.3	X	200.11931	226.04389	171.86114	2.88692	0.2143728	0.26245346	2.4160236	21	5 1.1	20.3
162798 2000 YV_{79}	16.4	X	176.43478	320.61747	110.34103	3.87758	0.1738821	0.26203190	2.4186142	21	5 21.9	20.2
162799 2000 YH_{80}	16.2	X	117.11378	163.47790	309.83474	1.70683	0.1671408	0.25785510	2.4446625	21	5 15.2	19.7
162800 2000 YT_{82}	16.2	X	212.93828	199.08500	184.03063	2.66547	0.1873201	0.26293248	2.4130883	21	4 23.5	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162801 2000 YV_{91}	15.9	X	164.79346	30.93759	77.71802	2.83324	0.1703092	0.26244409	2.4160812	21	6 28.2	19.6
162802 2000 YK_{120}	15.9	X	144.48512	63.54314	5.74669	5.47922	0.1645778	0.25530328	2.4609254	21	4 16.5	19.4
162803 2000 YG_{133}	16.0	X	223.74757	167.68180	303.47091	1.25053	0.2871773	0.26678510	2.3898006	21	8 17.4	19.9
162804 2000 YV_{136}	15.6	X	56.17395	291.13690	142.26388	13.72715	0.1592557	0.24401071	2.5362776	21	—	—
162805 2001 AR	12.2	X	297.06456	320.35637	130.74274	25.21439	0.1116069	0.08312440	5.1997646	21	10 28.0	19.1
162806 2001 AY_{10}	15.8	X	240.88739	128.38695	271.08828	5.63662	0.1164443	0.26426544	2.4049671	21	6 16.5	19.0
162807 2001 AN_{12}	15.8	X	251.84895	101.39275	273.39421	6.17402	0.2439309	0.26416662	2.4055668	21	5 12.5	19.7
162808 2001 AS_{12}	15.9	X	310.91124	231.17174	153.83343	7.62131	0.2722332	0.27368393	2.3494697	21	8 13.9	17.8
162809 2001 AW_{34}	15.7	X	254.49264	200.57367	325.94789	4.34488	0.1407163	0.23319448	2.6141101	21	12 15.3	19.0
162810 2001 AA_{37}	15.6	X	286.40289	13.55803	30.33387	8.74900	0.1978770	0.27105204	2.3646540	21	8 15.4	18.3
162811 2001 AG_{51}	12.9	X	314.80556	130.05912	297.15120	3.44448	0.0545567	0.08447109	5.1443516	21	10 19.2	19.6
162812 2001 AV_{51}	16.2	X	144.45347	257.56183	129.31595	6.93715	0.1728190	0.25059874	2.4916295	21	2 25.3	19.8
162813 2001 BE_{9}	15.8	X	213.14878	270.05377	107.95466	13.45440	0.2692356	0.25888187	2.4381942	21	4 21.8	20.4
162814 2001 BT_{19}	16.2	X	267.49600	318.58555	85.19359	5.87253	0.2059898	0.26914220	2.3758272	21	7 13.3	19.4
162815 2001 BU_{22}	16.6	X	234.74623	302.87313	100.78491	2.10574	0.2116222	0.26596701	2.3946986	21	6 6.9	20.2
162816 2001 BL_{23}	16.4	X	170.46446	318.80122	105.53324	5.56775	0.1828778	0.25875932	2.4389640	21	5 9.4	20.3
162817 2001 BX_{28}	16.1	X	253.43931	175.82889	272.96393	2.51634	0.1965027	0.27070339	2.3666839	21	8 27.4	19.2
162818 2001 BF_{33}	15.8	X	247.74790	53.98842	26.29218	0.64939	0.1713078	0.26795694	2.3828281	21	8 13.5	19.2
162819 2001 BD_{34}	15.3	X	248.32312	96.94458	324.24595	22.14175	0.3117597	0.26781429	2.3836741	21	7 8.5	19.5
162820 2001 BK_{36}	15.3	X	172.23159	221.78848	336.47177	11.05389	0.1321802	0.22341774	2.6898266	21	10 20.3	19.8
162821 2001 BV_{42}	15.1	X	284.89688	305.09573	262.34145	8.53965	0.0780995	0.23972977	2.5663826	21	—	—
162822 2001 BD_{49}	12.4	X	310.55780	284.48382	161.29685	24.38924	0.0701287	0.08332331	5.1914862	21	11 8.2	19.3
162823 2001 BV_{58}	15.5	X	350.53631	144.90430	319.47024	11.16922	0.0407168	0.23565125	2.5959095	21	—	—
162824 2001 BK_{60}	15.2	X	208.84021	100.70971	73.05927	23.08313	0.0417204	0.36586979	1.9360579	21	12 6.4	16.9
162825 2001 BO_{61}	18.1	X	198.43654	78.83396	159.80227	9.07793	0.7431022	0.41723617	1.7737051	21	12 12.7	21.7
162826 2001 BE_{64}	16.0	X	359.73147	350.09347	140.38029	4.82588	0.1827162	0.23985226	2.5655088	21	—	—
162827 2001 BT_{76}	16.0	X	221.07398	87.16062	317.19530	3.97398	0.1904922	0.26143049	2.4223221	21	5 26.6	19.8
162828 2001 CG	15.5	X	94.04846	64.22872	83.08933	8.48195	0.1386239	0.25552558	2.4594979	21	5 30.0	18.5
162829 2001 CX_{1}	15.4	X	319.70191	78.98739	104.24420	6.08995	0.0504390	0.24067881	2.5596317	21	—	—
162830 2001 CK_{2}	15.7	X	251.63997	47.38839	38.80895	2.93521	0.1609232	0.26908226	2.3761800	21	8 29.3	18.8
162831 2001 CV_{4}	15.4	X	4.66136	22.34914	93.06523	5.39653	0.1473116	0.23873748	2.5734889	21	—	—
162832 2001 CO_{6}	16.1	X	205.38395	62.47558	47.85100	1.88975	0.1310637	0.26541295	2.3980302	21	8 11.4	19.7
162833 2001 CS_{15}	15.6	X	340.18730	108.40504	324.39421	21.66949	0.0496839	0.23113548	2.6296118	21	12 31.9	19.3
162834 2001 CO_{17}	15.5	X	141.93323	73.41629	132.91843	11.54900	0.0896708	0.21930018	2.7233914	21	10 9.1	19.8
162835 2001 CA_{19}	15.4	X	118.87032	103.71936	125.75860	3.62261	0.1254372	0.21958095	2.7210693	21	10 13.2	19.5
162836 2001 CY_{22}	15.5	X	240.19588	81.98826	148.60601	5.54008	0.1565238	0.23647366	2.5898873	21	—	—
162837 2001 CB_{30}	15.4	X	299.48460	116.54192	21.46719	6.69749	0.1504352	0.23379553	2.6096278	21	—	—
162838 2001 CC_{36}	15.8	X	278.13648	146.71973	39.70335	5.51839	0.1998951	0.23375580	2.6099235	21	—	—
162839 2001 CX_{36}	16.0	X	31.43365	300.06104	149.18751	13.75222	0.1475635	0.23949683	2.5680464	21	—	—
162840 2001 DE_{3}	17.0	X	174.01380	121.37589	133.47799	23.57728	0.0534833	0.37507975	1.9042340	21	—	—
162841 2001 DF_{4}	15.5	X	342.86983	57.95477	68.41158	6.54449	0.1149248	0.23918441	2.5702822	21	—	—
162842 2001 DQ_{7}	15.6	X	222.84714	228.73615	8.95077	13.94910	0.0955532	0.23211374	2.6222181	21	—	—
162843 2001 DN_{13}	15.1	X	293.95248	164.87896	12.96741	16.56065	0.0982574	0.23416664	2.6068700	21	—	—
162844 2001 DV_{27}	15.8	X	308.91088	160.11803	340.64731	22.05511	0.0744683	0.23366938	2.6105670	21	—	—
162845 2001 DZ_{27}	15.7	X	270.06197	359.55347	139.58016	6.58812	0.0480072	0.22811758	2.6527534	21	12 14.3	19.1
162846 2001 DK_{28}	16.4	X	239.88885	1.46776	56.99758	3.10627	0.2908362	0.26589507	2.3951306	21	6 24.4	20.5
162847 2001 DA_{31}	16.1	X	268.37747	114.76008	85.53540	2.49515	0.1417144	0.23382058	2.6094415	21	—	—
162848 2001 DV_{31}	15.8	X	259.39177	154.64266	356.43635	7.75445	0.0880350	0.22768747	2.6560931	21	12 7.6	19.4
162849 2001 DN_{32}	16.4	X	189.88981	282.54057	133.26313	9.60990	0.2403386	0.25837379	2.4413896	21	5 17.6	20.8
162850 2001 DV_{34}	16.0	X	186.44915	263.72040	143.79872	3.65070	0.2169247	0.25827290	2.4420253	21	5 2.6	20.1
162851 2001 DF_{39}	12.4	X	295.88360	160.41157	298.59175	9.72468	0.0408287	0.08233628	5.2328933	21	10 31.1	19.4
162852 2001 DJ_{43}	15.8	X	287.07818	167.38368	334.55466	4.21539	0.0540033	0.23081522	2.6320436	21	—	—
162853 2001 DO_{43}	15.9	X	60.54016	100.14270	335.48258	5.14452	0.2159803	0.24289222	2.5440578	21	1 1.2	17.9
162854 2001 DE_{47}	19.0	X	202.03837	297.77065	122.42146	21.26840	0.1493045	0.64775813	1.3229014	21	5 22.5	20.4
162855 2001 DU_{50}	15.6	X	354.05131	140.31960	17.83364	9.79947	0.1274155	0.24217663	2.5490669	21	—	—
162856 2001 DN_{53}	15.4	X	348.22248	90.72609	132.90592	8.05827	0.2374101	0.19904015	2.9051970	21	3 11.2	18.4
162857 2001 DP_{70}	15.8	X	166.63095	38.87465	150.70627	6.54480	0.1032501	0.21907144	2.7252868	21	10 11.4	20.0
162858 2001 DZ_{71}	15.5	X	235.48374	177.93663	337.95267	8.16163	0.1029728	0.22445463	2.6815362	21	11 8.2	19.4
162859 2001 DW_{76}	16.3	X	355.89275	311.42029	167.90564	6.75391	0.1236011	0.23734623	2.5835358	21	—	—
162860 2001 DF_{102}	15.9	X	90.87118	300.02530	119.13271	15.77182	0.1041191	0.24343491	2.5402754	21	1 19.7	18.8
162861 2001 DY_{103}	12.1	X	8.93580	239.89900	136.19546	28.66004	0.1524021	0.08306846	5.2020989	21	11 13.7	18.7
162862 2001 DQ_{104}	16.2	X	66.05680	294.39601	153.03116	3.46741	0.1385544	0.24432056	2.5341328	21	1 21.1	18.8
162863 2001 EX_{4}	15.4	X	84.84899	236.24867	5.98751	9.20238	0.0928129	0.21379575	2.7699377	21	9 17.1	19.2
162864 2001 EZ_{4}	16.3	X	218.82151	166.92383	63.72631	3.18164	0.0691159	0.23090317	2.6313752	21	—	—
162865 2001 EP_{8}	16.2	X	318.43594	328.98345	160.55122	13.86183	0.1451331	0.23267928	2.6179674	21	—	—
162866 2001 EB_{13}	16.6	X	69.51928	4.30652	14.33604	21.63354	0.0809932	0.37771421	1.8953693	21	—	—
162867 2001 EA_{19}	15.6	X	190.63823	37.27717	170.85530	13.49475	0.1283744	0.22312595	2.6921711	21	11 26.4	20.0
162868 2001 ET_{19}	15.3	X	41.53861	202.02127	159.46381	15.34467	0.1377226	0.22674114	2.6634783	21	12 31.2	19.2
162869 2001 EF_{20}	15.8	X	137.86715	35.56717	174.35705	5.14627	0.0505111	0.21813328	2.7330952	21	10 3.4	19.6
162870 2001 EY_{23}	15.8	X	198.58641	13.84835	165.40534	9.50358	0.1264260	0.22196892	2.7015184	21	10 30.4	20.0
162871 2001 EO_{26}	15.9	X	289.47544	296.71145	180.00998	3.74545	0.0930519	0.22679247	2.6630764	21	12 7.2	19.1
162872 2001 FP_{3}	15.2	X	142.80050	13.99549	179.91549	9.21760	0.0888139	0.21338011	2.7735336	21	9 19.0	19.4
162873 2001 FB_{7}	19.0	X	75.22165	198.69208	357.89258	20.19469	0.0863173	0.59465118	1.4005368	21	7 13.2	19.9
162874 2001 FV_{12}	15.9	X	132.30195	84.08495	177.91347	14.30256	0.0795630	0.22159329	2.7045706	21	12 3.6	20.2
162875 2001 FD_{20}	15.2	X	137.67925	311.48495	217.52281	7.94337	0.0904924	0.21070354	2.7969723	21	8 9.9	19.6
162876 2001 FC_{24}	16.9	X	314.53713	293.10368	174.28017	22.67018	0.0523892	0.37281808	1.9119274	21	—	—
162877 2001 FB_{28}	15.9	X	39.34123	80.53312	145.94462	7.82833	0.2559757	0.20353741	2.8622433	21	7 14.4	19.0
162878 2001 FU_{33}	15.2	X	217.92368	4.28068	179.84062	10.54558	0.0994741	0.22617402	2.6679288	21	11 28.5	19.2
162879 2001 FM_{42}	15.9	X	155.11644	6.40893	185.64251	9.25474	0.0980522	0.21595685	2.7514274	21	9 30.4	20.1
162880 2001 FS_{51}	15.6	X	26.76095	157.68179	355.53836	14.02902	0.0952773	0.24304013	2.5430255	21	2 17.1	18.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162881 2001 FT_{51}	14.5	X	159.35643	22.86162	352.28949	13.65051	0.2046616	0.24206280	2.5498659	21	3 1.9	18.5
162882 2001 FD_{58}	18.7	X	32.42015	45.99603	341.17970	6.49743	0.5751891	0.86335078	1.0923065	21	—	—
162883 2001 FM_{68}	15.2	X	351.86656	116.13250	155.69363	12.02982	0.1295775	0.20265084	2.8705852	21	6 5.8	18.7
162884 2001 FR_{73}	16.3	X	0.40383	93.57662	62.04628	4.87840	0.2306335	0.23988709	2.5652605	21	—	—
162885 2001 FW_{84}	16.5	X	201.24675	160.92318	35.60985	3.18036	0.0270390	0.22389356	2.6860142	21	11 30.6	20.3
162886 2001 FT_{88}	16.3	X	22.22400	152.63119	168.03872	3.63458	0.0875188	0.21370052	2.7707605	21	10 3.2	19.5
162887 2001 FD_{93}	15.5	X	72.47453	5.41986	55.29080	7.92432	0.2530437	0.24192899	2.5508061	21	1 11.7	17.7
162888 2001 FJ_{106}	15.3	X	47.52566	100.39140	158.71332	24.90459	0.1333575	0.21009319	2.8023867	21	8 23.9	18.9
162889 2001 FT_{116}	16.0	X	61.47467	72.81417	44.47563	7.84532	0.1262725	0.24415562	2.5352740	21	2 28.1	18.8
162890 2001 FO_{138}	16.4	X	127.09168	12.17752	219.59300	1.09268	0.0212516	0.21778959	2.7359698	21	10 15.8	20.1
162891 2001 FS_{169}	15.9	X	109.27885	309.51852	111.76216	1.83578	0.0924259	0.24349452	2.5398609	21	2 16.5	18.9
162892 2001 GW_{1}	15.6	X	67.87960	140.17907	193.46255	5.89164	0.0213003	0.22228203	2.6989809	21	12 11.9	19.4
162893 2001 GK_{3}	16.5	X	53.40537	173.40007	116.04404	24.63777	0.0629063	0.35786295	1.9648296	21	11 5.7	19.4
162894 2001 HD	15.3	X	39.56326	272.90534	61.11906	13.63262	0.1251291	0.21419541	2.7664911	21	11 19.9	18.9
162895 2001 HR_{4}	14.7	X	354.96474	294.40000	223.01209	11.99943	0.1937492	0.24378569	2.5378381	21	—	—
162896 2001 HG_{11}	15.1	X	218.19995	274.37556	28.20062	13.39429	0.3513946	0.18209849	3.0827040	21	1 31.9	21.1
162897 2001 HB_{15}	15.8	X	45.03094	282.60851	24.75170	3.26647	0.1561082	0.21455246	2.7634210	21	10 28.1	19.3
162898 2001 HK_{22}	16.3	X	280.17068	255.14342	223.13784	20.04642	0.0850228	0.36726655	1.9311461	21	12 30.3	18.3
162899 2001 HB_{27}	15.5	X	173.71985	20.82817	198.88751	13.85359	0.1448125	0.21773893	2.7363942	21	11 21.6	20.0
162900 2001 HG_{31}	15.8	X	0.34922	67.44724	36.51351	6.15741	0.5347510	0.23809241	2.5781352	21	—	—
162901 2001 HF_{46}	16.6	X	142.75867	80.60421	63.33872	3.56102	0.1418576	0.25716754	2.4490178	21	7 22.2	20.3
162902 2001 HM_{62}	16.6	X	46.94887	61.71254	21.48761	19.68290	0.0849841	0.37980753	1.8883986	21	—	—
162903 2001 JV_{2}	18.8	X	242.80313	301.23454	216.90037	47.48886	0.2373995	0.66148720	1.3045330	21	—	—
162904 2001 JV_{10}	15.3	X	262.95880	130.59009	184.04854	9.02454	0.1583100	0.19065793	2.9897357	21	3 23.9	19.9
162905 2001 KV_{5}	15.4	X	203.35664	307.00697	231.17404	13.82745	0.0304214	0.21675848	2.7446396	21	11 8.6	19.2
162906 2001 KY_{10}	14.8	X	210.33028	203.78457	78.61161	17.32977	0.2656076	0.17794623	3.1304746	21	—	—
162907 2001 KJ_{21}	16.4	X	102.52000	93.51348	199.22498	21.21124	0.0698211	0.36364250	1.9439554	21	12 31.8	19.4
162908 2001 KD_{39}	15.1	X	246.06703	81.51068	212.37430	15.95478	0.2016430	0.18389290	3.0626174	21	2 5.2	20.5
162909 2001 KQ_{41}	15.3	X	161.41019	346.69888	211.59571	10.66356	0.0774857	0.21441930	2.7645650	21	10 13.7	19.3
162910 2001 KW_{52}	15.2	X	237.61189	288.94755	3.11427	11.55545	0.3563320	0.18351538	3.0668162	21	1 30.2	21.0
162911 2001 LL_{5}	19.2	X	143.85409	205.14435	281.85270	7.95231	0.3394354	0.74589695	1.2041581	21	7 13.2	19.5
162912 2001 MD_{12}	14.6	X	160.19015	294.69932	79.40663	11.87063	0.2118617	0.17802865	3.1295083	21	3 12.6	20.0
162913 2001 MT_{18}	18.2	X	57.48600	356.10504	170.52033	8.64701	0.5196456	0.68790717	1.2709140	21	7 10.2	17.2
162914 2001 NL_{7}	14.3	X	191.67210	81.00935	302.14960	15.94530	0.1564827	0.18407645	3.0605811	21	4 1.5	19.7
162915 2001 NF_{19}	15.5	X	171.46629	256.64669	83.04287	6.10513	0.1723202	0.17500916	3.1654020	21	2 4.6	20.7
162916 2001 NJ_{20}	14.4	X	136.63201	229.70017	170.49177	27.26368	0.1834990	0.17592629	3.1543912	21	3 14.8	19.4
162917 2001 OW_{1}	14.5	X	162.86160	226.11739	99.85765	9.71028	0.1795413	0.17169946	3.2059501	21	1 12.4	19.7
162918 2001 OX_{5}	14.2	X	119.62923	150.02491	272.72446	13.84886	0.2519071	0.17444984	3.1721643	21	3 25.2	19.5
162919 2001 OM_{6}	14.8	X	165.79148	190.56823	172.40956	15.49381	0.1657442	0.17529826	3.1619208	21	2 23.0	20.0
162920 2001 OF_{9}	14.3	X	198.99175	73.73305	300.23699	15.22455	0.2380981	0.18145230	3.0900184	21	3 28.4	20.0
162921 2001 OL_{11}	15.1	X	215.00558	219.38698	83.46786	4.92534	0.0918790	0.17753230	3.1353387	21	1 29.8	19.9
162922 2001 OY_{13}	20.8	X	112.90125	291.21479	284.23500	10.29909	0.3817646	0.65108737	1.3183879	21	10 30.7	22.6
162923 2001 OH_{24}	14.1	X	154.82320	44.45053	300.39212	22.16378	0.1342326	0.17294507	3.1905381	21	1 22.3	19.0
162924 2001 OS_{27}	15.0	X	200.86143	320.67262	352.99886	12.46999	0.0642803	0.17645881	3.1480418	21	1 31.1	19.9
162925 2001 OG_{33}	14.6	X	253.65248	302.24306	67.42915	10.35498	0.2165463	0.18925888	3.0044515	21	5 15.9	19.5
162926 2001 OB_{36}	16.9	X	315.02719	289.08451	113.00813	42.66619	0.6179752	0.19524527	2.9427206	21	7 6.8	20.4
162927 2001 OF_{49}	15.1	X	128.16893	200.40917	174.02806	15.56867	0.2602033	0.17252050	3.1957705	21	2 10.9	20.3
162928 2001 ON_{76}	15.1	X	287.18544	289.66505	349.90701	5.30288	0.0548388	0.18425606	3.0585918	21	3 21.2	19.4
162929 2001 OO_{80}	15.3	X	194.28091	276.92764	73.24324	9.68676	0.1027972	0.17960220	3.1112025	21	3 9.4	20.3
162930 2001 OA_{82}	14.5	X	189.74323	260.05994	131.38042	14.02853	0.2512802	0.18223047	3.0812154	21	4 24.3	20.1
162931 2001 OP_{82}	15.5	X	192.15086	267.75511	72.55911	2.80572	0.1788499	0.17828393	3.1265203	21	2 21.9	20.7
162932 2001 OP_{84}	15.4	X	188.15487	129.89987	188.14303	3.49828	0.1388598	0.17470566	3.1690668	21	1 21.7	20.5
162933 2001 OR_{88}	14.8	X	211.04986	74.15388	316.51471	9.44922	0.0778632	0.18700392	3.0285558	21	5 5.3	19.6
162934 2001 OD_{93}	14.7	X	163.16927	353.99994	324.57044	20.26837	0.0709230	0.17132589	3.2106087	21	—	—
162935 2001 OO_{98}	14.8	X	182.40589	268.30444	78.14932	10.70989	0.2396513	0.17545467	3.1600413	21	2 26.3	20.4
162936 2001 OD_{102}	14.4	X	151.40175	32.87899	294.35540	11.40441	0.0586823	0.16966571	3.2315186	21	—	—
162937 Prêtre	15.8	X	230.22730	264.02523	109.86292	0.06848	0.2832472	0.18518743	3.0483281	21	4 26.4	21.0
162938 2001 PC_{11}	15.2	X	123.05315	230.58288	114.20933	6.75410	0.1257489	0.16835032	3.2483295	21	—	—
162939 2001 PA_{12}	14.9	X	169.71418	321.25345	35.99310	10.85835	0.2216197	0.17521054	3.1629761	21	2 28.8	20.4
162940 2001 PY_{20}	14.6	X	134.87258	59.92496	334.69589	9.08854	0.0811330	0.17603950	3.1530387	21	2 23.3	19.3
162941 2001 PM_{25}	14.8	X	202.20555	309.15645	351.43079	25.97660	0.1901824	0.17311404	3.1884616	21	1 25.1	20.5
162942 2001 PK_{43}	14.6	X	257.45188	312.90887	297.92442	12.04331	0.2268600	0.17737232	3.1372237	21	1 1.7	19.9
162943 2001 QZ_{18}	14.8	X	145.75221	224.01623	161.47557	10.91352	0.1993260	0.17360792	3.1824116	21	3 7.6	19.8
162944 2001 QH_{34}	14.4	X	183.52491	74.58579	300.96310	7.24823	0.1804577	0.18210860	3.0825898	21	3 22.2	19.7
162945 2001 QO_{35}	14.9	X	190.76377	339.32077	314.34103	3.92901	0.1339485	0.17280003	3.1923231	21	—	—
162946 2001 QS_{38}	14.8	X	201.73475	162.26758	125.16397	17.67301	0.1839311	0.17327504	3.1864862	21	1 1.2	20.2
162947 2001 QY_{38}	14.5	X	186.48289	253.13920	137.81764	10.84862	0.2162144	0.18345223	3.0675199	21	4 19.6	19.9
162948 2001 QD_{43}	15.3	X	134.79591	217.07612	145.79121	2.08136	0.1962899	0.17194055	3.2029526	21	1 30.2	20.2
162949 2001 QW_{44}	14.3	X	150.26911	104.06597	305.74515	10.07061	0.1022225	0.18047058	3.1012143	21	3 26.3	19.3
162950 2001 QK_{47}	14.8	X	165.86494	61.91055	330.91202	11.62643	0.1639304	0.17929402	3.1147666	21	3 26.2	20.0
162951 2001 QU_{55}	15.1	X	199.13737	257.03327	142.66626	11.18858	0.1836889	0.18355973	3.0663221	21	5 9.7	20.4
162952 2001 QC_{62}	14.7	X	140.05475	56.90771	278.69875	3.56649	0.1078355	0.16794633	3.2535367	21	—	—
162953 2001 QY_{63}	14.4	X	119.89233	60.43330	344.35691	9.74698	0.1676733	0.17148392	3.2086360	21	3 2.3	19.1
162954 2001 QB_{93}	14.8	X	186.06726	193.27296	215.95171	14.98543	0.1628308	0.18051261	3.1007328	21	5 6.9	19.8
162955 2001 QA_{106}	14.4	X	178.83004	90.69479	246.68112	19.04939	0.1525730	0.17381556	3.1798767	21	1 29.9	19.9
162956 2001 QF_{119}	15.1	X	149.17762	208.49567	194.57248	12.24470	0.1859397	0.17583641	3.1554661	21	3 28.9	20.1
162957 2001 QU_{122}	15.1	X	97.51860	29.89882	348.69957	10.08679	0.1420321	0.16795775	3.2533892	21	1 2.9	19.7
162958 2001 QL_{132}	15.2	X	248.06966	109.51468	200.34611	8.59004	0.0505493	0.17961056	3.1111059	21	3 12.5	19.8
162959 2001 QW_{143}	15.5	X	184.57173	161.50975	287.63789	0.73428	0.3167648	0.18338489	3.0682708	21	6 21.8	21.2
162960 2001 QX_{160}	14.5	X	211.37584	334.86272	326.09399	10.84590	0.0725965	0.17399732	3.1776618	21	1 25.4	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
162961 2001 QC_{165}	15.4	X	283.24657	298.06838	49.83877	4.89266	0.2114939	0.19070685	2.9892244	21	5 19.1	19.6
162962 2001 QT_{171}	14.8	X	173.76526	40.50642	3.52408	10.50981	0.1071645	0.18114946	3.0934613	21	4 15.1	19.8
162963 2001 QZ_{172}	14.5	X	74.35263	169.77994	286.04941	7.91101	0.0781916	0.17467116	3.1694841	21	2 20.2	18.8
162964 2001 QM_{206}	15.1	X	173.48998	76.67554	346.67900	2.70081	0.2835068	0.18062435	3.0994540	21	5 14.3	20.7
162965 2001 QS_{207}	14.9	X	149.59643	58.53276	354.80422	8.81104	0.0830528	0.17914054	3.1165454	21	3 31.9	19.6
162966 2001 QR_{208}	15.4	X	166.24122	225.14244	110.79716	2.11393	0.1230942	0.17259809	3.1948126	21	1 22.6	20.4
162967 2001 QK_{219}	14.6	X	71.09231	107.07548	329.57700	11.81344	0.1243342	0.17124539	3.2116148	21	2 3.3	18.8
162968 2001 QT_{226}	14.8	X	109.06079	83.15986	313.32784	10.25943	0.0726546	0.16979422	3.2298879	21	1 27.4	19.2
162969 2001 QT_{232}	15.0	X	97.47019	330.58613	345.00239	15.55353	0.1316534	0.15855691	3.3807465	21	12 24.5	20.4
162970 2001 QK_{240}	15.2	X	157.15819	295.29358	165.95588	15.44615	0.2553459	0.18227019	3.0807676	21	6 17.2	20.8
162971 2001 QU_{256}	14.7	X	147.91905	200.85491	169.33405	23.12390	0.1310361	0.17112161	3.2131634	21	2 12.4	19.9
162972 2001 QL_{272}	14.9	X	103.68843	97.67754	355.02110	16.54522	0.0560740	0.18019750	3.1043467	21	3 23.4	19.3
162973 2001 QV_{273}	14.8	X	256.09058	277.67496	2.51454	17.79057	0.1336662	0.17850886	3.1238933	21	2 15.0	19.8
162974 2001 QC_{276}	14.7	X	113.28283	27.78347	358.55079	21.32269	0.0820694	0.17110066	3.2134257	21	1 29.0	19.6
162975 2001 QS_{279}	15.1	X	175.29439	16.51465	19.57741	19.02859	0.3002896	0.17822341	3.1272280	21	4 14.2	20.8
162976 2001 QJ_{288}	14.3	X	348.13778	273.72999	286.52805	15.74834	0.0933049	0.17663349	3.1459660	21	2 20.7	18.7
162977 2001 QY_{294}	15.0	X	112.43143	20.64600	23.25208	3.75408	0.1851989	0.17081705	3.2169816	21	2 24.7	19.8
162978 Helenhart	15.2	X	152.52210	261.19464	72.92068	2.87804	0.0866352	0.16895163	3.2406176	21	1 4.5	20.1
162979 2001 RA_{12}	18.2	X	312.83300	326.09058	311.58847	17.08936	0.5440786	0.33906323	2.0368025	21	1 29.2	21.7
162980 2001 RR_{17}	16.7	X	275.83453	351.44097	177.61539	30.40783	0.4890511	0.50935035	1.5528338	21	—	—
162981 2001 RQ_{30}	15.0	X	149.46152	266.33063	105.95330	2.15904	0.2078569	0.17272554	3.1932408	21	2 24.8	20.3
162982 2001 RM_{50}	15.4	X	197.58195	224.62229	221.50511	10.20314	0.0471034	0.18929767	3.0040411	21	7 2.6	20.0
162983 2001 RP_{53}	14.8	X	78.61005	60.45656	8.03035	24.00984	0.1712121	0.16913508	3.2382740	21	2 20.4	19.3
162984 2001 RM_{104}	14.7	X	36.89464	176.26026	343.33096	10.57110	0.0911244	0.17898874	3.1183073	21	3 19.9	18.6
162985 2001 RH_{110}	15.1	X	290.56372	88.08258	145.41833	5.80992	0.1205894	0.17552040	3.1592523	21	1 21.7	19.7
162986 2001 RC_{113}	14.9	X	171.43114	190.00887	170.03788	11.57014	0.0715058	0.17442758	3.1724342	21	2 19.6	19.7
162987 2001 RC_{125}	15.0	X	127.92836	1.50165	49.51654	2.45480	0.1881920	0.17299195	3.1899616	21	3 20.6	19.8
162988 2001 RN_{128}	14.7	X	165.81667	13.95316	16.87176	9.63259	0.0908955	0.17676994	3.1443468	21	3 25.6	19.5
162989 2001 SJ_{35}	15.1	X	244.66411	293.44817	40.98086	5.93156	0.1526157	0.18008221	3.1056714	21	4 1.9	20.0
162990 2001 SR_{54}	14.8	X	185.82093	331.33694	41.41179	13.81980	0.2413022	0.17558792	3.1584423	21	3 30.8	20.4
162991 2001 SY_{69}	16.6	X	168.86673	253.51118	79.69968	6.68943	0.2232323	0.31704153	2.1300605	21	1 6.9	19.5
162992 2001 SJ_{73}	14.5	X	342.56794	247.17622	333.36746	15.91069	0.0841200	0.17950589	3.1123153	21	3 13.5	18.7
162993 2001 SY_{88}	15.3	X	135.65816	155.72760	235.66264	2.58076	0.0851227	0.17330824	3.1860792	21	2 20.1	20.0
162994 2001 SN_{92}	15.0	X	174.51351	231.69151	180.78774	10.91348	0.0536739	0.18124249	3.0924027	21	4 28.6	19.6
162995 2001 SN_{95}	17.7	X	246.21538	304.72304	342.31344	4.31211	0.1990982	0.32597288	2.0909729	21	1 15.1	21.0
162996 2001 SQ_{98}	15.1	X	297.26436	237.16434	338.37119	4.08428	0.1400444	0.17197596	3.2025129	21	1 7.3	19.7
162997 2001 SP_{111}	14.4	X	135.50047	212.17792	223.75385	25.68993	0.1595989	0.17257081	3.1951493	21	4 21.9	19.5
162998 2001 SK_{162}	17.9	X	98.94493	186.39348	285.37828	1.68169	0.4749330	0.36897454	1.9251820	21	5 27.9	20.3
162999 2001 SW_{167}	15.1	X	121.15793	55.17584	21.11888	2.42699	0.1844096	0.17224002	3.1992389	21	4 11.5	20.0
163000 2001 SW_{169}	19.2	X	117.71719	284.74756	8.42086	3.55411	0.0515147	0.70666619	1.2483217	21	—	—
163001 2001 SE_{170}	18.2	X	156.44662	124.93719	216.53003	19.97302	0.4535249	0.31841098	2.1239487	21	1 21.7	22.3
163002 2001 SX_{175}	15.0	X	173.51967	333.01258	83.66261	6.53930	0.1550309	0.17791894	3.1307947	21	5 5.9	20.2
163003 2001 SN_{226}	15.6	X	296.28991	267.96236	52.66182	4.20140	0.1206719	0.18546811	3.0452518	21	5 14.5	19.8
163004 2001 SK_{234}	14.5	X	33.19246	160.50831	187.22239	9.92318	0.0899221	0.15045626	3.5010304	21	11 13.3	19.3
163005 2001 SX_{265}	16.8	X	139.29941	251.32996	18.64835	4.57307	0.2029715	0.30571193	2.1823670	21	12 31.7	20.4
163006 2001 SY_{275}	14.6	X	114.34531	155.22135	261.06979	24.99340	0.1818328	0.17181554	3.2045060	21	2 26.4	19.9
163007 2001 SD_{308}	15.0	X	196.04648	340.58234	66.72398	2.40444	0.0250255	0.18238561	3.0794678	21	5 14.7	19.5
163008 2001 ST_{324}	14.7	X	102.69851	349.61619	320.93742	10.09029	0.0271200	0.15875598	3.3779197	21	12 13.1	19.7
163009 2001 TS_{35}	16.5	X	343.62928	91.82754	344.58751	6.22736	0.0958953	0.30071003	2.2065009	21	—	—
163010 2001 TM_{45}	14.3	X	0.21707	136.91593	237.90964	8.88869	0.1059335	0.14771046	3.5442843	21	10 28.9	18.8
163011 2001 TK_{75}	15.1	X	182.24587	322.69507	46.60269	5.51744	0.1922575	0.17308761	3.1887862	21	3 20.7	20.4
163012 2001 TC_{220}	14.5	X	157.17855	239.25699	353.74385	9.33450	0.0067348	0.15182020	3.4800301	21	11 9.4	19.6
163013 2001 TG_{230}	14.3	X	33.44920	300.22988	72.28800	9.55938	0.1951558	0.15491678	3.4335002	21	12 26.3	18.8
163014 2001 UA_{5}	17.5	X	72.80339	27.70189	58.63262	9.93707	0.4455401	0.41253112	1.7871660	21	—	—
163015 2001 UX_{16}	21.9	X	201.33118	254.55512	213.39380	10.61581	0.3683490	0.58427726	1.4170659	21	7 25.2	23.8
163016 2001 UD_{52}	16.4	X	321.95258	39.39640	129.60418	2.53721	0.1013609	0.31205611	2.1526872	21	—	—
163017 2001 UP_{79}	17.6	X	76.87003	191.41322	201.42188	1.89462	0.1484587	0.31058975	2.1594574	21	—	—
163018 2001 UY_{97}	14.9	X	310.88187	214.19014	48.13090	4.54136	0.1396521	0.17653214	3.1471700	21	3 21.1	19.1
163019 2001 UB_{116}	15.2	X	309.81515	269.20616	82.17789	2.84468	0.1663930	0.18803273	3.0174986	21	7 7.4	18.8
163020 2001 VT_{47}	16.6	X	355.23873	130.59474	279.73873	2.73674	0.0927567	0.29829192	2.2184095	21	—	—
163021 2001 WE_{14}	16.5	X	249.31319	317.91681	140.58096	8.26456	0.1282618	0.28636210	2.2796019	21	9 20.1	19.3
163022 2001 WS_{28}	16.9	X	65.72726	302.59883	102.99921	4.48059	0.0962929	0.30863180	2.1685808	21	—	—
163023 2001 XU_{1}	19.3	X	294.64989	208.52608	69.69655	27.15122	0.5463852	1.38431672	0.7973440	21	12 26.7	18.8
163024 2001 XF_{10}	15.8	X	134.96595	137.88232	58.87844	7.83910	0.0444394	0.28439035	2.2901265	21	9 22.5	18.9
163025 2001 XG_{10}	16.9	X	35.63566	25.87143	10.02859	4.61946	0.1276462	0.30107097	2.2047370	21	—	—
163026 2001 XR_{30}	21.0	X	25.49082	294.40819	247.89231	11.85934	0.3652213	0.66724300	1.2970201	21	—	—
163027 2001 XX_{56}	16.7	X	353.96315	359.12694	81.91598	4.73679	0.1104789	0.30176495	2.2013555	21	—	—
163028 2001 XQ_{69}	17.5	X	59.34461	254.01420	134.44995	3.22966	0.0924024	0.30671845	2.1775900	21	—	—
163029 2001 XH_{104}	16.9	X	164.83381	244.27210	300.42992	4.08997	0.1927315	0.28738489	2.2741901	21	10 3.9	20.5
163030 2001 XM_{107}	17.2	X	146.72127	60.15157	287.89009	0.69945	0.1913104	0.31330573	2.1469594	21	—	—
163031 2001 XW_{117}	15.9	X	351.23052	8.91939	58.49212	4.49688	0.0850744	0.29647420	2.2274678	21	—	—
163032 2001 XG_{119}	16.4	X	225.14295	110.85920	11.30582	5.80556	0.1017157	0.28370127	2.2938333	21	9 23.6	19.2
163033 2001 XX_{142}	16.3	X	89.18291	145.19401	71.01540	0.63492	0.1904221	0.28150398	2.3057543	21	9 4.9	19.3
163034 2001 XM_{175}	16.5	X	255.11614	58.43377	111.55416	3.92717	0.0586510	0.29725773	2.2235519	21	—	—
163035 2001 XK_{176}	16.7	X	44.28714	320.25015	110.27462	2.74837	0.0946181	0.30568286	2.1825054	21	—	—
163036 2001 XZ_{179}	16.4	X	55.67979	138.26482	238.24636	3.42559	0.1133760	0.30035703	2.2082293	21	—	—
163037 2001 XU_{180}	16.6	X	74.13431	178.92680	238.97962	3.83562	0.0999659	0.30794706	2.1717942	21	—	—
163038 2001 XP_{181}	16.5	X	96.87018	230.97967	111.28640	5.50081	0.1406546	0.30128762	2.2036800	21	—	—
163039 2001 XG_{189}	17.4	X	150.85537	286.71822	224.83785	0.62677	0.1415921	0.27865789	2.3214277	21	8 9.3	20.8
163040 2001 XV_{196}	16.6	X	21.23475	126.41992	275.21658	5.02371	0.2057590	0.29883386	2.2157266	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163041 2001 XR_{203}	17.5	X	102.03910	180.44350	206.19961	4.40796	0.1500557	0.31199760	2.1529563	21	—	—
163042 2001 XH_{205}	16.6	X	46.22051	239.13403	342.85557	1.96454	0.1212400	0.27613561	2.3355425	21	6 29.5	18.8
163043 2001 XC_{211}	16.6	X	92.33284	288.14543	118.99160	5.36331	0.0919837	0.31056618	2.1595666	21	—	—
163044 2001 XB_{213}	16.5	X	106.94609	340.45275	165.89019	5.77486	0.1585115	0.27193928	2.3595078	21	6 16.6	19.7
163045 2001 XZ_{214}	16.9	X	17.78551	56.22346	327.55109	4.18864	0.1429906	0.29716490	2.2240150	21	—	—
163046 2001 XR_{233}	16.8	X	160.22513	203.41498	73.69853	4.02328	0.0916891	0.30283800	2.1961524	21	—	—
163047 2001 XS_{237}	16.5	X	146.29157	161.83573	52.49473	2.09770	0.0744280	0.29130591	2.2537368	21	10 27.9	19.5
163048 2001 XJ_{240}	16.7	X	193.48518	300.98025	53.67859	3.15322	0.1384116	0.31723347	2.1292013	21	2 22.6	19.7
163049 2001 XS_{240}	16.0	X	358.57775	123.13009	281.94447	7.03998	0.0928119	0.29593618	2.2301668	21	—	—
163050 2001 XN_{252}	16.9	X	48.75348	255.77123	143.93355	4.66287	0.0738718	0.30136951	2.2032808	21	—	—
163051 2001 YJ_{4}	16.4	X	223.32294	322.34423	247.83746	9.28307	0.5692233	0.28800646	2.2709169	21	11 24.2	20.4
163052 2001 YJ_{9}	16.3	X	184.09174	221.97238	313.26517	6.54392	0.0986900	0.28792181	2.2713619	21	10 13.5	19.5
163053 2001 YF_{11}	16.5	X	346.47627	338.97638	219.04158	1.62597	0.1733756	0.25937702	2.4350902	21	1 23.8	19.2
163054 2001 YL_{18}	16.5	X	324.21679	83.92110	337.39093	7.25474	0.0738763	0.29176924	2.2513502	21	12 1.7	19.0
163055 2001 YL_{61}	16.5	X	329.55779	152.43536	287.48755	5.63338	0.1027881	0.29713042	2.2241870	21	—	—
163056 2001 YM_{70}	16.8	X	358.16541	80.56540	307.89592	6.04616	0.1223862	0.29438100	2.2380143	21	12 19.4	19.0
163057 2001 YF_{74}	16.6	X	267.11463	115.11696	338.65625	6.41644	0.0407347	0.28779294	2.2720399	21	10 18.4	19.3
163058 2001 YV_{78}	16.4	X	276.21658	148.72021	306.12682	7.62825	0.0670504	0.29030108	2.2589344	21	10 29.5	19.1
163059 2001 YN_{90}	16.8	X	216.27084	18.55279	107.07515	3.73371	0.0232629	0.28483076	2.2877653	21	9 28.8	19.6
163060 2001 YC_{96}	16.4	X	334.35377	313.66998	60.79247	6.61125	0.1209069	0.28840318	2.2688338	21	10 14.5	18.3
163061 2001 YV_{98}	17.5	X	76.83596	242.88162	138.20993	2.94502	0.1072154	0.30616512	2.1802129	21	—	—
163062 2001 YC_{105}	16.8	X	97.82478	281.65762	117.28748	3.59321	0.1486832	0.30955829	2.1642516	21	—	—
163063 2001 YM_{108}	16.2	X	56.60514	325.76322	251.83618	5.68864	0.0634041	0.27426039	2.3461764	21	6 30.9	18.8
163064 2001 YN_{117}	16.9	X	54.84826	0.49324	59.29096	1.83599	0.1464603	0.30521705	2.1847254	21	—	—
163065 2001 YC_{131}	16.6	X	185.00779	192.48069	37.27181	5.46694	0.0475894	0.29569484	2.2313801	21	—	—
163066 2001 YH_{143}	17.0	X	63.73755	29.88092	181.97627	0.35261	0.1611990	0.27727056	2.3291648	21	7 21.0	19.5
163067 2002 AP_{3}	19.8	X	210.13391	117.65966	87.42558	7.59994	0.5880766	0.33754466	2.0429068	21	11 15.4	23.7
163068 2002 AP_{5}	15.8	X	21.32217	106.19284	343.53316	5.38523	0.1049029	0.30262005	2.1972067	21	—	—
163069 2002 AD_{6}	16.4	X	149.21000	258.00038	279.16737	3.62364	0.0882287	0.28087253	2.3092088	21	9 7.9	19.7
163070 2002 AO_{7}	18.3	X	307.07516	240.61139	278.04786	14.53565	0.6350189	0.19844781	2.9109752	21	11 26.8	20.0
163071 2002 AD_{8}	16.8	X	2.09890	298.52203	128.26798	4.05487	0.1877309	0.29897682	2.2150203	21	—	—
163072 2002 AD_{12}	16.5	X	201.21676	207.42637	308.16145	6.67969	0.0431766	0.28641450	2.2793239	21	10 12.3	19.6
163073 2002 AX_{12}	17.1	X	134.02720	329.18686	159.85991	2.49865	0.1268517	0.27185693	2.3599843	21	6 20.6	20.4
163074 2002 AD_{14}	15.8	X	156.26639	142.19386	42.04822	1.71799	0.1933952	0.27814423	2.3242848	21	9 27.8	19.5
163075 2002 AP_{17}	16.7	X	126.17720	226.51068	144.88546	1.16635	0.1784807	0.30936383	2.1651585	21	1 1.1	18.8
163076 2002 AU_{19}	16.6	X	135.67968	185.93522	49.50225	4.62433	0.1181825	0.28866725	2.2674499	21	11 12.6	19.6
163077 2002 AP_{20}	15.6	X	340.51182	126.31320	252.39295	5.45756	0.1316578	0.28905667	2.2654130	21	10 30.0	17.6
163078 2002 AF_{21}	16.3	X	65.70559	60.46370	318.03248	5.93817	0.1767867	0.30195253	2.2004437	21	—	—
163079 2002 AR_{21}	16.4	X	77.78931	259.31818	123.95530	5.31058	0.2082173	0.30361530	2.1924025	21	—	—
163080 2002 AA_{28}	16.6	X	212.08212	140.19018	7.20747	3.98076	0.1262090	0.28619213	2.2805044	21	10 8.5	19.7
163081 2002 AG_{29}	18.5	X	315.04529	43.90771	212.84943	11.49986	0.2032253	0.86989769	1.0868191	21	—	—
163082 2002 AN_{39}	16.7	X	158.00181	1.66779	201.39823	3.21537	0.1144209	0.28531736	2.2851634	21	10 24.6	19.8
163083 2002 AF_{51}	16.8	X	359.74303	280.51545	132.03053	3.53848	0.1335055	0.29610997	2.2292941	21	—	—
163084 2002 AZ_{53}	16.3	X	21.98732	162.96942	123.53072	7.11722	0.1102357	0.28087325	2.3092049	21	8 25.9	18.5
163085 2002 AC_{62}	16.5	X	315.14222	265.95940	150.83118	1.66580	0.2107753	0.28973460	2.2618778	21	11 5.7	17.6
163086 2002 AS_{71}	16.0	X	71.29313	143.74599	91.36304	6.58770	0.1014332	0.28027441	2.3124930	21	8 28.9	18.8
163087 2002 AN_{74}	17.0	X	106.35525	185.19629	354.02182	2.32971	0.1339933	0.27582927	2.3372714	21	7 28.9	20.1
163088 2002 AO_{74}	14.9	X	46.18303	283.20865	299.57651	10.96164	0.1004183	0.17299423	3.1899335	21	6 29.3	19.0
163089 2002 AU_{77}	16.3	X	4.56297	171.90841	94.44997	7.74795	0.0822627	0.27503343	2.3417780	21	6 17.4	18.5
163090 2002 AK_{80}	16.5	X	213.82323	146.88960	349.59929	3.30736	0.1258866	0.28621160	2.2804010	21	9 25.6	19.5
163091 2002 AS_{80}	16.4	X	145.51958	259.25714	318.69765	5.62879	0.0957266	0.28841428	2.2687756	21	10 28.5	19.7
163092 2002 AR_{81}	16.6	X	316.42694	295.41723	153.73574	6.49139	0.1131792	0.29642590	2.2277098	21	—	—
163093 2002 AT_{100}	16.5	X	246.69170	165.29202	355.20197	3.12749	0.0474280	0.29289038	2.2456013	21	12 24.8	19.0
163094 2002 AU_{100}	16.2	X	318.40578	137.99869	78.79935	4.31166	0.1173218	0.25847239	2.4407686	21	1 19.3	19.2
163095 2002 AE_{102}	16.9	X	33.04639	238.70176	337.96338	1.65897	0.1436335	0.26978115	2.3720744	21	5 28.3	18.8
163096 2002 AQ_{105}	16.3	X	76.53206	70.39482	312.50134	2.53827	0.1159214	0.30289452	2.1958792	21	—	—
163097 2002 AJ_{106}	16.4	X	90.13840	257.64557	96.72756	3.53923	0.1970188	0.30160586	2.2021296	21	—	—
163098 2002 AU_{106}	15.9	X	309.98942	141.24450	113.91412	7.88845	0.0956618	0.26387187	2.4073579	21	3 4.8	19.0
163099 2002 AX_{107}	16.2	X	61.21588	111.26659	302.17317	2.97710	0.1053219	0.30437069	2.1887735	21	—	—
163100 2002 AA_{108}	16.7	X	44.12625	264.60299	117.51867	2.34311	0.1703618	0.29870635	2.2163571	21	—	—
163101 2002 AU_{112}	15.9	X	337.01553	288.28297	319.54722	9.62913	0.1130559	0.26551648	2.3974068	21	3 23.8	18.8
163102 2002 AQ_{125}	12.7	X	266.72755	324.75902	143.79687	6.26551	0.0513659	0.08424722	5.1534612	21	10 13.2	19.5
163103 2002 AP_{126}	16.3	X	30.60958	148.90288	130.07653	4.87635	0.2339487	0.27954486	2.3165146	21	9 20.8	18.4
163104 2002 AO_{129}	17.1	X	54.97305	266.76845	125.80806	3.16770	0.1518204	0.30140788	2.2030938	21	—	—
163105 2002 AC_{139}	16.0	X	99.84158	63.92389	350.17875	4.80757	0.1115879	0.30933782	2.1652798	21	1 10.9	18.0
163106 2002 AE_{140}	17.0	X	231.68652	316.75809	213.83866	2.05066	0.0573821	0.29588111	2.2304435	21	12 16.5	19.5
163107 2002 AN_{143}	16.5	X	300.94769	91.27590	144.47409	3.04532	0.1395980	0.25983301	2.4322404	21	1 18.2	19.7
163108 2002 AS_{152}	16.4	X	237.19631	136.47210	324.74659	5.94390	0.0990283	0.28255335	2.3000419	21	9 7.8	19.3
163109 2002 AR_{156}	16.9	X	131.09229	28.47050	153.47166	3.34306	0.0949391	0.27946067	2.3169798	21	8 26.6	19.9
163110 2002 AQ_{162}	16.8	X	68.58838	241.30134	209.50925	1.51512	0.0984274	0.30874621	2.1680450	21	1 7.4	18.4
163111 2002 AC_{166}	16.6	X	54.26637	43.78932	156.02107	6.85906	0.0718346	0.26846463	2.3798231	21	6 3.5	19.4
163112 2002 AD_{172}	16.7	X	58.72752	278.04673	314.17901	4.05176	0.1184956	0.27513728	2.3411887	21	8 5.2	19.1
163113 2002 AJ_{175}	16.4	X	4.81519	81.30550	129.69325	2.19145	0.1338379	0.26354724	2.4093343	21	3 22.8	18.6
163114 2002 AR_{177}	16.5	X	10.62549	252.26363	332.97398	3.64932	0.1579145	0.26539770	2.3981220	21	4 21.5	18.5
163115 2002 AF_{191}	16.3	X	61.78298	257.79582	112.09604	7.72186	0.1347269	0.29668753	2.2264000	21	—	—
163116 2002 AE_{197}	17.0	X	99.75855	280.48750	318.70725	1.64284	0.0390414	0.28454581	2.2892923	21	9 29.9	19.9
163117 2002 AK_{197}	17.2	X	355.77555	268.63083	139.07456	4.63568	0.2030338	0.29463828	2.2367113	21	—	—
163118 2002 AS_{197}	15.9	X	48.29921	317.79159	51.19994	10.48619	0.2224308	0.29893081	2.2152476	21	—	—
163119 Timmckay	16.9	X	62.80684	304.10834	346.51565	2.84469	0.0828895	0.28688041	2.2768554	21	10 28.6	19.7
163120 2002 BW_{1}	16.2	X	344.61566	17.91612	193.15418	3.57788	0.1240066	0.25865727	2.4396054	21	2 15.2	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163121 2002 BY_9	16.3	X	164.75752	50.93094	69.91346	8.06618	0.0811506	0.27501157	2.3419021	21	7 12.5	19.6
163122 2002 BL_{11}	16.7	X	329.20081	293.43646	140.77091	6.92831	0.0479930	0.29145884	2.2529483	21	12 28.8	19.2
163123 2002 BM_{15}	16.2	X	84.11067	222.65185	199.34180	2.77631	0.0774896	0.30721714	2.1752329	21	—	—
163124 2002 BC_{22}	16.7	X	347.96069	39.28758	12.93790	5.73877	0.1603572	0.29438494	2.2379943	21	—	—
163125 2002 BN_{29}	16.0	X	335.15610	353.21313	40.36340	7.48852	0.1084846	0.28880309	2.2667389	21	11 11.2	18.1
163126 2002 BO_{29}	15.9	X	258.48214	40.62784	50.86481	7.08987	0.1354023	0.28574245	2.2828964	21	9 23.1	18.6
163127 2002 BB_{30}	15.5	X	159.02864	151.76868	76.78017	14.89521	0.2560594	0.22984843	2.6394191	21	11 19.5	20.3
163128 2002 CN	15.8	X	311.41962	238.63350	10.57239	9.90429	0.2196375	0.26052825	2.4279114	21	2 9.9	19.2
163129 2002 CH_1	16.7	X	40.87376	358.15439	34.70225	5.18714	0.1528954	0.29758612	2.2219158	21	—	—
163130 2002 CB_5	16.3	X	67.81118	191.99746	344.38141	3.16590	0.1217635	0.26877244	2.3780057	21	5 27.3	18.8
163131 2002 CF_6	16.0	X	101.70902	231.74376	339.00384	6.51154	0.1173241	0.27512702	2.3412469	21	9 2.3	19.2
163132 2002 CU_{11}	18.5	X	71.11586	110.54320	157.75163	48.78189	0.2952199	0.73171083	1.2196720	21	—	—
163133 2002 CV_{13}	16.6	X	74.71334	198.16516	331.94248	6.47077	0.1350976	0.26617260	2.3934654	21	5 31.1	19.4
163134 2002 CM_{16}	16.7	X	200.58489	162.03338	323.82521	5.46188	0.1069697	0.28284007	2.2984872	21	8 28.2	19.8
163135 2002 CT_{22}	12.6	X	267.29855	147.64043	337.86594	6.70544	0.0349253	0.08481305	5.1305148	21	10 30.0	19.5
163136 2002 CX_{27}	16.8	X	357.13845	43.97674	347.25796	6.12418	0.2000537	0.29359522	2.2420058	21	—	—
163137 2002 CY_{28}	17.0	X	79.96996	352.19812	48.10526	5.95993	0.1406406	0.30527290	2.1844589	21	—	—
163138 2002 CA_{37}	16.1	X	315.24272	101.35431	145.34863	2.21318	0.1085970	0.26062352	2.4273197	21	2 24.3	19.2
163139 2002 CQ_{39}	16.4	X	271.30876	95.30181	350.04476	5.54640	0.1209841	0.28408532	2.2917655	21	9 30.8	19.0
163140 2002 CU_{47}	16.5	X	294.52032	175.53205	274.03749	6.94001	0.0828714	0.29004811	2.2602476	21	11 22.1	18.7
163141 2002 CS_{50}	17.0	X	83.32513	239.02515	126.32782	1.29640	0.1227217	0.29846671	2.2175433	21	—	—
163142 2002 CD_{51}	16.7	X	62.82823	198.18024	352.45049	1.93336	0.1558345	0.26796490	2.3827809	21	6 16.2	19.1
163143 2002 CH_{56}	16.4	X	357.39007	77.11843	163.25316	4.27639	0.0698443	0.26449433	2.4035794	21	4 28.2	18.9
163144 2002 CO_{80}	16.3	X	41.41858	86.71892	138.66852	6.95406	0.0675819	0.26999246	2.3708366	21	6 19.2	18.9
163145 2002 CS_{88}	17.0	X	304.79960	90.59028	332.35487	2.08027	0.1439471	0.28780524	2.2719752	21	10 25.2	18.7
163146 2002 CS_{92}	16.8	X	8.92813	195.02248	11.21008	1.82287	0.1878595	0.26181787	2.4199322	21	3 18.5	18.5
163147 2002 CK_{95}	16.5	X	295.21702	106.67075	149.88395	6.28913	0.1009729	0.25789816	2.4443903	21	2 12.7	19.8
163148 2002 CQ_{95}	17.4	X	146.65556	7.35780	137.50644	0.70636	0.1669749	0.27384024	2.3485756	21	7 28.3	20.9
163149 2002 CV_{106}	16.2	X	321.42052	47.47082	158.06704	6.34849	0.0711106	0.25358156	2.4720520	21	1 15.1	19.5
163150 2002 CE_{109}	16.1	X	302.12537	159.76221	141.23863	6.84244	0.1374710	0.26546587	2.3977114	21	4 19.3	19.1
163151 2002 CW_{111}	16.2	X	293.88389	141.26056	139.79542	8.14130	0.1227475	0.25998031	2.4313216	21	3 14.2	19.4
163152 2002 CQ_{112}	16.0	X	20.69709	190.41266	3.31442	8.27414	0.1386251	0.25876390	2.4389352	21	3 27.5	17.9
163153 Takuyaonishi	16.0	X	306.47930	285.67893	320.34764	11.21856	0.1709224	0.25786268	2.4446145	21	2 3.9	19.4
163154 2002 CE_{123}	15.7	X	309.64920	358.06821	307.61796	13.09379	0.1458983	0.26956858	2.3733213	21	4 25.5	19.0
163155 2002 CL_{130}	12.5	X	302.94326	275.56873	171.97481	4.39403	0.0257135	0.08435315	5.1491457	21	11 1.9	19.3
163156 2002 CX_{130}	16.9	X	320.86654	135.16821	263.20859	2.99563	0.0987761	0.28676475	2.2774676	21	10 20.9	19.1
163157 2002 CY_{130}	16.5	X	331.11521	47.72444	229.42856	0.62578	0.1588327	0.26808007	2.3820984	21	4 23.6	18.9
163158 2002 CS_{136}	16.4	X	114.65539	298.20054	233.13998	5.87779	0.0502221	0.27534944	2.3399860	21	7 15.4	19.4
163159 2002 CX_{136}	16.6	X	3.07015	212.26061	218.43925	3.30801	0.0923623	0.29791987	2.2202561	21	—	—
163160 2002 CM_{146}	16.5	X	80.88121	359.71576	171.47970	5.31229	0.1664068	0.26658907	2.3909720	21	6 18.2	19.4
163161 2002 CE_{152}	16.1	X	353.84750	146.28328	75.04244	2.29151	0.1341373	0.25993254	2.4316195	21	3 18.7	18.4
163162 2002 CG_{159}	16.5	X	266.11040	280.17881	335.04245	3.06792	0.1434306	0.25252089	2.4789694	21	1 7.5	20.2
163163 2002 CB_{165}	16.5	X	13.32260	219.05550	354.73789	6.61805	0.0677901	0.26502399	2.4003759	21	4 12.1	19.2
163164 2002 CC_{169}	16.4	X	99.02326	160.26745	357.78444	6.59376	0.1420361	0.26861781	2.3789182	21	6 20.2	19.6
163165 2002 CC_{177}	16.3	X	26.23784	189.47825	95.31634	3.56679	0.2207393	0.27831118	2.3233552	21	9 18.9	18.3
163166 2002 CX_{177}	17.0	X	291.63968	245.00541	331.46492	0.48146	0.1273842	0.25411622	2.4685834	21	—	—
163167 2002 CY_{178}	16.9	X	48.43271	200.17095	2.94660	2.58148	0.1232075	0.26899054	2.3767201	21	6 3.7	19.3
163168 2002 CL_{195}	16.9	X	272.61236	290.89018	350.65513	1.07549	0.1762542	0.25926648	2.4357823	21	2 11.3	20.6
163169 2002 CX_{199}	16.9	X	75.41576	277.64350	41.09625	2.43140	0.0195426	0.28948255	2.2631906	21	12 15.2	19.5
163170 2002 CQ_{218}	16.1	X	310.48758	211.54985	88.68185	3.12775	0.1051052	0.26589080	2.3951562	21	5 3.9	18.9
163171 2002 CU_{220}	16.9	X	146.99109	112.98646	23.34065	1.89819	0.1236929	0.27199640	2.3591775	21	7 15.3	20.2
163172 2002 CV_{225}	16.7	X	331.85935	57.79380	17.65659	5.05116	0.1118462	0.29497151	2.2350265	21	—	—
163173 2002 CX_{233}	16.1	X	236.30794	326.19463	273.43453	5.25421	0.1444761	0.24642949	2.5196541	21	—	—
163174 2002 CX_{236}	15.6	X	192.72816	324.42910	165.27595	23.74245	0.1696223	0.27585828	2.3371075	21	8 20.2	19.4
163175 2002 CB_{239}	16.8	X	165.91839	290.58925	214.91138	2.42087	0.1513260	0.27597716	2.3364364	21	8 15.7	20.3
163176 2002 CL_{241}	16.4	X	185.21027	232.31698	225.84841	5.68266	0.0577362	0.27342884	2.3509307	21	7 4.1	19.7
163177 2002 CM_{242}	16.4	X	265.34293	150.07283	289.39741	7.10057	0.1221203	0.28299727	2.2976359	21	9 9.7	19.3
163178 2002 CU_{247}	16.2	X	83.68574	183.00229	336.79527	1.95425	0.1075770	0.26499280	2.4005642	21	5 26.0	18.9
163179 2002 CF_{252}	16.4	X	95.71082	229.23709	337.42977	5.89424	0.0920692	0.27834875	2.3231461	21	8 17.7	19.2
163180 2002 CU_{270}	16.8	X	12.54397	282.07387	333.82291	1.76796	0.1593104	0.27201794	2.3590529	21	6 18.4	18.5
163181 2002 CL_{272}	16.3	X	301.98471	188.75697	74.75928	7.58928	0.0843409	0.25987924	2.4319520	21	3 9.1	19.5
163182 2002 CZ_{278}	16.3	X	304.67528	284.10558	318.73425	9.84407	0.1361883	0.25828160	2.4419704	21	2 2.2	19.6
163183 2002 CZ_{282}	16.3	X	193.24078	4.63636	93.34000	6.09131	0.1122649	0.27457255	2.3443978	21	7 13.0	19.7
163184 2002 CZ_{299}	16.2	X	304.52857	147.32055	143.65645	5.18529	0.1340597	0.26787101	2.3833376	21	4 8.1	19.1
163185 2002 DJ_2	16.5	X	178.46181	73.51791	166.78473	11.92056	0.2660037	0.23574527	2.5952192	21	12 15.8	21.2
163186 2002 DA_{13}	17.0	X	8.92245	239.00291	316.41713	1.74359	0.1136542	0.25946042	2.4345683	21	3 8.2	19.3
163187 2002 DD_{16}	16.8	X	22.08738	145.77073	98.04202	2.18676	0.1413168	0.26767506	2.3845007	21	6 18.8	18.7
163188 2002 ES_4	16.8	X	13.66888	222.90079	5.24931	1.27421	0.1254873	0.26382319	2.4076540	21	5 5.5	19.1
163189 2002 EU_6	12.9	X	356.65432	50.37337	2.84273	7.06507	0.0950856	0.08356443	5.1814951	21	11 24.6	19.3
163190 2002 EV_7	16.1	X	128.25791	156.23583	15.43164	5.40510	0.1711311	0.27301428	2.3533100	21	8 17.0	19.6
163191 2002 EQ_9	19.4	X	255.42388	44.20374	179.15477	16.30043	0.4643283	0.39645253	1.8351656	21	—	—
163192 2002 EB_{11}	16.0	X	23.44139	42.87796	158.33963	2.85922	0.1335236	0.26087466	2.4257616	21	4 15.1	18.3
163193 2002 EQ_{12}	16.0	X	149.26700	253.88844	355.72558	23.64922	0.2469074	0.23141338	2.6275061	21	11 28.4	21.1
163194 2002 EC_{14}	16.2	X	188.57971	331.90725	281.24337	4.38109	0.2681885	0.23964072	2.5670183	21	—	—
163195 2002 EP_{21}	16.4	X	1.45727	354.78774	38.74645	5.65726	0.1991278	0.28985178	2.2612682	21	—	—
163196 2002 EN_{24}	12.6	X	29.77112	188.09067	169.11935	9.14198	0.0248735	0.08105270	5.2879952	21	11 3.1	19.5
163197 2002 EZ_{25}	16.7	X	236.69374	257.44784	327.13422	3.33282	0.1830443	0.24310583	2.5425673	21	—	—
163198 2002 EX_{27}	16.7	X	138.34532	22.60124	140.99952	2.81501	0.0817842	0.27323335	2.3520520	21	8 8.5	19.8
163199 2002 ED_{29}	17.2	X	34.64692	153.88865	35.17266	2.46039	0.1330602	0.26172629	2.4204967	21	4 17.9	19.2
163200 2002 EF_{36}	16.8	X	20.43010	24.93140	26.96651	3.16594	0.1198745	0.29417394	2.2390644	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163201 2002 EB_{39}	16.3	X	179.34065	295.84332	341.69046	11.84808	0.3088814	0.24206820	2.5498280	21	—	—
163202 2002 EN_{40}	16.4	X	219.84924	272.23005	179.72671	5.95709	0.1577384	0.27641790	2.3339521	21	7 29.1	19.9
163203 2002 EZ_{40}	16.5	X	202.03847	306.86189	185.37969	6.05387	0.2054178	0.27800799	2.3250441	21	8 30.6	20.3
163204 2002 ED_{41}	16.8	X	191.82143	303.88021	191.39961	3.05043	0.0900733	0.27871694	2.3210998	21	8 31.7	20.1
163205 2002 EP_{42}	17.0	X	152.55890	344.43232	182.36356	2.57265	0.0650141	0.27638428	2.3341414	21	8 28.9	20.1
163206 2002 EP_{44}	16.6	X	210.26397	18.68148	289.51842	0.57053	0.1655732	0.25143208	2.4861210	21	1 19.9	20.5
163207 2002 EW_{44}	16.2	X	237.05272	7.46197	333.01818	2.83949	0.1345755	0.26161344	2.4211926	21	3 23.9	19.9
163208 2002 EN_{48}	13.2	X	217.09144	331.34551	206.48922	2.30128	0.0348713	0.08173405	5.2585664	21	11 4.8	20.2
163209 2002 EC_{49}	16.5	X	163.49502	120.19163	136.00880	5.18768	0.2434885	0.23684410	2.5871861	21	12 23.4	20.9
163210 2002 EJ_{49}	16.8	X	274.10716	93.48864	164.53732	2.63907	0.1542320	0.25397662	2.4694878	21	1 16.8	20.4
163211 2002 EA_{50}	16.3	X	269.20701	314.22704	346.34002	6.28197	0.0986957	0.26024977	2.4296431	21	3 10.9	19.6
163212 2002 EZ_{56}	17.1	X	211.45758	284.39838	198.34448	3.81905	0.0938802	0.28022455	2.3127672	21	9 6.2	20.2
163213 2002 EJ_{62}	16.0	X	300.63614	141.31865	182.61424	3.41156	0.1750361	0.26716755	2.3875194	21	5 11.3	18.8
163214 2002 EY_{66}	16.5	X	316.66845	39.67599	195.34058	4.12562	0.0733133	0.25628280	2.4546509	21	2 15.2	19.5
163215 2002 EB_{67}	16.8	X	158.32649	170.58333	310.44006	1.51944	0.1767597	0.27182228	2.3601848	21	7 8.6	20.4
163216 2002 EN_{68}	12.6	X	36.68066	18.94775	352.91551	6.72600	0.0379155	0.08270505	5.2173267	21	11 24.7	19.4
163217 2002 EY_{70}	16.6	X	332.79648	331.74998	267.09502	2.14527	0.1382124	0.25781999	2.4448843	21	3 5.4	19.5
163218 2002 EA_{78}	16.3	X	302.27101	168.54532	199.39661	5.51946	0.1721663	0.27136424	2.3628399	21	7 17.2	18.8
163219 2002 EM_{78}	17.3	X	193.63768	293.38238	170.71409	2.47288	0.1155108	0.27659620	2.3329490	21	7 21.0	20.7
163220 2002 EN_{85}	17.0	X	160.91536	352.63185	149.15542	2.52891	0.1447234	0.27398635	2.3477405	21	8 6.4	20.4
163221 2002 EN_{88}	16.0	X	356.31711	224.68614	27.51348	7.56312	0.1543700	0.26198578	2.4188981	21	5 4.9	18.3
163222 2002 EP_{88}	16.9	X	77.83936	132.37129	35.58055	3.90851	0.1428061	0.26427848	2.4048880	21	6 4.1	19.8
163223 2002 EL_{90}	16.7	X	286.08335	9.28058	76.90560	2.80822	0.0386551	0.28426909	2.2907778	21	11 8.3	19.2
163224 2002 ES_{102}	16.4	X	265.62838	106.12701	167.83677	6.23740	0.1012776	0.25646847	2.4534661	21	1 31.4	20.0
163225 2002 EU_{102}	17.4	X	319.87047	47.53757	195.24528	1.26611	0.1455088	0.25889236	2.4381283	21	2 19.2	20.3
163226 2002 EA_{103}	16.0	X	199.56822	329.22369	356.22420	0.75059	0.1945217	0.25322282	2.4743862	21	2 1.2	20.1
163227 2002 EA_{104}	15.5	X	195.93093	131.75759	109.98510	9.21847	0.1564939	0.23856225	2.5747490	21	—	—
163228 2002 EU_{105}	16.5	X	212.55227	138.70361	122.54599	5.10352	0.1884374	0.24361974	2.5389904	21	—	—
163229 2002 ER_{117}	16.4	X	298.61527	314.69877	316.89455	5.45658	0.1133159	0.26093711	2.4253746	21	3 5.1	19.7
163230 2002 EG_{125}	16.0	X	226.27049	257.86432	75.00510	3.48501	0.2082904	0.25865972	2.4395900	21	3 4.8	20.1
163231 2002 EH_{129}	16.4	X	183.82012	270.33594	358.92012	12.35173	0.1751362	0.23992969	2.5649568	21	—	—
163232 2002 ED_{135}	15.9	X	187.61132	69.86660	199.86905	7.17441	0.1795011	0.24082504	2.5585954	21	—	—
163233 2002 EA_{139}	16.3	X	158.73579	122.06497	158.60084	9.54024	0.1187287	0.23969459	2.5666337	21	—	—
163234 2002 EG_{140}	16.6	X	304.55083	211.21160	80.05904	2.98656	0.1516536	0.26351954	2.4095032	21	4 5.6	19.7
163235 2002 ED_{149}	16.7	X	319.31687	276.44449	159.17083	3.63714	0.1563270	0.28860699	2.2677656	21	12 17.7	18.4
163236 2002 EH_{149}	16.6	X	341.02607	149.08836	155.63013	1.62776	0.1797791	0.26802316	2.3824356	21	6 25.2	18.3
163237 2002 EO_{151}	16.6	X	202.76738	47.89139	152.10731	1.53544	0.0745646	0.28579975	2.2825912	21	12 13.4	19.3
163238 2002 EQ_{151}	12.3	X	342.28331	234.43217	183.31256	9.08894	0.0651700	0.08037900	5.3175018	21	11 13.5	19.0
163239 2002 EU_{156}	17.6	X	220.20619	267.10982	153.21699	1.94639	0.1889581	0.27403569	2.3474587	21	6 16.4	21.1
163240 2002 EM_{157}	12.4	X	89.28959	337.78535	320.42400	8.80344	0.1328863	0.08033866	5.3192817	21	11 12.4	19.6
163241 2002 ED_{161}	16.8	X	248.99406	104.90052	162.00545	2.36580	0.1412869	0.25272045	2.4776643	21	1 4.9	20.7
163242 2002 FE	15.2	X	253.80069	98.79040	358.84512	21.80012	0.3345300	0.28219590	2.3019837	21	8 30.7	18.7
163243 2002 FB_{3}	16.5	X	129.82945	148.31235	203.58463	20.27891	0.6017144	1.48292028	0.7615952	21	—	—
163244 Matthewhill	17.0	X	296.31964	170.16465	145.43166	1.09758	0.1796782	0.26671815	2.3902005	21	4 22.3	20.0
163245 2002 FW_{23}	12.5	X	343.98386	231.65816	165.09237	1.92698	0.0640308	0.07948504	5.3572976	21	10 22.4	19.3
163246 2002 FH_{28}	16.5	X	342.93259	267.06584	319.61960	6.43370	0.0591566	0.25914039	2.4365724	21	3 14.1	19.5
163247 2002 FP_{28}	15.8	X	227.37223	195.45736	59.99701	6.47204	0.2390632	0.24454467	2.5325844	21	—	—
163248 2002 FJ_{38}	17.3	X	108.92486	59.43090	105.63565	3.89173	0.0797823	0.26970389	2.3725274	21	7 4.2	20.4
163249 2002 GT	18.5	X	21.18570	135.10769	201.74421	6.96897	0.3349069	0.63228104	1.3444024	21	—	—
163250 2002 GH_{1}	15.5	X	133.07603	351.20871	170.16197	35.10071	0.5391809	0.22305428	2.6927478	21	8 20.3	21.4
163251 2002 GX_{4}	15.8	X	280.80713	281.98699	169.02324	22.33235	0.3708141	0.28526704	2.2854321	21	9 10.7	18.3
163252 2002 GD_{11}	17.6	X	30.71575	200.99461	95.63010	9.00453	0.4413575	0.31711283	2.1297413	21	11 26.1	20.4
163253 2002 GS_{18}	15.7	X	106.92103	240.69383	22.73024	8.25651	0.2878153	0.22528495	2.6749434	21	11 19.5	20.5
163254 2002 GL_{24}	16.3	X	238.65924	171.48005	187.19646	6.45982	0.1511668	0.26332826	2.4106698	21	4 18.5	19.8
163255 Adrianhill	16.8	X	249.29014	324.62788	351.42636	2.09419	0.1994509	0.25962159	2.4335607	21	3 2.5	20.7
163256 2002 GU_{35}	12.4	X	45.43517	2.15318	4.66776	11.52560	0.0502758	0.08267497	5.2185919	21	11 29.6	19.3
163257 2002 GR_{36}	16.1	X	230.67729	143.55318	209.74911	5.72590	0.1383157	0.25789836	2.4443890	21	4 3.1	19.9
163258 2002 GT_{37}	15.2	X	181.78768	153.70711	105.03155	18.40889	0.1996186	0.23909565	2.5709183	21	—	—
163259 2002 GS_{40}	16.8	X	115.39539	261.94307	273.76110	2.07310	0.1146463	0.27055786	2.3675325	21	7 31.4	20.1
163260 2002 GO_{43}	16.4	X	259.41235	214.57017	198.18557	5.57371	0.0972269	0.27356590	2.3501454	21	7 29.9	19.4
163261 2002 GF_{45}	16.8	X	177.21746	116.25836	333.40004	0.86711	0.1487194	0.26813531	2.3817712	21	6 14.6	20.6
163262 2002 GW_{63}	16.4	X	153.18425	322.44110	156.32504	2.74526	0.1773372	0.26817062	2.3815622	21	6 30.4	20.1
163263 2002 GA_{71}	12.3	X	34.87823	254.73635	118.15673	26.00568	0.0573085	0.08325936	5.1941442	21	12 3.7	19.3
163264 2002 GY_{72}	16.1	X	212.79389	126.54861	110.04376	3.64991	0.0942334	0.23976019	2.5661655	21	—	—
163265 2002 GU_{73}	15.9	X	112.25925	189.67276	190.09465	8.62077	0.0474250	0.24561429	2.5252263	21	—	—
163266 2002 GF_{75}	16.8	X	54.20661	234.30892	321.89178	1.76708	0.1166388	0.26369941	2.4084074	21	6 2.9	19.4
163267 2002 GQ_{77}	16.4	X	45.72908	63.54256	150.01532	6.69177	0.0594417	0.26431868	2.4046441	21	6 8.3	19.2
163268 2002 GG_{81}	16.2	X	145.08521	147.79293	154.11740	6.24365	0.1353840	0.23778049	2.5803893	21	—	—
163269 2002 GX_{84}	15.1	X	28.00099	122.55040	182.04580	15.63117	0.2855705	0.21806856	2.7336359	21	10 23.1	18.2
163270 2002 GE_{86}	16.1	X	76.98026	111.50787	185.65089	12.42673	0.2696859	0.22501243	2.6771028	21	12 6.8	20.6
163271 2002 GZ_{87}	15.8	X	107.32717	109.48895	181.94357	11.41116	0.2000239	0.22876945	2.6477117	21	12 19.9	20.4
163272 2002 GV_{93}	15.8	X	207.15096	270.63885	325.77807	5.20776	0.1535524	0.23810425	2.5780497	21	—	—
163273 2002 GN_{102}	16.4	X	97.15222	325.59720	148.51431	9.39286	0.1777796	0.25967606	2.4332203	21	4 26.7	19.6
163274 2002 GP_{106}	15.8	X	156.41036	148.18096	117.10286	8.12196	0.1370170	0.23468827	2.6030057	21	12 31.3	20.0
163275 2002 GH_{107}	16.1	X	326.64082	100.97444	141.78650	5.48894	0.0672474	0.25821133	2.4424135	21	3 15.3	19.1
163276 2002 GT_{107}	15.6	X	139.54049	251.42241	47.58442	13.38061	0.1386678	0.23757363	2.5818870	21	—	—
163277 2002 GO_{110}	16.0	X	167.71284	189.29577	61.54436	5.32058	0.1363735	0.23455695	2.6039772	21	12 24.5	20.0
163278 2002 GD_{114}	16.0	X	245.02565	241.93938	65.92389	7.09487	0.1357739	0.25414774	2.4683792	21	2 23.9	19.9
163279 2002 GB_{117}	16.0	X	129.64482	272.66446	51.55767	15.02313	0.1340644	0.23851858	2.5750633	21	—	—
163280 2002 GF_{117}	16.5	X	115.30156	118.22517	167.65284	7.84911	0.1787294	0.23022430	2.6365455	21	12 19.5	21.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163281 2002 GL_{117}	16.2	X	169.03855	202.72877	89.00331	5.75595	0.2308687	0.23930165	2.5694426	21	—	—
163282 2002 GR_{119}	16.1	X	107.61099	124.93483	163.87169	11.86309	0.2156230	0.23008652	2.6375979	21	12 18.6	20.7
163283 2002 GV_{120}	16.8	X	268.70942	76.87188	31.11154	3.07658	0.1951385	0.28287135	2.2983178	21	10 18.4	19.2
163284 2002 GZ_{128}	16.5	X	199.70862	47.92898	247.67064	0.69967	0.1019750	0.24587314	2.5234536	21	—	—
163285 2002 GK_{136}	16.9	X	194.38821	92.22537	358.36093	2.16160	0.1765013	0.27067701	2.3668376	21	7 2.5	20.7
163286 2002 GT_{137}	16.0	X	263.68630	262.78297	327.73424	3.83131	0.0557340	0.24597421	2.5227623	21	—	—
163287 2002 GB_{140}	16.2	X	71.33273	248.42255	219.61485	6.13916	0.1013824	0.25319142	2.4745908	21	2 19.5	19.0
163288 2002 GD_{140}	16.1	X	256.11817	160.70208	64.32855	4.18735	0.0518303	0.24314252	2.5423116	21	—	—
163289 2002 GE_{140}	16.7	X	122.02250	286.49410	29.32017	5.04761	0.2338313	0.23504486	2.6003723	21	—	—
163290 2002 GE_{141}	16.4	X	210.43459	63.14979	184.28066	3.88395	0.0866146	0.23922398	2.5699987	21	—	—
163291 2002 GT_{143}	15.9	X	308.72732	137.99821	224.97398	6.45646	0.1339243	0.26847977	2.3797336	21	7 26.7	18.4
163292 2002 GB_{151}	16.3	X	151.81448	235.91870	229.14714	5.82272	0.0773205	0.26607893	2.3940271	21	6 4.5	19.7
163293 2002 GL_{152}	15.8	X	158.67624	250.10882	74.46069	12.71512	0.2967655	0.24101743	2.5572337	21	1 6.1	20.1
163294 2002 GZ_{153}	15.9	X	151.66514	1.88987	93.82965	10.49720	0.1467075	0.26346681	2.4098246	21	5 29.3	19.5
163295 2002 HW	19.3	X	354.42200	77.68969	32.33800	5.81553	0.6445534	0.25487967	2.4636514	21	—	—
163296 2002 HK_{2}	16.0	X	137.92725	117.02711	170.40812	12.19185	0.1669070	0.23509725	2.5999860	21	—	—
163297 2002 HD_{6}	16.3	X	355.30545	52.08398	130.87850	3.10250	0.1381880	0.25375969	2.4708950	21	1 24.5	19.1
163298 2002 HG_{8}	15.3	X	193.42666	198.61911	37.93192	16.00685	0.1517686	0.23385981	2.6091497	21	12 30.8	19.6
163299 2002 HP_{16}	16.9	X	166.70345	80.83137	193.89930	2.46001	0.1796001	0.23702739	2.5858522	21	—	—
163300 2002 JJ_{4}	15.5	X	162.42243	144.07928	128.97885	28.20775	0.0587609	0.23460921	2.6035905	21	—	—
163301 2002 JE_{8}	15.9	X	130.59944	340.91936	159.57895	7.84454	0.1718950	0.26745104	2.3858320	21	7 6.0	19.5
163302 2002 JC_{12}	15.4	X	82.98279	231.00608	41.70000	9.65323	0.1674269	0.22217163	2.6998749	21	11 1.6	19.5
163303 2002 JS_{15}	15.6	X	67.45570	201.51422	87.11251	10.96609	0.2286889	0.22097844	2.7095850	21	11 14.5	19.7
163304 2002 JF_{25}	15.9	X	132.95938	153.59087	114.31838	4.76335	0.1581220	0.22931681	2.6434968	21	12 12.8	20.1
163305 2002 JR_{35}	15.8	X	84.76138	199.95149	117.94399	3.13169	0.2781507	0.22529372	2.6748740	21	—	—
163306 2002 JC_{42}	16.4	X	322.85616	37.63240	212.67302	6.04045	0.0785549	0.25612934	2.4556313	21	3 15.3	19.5
163307 2002 JU_{45}	15.7	X	302.33746	156.74496	228.49760	7.29931	0.1266477	0.27208162	2.3586848	21	8 18.7	18.3
163308 2002 JV_{45}	16.4	X	20.69953	169.32478	354.99791	1.95527	0.1175627	0.25371146	2.4712081	21	2 14.5	19.0
163309 2002 JC_{59}	15.4	X	297.48348	94.41065	57.84528	15.81167	0.0744582	0.23702846	2.5858444	21	—	—
163310 2002 JH_{60}	15.7	X	66.01266	278.79657	52.21140	8.91579	0.3578241	0.22450404	2.6811428	21	—	—
163311 2002 JQ_{66}	15.8	X	302.08987	336.66972	194.75848	4.23052	0.0789885	0.24120999	2.5558725	21	—	—
163312 2002 JE_{69}	16.0	X	181.06791	164.25368	98.81357	9.67027	0.1550187	0.23717294	2.5847941	21	—	—
163313 2002 JG_{75}	15.8	X	144.60442	26.83721	244.17634	14.67760	0.1911045	0.22940565	2.6428143	21	12 24.9	20.3
163314 2002 JY_{82}	16.0	X	169.14799	256.04349	220.46903	5.72187	0.0552243	0.26750612	2.3855045	21	7 9.3	19.3
163315 2002 JT_{83}	15.5	X	49.77534	256.04789	41.98033	11.42399	0.1532020	0.22167184	2.7039316	21	10 24.7	18.9
163316 2002 JO_{85}	16.4	X	203.80976	247.98490	26.78323	3.31757	0.0560348	0.24136152	2.5548027	21	—	—
163317 2002 JM_{87}	16.0	X	159.27861	302.42484	47.38203	13.37095	0.2922337	0.24115420	2.5562667	21	2 9.8	20.6
163318 2002 JC_{89}	16.2	X	121.42316	281.20424	29.03407	2.08549	0.1990293	0.23267017	2.6180358	21	—	—
163319 2002 JB_{98}	15.5	X	243.96214	26.45394	173.36342	12.03217	0.1712708	0.23620650	2.5918398	21	—	—
163320 2002 JS_{106}	15.7	X	121.30591	32.80045	284.81259	6.41521	0.2050396	0.23428258	2.6060098	21	—	—
163321 2002 JY_{106}	15.8	X	161.40880	295.25538	348.35825	9.47569	0.1439894	0.23600389	2.5933230	21	—	—
163322 2002 JJ_{112}	15.7	X	26.08656	48.77328	264.85019	8.21263	0.2057807	0.21757752	2.7377474	21	10 12.6	19.0
163323 2002 JS_{115}	16.6	X	254.64920	38.83831	193.43578	6.10443	0.0937174	0.24299043	2.5433723	21	—	—
163324 2002 JJ_{116}	15.8	X	134.82864	299.74436	5.77467	7.51323	0.1993894	0.23401799	2.6079738	21	—	—
163325 2002 JZ_{120}	16.1	X	156.72286	119.97027	169.62756	13.83017	0.1818760	0.23522076	2.5990758	21	—	—
163326 2002 JF_{124}	15.6	X	116.67999	242.53735	78.87597	15.70441	0.1214270	0.23425251	2.6062329	21	—	—
163327 2002 JR_{131}	16.3	X	124.07784	106.64676	211.18543	4.55794	0.3724701	0.23231674	2.6206903	21	—	—
163328 2002 JU_{132}	16.7	X	323.41923	256.80140	231.09845	3.88199	0.1267240	0.29260707	2.2470505	21	—	—
163329 2002 JO_{146}	16.1	X	87.85375	116.12474	187.19375	9.44869	0.2102841	0.22476246	2.6790873	21	12 17.5	20.5
163330 2002 JJ_{147}	16.0	X	266.05684	199.58110	206.00138	5.97975	0.0913918	0.26850738	2.3795704	21	7 29.5	19.1
163331 2002 KX_{5}	16.0	X	47.32470	21.73232	124.86296	5.72410	0.1292415	0.25448251	2.4662140	21	3 12.5	18.4
163332 2002 KZ_{5}	16.5	X	112.58174	211.31204	57.03756	4.85879	0.1742296	0.22507819	2.6765813	21	11 25.1	20.7
163333 2002 KU_{8}	15.4	X	75.90704	240.51637	81.72812	14.52587	0.2109889	0.22614850	2.6681296	21	12 28.8	19.6
163334 2002 KB_{15}	15.9	X	137.09221	119.25788	224.67672	3.27343	0.3182147	0.23441864	2.6050014	21	1 12.9	20.0
163335 2002 LJ	17.0	X	116.04177	155.64159	247.05020	56.30688	0.6667551	0.64403182	1.3279993	21	—	—
163336 2002 LE_{5}	15.7	X	146.40636	164.49294	93.41820	18.94231	0.1616090	0.23023387	2.6364725	21	12 13.6	20.0
163337 2002 LF_{11}	16.0	X	160.30013	194.92872	151.18285	5.86623	0.2237831	0.23882920	2.5728301	21	1 26.4	20.0
163338 2002 LS_{13}	15.5	X	76.34929	43.84270	256.80695	15.24384	0.2460161	0.22273134	2.6953500	21	12 6.8	19.7
163339 2002 LU_{24}	15.4	X	174.75232	101.74065	181.16953	7.57194	0.2110188	0.23461321	2.6035609	21	—	—
163340 2002 LW_{28}	15.6	X	25.03713	37.40078	246.17332	7.20837	0.1937978	0.21067714	2.7972060	21	8 26.1	18.7
163341 2002 LP_{32}	15.5	X	68.56800	94.71169	211.81064	9.96447	0.2001171	0.22257671	2.6965982	21	12 2.1	19.6
163342 2002 LB_{44}	14.6	X	1.31479	141.64688	242.34564	9.93444	0.2650477	0.21409567	2.7673502	21	12 16.1	17.2
163343 2002 LC_{53}	15.4	X	87.45531	157.38576	93.34884	7.53016	0.1534735	0.21662051	2.7458049	21	10 11.6	19.5
163344 2002 MS_{2}	15.5	X	42.69655	330.33114	290.82342	6.15355	0.2100119	0.21017463	2.8016628	21	8 29.4	18.9
163345 2002 MK_{5}	15.9	X	354.85153	123.13300	205.74541	3.49109	0.1063922	0.21056402	2.7982076	21	8 29.4	19.1
163346 2002 NS	15.4	X	18.31600	197.60256	88.34958	9.19240	0.1990568	0.21096473	2.7946632	21	8 25.1	18.4
163347 2002 NK_{4}	15.3	X	325.93730	124.77071	157.11412	11.26856	0.0701575	0.20037901	2.8922416	21	5 15.0	19.3
163348 2002 NN_{4}	20.1	X	204.80273	222.17480	259.46557	5.42017	0.4345728	1.20232635	0.8758999	21	—	—
163349 2002 NZ_{4}	15.4	X	348.44816	89.54815	285.36921	7.32283	0.1785625	0.21456586	2.7633059	21	10 23.6	18.2
163350 2002 NP_{26}	15.1	X	52.66885	213.62322	143.76584	10.92451	0.2384076	0.21864990	2.7287884	21	—	—
163351 2002 NW_{32}	14.5	X	186.80597	170.77818	257.67761	10.01639	0.3364901	0.19018317	2.9947092	21	5 29.8	20.1
163352 2002 NR_{42}	15.6	X	54.31992	271.92259	48.26671	5.90862	0.0532466	0.21812063	2.7332009	21	11 11.3	19.3
163353 2002 NN_{43}	15.4	X	269.68528	278.99992	38.69946	5.90375	0.2215355	0.19596621	2.9354989	21	3 29.0	19.9
163354 2002 NW_{43}	15.9	X	131.03821	119.13653	187.60924	13.98817	0.1257412	0.23089711	2.6314213	21	—	—
163355 2002 NQ_{49}	16.0	X	3.35420	233.76949	137.38534	2.34449	0.2289441	0.21466311	2.7624713	21	11 27.6	18.7
163356 2002 NJ_{59}	15.3	X	317.84429	213.83979	128.98425	16.05882	0.1495669	0.20451314	2.8531322	21	7 11.4	18.8
163357 2002 NH_{63}	16.1	X	0.92272	2.48883	346.20117	2.72595	0.1335897	0.21375340	2.7703036	21	10 9.7	19.2
163358 2002 NN_{63}	16.2	X	154.56479	217.34102	60.56386	2.59280	0.1060264	0.22789991	2.6544422	21	—	—
163359 2002 OJ_{5}	15.8	X	193.62412	82.45510	150.64974	12.61826	0.1271207	0.22741426	2.6582200	21	12 28.1	20.0
163360 2002 OD_{7}	14.8	X	266.45886	117.24949	267.27170	9.63132	0.1191872	0.20189676	2.8777285	21	6 27.8	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163361 2002 OX_9	15.1	X	223.51892	103.47761	281.95831	10.81104	0.0733265	0.19667784	2.9284137	21	5 13.6	19.7
163362 2002 OZ_{14}	14.7	X	201.66186	91.21062	280.66311	12.64290	0.0940819	0.19110895	2.9850300	21	3 29.8	19.6
163363 2002 OV_{19}	15.8	X	98.36834	57.48385	152.31942	12.13113	0.3036840	0.21429137	2.7656651	21	9 14.2	20.4
163364 2002 OD_{20}	18.8	X	62.68212	275.22535	259.91874	4.19219	0.3689441	0.61794085	1.3651219	21	6 27.9	16.6
163365 2002 ON_{20}	15.6	X	353.63607	165.55809	163.63027	9.70755	0.1658181	0.21032543	2.8003235	21	8 29.9	18.4
163366 2002 PM	15.8	X	20.55938	232.96540	139.20904	6.61654	0.3228626	0.21634651	2.7481227	21	—	—
163367 2002 PP	15.0	X	327.55952	225.05941	167.45109	7.12599	0.2137254	0.21081234	2.7960099	21	10 7.2	17.5
163368 2002 PF_3	14.9	X	281.14057	136.89713	248.69861	11.96488	0.1078192	0.20405328	2.8574173	21	7 17.4	18.9
163369 2002 PK_{17}	15.5	X	259.62115	208.54008	279.06287	8.66952	0.0493576	0.21985747	2.7187873	21	11 11.1	19.3
163370 2002 PG_{21}	15.8	X	95.00402	73.61561	158.23883	6.59199	0.0048030	0.21016578	2.8017414	21	9 2.5	19.7
163371 2002 PL_{27}	15.2	X	300.86857	110.32232	147.05793	9.27288	0.0436623	0.19181226	2.9777288	21	3 13.5	19.3
163372 2002 PP_{38}	15.7	X	268.51442	220.31454	157.64782	2.41365	0.0828999	0.20328542	2.8646081	21	6 27.1	19.6
163373 2002 PZ_{39}	18.9	X	251.92126	259.97898	328.90161	1.66821	0.5462486	0.55355864	1.4690175	21	—	—
163374 2002 PG_{44}	15.2	X	296.10504	223.32320	163.56740	8.56187	0.3283991	0.20208323	2.8759579	21	7 6.9	19.0
163375 2002 PT_{48}	14.7	X	170.31347	149.14840	282.02327	9.31243	0.0676985	0.19281932	2.9673517	21	5 13.1	19.3
163376 2002 PM_{54}	15.0	X	9.13329	220.18163	150.28456	10.32032	0.2323863	0.21145518	2.7903402	21	12 8.3	18.2
163377 2002 PW_{62}	15.0	X	338.09740	70.38209	314.16807	7.88294	0.1684940	0.21263959	2.7799691	21	10 14.3	17.9
163378 2002 PY_{78}	15.4	X	219.55212	350.20621	31.81790	7.17026	0.0711882	0.19629364	2.9322336	21	5 6.3	19.6
163379 2002 PK_{85}	15.6	X	295.97672	260.34760	75.23577	2.82694	0.0941008	0.20064454	2.8896893	21	6 6.0	19.2
163380 2002 PN_{86}	15.6	X	325.49793	210.22234	194.17280	7.90534	0.2181207	0.21255119	2.7807398	21	10 19.6	18.0
163381 2002 PV_{101}	15.3	X	2.88463	218.94675	181.50539	9.44045	0.1693042	0.21825507	2.7320784	21	12 28.3	18.6
163382 2002 PZ_{116}	15.3	X	210.33198	38.33534	325.64566	11.37268	0.1328561	0.18948483	3.0020627	21	3 29.8	20.2
163383 2002 PP_{118}	15.6	X	348.77651	188.61165	199.79935	5.93795	0.0478149	0.21527743	2.7572135	21	11 9.4	19.1
163384 2002 PV_{125}	15.6	X	344.69452	339.12926	38.36301	2.38263	0.2547754	0.21135140	2.7912536	21	10 25.9	17.6
163385 2002 PL_{127}	16.1	X	88.15363	169.33514	82.24415	3.39185	0.2643382	0.21496121	2.7599167	21	10 22.1	20.6
163386 2002 PP_{156}	16.5	X	302.52091	220.94732	150.68326	2.48403	0.0956414	0.20686432	2.8314723	21	8 3.2	20.2
163387 2002 PZ_{178}	15.7	X	332.50567	154.51604	192.42762	5.56865	0.0204759	0.20807392	2.8204882	21	8 20.1	19.5
163388 2002 QG_1	14.8	X	232.68723	187.19362	236.35788	5.10188	0.1212351	0.19935119	2.9021743	21	7 8.4	19.2
163389 2002 QS_1	15.5	X	147.36248	275.00179	135.90267	4.08853	0.2306494	0.18741925	3.0240798	21	4 9.9	20.5
163390 2002 QM_4	14.9	X	133.19463	104.92992	315.87601	8.67716	0.1021192	0.18765559	3.0215402	21	3 21.9	19.5
163391 2002 QU_{12}	15.3	X	268.75842	168.74776	293.74017	7.84337	0.1040900	0.21369996	2.7707654	21	10 10.5	19.2
163392 2002 QH_{32}	16.0	X	7.50643	259.01588	26.45299	4.68661	0.1366638	0.20455694	2.8527249	21	7 24.9	19.2
163393 2002 QR_{34}	15.1	X	229.15928	161.88758	148.06647	18.57321	0.0556759	0.18617346	3.0375553	21	2 20.6	19.6
163394 2002 QC_{39}	15.8	X	177.11797	260.29977	147.55334	1.73772	0.1507146	0.18909516	3.0061855	21	4 26.8	20.5
163395 2002 QJ_{42}	15.1	X	23.54030	294.39995	0.17769	8.49106	0.2966990	0.21098991	2.7944408	21	9 28.6	17.8
163396 2002 QR_{43}	15.4	X	350.57003	9.80807	19.09979	7.83303	0.2159501	0.21416701	2.7667357	21	11 21.9	18.2
163397 2002 QU_{49}	15.7	X	170.79691	16.00118	31.75108	4.24985	0.0713230	0.19042536	2.9921695	21	4 16.8	20.0
163398 2002 QQ_{55}	15.6	X	309.16947	97.46323	152.43266	10.68954	0.0593526	0.19013140	2.9952528	21	3 12.5	19.7
163399 2002 QT_{64}	16.1	X	102.45379	183.80341	7.56107	1.77846	0.0100644	0.20368189	2.8608896	21	7 21.5	20.0
163400 2002 QK_{74}	16.0	X	354.92951	186.63272	147.58098	6.48429	0.1369536	0.20854697	2.8162214	21	9 9.4	19.0
163401 2002 QP_{83}	16.1	X	287.98599	198.58556	226.65703	3.24831	0.0855451	0.21073407	2.7967021	21	9 23.9	19.6
163402 2002 QA_{86}	15.9	X	23.88182	136.53414	213.88311	2.07660	0.0833255	0.21527129	2.7572659	21	11 13.2	19.2
163403 2002 QT_{86}	16.2	X	331.69724	150.08870	162.47637	6.28823	0.0594990	0.20278263	2.8693413	21	7 1.7	20.0
163404 2002 QD_{90}	15.6	X	110.54849	201.84193	23.00576	9.45026	0.0965293	0.20976802	2.8052820	21	9 25.8	19.7
163405 2002 QL_{103}	15.1	X	253.40895	232.43804	120.24765	11.46554	0.1239854	0.19296105	2.9658985	21	5 7.4	19.7
163406 2002 RN_2	15.2	X	334.36900	245.03756	169.08079	7.90140	0.2184123	0.21176537	2.7876148	21	11 25.4	17.8
163407 2002 RH_5	14.8	X	347.47546	292.17405	285.53394	12.32936	0.1156416	0.18790658	3.0188490	21	3 9.9	18.8
163408 2002 RC_7	15.4	X	186.49204	262.35858	154.46145	2.29420	0.1108907	0.19531522	2.9420180	21	5 15.6	20.1
163409 2002 RC_{12}	15.3	X	220.38516	331.25464	348.70394	7.53242	0.1744351	0.18544445	3.0455109	21	2 20.8	20.3
163410 2002 RK_{18}	15.1	X	207.39164	271.35581	118.42859	3.03272	0.0900547	0.19215202	2.9742176	21	5 4.3	19.7
163411 2002 RC_{23}	15.0	X	185.56209	46.07137	342.63754	9.07420	0.0921078	0.18986014	2.9981051	21	4 6.4	19.6
163412 2002 RV_{25}	17.3	X	25.28727	46.17181	18.12666	34.48200	0.4506483	0.37412099	1.9074859	21	—	—
163413 2002 RX_{25}	15.9	X	22.87216	181.23801	170.46775	9.50619	0.1693956	0.21555784	2.7548217	21	11 27.4	19.4
163414 2002 RP_{26}	15.0	X	288.25910	24.19448	291.25900	10.84262	0.0379033	0.19467268	2.9484881	21	5 5.6	19.4
163415 2002 RW_{34}	15.7	X	253.83074	296.53285	77.80342	2.48282	0.1855594	0.19700124	2.9252079	21	5 23.8	20.3
163416 2002 RO_{37}	15.2	X	209.78779	189.34618	233.14206	3.29127	0.0610235	0.19860318	2.9094569	21	6 17.1	19.4
163417 2002 RC_{40}	15.2	X	332.63178	234.27221	135.70600	5.12805	0.1157379	0.20884278	2.8135614	21	9 20.0	18.4
163418 2002 RS_{47}	15.2	X	249.35547	221.37978	150.18575	11.76472	0.1296327	0.19623839	2.9327839	21	5 24.4	19.9
163419 2002 RK_{52}	14.9	X	147.36593	222.07228	162.35946	7.26304	0.0622704	0.18148981	3.0895927	21	2 21.7	19.4
163420 2002 RD_{54}	15.2	X	280.32541	280.06385	51.50870	2.90139	0.0810148	0.19497864	2.9454027	21	5 13.2	19.3
163421 2002 RD_{56}	15.3	X	238.60047	0.98083	336.70167	11.27520	0.1530435	0.18990007	2.9976848	21	3 25.1	20.2
163422 2002 RM_{56}	15.0	X	193.53903	60.15370	336.01124	7.88587	0.1008459	0.18993882	2.9972771	21	4 23.5	19.8
163423 2002 RD_{57}	15.6	X	239.21516	26.17355	309.19425	3.19574	0.2017799	0.19011814	2.9953921	21	3 22.0	20.6
163424 2002 RC_{58}	15.0	X	122.75351	109.26183	319.37890	7.72989	0.0637474	0.18488800	3.0516184	21	3 16.2	19.5
163425 2002 RE_{61}	17.5	X	123.75540	53.77131	4.99588	20.63604	0.1126243	0.39158744	1.8503344	21	2 17.1	19.4
163426 2002 RP_{61}	15.3	X	356.48380	8.97835	26.40329	8.86293	0.1607737	0.21194241	2.7860621	21	12 6.5	18.4
163427 2002 RZ_{61}	14.8	X	343.01648	296.74672	32.85254	8.91129	0.1713643	0.20284034	2.8687971	21	8 12.2	17.9
163428 2002 RP_{63}	15.0	X	268.70089	267.67375	18.31388	16.03071	0.1255548	0.18685239	3.0301929	21	3 5.7	19.7
163429 2002 RJ_{65}	14.9	X	156.78185	193.50043	202.60595	17.73590	0.2896693	0.18050295	3.1008435	21	4 1.3	20.4
163430 2002 RO_{67}	14.4	X	119.49749	116.69846	263.39739	8.71131	0.0711366	0.17682071	3.1437449	21	1 16.7	18.8
163431 2002 RR_{67}	15.1	X	260.73761	27.08873	319.03795	10.76105	0.1130463	0.19347158	2.9606786	21	4 29.3	19.7
163432 2002 RG_{69}	15.2	X	123.86732	82.64116	330.55344	2.43782	0.2511218	0.18184643	3.0855519	21	3 23.2	20.1
163433 2002 RW_{70}	14.9	X	211.30752	99.63578	294.96367	10.83696	0.0712044	0.19450704	2.9501618	21	5 11.1	19.5
163434 2002 RY_{72}	15.3	X	261.46235	80.39201	339.18396	10.90970	0.1964120	0.20294706	2.8677912	21	7 29.8	19.5
163435 2002 RF_{83}	14.8	X	137.35900	293.18481	185.59347	10.33044	0.1195457	0.19252561	2.9703688	21	6 12.3	19.5
163436 2002 RT_{83}	16.0	X	3.12900	155.71816	146.18223	1.94561	0.2553248	0.20515183	2.8472075	21	8 14.5	18.0
163437 2002 RM_{87}	15.0	X	132.40053	234.50278	177.88146	10.78323	0.0446142	0.18300173	3.0725521	21	3 7.7	19.3
163438 2002 RV_{88}	16.0	X	235.61735	171.79781	220.57070	1.74958	0.1571697	0.19699667	2.9252531	21	5 30.8	20.6
163439 2002 RK_{90}	15.5	X	276.92936	163.12219	175.49712	9.29709	0.0537503	0.19530026	2.9421683	21	5 23.8	19.7
163440 2002 RM_{90}	14.7	X	58.47496	266.91788	170.29276	5.60388	0.1276988	0.17561642	3.1581006	21	1 12.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163441 2002 RB_{93}	15.1	X	339.47283	355.18300	207.72505	12.77965	0.0101453	0.18526453	3.0474824	21	2 22.5	19.6
163442 2002 RN_{96}	15.5	X	194.27523	11.12394	4.73791	14.18225	0.1413727	0.18667970	3.0320614	21	4 2.0	20.4
163443 2002 RL_{97}	14.9	X	215.22763	311.40865	9.21452	9.78715	0.1282697	0.18279575	3.0748598	21	2 20.5	19.9
163444 2002 RJ_{103}	15.0	X	172.11475	11.75839	10.69945	9.87725	0.0838217	0.18420830	3.0591205	21	3 20.8	19.6
163445 2002 RT_{104}	14.9	X	172.98459	291.48894	32.72144	16.57120	0.2551143	0.17635858	3.1492344	21	1 26.7	20.6
163446 2002 RY_{104}	15.3	X	172.43237	188.64595	195.18744	9.68695	0.2216448	0.18253257	3.0778147	21	3 27.1	20.4
163447 2002 RD_{106}	14.7	X	146.89046	2.45234	29.26176	11.13327	0.2707042	0.17925913	3.1151707	21	3 23.3	20.0
163448 2002 RQ_{113}	15.4	X	172.81920	105.99163	309.32344	3.23231	0.0730330	0.19202620	2.9755167	21	4 26.7	19.8
163449 2002 RG_{116}	14.9	X	180.57080	341.86499	353.14622	16.24027	0.0661780	0.17857897	3.1230757	21	2 5.4	19.8
163450 2002 RZ_{121}	15.2	X	240.09412	268.07835	96.60172	10.91800	0.1019822	0.19369050	2.9584473	21	5 9.3	19.8
163451 2002 RS_{122}	15.0	X	261.03034	226.97953	104.77324	10.43057	0.1356297	0.19280195	2.9675299	21	4 18.9	19.6
163452 2002 RE_{124}	14.9	X	218.11624	268.37613	104.61400	12.99049	0.0753514	0.19306412	2.9648428	21	4 29.9	19.6
163453 2002 RW_{128}	15.4	X	11.73629	8.98725	45.90358	11.42891	0.2446478	0.21740039	2.7392342	21	—	—
163454 2002 RN_{129}	18.9	X	193.01453	198.60521	332.12811	23.12584	0.3699537	0.78673516	1.1621183	21	—	—
163455 2002 RQ_{132}	14.8	X	218.24685	342.75158	298.68168	12.24178	0.0953914	0.17844545	3.1246333	21	1 7.7	19.6
163456 2002 RG_{134}	15.0	X	39.55933	319.52244	58.45556	10.33190	0.1229448	0.21793080	2.7347878	21	—	—
163457 2002 RV_{134}	15.2	X	250.07717	249.64780	104.86138	11.60205	0.1086254	0.19325059	2.9629353	21	5 7.6	19.8
163458 2002 RS_{138}	15.0	X	304.48297	158.32598	78.52001	11.83746	0.0254586	0.18546631	3.0452716	21	2 28.0	19.4
163459 2002 RT_{138}	14.7	X	213.42061	324.45796	60.89027	11.50543	0.1214954	0.19277128	2.9678447	21	5 4.5	19.4
163460 2002 RP_{139}	14.8	X	188.17129	263.88339	88.21145	11.49812	0.1417558	0.18434876	3.0575664	21	3 6.4	19.9
163461 2002 RY_{157}	15.8	X	115.30136	152.77483	325.22447	2.52298	0.1495933	0.18985626	2.9981459	21	5 20.6	20.3
163462 2002 RK_{159}	15.7	X	219.71992	197.48286	176.99223	11.56893	0.1042770	0.19183130	2.9775318	21	4 28.8	20.4
163463 2002 RQ_{161}	15.6	X	173.94949	256.53571	174.75167	2.34325	0.2131448	0.19151779	2.9807803	21	5 23.5	20.7
163464 2002 RO_{169}	15.3	X	286.20895	126.74019	227.30235	1.01571	0.0363577	0.19864695	2.9090294	21	6 26.0	19.1
163465 2002 RF_{174}	15.1	X	254.88135	131.05180	204.05507	8.63367	0.0705202	0.19283162	2.9672255	21	4 18.7	19.3
163466 2002 RQ_{175}	14.8	X	95.22841	145.04039	302.55781	8.68855	0.1013299	0.18347546	3.0672610	21	3 10.4	19.1
163467 2002 RV_{176}	14.7	X	55.67197	119.59180	313.14134	5.27325	0.1544940	0.17508873	3.1644428	21	1 6.6	18.3
163468 2002 RZ_{177}	15.0	X	245.30057	44.33009	195.03024	12.02823	0.1717281	0.17800409	3.1297962	21	—	—
163469 2002 RG_{180}	14.9	X	222.77270	190.76023	181.24736	10.08859	0.0547096	0.19082840	2.9879549	21	5 1.5	19.3
163470 Kenwallis	15.9	X	228.53387	182.67995	173.05919	2.62934	0.0864271	0.19062678	2.9900614	21	4 14.3	20.5
163471 2002 RU_{185}	15.1	X	265.33798	40.96203	256.54733	9.28577	0.0771183	0.18822774	3.0154141	21	3 10.1	19.7
163472 2002 RB_{186}	15.2	X	352.47523	163.56100	261.70889	8.35022	0.2537669	0.21467937	2.7623318	21	—	—
163473 2002 RB_{204}	15.8	X	285.11935	148.00262	204.81912	4.97052	0.1177013	0.20065115	2.8896259	21	6 10.8	19.8
163474 2002 RE_{212}	14.3	X	89.89445	82.94644	165.66249	17.51916	0.1006960	0.15620854	3.4145451	21	9 27.1	19.3
163475 2002 RQ_{212}	15.0	X	281.13875	221.63435	104.42025	11.55567	0.1012097	0.19344098	2.9609908	21	5 8.7	19.3
163476 2002 RU_{218}	15.0	X	217.31859	92.57581	166.02793	13.67448	0.0770775	0.17430638	3.1739046	21	—	—
163477 2002 RG_{222}	15.0	X	294.36954	103.03805	135.66431	10.53867	0.0490128	0.18423011	3.0588791	21	2 9.8	19.3
163478 2002 RQ_{223}	15.1	X	221.76186	202.68865	147.36125	8.72545	0.0595182	0.18863570	3.0110650	21	4 3.9	19.6
163479 2002 RM_{229}	15.5	X	218.58344	245.07734	117.47159	9.73317	0.1078496	0.18965465	3.0002703	21	4 15.3	20.3
163480 2002 RB_{232}	15.1	X	281.66967	165.36022	143.41946	16.03307	0.1342023	0.19160515	2.9798742	21	4 14.1	19.6
163481 2002 RW_{235}	15.3	X	123.10228	92.21631	326.67450	9.25779	0.0264311	0.18582911	3.0413067	21	3 1.1	19.6
163482 2002 RH_{237}	15.3	X	195.25695	276.50741	117.78066	2.61291	0.1284879	0.19173886	2.9784887	21	4 27.1	20.0
163483 2002 RA_{274}	16.3	X	344.81034	263.97921	42.77576	2.58527	0.0452838	0.20334409	2.8640571	21	7 15.4	19.9
163484 2002 SP_{5}	14.5	X	344.50167	320.83752	175.19157	10.03924	0.1271562	0.17184250	3.2041708	21	—	—
163485 2002 SB_{6}	15.3	X	134.97800	98.68666	7.98378	3.56543	0.2739781	0.18666521	3.0322183	21	6 6.1	20.4
163486 2002 SL_{6}	15.6	X	111.55906	269.28371	174.85798	4.68697	0.1687071	0.18224283	3.0810761	21	4 8.9	20.0
163487 2002 SM_{6}	14.7	X	148.03747	301.26418	22.01361	16.00331	0.0839617	0.17328226	3.1863977	21	—	—
163488 2002 ST_{10}	15.8	X	201.10100	160.79403	192.95877	8.46966	0.1675543	0.18534398	3.0466114	21	3 13.5	20.9
163489 2002 SE_{11}	15.2	X	301.51944	157.94457	144.88875	2.69224	0.0626362	0.19241954	2.9714603	21	5 7.6	19.1
163490 2002 SX_{11}	15.1	X	43.22379	291.94592	185.08022	5.06416	0.1126879	0.17702435	3.1413335	21	2 6.0	18.9
163491 2002 SM_{13}	16.0	X	338.97580	305.75969	80.33308	1.46119	0.1741458	0.20959111	2.8068604	21	10 22.9	18.9
163492 2002 SC_{26}	14.7	X	105.78024	240.41314	178.06684	14.63451	0.1008198	0.17870748	3.1215783	21	2 18.5	19.2
163493 2002 SV_{30}	14.7	X	140.86048	248.17259	156.75461	10.54466	0.0847348	0.18300527	3.0725124	21	3 14.9	19.3
163494 2002 SB_{31}	14.9	X	69.77795	289.58940	164.79124	10.50048	0.0204221	0.18002971	3.1062752	21	2 6.9	19.2
163495 2002 SH_{33}	15.1	X	243.77640	123.69683	242.30297	5.51996	0.2160868	0.19301013	2.9653957	21	4 30.8	20.0
163496 2002 SY_{38}	15.2	X	280.59804	167.10056	125.64743	3.61225	0.0707615	0.18859389	3.0115099	21	3 29.0	19.4
163497 2002 SX_{40}	15.5	X	26.32470	324.69441	40.53593	5.98443	0.0593713	0.21383370	2.7696100	21	12 1.2	19.2
163498 2002 SZ_{40}	15.2	X	125.23306	288.99547	111.40575	1.69407	0.0623928	0.18030652	3.1030952	21	2 16.7	19.5
163499 2002 SE_{41}	15.2	X	156.41200	355.03817	78.28008	5.15532	0.2265961	0.18558443	3.0439793	21	5 12.9	20.4
163500 2002 SO_{42}	14.9	X	187.73203	38.35366	2.25299	10.46077	0.1049015	0.18906047	3.0065532	21	4 23.4	19.7
163501 2002 SG_{44}	15.4	X	249.18732	165.70416	180.86675	4.49359	0.0958690	0.19140154	2.9819871	21	4 24.7	19.9
163502 2002 SA_{46}	15.7	X	235.98939	267.45259	116.28729	3.95657	0.2126873	0.19314455	2.9640197	21	5 17.4	20.5
163503 2002 SU_{46}	14.4	X	243.44253	93.34051	215.30877	14.04407	0.1788421	0.18335151	3.0686431	21	2 21.5	19.7
163504 2002 SW_{47}	14.8	X	127.38485	32.79483	7.18425	9.50019	0.0971598	0.18060062	3.0997254	21	2 25.5	19.3
163505 2002 SW_{48}	15.1	X	274.16500	223.85427	93.81835	3.66681	0.1708362	0.19192997	2.9765111	21	4 8.5	19.5
163506 2002 SJ_{55}	15.2	X	119.23797	111.02846	330.51575	5.42202	0.1599646	0.18461076	3.0546728	21	4 9.8	19.8
163507 2002 SC_{56}	14.9	X	138.49350	257.87026	135.40753	7.37878	0.0644507	0.18027572	3.1034486	21	2 24.1	19.5
163508 2002 SE_{59}	14.9	X	200.64894	356.31689	8.87701	9.68467	0.2496709	0.18505220	3.0498130	21	3 27.5	20.1
163509 2002 SU_{60}	15.1	X	64.21387	270.75451	157.15898	10.50048	0.0586029	0.17589988	3.1547069	21	1 3.9	19.5
163510 2002 TR	15.3	X	158.84122	325.04599	110.14726	5.27945	0.1763091	0.18825497	3.0151233	21	5 15.3	20.3
163511 2002 TL_{1}	15.8	X	296.32533	343.94133	36.20702	2.38783	0.0801148	0.20287376	2.8684820	21	8 8.9	19.5
163512 2002 TR_{3}	15.0	X	109.02738	245.13719	161.56542	3.11776	0.1175697	0.17705626	3.1409560	21	2 12.5	19.5
163513 2002 TT_{3}	15.9	X	212.00380	171.83511	147.26574	1.41419	0.2539121	0.18272713	3.0756295	21	2 11.4	21.4
163514 2002 TN_{6}	15.4	X	149.67734	307.75593	113.80420	3.16158	0.1868912	0.18459647	3.0548305	21	4 21.5	20.3
163515 2002 TR_{6}	14.9	X	120.90820	247.09979	153.94857	5.98061	0.1422834	0.17733972	3.1376081	21	2 22.8	19.5
163516 2002 TP_{13}	15.1	X	234.47069	266.77965	70.75628	3.52868	0.0854011	0.18680935	3.0306583	21	3 30.9	19.6
163517 2002 TX_{13}	15.0	X	279.61489	250.32362	99.27342	3.33883	0.0780410	0.19438864	2.9513596	21	6 5.5	18.9
163518 2002 TF_{18}	15.6	X	271.68018	280.48499	25.30513	2.31286	0.0773395	0.18938089	3.0031610	21	4 1.3	19.9
163519 2002 TW_{20}	15.0	X	331.08966	169.79191	130.84470	3.08350	0.0814435	0.19633500	2.9318218	21	6 13.1	18.7
163520 2002 TY_{20}	15.3	X	130.31638	280.83451	167.17466	5.74438	0.1487403	0.18504199	3.0499253	21	5 1.9	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163521 2002 TX_{21}	16.0	X	73.31336	301.62057	51.10572	2.48855	0.0916273	0.21829792	2.7317208	21	—	—
163522 2002 TD_{22}	15.4	X	286.01668	163.25046	144.94011	1.17814	0.1051097	0.19132450	2.9827876	21	4 17.7	19.4
163523 2002 TU_{23}	15.4	X	289.87470	198.05472	164.49073	2.14919	0.0932550	0.19834902	2.9119417	21	7 3.6	19.4
163524 2002 TA_{25}	15.9	X	221.76831	240.21979	123.29875	1.84132	0.1839554	0.18918543	3.0052291	21	4 12.6	20.9
163525 2002 TM_{26}	14.1	X	37.31370	32.98202	28.57669	15.41280	0.0417967	0.16871801	3.2436084	21	—	—
163526 2002 TP_{38}	14.4	X	214.44363	302.50289	32.68984	10.66676	0.1439728	0.18235489	3.0798137	21	3 9.6	19.5
163527 2002 TA_{40}	14.3	X	104.45693	359.93341	39.08815	19.21265	0.1385114	0.17438178	3.1729895	21	2 9.9	19.1
163528 2002 TR_{41}	14.9	X	203.22917	218.40011	102.96002	2.52401	0.1363069	0.17961225	3.1110865	21	2 8.3	19.8
163529 2002 TV_{41}	15.1	X	175.71768	188.89727	193.81813	8.68736	0.1072028	0.18305424	3.0719645	21	3 24.1	19.9
163530 2002 TU_{42}	15.0	X	117.14121	214.94388	195.93129	4.82841	0.1529419	0.17751149	3.1355838	21	3 2.5	19.6
163531 2002 TP_{44}	15.3	X	205.32444	201.82721	187.61538	6.62179	0.1559889	0.18820762	3.0156290	21	4 30.5	20.2
163532 2002 TR_{44}	15.0	X	195.37173	238.36456	195.07683	9.41597	0.0367926	0.19213011	2.9744437	21	6 15.6	19.4
163533 2002 TY_{46}	14.3	X	132.52246	6.48294	43.20360	16.89253	0.0602358	0.17941209	3.1133999	21	3 16.5	19.1
163534 2002 TQ_{51}	14.7	X	131.95523	359.16288	48.16188	18.50998	0.2033232	0.17773608	3.1329418	21	3 28.9	19.9
163535 2002 TM_{55}	15.0	X	100.98685	335.26731	155.32780	8.56384	0.0963805	0.18891535	3.0080927	21	5 15.9	19.4
163536 2002 TT_{55}	15.2	X	106.67860	21.67821	47.58797	2.91056	0.1000223	0.17859036	3.1229428	21	3 7.9	19.5
163537 2002 TU_{55}	14.8	X	30.17778	252.33210	184.33355	2.81487	0.0575833	0.16877042	3.2429368	21	—	—
163538 2002 TF_{67}	15.0	X	148.29253	261.20896	144.96005	25.21721	0.3589367	0.18140677	3.0905354	21	4 18.2	21.0
163539 2002 TP_{67}	15.1	X	207.26936	2.02520	351.53524	9.42744	0.1061010	0.18550972	3.0447965	21	3 19.5	19.8
163540 2002 TO_{76}	15.3	X	348.34129	152.05737	244.38032	5.03014	0.0755158	0.21083185	2.7958374	21	11 18.7	18.7
163541 2002 TC_{77}	14.7	X	271.41363	50.52028	223.83485	8.59999	0.0605217	0.18267705	3.0761917	21	2 20.9	19.3
163542 2002 TQ_{84}	14.8	X	162.44022	151.40646	164.22104	14.51239	0.1839392	0.17449855	3.1715739	21	—	—
163543 2002 TY_{84}	15.0	X	122.96728	254.44879	168.22959	13.63533	0.0956325	0.18039108	3.1021254	21	3 17.5	19.4
163544 2002 TK_{85}	14.9	X	143.68799	224.55919	174.92685	13.65254	0.1692801	0.18055903	3.1002014	21	3 18.7	19.6
163545 2002 TJ_{88}	15.1	X	288.51546	298.09554	333.41360	8.22052	0.1021974	0.18584793	3.0411014	21	3 5.8	19.6
163546 2002 TL_{90}	15.0	X	276.14685	331.66747	0.75708	9.19748	0.0778601	0.19171713	2.9787137	21	5 6.6	19.3
163547 2002 TC_{94}	15.4	X	296.02542	64.88317	193.89250	6.07948	0.1070755	0.18720948	3.0263385	21	2 25.8	19.6
163548 2002 TR_{94}	15.7	X	157.77704	139.00296	308.69028	1.29074	0.1309610	0.19068991	2.9894015	21	5 25.3	20.5
163549 2002 TW_{94}	16.0	X	257.40929	119.57581	210.02391	0.77114	0.1385089	0.19141790	2.9818172	21	4 7.2	20.4
163550 2002 TO_{104}	14.9	X	130.04717	201.47434	206.67424	9.16692	0.0707332	0.18161612	3.0881599	21	3 1.3	19.5
163551 2002 TF_{107}	15.4	X	109.56486	207.55282	207.98254	4.52376	0.1886588	0.17605085	3.1529032	21	3 4.2	20.0
163552 2002 TK_{110}	15.0	X	204.97825	243.01475	93.31717	12.02857	0.1708526	0.18379931	3.0636570	21	3 2.5	20.2
163553 2002 TP_{112}	14.9	X	103.21514	155.19779	286.24239	9.72113	0.0987206	0.18210424	3.0826391	21	3 11.4	19.4
163554 2002 TU_{114}	15.0	X	187.69393	120.97017	216.35736	15.68561	0.2320478	0.18201638	3.0836310	21	2 9.7	20.6
163555 2002 TK_{117}	15.1	X	235.24941	58.08975	296.71653	8.90558	0.1171267	0.18980380	2.9986984	21	4 13.1	20.0
163556 2002 TY_{118}	15.0	X	113.32071	117.69999	331.22895	9.61031	0.1277873	0.18264971	3.0764987	21	4 6.5	19.5
163557 2002 TC_{121}	15.0	X	182.40803	159.92119	246.35225	7.20782	0.1209128	0.18733290	3.0250090	21	4 27.3	19.8
163558 2002 TQ_{123}	14.8	X	148.56749	79.20260	300.51266	10.32999	0.0991881	0.18122946	3.0925509	21	2 18.6	19.5
163559 2002 TK_{124}	15.3	X	144.33253	57.83659	329.33782	11.47409	0.1579568	0.18136430	3.0910178	21	3 1.9	20.1
163560 2002 TL_{124}	14.5	X	63.05689	298.88001	250.34158	9.81440	0.0270326	0.19370169	2.9583334	21	5 29.2	18.4
163561 2002 TN_{125}	14.8	X	220.56313	157.25604	235.49741	11.59943	0.1583193	0.19303074	2.9651845	21	5 16.8	19.4
163562 2002 TB_{127}	14.7	X	199.52397	55.88615	297.16116	8.18423	0.0673078	0.18512383	3.0490263	21	3 8.5	19.4
163563 2002 TM_{127}	14.5	X	333.57511	225.23076	300.75915	8.89656	0.0377494	0.17664789	3.1457950	21	1 4.7	18.9
163564 2002 TV_{128}	14.4	X	147.83889	123.92542	302.68206	8.08432	0.0791821	0.18685588	3.0301552	21	4 11.6	19.1
163565 2002 TK_{130}	15.3	X	183.49595	260.04318	105.42745	6.75585	0.1685267	0.18431681	3.0579198	21	3 16.5	20.4
163566 2002 TS_{134}	14.9	X	351.89732	208.14632	310.28743	6.70779	0.0594268	0.17716831	3.1396316	21	1 16.5	18.9
163567 2002 TU_{135}	14.9	X	152.66493	50.67789	310.68666	8.66409	0.0842198	0.17699473	3.1416840	21	2 3.2	19.6
163568 2002 TF_{139}	15.4	X	109.20606	41.97566	342.28259	7.99960	0.1608222	0.17365675	3.1818151	21	1 25.6	20.0
163569 2002 TY_{142}	14.9	X	308.19149	219.43919	51.12413	11.70042	0.0913466	0.18854511	3.0120294	21	4 5.1	19.1
163570 2002 TJ_{143}	15.1	X	122.12373	270.37594	171.85986	13.29686	0.2016323	0.18218346	3.0817454	21	4 23.5	20.0
163571 2002 TT_{143}	15.2	X	71.77796	280.12225	149.47953	8.52446	0.1514357	0.17411501	3.1762297	21	1 26.9	19.1
163572 2002 TN_{157}	14.6	X	135.34180	296.19600	105.32076	10.57945	0.0967405	0.18023231	3.1039469	21	3 9.4	19.3
163573 2002 TL_{159}	14.6	X	64.20591	305.20844	114.83357	14.63791	0.1218715	0.17178134	3.2049313	21	1 1.8	18.6
163574 2002 TO_{159}	15.0	X	219.32923	171.70934	127.72354	12.55429	0.1635890	0.17973158	3.1097092	21	1 27.3	20.0
163575 2002 TE_{160}	14.9	X	240.53940	185.56193	102.12887	12.72139	0.0837896	0.17981114	3.1087919	21	2 7.3	19.7
163576 2002 TE_{164}	15.1	X	115.83266	233.76344	154.17005	17.03768	0.2228671	0.17482977	3.1675668	21	2 11.5	19.9
163577 2002 TL_{169}	14.9	X	223.52166	20.60217	276.49085	9.95732	0.0527161	0.18055875	3.1002046	21	1 28.8	19.6
163578 2002 TK_{173}	14.8	X	227.32640	300.82106	54.54616	9.63338	0.1080706	0.18979636	2.9987767	21	4 13.7	19.5
163579 2002 TV_{174}	14.5	X	72.98154	29.78308	32.84171	22.80408	0.0816936	0.17507485	3.1646101	21	1 16.9	19.2
163580 2002 TR_{180}	14.8	X	170.06671	345.11418	12.29874	17.79260	0.2039011	0.17853901	3.1235416	21	3 1.7	20.2
163581 2002 TA_{183}	14.9	X	1.70497	74.40423	337.15471	6.80103	0.2218218	0.21501882	2.7594237	21	—	—
163582 2002 TD_{184}	15.3	X	218.37835	344.01804	331.28043	8.92245	0.0766841	0.18281935	3.0745951	21	2 15.5	19.8
163583 2002 TS_{185}	14.8	X	279.90793	115.07624	222.69207	10.21175	0.0745179	0.19490446	2.9461501	21	5 22.2	18.9
163584 2002 TG_{188}	15.3	X	186.28621	1.60249	337.52576	8.81756	0.0613284	0.18059201	3.0998239	21	2 11.5	19.9
163585 2002 TO_{188}	15.1	X	214.67692	320.62995	24.61338	11.13266	0.1550576	0.18381157	3.0635207	21	3 19.8	20.1
163586 2002 TQ_{189}	14.4	X	125.49833	178.74768	243.16577	9.26322	0.0467895	0.18331279	3.0690752	21	3 7.8	18.9
163587 2002 TX_{190}	14.6	X	219.81146	48.54532	344.85909	18.95858	0.0968317	0.19006881	2.9959103	21	5 13.1	19.6
163588 2002 TR_{191}	14.8	X	130.36906	189.12016	257.31830	15.95990	0.1754015	0.18337851	3.0683419	21	4 28.5	19.7
163589 2002 TG_{192}	14.3	X	102.16805	131.30793	347.05632	18.42605	0.2993482	0.18025624	3.1036722	21	5 20.3	19.5
163590 2002 TN_{192}	14.7	X	167.25102	63.35414	354.00677	15.61213	0.1096247	0.18513211	3.0489353	21	4 20.9	19.7
163591 2002 TO_{202}	15.3	X	261.41155	334.77509	42.54951	11.85005	0.0927070	0.19737756	2.9214887	21	6 14.9	19.7
163592 2002 TS_{203}	15.0	X	165.25870	150.48111	171.86087	13.03262	0.1169214	0.17508781	3.1644539	21	1 4.3	20.1
163593 2002 TA_{206}	15.0	X	145.77495	85.04572	303.01543	2.44038	0.1031621	0.17946609	3.1127754	21	2 28.4	19.6
163594 2002 TH_{207}	15.8	X	144.95550	48.92259	340.65024	3.71464	0.2921548	0.18013211	3.1050978	21	3 16.9	21.2
163595 2002 TM_{209}	15.4	X	183.44367	230.74249	136.20653	11.17568	0.1093955	0.18330412	3.0691720	21	3 16.4	20.3
163596 2002 TS_{214}	14.9	X	266.32740	250.43679	67.48799	12.39131	0.1659635	0.18993047	2.9973649	21	4 5.6	19.7
163597 2002 TO_{225}	14.7	X	172.75888	280.66964	48.78039	23.42963	0.1573807	0.17521860	3.1628790	21	1 28.6	20.2
163598 2002 TQ_{230}	15.7	X	290.11660	214.41026	142.28150	19.72508	0.3007955	0.20045239	2.8915357	21	5 30.6	20.2
163599 2002 TG_{236}	14.3	X	225.44458	62.05552	247.87514	15.76853	0.1240005	0.18180349	3.0860378	21	2 7.9	19.5
163600 2002 TF_{238}	14.6	X	181.76798	132.24915	236.39377	9.85689	0.1063816	0.18123328	3.0925074	21	3 10.0	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163601 2002 TJ_{238}	14.9	X	310.10592	158.51826	238.56055	7.49113	0.2220281	0.20274043	2.8697395	21	8 29.1	18.2
163602 2002 TW_{238}	15.2	X	267.13046	197.26435	223.74373	1.24780	0.2809538	0.19654064	2.9297764	21	7 23.7	19.7
163603 2002 TD_{242}	15.2	X	160.80223	213.64501	152.85771	11.31335	0.1442288	0.17904216	3.1176870	21	2 22.2	20.1
163604 2002 TM_{242}	14.9	X	237.66850	291.72452	78.64087	11.57114	0.1340712	0.19094465	2.9867421	21	5 10.3	19.6
163605 2002 TU_{243}	15.9	X	219.41856	1.63021	60.23180	1.30048	0.0370432	0.19488755	2.9463205	21	6 29.5	20.1
163606 2002 TY_{257}	15.1	X	147.87622	192.84527	170.95139	5.99753	0.1167288	0.17613264	3.1519271	21	2 3.6	20.0
163607 2002 TD_{258}	15.1	X	179.15286	274.07224	165.24515	4.69927	0.1387651	0.18907667	3.0063815	21	6 5.7	19.9
163608 2002 TW_{259}	15.3	X	182.11946	14.42138	68.36530	0.51350	0.1008501	0.19082798	2.9879593	21	6 11.9	19.9
163609 2002 TC_{260}	15.6	X	154.07715	210.12865	199.00745	5.12980	0.1621153	0.18218071	3.0817764	21	4 7.7	20.4
163610 2002 TX_{260}	14.3	X	143.13763	346.26526	69.42452	26.04673	0.2016946	0.17865089	3.1222374	21	4 21.3	19.7
163611 2002 TW_{263}	15.0	X	173.54266	115.20632	249.50485	8.96487	0.0902054	0.18061744	3.0995330	21	2 24.5	20.0
163612 2002 TW_{276}	15.3	X	159.19154	32.16684	6.02378	5.66804	0.1693475	0.18224717	3.0810271	21	3 30.7	20.2
163613 2002 TM_{278}	14.5	X	210.82608	147.84459	280.56861	9.11479	0.1863685	0.19270414	2.9685339	21	6 19.5	19.4
163614 2002 TQ_{280}	14.7	X	206.34682	61.01338	286.25599	7.85375	0.1238080	0.18319769	3.0703606	21	3 8.3	19.7
163615 2002 TG_{281}	15.1	X	224.69734	35.13433	331.65815	5.18170	0.1242781	0.18816463	3.0160884	21	4 19.0	19.9
163616 2002 TO_{281}	14.6	X	135.58387	153.04301	283.84726	7.01871	0.2006585	0.18222214	3.0813093	21	4 24.3	19.7
163617 2002 TC_{282}	14.9	X	76.07194	137.87257	315.51767	4.19112	0.1388150	0.17584014	3.1554215	21	3 1.4	19.0
163618 2002 TG_{282}	14.5	X	130.79227	32.82349	13.15727	10.57058	0.1294323	0.17859168	3.1229275	21	3 12.2	19.2
163619 2002 TN_{286}	14.6	X	196.91315	45.14445	292.25583	8.96676	0.2155434	0.18054864	3.1003203	21	2 18.5	20.0
163620 2002 TE_{287}	14.5	X	120.93293	181.38646	259.17212	11.00273	0.1222862	0.18025779	3.1036544	21	4 4.1	19.3
163621 2002 TP_{294}	14.3	X	193.07630	103.00145	301.99426	9.20751	0.1260741	0.18664768	3.0324081	21	5 4.1	19.3
163622 2002 TQ_{300}	15.0	X	104.68107	289.93790	159.07767	15.81741	0.1718095	0.17974045	3.1096070	21	4 10.6	19.6
163623 Miknaitis	15.4	X	191.77751	128.04266	152.00968	9.81339	0.0535298	0.17129120	3.2110423	21	—	—
163624 Moorthy	15.3	X	178.37661	141.04634	168.70296	12.77039	0.0805041	0.17462963	3.1699866	21	—	—
163625 Munn	14.9	X	147.57244	208.49192	179.09789	18.51543	0.2032272	0.18030527	3.1031095	21	3 10.0	19.9
163626 Glatfelter	15.1	X	357.79261	25.75923	121.21547	2.36263	0.1584014	0.17212012	3.2007245	21	1 1.4	18.9
163627 2002 UB_{7}	14.7	X	163.83463	131.84490	170.88738	13.78277	0.1484751	0.17130368	3.2108862	21	—	—
163628 2002 UH_{8}	15.3	X	154.18719	307.19264	106.99253	10.74956	0.3197218	0.18250426	3.0781330	21	4 27.1	21.0
163629 2002 UU_{9}	14.8	X	203.40829	291.14093	72.17700	8.43588	0.0923493	0.18451664	3.0557115	21	4 1.6	19.6
163630 2002 UH_{11}	15.5	X	238.88405	286.14370	83.62076	2.19230	0.0609520	0.19054466	2.9909204	21	5 15.1	19.9
163631 2002 UN_{13}	14.8	X	149.14790	282.56017	111.51205	10.51142	0.1101276	0.17963078	3.1108725	21	3 16.6	19.7
163632 2002 UG_{18}	14.6	X	235.69935	120.48628	212.71972	21.38228	0.1460232	0.18631334	3.0360349	21	3 17.7	19.6
163633 2002 UT_{18}	15.0	X	117.35408	191.59979	188.21985	9.13542	0.0687581	0.17375728	3.1805877	21	1 14.1	19.7
163634 2002 UW_{25}	14.9	X	125.63007	116.75205	246.94094	7.94900	0.0807963	0.17328175	3.1864039	21	1 6.9	19.5
163635 2002 UL_{26}	15.1	X	225.63653	217.92491	148.99540	7.36965	0.1449862	0.18862711	3.0111564	21	4 23.7	20.0
163636 2002 UZ_{27}	15.1	X	221.99589	26.89451	353.27083	11.28180	0.1266119	0.19130445	2.9829960	21	4 30.3	20.0
163637 2002 UU_{38}	15.1	X	113.30125	64.77104	44.44337	1.90003	0.1516015	0.18216140	3.0819941	21	5 8.8	19.6
163638 2002 UN_{46}	15.7	X	339.45026	341.33920	26.67971	2.27697	0.0825931	0.20275517	2.8696004	21	9 27.6	19.1
163639 Tomnash	15.1	X	147.78168	75.17991	299.81230	15.61965	0.0696641	0.18356659	3.0662457	21	2 8.5	19.7
163640 Newberg	15.8	X	108.56382	273.72521	111.68600	8.28684	0.1562662	0.17398936	3.1777587	21	1 24.1	20.3
163641 Nichol	15.9	X	255.42252	149.57439	179.98766	10.26386	0.1066830	0.18948103	3.0021027	21	4 9.9	20.3
163642 2002 UA_{70}	14.8	X	129.48650	233.03421	154.00231	11.31044	0.0911021	0.17762249	3.1342773	21	2 8.6	19.3
163643 2002 VO_{2}	15.7	X	129.80668	304.96603	104.57464	2.70294	0.1903706	0.17891018	3.1192201	21	3 20.6	20.5
163644 2002 VS_{3}	15.5	X	176.12799	84.02796	291.53829	3.72327	0.1563928	0.18132262	3.0914915	21	3 17.0	20.5
163645 2002 VB_{10}	15.0	X	218.41189	9.42872	7.36471	9.09296	0.1249721	0.18773576	3.0206799	21	4 24.9	19.9
163646 2002 VQ_{12}	15.6	X	115.62532	132.18425	275.65340	2.80033	0.1845613	0.17641315	3.1485850	21	3 1.3	20.2
163647 2002 VE_{25}	15.4	X	44.20859	83.79075	222.94570	14.21628	0.1571442	0.20632505	2.8364039	21	10 24.4	19.0
163648 2002 VV_{25}	15.0	X	130.86848	132.56663	250.09588	4.40941	0.1407474	0.17495915	3.1660050	21	2 10.2	19.8
163649 2002 VR_{36}	15.7	X	212.15280	214.91254	175.14064	1.50060	0.1785372	0.18855315	3.0119438	21	5 5.8	20.8
163650 2002 VB_{46}	14.9	X	118.78713	200.89490	204.46402	19.35683	0.1401448	0.17530664	3.1618200	21	2 20.9	19.8
163651 2002 VO_{62}	14.8	X	144.80892	69.60344	312.98093	4.78477	0.1054148	0.17655836	3.1468583	21	2 21.4	19.6
163652 2002 VQ_{68}	14.9	X	226.30858	35.18554	345.17725	11.04384	0.0496193	0.18896212	3.0075964	21	5 10.5	19.5
163653 2002 VK_{70}	15.0	X	112.17802	241.75869	126.00437	6.33560	0.1517923	0.17190442	3.2034014	21	1 6.8	19.4
163654 2002 VT_{73}	15.0	X	143.86975	178.98625	219.82227	14.83735	0.0538572	0.17789682	3.1310542	21	3 2.1	19.8
163655 2002 VH_{79}	15.2	X	167.62345	335.10202	87.23489	9.65981	0.2428921	0.18393298	3.0621724	21	5 10.9	20.6
163656 2002 VX_{85}	14.2	X	169.42510	54.38585	354.64669	21.39529	0.2448435	0.18094743	3.0957635	21	4 16.1	19.8
163657 2002 VB_{86}	15.2	X	135.00749	63.62614	341.54383	5.43708	0.1417151	0.18066186	3.0990249	21	3 13.4	19.9
163658 2002 VB_{87}	15.6	X	92.38910	89.89421	343.23838	3.89489	0.1556275	0.17450618	3.1714814	21	3 2.1	19.9
163659 2002 VX_{111}	16.5	X	128.93418	63.13280	297.77170	0.70627	0.1025285	0.22442341	2.6817849	21	—	—
163660 2002 VQ_{116}	14.6	X	227.58626	332.17402	272.65588	12.31340	0.0235691	0.16801704	3.2526237	21	—	—
163661 2002 VQ_{120}	14.5	X	218.73018	40.79412	20.80137	10.63398	0.0991640	0.19127765	2.9832746	21	6 23.3	19.2
163662 2002 VR_{120}	15.0	X	273.30199	335.72358	28.37328	15.40116	0.1720468	0.19337658	2.9616482	21	5 30.2	19.5
163663 2002 VV_{122}	15.0	X	203.97781	349.69809	27.92044	15.04756	0.1348499	0.18463655	3.0543884	21	4 15.1	20.0
163664 2002 VD_{127}	15.2	X	150.74050	99.54746	240.79205	5.30060	0.1445172	0.17141620	3.2094809	21	1 13.8	20.2
163665 2002 VN_{131}	16.1	X	102.54914	221.04893	181.41675	1.59197	0.1299619	0.17239496	3.1973217	21	2 2.1	20.6
163666 2002 WD	16.5	X	234.59926	154.52795	337.15375	18.42539	0.0840422	0.35843942	1.9627224	21	10 21.5	19.1
163667 2002 WC_{1}	19.7	X	168.14622	82.39820	41.86768	4.63851	0.5753067	0.23827545	2.5768146	21	7 26.1	25.4
163668 2002 WF_{7}	15.5	X	113.58014	255.47014	120.94859	1.24852	0.2199607	0.17203856	3.2017360	21	1 27.6	20.0
163669 2002 WK_{8}	15.5	X	200.34767	244.55011	136.69161	3.68274	0.1808137	0.18437969	3.0572245	21	4 16.6	20.6
163670 2002 WL_{12}	14.9	X	263.70746	212.59293	176.38073	15.72147	0.1746605	0.19348680	2.9605233	21	6 23.1	19.6
163671 2002 WD_{13}	14.9	X	219.31757	225.43607	118.59866	11.90289	0.1379541	0.18401901	3.0612180	21	3 24.5	20.0
163672 2002 XO_{3}	15.3	X	234.86802	259.23996	83.37579	5.07894	0.1382845	0.18482368	3.0523264	21	4 3.9	20.2
163673 2002 XS_{7}	14.3	X	150.91208	139.46918	278.71696	10.14968	0.2217002	0.18200646	3.0837431	21	4 15.5	19.7
163674 2002 XP_{12}	14.9	X	141.22104	53.33872	32.03945	12.05065	0.0834323	0.18238054	3.0795248	21	5 1.3	19.5
163675 2002 XC_{31}	14.9	X	113.29321	328.62195	34.33098	5.92323	0.1262884	0.16819239	3.2503627	21	—	—
163676 2002 XG_{62}	15.3	X	149.70201	37.64116	19.53787	4.55676	0.1018939	0.17989696	3.1078031	21	4 8.8	19.9
163677 2002 XP_{62}	15.1	X	204.77171	223.89111	152.43134	4.89633	0.2590058	0.18470815	3.0535990	21	4 13.5	20.5
163678 2002 XT_{65}	17.2	X	328.66610	98.12662	342.36392	18.26857	0.0937702	0.36683579	1.9326576	21	—	—
163679 2002 XG_{84}	19.1	X	81.41333	349.69318	29.78337	5.05809	0.4714271	0.53922716	1.4949324	21	—	—
163680 2002 XK_{84}	13.9	X	125.74540	328.62682	88.77983	25.74638	0.3099787	0.17739020	3.1370129	21	4 19.0	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163681 2002 XM_{101}	15.8	X	158.21478	242.06390	186.68280	0.94686	0.1820781	0.18207114	3.0830126	21	5 6.3	20.7
163682 2002 XV_{109}	15.1	X	265.16371	326.39093	44.48702	10.13127	0.0837556	0.19097841	2.9863901	21	6 12.7	19.5
163683 2002 YP_{2}	19.0	X	154.40808	281.37888	52.48351	20.62257	0.6882922	0.49758082	1.5772249	21	1 24.5	21.4
163684 2002 YX_{22}	15.4	X	215.66403	238.14138	156.54684	1.13244	0.2624320	0.18621045	3.0371531	21	5 11.3	20.7
163685 2002 YK_{33}	15.3	X	198.09415	46.27718	348.89477	2.25358	0.1332412	0.18489038	3.0515922	21	4 29.4	20.1
163686 2003 AM_{21}	16.9	X	21.09833	203.93046	334.85247	2.56552	0.1072708	0.27849653	2.3223242	21	3 2.4	19.0
163687 2003 AC_{35}	15.4	X	180.05172	204.05257	196.56154	3.81810	0.2724666	0.18225055	3.0809890	21	4 23.3	20.9
163688 2003 AC_{92}	15.3	X	140.22490	58.19664	7.99982	9.70956	0.2241219	0.17825323	3.1268793	21	4 18.5	20.4
163689 2003 BG_{2}	15.4	X	148.56688	238.08764	149.84181	17.96410	0.2900103	0.17824080	3.1270246	21	3 21.1	20.9
163690 2003 BJ_{7}	16.5	X	183.00456	7.16847	130.70321	24.66622	0.0773093	0.35334419	1.9815456	21	9 4.3	19.1
163691 2003 BB_{43}	17.1	X	312.29992	60.62495	148.98883	40.87620	0.5221310	0.26255299	2.4154130	21	—	—
163692 2003 CY_{18}	18.1	X	168.88792	180.90006	114.40603	7.19968	0.4106597	0.52257294	1.5265280	21	—	—
163693 Atira	16.3	X	84.98395	252.91339	103.88564	25.61960	0.3221512	1.54508690	0.7410271	21	—	—
163694 2003 DP_{13}	17.2	X	75.27813	283.14915	326.68527	9.81727	0.5433712	0.22966912	2.6407927	21	10 29.4	22.3
163695 2003 EB_{7}	15.3	X	19.23530	304.94762	270.11735	3.42885	0.0670940	0.17156618	3.2076103	21	5 4.9	19.6
163696 2003 EB_{50}	16.5	X	328.37119	278.94323	65.63131	29.50410	0.5191789	0.50062476	1.5708251	21	5 10.2	17.5
163697 2003 EF_{54}	20.0	X	316.96917	353.73044	268.49789	2.95094	0.4727219	0.48284844	1.6091462	21	1 3.1	22.7
163698 2003 EA_{62}	17.0	X	356.16781	257.96980	19.44206	5.26676	0.2503477	0.27693365	2.3310534	21	6 8.8	18.2
163699 2003 FW_{9}	16.8	X	186.58830	107.72262	146.90436	1.96175	0.1728111	0.30561218	2.1828419	21	—	—
163700 2003 FP_{49}	16.4	X	80.41806	205.04143	107.98854	6.71454	0.1916489	0.29634023	2.2281392	21	—	—
163701 2003 FC_{53}	16.5	X	134.60163	22.72364	231.59253	4.10386	0.1893836	0.29629180	2.2283820	21	12 7.0	20.0
163702 2003 FR_{72}	12.2	X	231.67428	83.94050	56.74519	19.81755	0.0222058	0.08103527	5.2887533	21	10 18.7	19.3
163703 2003 FY_{82}	16.2	X	132.07870	163.50216	124.91426	5.67474	0.1733048	0.29992881	2.2103307	21	—	—
163704 2003 FL_{100}	16.4	X	62.15746	192.13713	115.40831	6.24166	0.1781506	0.29417511	2.2390585	21	12 5.8	19.4
163705 2003 FR_{107}	16.4	X	4.17074	85.22663	152.27651	4.27649	0.2005308	0.27390436	2.3482090	21	4 26.5	18.0
163706 2003 FF_{108}	17.0	X	5.69152	121.97768	149.14919	4.85534	0.2096126	0.27864108	2.3215210	21	6 29.2	18.4
163707 2003 FS_{113}	16.9	X	117.92080	268.53840	346.20872	4.59657	0.1440720	0.29587056	2.2304965	21	11 19.9	20.3
163708 2003 FF_{117}	16.5	X	86.31222	85.14398	138.89797	4.61571	0.1365695	0.28496432	2.2870503	21	9 6.1	19.3
163709 2003 FY_{118}	16.8	X	179.09824	70.50406	175.32571	6.10861	0.1231349	0.30286931	2.1960010	21	—	—
163710 2003 GK_{5}	17.0	X	25.79585	42.53484	206.19106	2.61249	0.1879297	0.28000530	2.3139744	21	7 10.3	18.7
163711 2003 GH_{6}	16.7	X	99.28096	79.77006	161.77871	2.65653	0.1118623	0.28923163	2.2644993	21	10 13.0	19.6
163712 2003 GB_{7}	17.9	X	276.32485	24.31721	172.02804	3.57971	0.1318811	0.31185334	2.1536202	21	—	—
163713 2003 GW_{7}	16.3	X	65.71643	153.66609	172.75914	9.08311	0.2186386	0.29510163	2.2343694	21	—	—
163714 2003 GT_{23}	16.4	X	82.55348	75.99969	227.63423	3.05572	0.1777908	0.29485082	2.2356363	21	12 20.9	19.8
163715 2003 HQ_{2}	16.2	X	52.23229	254.31245	51.84597	6.69126	0.2295520	0.28869489	2.2673052	21	11 27.2	19.2
163716 2003 HA_{5}	16.2	X	358.85295	210.99374	73.85179	7.84642	0.1051830	0.27818027	2.3240841	21	7 6.1	18.3
163717 2003 HC_{8}	16.5	X	94.06251	53.83813	212.73983	6.43542	0.1037352	0.29147198	2.2528806	21	11 8.7	19.5
163718 2003 HJ_{21}	16.7	X	119.06444	174.48500	151.83753	2.60728	0.1496149	0.30283265	2.1961782	21	—	—
163719 2003 HM_{21}	16.2	X	75.39423	258.04104	35.90680	6.74361	0.1897985	0.29099504	2.2553416	21	12 1.1	19.6
163720 2003 HW_{25}	16.9	X	52.14268	51.83894	232.91396	3.82202	0.1276712	0.28797750	2.2710691	21	10 12.9	19.7
163721 2003 HQ_{27}	16.8	X	53.79013	61.38339	226.89769	2.79328	0.1974156	0.28764045	2.2728429	21	10 31.9	19.7
163722 2003 HC_{29}	16.7	X	105.12643	220.78686	358.29998	4.17004	0.1118442	0.28744773	2.2738586	21	9 18.4	19.7
163723 2003 HA_{39}	16.6	X	72.75201	267.39169	26.49207	3.32393	0.1312821	0.29105637	2.2550247	21	11 22.2	19.4
163724 2003 HY_{47}	16.2	X	72.62284	271.18158	48.02365	6.10371	0.1379590	0.29482733	2.2357551	21	12 27.2	19.3
163725 2003 HA_{52}	16.5	X	42.86498	164.50658	115.12672	6.34958	0.1573980	0.28382043	2.2931912	21	9 30.9	19.1
163726 2003 HX_{54}	16.2	X	341.87190	278.01072	52.59702	7.55623	0.1452735	0.28240390	2.3008532	21	8 19.1	18.2
163727 2003 JV_{2}	16.6	X	106.35811	138.21338	101.24829	7.19188	0.0692611	0.28859911	2.2678068	21	10 17.5	19.6
163728 2003 JP_{3}	16.9	X	128.90965	291.30121	42.93184	3.96597	0.1263014	0.30570358	2.1824068	21	—	—
163729 2003 JQ_{7}	17.2	X	153.59548	68.72808	158.02233	5.36657	0.1171420	0.29536612	2.2330353	21	11 22.2	20.4
163730 2003 JT_{15}	16.7	X	55.27598	285.28439	40.89602	5.30649	0.1930896	0.29207978	2.2497541	21	12 22.9	19.7
163731 2003 KD	12.6	X	160.07679	98.67142	158.53874	13.67618	0.0230155	0.08331681	5.1917563	21	12 4.5	19.7
163732 2003 KP_{2}	15.4	X	318.86033	190.60996	193.42805	44.64982	0.6965631	0.21610128	2.7502013	21	5 29.6	20.0
163733 2003 KJ_{4}	16.7	X	326.20311	253.81449	90.88804	6.93242	0.1403250	0.28035751	2.3120360	21	8 5.2	18.7
163734 2003 KD_{6}	17.1	X	332.06135	217.30231	60.14051	1.32110	0.1861098	0.27316932	2.3524195	21	4 20.9	19.3
163735 2003 KN_{7}	16.7	X	336.64794	170.82940	135.11381	6.90930	0.1328786	0.27596781	2.3364891	21	6 22.9	18.9
163736 2003 KX_{10}	17.2	X	323.03288	145.08894	152.09693	2.75589	0.2220696	0.27154000	2.3618202	21	4 29.3	19.5
163737 2003 KL_{16}	16.7	X	294.13393	211.69666	88.44803	3.18882	0.2144946	0.26787379	2.3833212	21	3 25.7	20.0
163738 2003 KZ_{17}	16.5	X	6.08863	176.92027	110.52829	4.38634	0.2436047	0.27677983	2.3319170	21	8 4.8	17.5
163739 2003 KE_{19}	16.7	X	13.25299	145.77378	131.95541	6.53181	0.2051168	0.27774653	2.3265030	21	8 2.1	18.2
163740 2003 LU_{2}	16.6	X	104.70024	357.89363	244.31622	4.27744	0.1264070	0.28743737	2.2739133	21	10 19.1	19.8
163741 2003 LV_{3}	16.9	X	57.51251	294.88662	290.31833	1.96585	0.1140569	0.27801366	2.3250125	21	7 22.8	19.4
163742 2003 MQ	14.2	X	341.69631	103.90607	264.65814	23.95497	0.3316719	0.21754843	2.7379914	21	9 16.7	16.8
163743 2003 MN_{3}	16.4	X	330.03300	180.26261	85.11242	4.27318	0.2634243	0.26740931	2.3860802	21	3 19.6	18.9
163744 2003 MY_{3}	16.5	X	340.69011	292.25547	356.71052	1.93686	0.1995621	0.27123035	2.3636175	21	5 24.8	18.5
163745 2003 MY_{8}	15.6	X	215.59676	52.82050	270.16497	9.88110	0.0744757	0.25469497	2.4648423	21	2 7.1	19.3
163746 2003 MO_{11}	16.4	X	329.47606	12.83470	263.97597	1.77059	0.1976331	0.26835099	2.3804949	21	4 12.5	18.9
163747 2003 ND_{2}	16.3	X	331.67120	310.37363	349.20790	2.18248	0.1921068	0.27046257	2.3680886	21	5 23.6	18.5
163748 2003 NM_{2}	16.4	X	344.73541	204.10167	79.11834	5.17696	0.1508545	0.27113019	2.3641996	21	5 31.7	18.4
163749 2003 NR_{7}	16.2	X	282.62650	102.87094	228.10875	1.26934	0.2215056	0.26523852	2.3990814	21	4 19.8	19.5
163750 2003 NO_{9}	15.9	X	207.63742	36.23835	309.79408	5.55483	0.1477898	0.25693002	2.4505270	21	3 1.9	19.8
163751 2003 OQ	16.3	X	292.62492	302.71877	21.96498	2.79176	0.2059092	0.26665587	2.3905726	21	4 25.2	19.5
163752 2003 OC_{1}	15.4	X	235.84358	192.36572	225.10877	24.49346	0.2122534	0.26730419	2.3867057	21	6 22.2	19.6
163753 2003 OZ_{4}	16.5	X	265.99853	192.76675	173.91761	2.30976	0.2204831	0.26588827	2.3951714	21	5 20.0	19.9
163754 2003 OD_{6}	16.8	X	12.63071	88.21060	234.59152	1.30230	0.2609469	0.27793786	2.3254352	21	10 26.4	18.5
163755 2003 OG_{6}	16.9	X	226.76653	53.44514	305.07572	0.67575	0.2009640	0.25915533	2.4364787	21	4 3.7	21.0
163756 2003 OQ_{7}	16.4	X	201.22503	106.15617	204.50907	4.42074	0.1027334	0.25063489	2.4913899	21	1 11.8	20.2
163757 2003 OJ_{9}	15.8	X	273.55624	123.59773	203.65673	9.43031	0.1850646	0.26301706	2.4125710	21	4 9.5	19.2
163758 2003 OS_{13}	17.4	X	94.61405	244.23714	272.20220	41.54195	0.7411650	0.66802846	1.2960032	21	7 26.6	20.5
163759 2003 OV_{13}	16.3	X	218.76875	213.23032	142.69392	2.82440	0.1360527	0.25919147	2.4362522	21	3 27.4	19.9
163760 2003 OR_{14}	16.6	X	129.85544	212.01220	211.46671	13.06618	0.5039184	0.24761570	2.5116007	21	4 26.3	21.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163761 2003 OV_{14}	16.3	X	175.39366	170.67924	218.83095	10.53699	0.1518418	0.25465973	2.4650697	21	3 25.3	20.3
163762 2003 OH_{20}	15.4	X	7.44376	101.29956	301.97598	12.45559	0.1643916	0.22792495	2.6542478	21	—	—
163763 2003 OD_{23}	15.8	X	89.03219	336.25324	359.51411	10.92462	0.2485111	0.23187245	2.6240369	21	—	—
163764 2003 OX_{27}	15.9	X	250.20829	1.12890	338.81270	6.02874	0.1605383	0.26021779	2.4298422	21	4 2.5	19.7
163765 2003 OY_{27}	16.3	X	223.72266	207.89178	115.05691	3.28094	0.2234148	0.25435029	2.4670686	21	2 18.1	20.4
163766 2003 OL_{28}	16.2	X	215.94002	240.09607	32.82476	2.90954	0.0656748	0.24591760	2.5231494	21	—	—
163767 2003 PP_{2}	16.4	X	221.68773	217.49766	129.84791	1.39561	0.2278904	0.25758519	2.4463699	21	3 17.1	20.4
163768 2003 PS_{2}	16.4	X	290.37528	57.46928	297.86586	5.59692	0.2626989	0.26861877	2.3789126	21	5 25.4	19.7
163769 2003 PA_{4}	16.0	X	213.76638	38.39222	325.71575	5.66315	0.1378685	0.25708829	2.4495211	21	3 29.7	19.8
163770 2003 PX_{4}	16.2	X	303.94306	207.27272	134.60244	8.81024	0.2322074	0.26938149	2.3744201	21	6 2.6	19.1
163771 2003 PT_{8}	16.5	X	265.92874	89.36991	228.69392	1.77179	0.2021280	0.26100241	2.4249700	21	3 18.9	20.1
163772 2003 PU_{12}	16.0	X	267.38211	254.44174	68.28813	3.01452	0.2268972	0.26078444	2.4263210	21	3 26.1	19.9
163773 2003 QZ_{1}	16.9	X	113.45407	200.99382	170.57513	1.67704	0.1424434	0.24160088	2.5531150	21	—	—
163774 2003 QZ_{3}	16.2	X	209.88678	237.72396	169.73290	3.33031	0.1873556	0.26217164	2.4177548	21	5 22.1	20.1
163775 2003 QR_{8}	16.6	X	223.17056	146.64080	204.02204	4.02427	0.1954504	0.25744024	2.4472881	21	3 21.8	20.6
163776 2003 QL_{9}	16.2	X	82.81997	101.09184	286.54160	3.14602	0.1064612	0.24018041	2.5631715	21	—	—
163777 2003 QJ_{13}	16.1	X	310.74576	215.39812	141.76512	8.15280	0.0618807	0.26961883	2.3730264	21	8 2.7	18.8
163778 2003 QX_{16}	16.5	X	107.88930	233.65593	160.06170	5.84682	0.0947331	0.24486255	2.5303920	21	1 8.2	19.6
163779 2003 QQ_{19}	15.6	X	122.14436	134.92850	148.56455	14.01245	0.1123377	0.23230863	2.6207514	21	12 21.4	19.9
163780 2003 QZ_{19}	16.5	X	57.89098	207.37957	142.20254	4.11756	0.1825083	0.23041407	2.6350977	21	—	—
163781 2003 QA_{23}	16.3	X	311.47957	165.30277	217.07154	3.03323	0.2002707	0.27265346	2.3553857	21	8 23.1	18.4
163782 2003 QZ_{26}	15.4	X	94.18787	350.37942	345.00776	14.38900	0.2658250	0.23301136	2.6154795	21	—	—
163783 2003 QU_{33}	16.7	X	134.72832	217.43934	159.19366	2.68671	0.1627193	0.24706241	2.5153491	21	1 30.4	20.1
163784 2003 QY_{36}	16.3	X	238.90228	216.61460	163.32022	1.52032	0.1964363	0.26124724	2.4234547	21	5 12.7	20.1
163785 2003 QJ_{37}	16.4	X	295.47687	222.25377	43.41865	3.94015	0.1694827	0.25801147	2.4436746	21	2 17.8	19.7
163786 2003 QJ_{38}	16.7	X	222.48042	226.61339	147.64212	1.86156	0.1991055	0.25936759	2.4351492	21	4 20.8	20.6
163787 2003 QD_{39}	16.5	X	201.35369	41.88146	359.41990	2.05592	0.2198553	0.25832267	2.4417116	21	5 5.1	20.7
163788 2003 QA_{40}	15.6	X	76.93225	334.39514	337.22058	13.08623	0.1685372	0.22933171	2.6433823	21	12 13.2	19.8
163789 2003 QS_{42}	15.7	X	38.42979	268.24704	158.41374	12.12286	0.0827047	0.23820322	2.5773356	21	—	—
163790 2003 QE_{43}	16.9	X	100.53877	267.72095	105.25870	1.36534	0.1624827	0.23951139	2.5679424	21	—	—
163791 2003 QW_{44}	16.7	X	276.05320	262.92683	51.69638	2.91855	0.2102603	0.26132186	2.4229933	21	3 25.6	20.4
163792 2003 QV_{45}	16.3	X	267.09254	318.58524	66.58052	3.31426	0.1976063	0.26655050	2.3912026	21	6 17.6	19.4
163793 2003 QM_{51}	15.2	X	68.25941	346.42327	350.88530	9.31907	0.2004075	0.22882224	2.6473045	21	—	—
163794 2003 QE_{54}	16.0	X	259.98290	306.58732	23.84331	5.27742	0.1886363	0.26004711	2.4309052	21	3 31.5	19.6
163795 2003 QN_{57}	16.0	X	141.03271	212.39029	97.08158	2.28229	0.0850191	0.23978018	2.5660229	21	—	—
163796 2003 QU_{58}	16.3	X	226.06469	184.45382	80.96410	3.80558	0.1169716	0.24593227	2.5230491	21	—	—
163797 2003 QF_{62}	15.7	X	49.34417	178.00390	161.82591	15.49789	0.1674488	0.22563885	2.6721457	21	12 18.7	19.7
163798 2003 QU_{64}	15.7	X	120.48479	295.53151	36.44431	12.58632	0.1851081	0.23447022	2.6046193	21	—	—
163799 2003 QR_{69}	15.5	X	141.52037	32.26733	329.96701	6.68680	0.3518818	0.23995637	2.5647667	21	2 10.8	19.8
163800 Richardnorton	15.5	X	69.43957	103.77988	292.80310	13.45524	0.2023421	0.23636359	2.5906913	21	—	—
163801 2003 QQ_{73}	16.9	X	346.24139	116.92720	222.44062	3.47986	0.2012178	0.27536917	2.3398742	21	9 6.7	18.4
163802 2003 QG_{74}	16.6	X	212.65181	177.03216	225.49745	3.92059	0.1102969	0.26264199	2.4148673	21	5 20.6	20.1
163803 2003 QO_{79}	14.9	X	294.17693	359.48247	59.00980	13.02980	0.2516002	0.21308263	2.7761144	21	9 7.9	18.4
163804 2003 QQ_{88}	15.5	X	71.02347	351.99856	14.65780	8.83311	0.2394834	0.23055288	2.6340399	21	—	—
163805 2003 QX_{92}	15.8	X	231.53550	163.48020	111.45000	8.69632	0.1283082	0.24771924	2.5109008	21	—	—
163806 2003 QJ_{94}	15.9	X	293.71117	287.96125	38.03255	7.48559	0.2019447	0.26486675	2.4013258	21	4 29.4	18.9
163807 2003 QO_{100}	15.6	X	183.25432	284.31868	325.34184	13.16194	0.0572977	0.23419355	2.6066703	21	—	—
163808 2003 QC_{104}	15.7	X	130.33031	281.49413	106.90205	12.63457	0.1555008	0.24408940	2.5357325	21	2 11.4	19.3
163809 2003 QO_{105}	15.3	X	343.00334	294.14214	142.17387	13.44117	0.2472362	0.22554083	2.6729198	21	—	—
163810 2003 QQ_{109}	16.2	X	294.09378	291.07900	88.15841	6.46490	0.1956579	0.27089686	2.3655569	21	7 18.1	18.7
163811 2003 QH_{114}	15.3	X	55.42768	48.26625	280.35487	13.75791	0.1213094	0.22447983	2.6813355	21	12 4.0	19.0
163812 2003 RR_{1}	16.0	X	138.23511	305.09540	67.00221	9.31288	0.3060727	0.24448383	2.5330045	21	2 18.6	20.2
163813 2003 RW_{1}	15.3	X	99.31804	220.88236	152.11503	17.42770	0.1996106	0.23415740	2.6069385	21	—	—
163814 2003 RB_{2}	15.6	X	75.82395	331.75723	337.43701	12.73057	0.2541129	0.22819656	2.6521412	21	12 18.0	20.1
163815 2003 RR_{2}	16.0	X	61.09858	266.32887	161.29137	12.81620	0.1507800	0.24134814	2.5548971	21	—	—
163816 2003 RD_{4}	15.2	X	77.12479	357.15020	16.23123	20.27249	0.2467773	0.23429263	2.6059353	21	—	—
163817 2003 RP_{5}	15.4	X	17.06183	89.67892	278.67407	13.17628	0.1600266	0.22387697	2.6861469	21	12 9.1	18.7
163818 2003 RX_{7}	18.4	X	280.78521	245.88320	241.03397	10.38862	0.3544946	0.72335858	1.2290427	21	—	—
163819 Teleki	16.9	X	81.34228	341.04014	29.78694	2.98290	0.1542871	0.23572994	2.5953318	21	—	—
163820 2003 RU_{9}	15.4	X	153.42771	29.50158	287.40782	11.48795	0.2065122	0.23867258	2.5739555	21	—	—
163821 2003 RJ_{18}	16.2	X	213.51732	81.71871	268.16925	6.16312	0.1483194	0.25629994	2.4545415	21	3 10.7	20.2
163822 2003 RY_{21}	15.9	X	106.36672	291.02142	116.67877	7.63808	0.2932065	0.24487299	2.5303201	21	2 26.8	19.2
163823 2003 RJ_{24}	16.7	X	163.73220	330.42733	7.66448	1.92184	0.1123456	0.24423657	2.5347138	21	1 9.6	20.3
163824 2003 SE_{5}	16.6	X	83.32376	29.42671	1.97242	3.81780	0.2404188	0.23619457	2.5919271	21	—	—
163825 2003 SH_{5}	15.6	X	57.78573	288.00020	20.79035	14.73763	0.1774079	0.22331686	2.6906366	21	11 15.9	19.5
163826 2003 SK_{6}	15.3	X	14.62298	45.88100	11.52746	17.54556	0.2667121	0.22990333	2.6389989	21	—	—
163827 2003 SF_{12}	16.4	X	189.46169	161.02275	157.92300	3.20354	0.0903004	0.24652456	2.5190063	21	1 10.4	20.0
163828 2003 SY_{21}	15.6	X	139.53845	276.28524	89.72033	8.11600	0.3006080	0.24375000	2.5380858	21	2 10.1	19.7
163829 2003 SZ_{21}	15.7	X	20.44292	270.12997	133.64834	13.68507	0.1680684	0.23008439	2.6376143	21	—	—
163830 2003 SB_{26}	16.5	X	145.75042	268.23329	88.11976	1.13684	0.1369193	0.24369446	2.5384715	21	1 15.3	20.1
163831 2003 SB_{27}	16.3	X	281.01625	108.80451	210.35031	6.11116	0.1287427	0.26206864	2.4183882	21	4 14.7	19.6
163832 2003 SC_{27}	16.7	X	243.92686	179.66604	181.46277	4.68065	0.1140790	0.26062857	2.4272883	21	4 30.7	20.1
163833 2003 SE_{30}	16.5	X	79.09663	119.94521	194.04354	1.77915	0.0777670	0.22923219	2.6441473	21	12 9.2	20.2
163834 2003 SM_{36}	15.5	X	117.90255	273.53835	356.90380	12.54105	0.1500739	0.22762977	2.6565419	21	11 28.6	20.0
163835 2003 SF_{41}	15.8	X	29.32488	79.99907	339.91963	9.10897	0.2137389	0.23112925	2.6296590	21	—	—
163836 2003 SG_{41}	16.3	X	213.93207	40.86125	9.45745	11.73750	0.2386199	0.25865178	2.4396399	21	5 23.7	20.7
163837 2003 SN_{41}	16.6	X	76.49028	240.20742	172.50599	5.90299	0.2972423	0.23692513	2.5865962	21	1 15.7	18.9
163838 2003 ST_{41}	16.8	X	104.02104	43.15263	312.55690	12.93953	0.3076067	0.23715939	2.5848925	21	—	—
163839 2003 ST_{45}	16.4	X	274.29566	338.58958	52.79115	5.50399	0.1993055	0.26716084	2.3875594	21	7 5.6	19.4
163840 2003 SG_{47}	16.1	X	30.44523	87.86283	321.82204	11.60606	0.1840440	0.23241110	2.6199810	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163841 2003 SL_{51}	16.6	X	139.71169	309.49970	37.75325	4.27980	0.1412318	0.24110200	2.5566357	21	—	—
163842 2003 SN_{55}	15.9	X	143.10169	294.33976	336.95118	11.39593	0.1885177	0.23352622	2.6116338	21	12 26.7	20.4
163843 2003 SP_{56}	15.6	X	250.88856	243.37603	340.70058	13.46331	0.1510741	0.24219588	2.5489318	21	—	—
163844 2003 SW_{57}	16.4	X	237.26322	193.15147	181.64487	2.36114	0.2066148	0.25879498	2.4387399	21	5 4.1	20.4
163845 2003 SP_{60}	16.2	X	166.20226	92.02154	201.82659	4.87082	0.1224577	0.23917662	2.5703380	21	—	—
163846 2003 SW_{63}	15.9	X	78.32313	32.10415	322.06595	15.08409	0.2118499	0.23382538	2.6094057	21	—	—
163847 2003 SF_{64}	16.8	X	135.59221	211.42101	146.70561	7.75342	0.1703757	0.24178760	2.5518004	21	1 10.0	20.4
163848 2003 SW_{65}	16.5	X	153.65963	280.74736	31.59406	6.72039	0.2851017	0.24069551	2.5595133	21	—	—
163849 2003 SG_{69}	15.7	X	48.43411	172.79101	202.12225	8.43300	0.0359932	0.23042118	2.6350435	21	—	—
163850 2003 SM_{79}	15.9	X	51.23915	81.24898	339.36402	11.45605	0.1870375	0.23577721	2.5949849	21	—	—
163851 2003 SK_{80}	16.5	X	49.67324	219.12566	184.17424	2.60897	0.1498106	0.23229344	2.6208656	21	—	—
163852 2003 SV_{81}	15.6	X	33.00995	324.79139	14.49630	13.85974	0.1117665	0.22410984	2.6842859	21	11 12.9	19.1
163853 2003 SW_{82}	17.6	X	145.10363	281.35667	84.09611	0.28455	0.2490007	0.24416120	2.5352353	21	2 7.2	21.4
163854 2003 SX_{83}	16.8	X	29.98342	356.58399	46.47727	2.66126	0.0935431	0.23079770	2.6321768	21	—	—
163855 2003 SU_{86}	16.6	X	113.00686	227.27338	151.11449	5.66602	0.1658745	0.24229226	2.5482558	21	1 6.9	19.7
163856 2003 SP_{90}	15.9	X	294.92433	310.51003	51.36418	7.00874	0.1388197	0.26634210	2.3924498	21	7 3.1	18.7
163857 2003 SF_{91}	15.8	X	307.77189	139.95569	336.05682	13.52775	0.0955610	0.22899860	2.6459451	21	—	—
163858 2003 SU_{93}	15.6	X	160.12729	271.82700	11.28823	12.26096	0.1301568	0.23400844	2.6080447	21	—	—
163859 2003 SK_{95}	15.2	X	60.50081	342.47115	353.34872	14.58521	0.1036561	0.22681849	2.6628727	21	12 16.7	19.2
163860 2003 SS_{95}	15.8	X	97.07430	22.13393	219.21232	8.34530	0.0970687	0.21752013	2.7382289	21	9 27.9	19.8
163861 2003 SK_{97}	15.8	X	302.33565	6.77946	178.36163	11.99835	0.0657670	0.24141344	2.5544363	21	—	—
163862 2003 SX_{98}	15.2	X	167.19043	291.04763	298.84793	14.21374	0.1744204	0.23100267	2.6306196	21	11 25.4	19.7
163863 2003 SS_{101}	15.4	X	291.06787	175.82521	246.57006	8.02675	0.1301562	0.21697739	2.7427932	21	9 16.1	18.9
163864 2003 SN_{102}	15.9	X	208.66255	301.76397	319.23352	12.11402	0.1510497	0.24089059	2.5581313	21	—	—
163865 2003 SB_{107}	16.1	X	143.14454	284.09247	3.38008	16.87880	0.2492247	0.23481849	2.6020433	21	—	—
163866 2003 SE_{111}	15.8	X	309.20039	328.88318	120.63617	4.98682	0.2843799	0.21906613	2.7253308	21	11 13.7	17.9
163867 2003 SM_{132}	16.4	X	105.38991	148.69364	172.31913	0.96936	0.1386046	0.23111590	2.6297603	21	—	—
163868 2003 SF_{134}	16.3	X	209.24427	35.21274	216.39192	4.36686	0.2056925	0.24240845	2.5474415	21	—	—
163869 2003 SK_{136}	16.5	X	100.90351	275.20024	69.69976	2.94481	0.1237005	0.23510627	2.5999196	21	—	—
163870 2003 SG_{137}	16.3	X	49.64887	199.93606	198.33261	1.51617	0.2162704	0.23123713	2.6288411	21	—	—
163871 2003 SE_{143}	15.5	X	333.06868	303.59749	47.71371	7.37936	0.0765268	0.21339365	2.7734162	21	8 30.3	18.9
163872 2003 SD_{146}	15.5	X	38.47226	51.75586	12.75523	14.36238	0.1557713	0.23212744	2.6221150	21	—	—
163873 2003 SN_{147}	15.4	X	39.90089	167.10811	213.94459	13.35114	0.2666318	0.22611693	2.6683779	21	—	—
163874 2003 SW_{147}	15.2	X	342.85731	231.35847	215.72218	21.28233	0.0531364	0.22709939	2.6606764	21	—	—
163875 2003 SE_{162}	16.5	X	95.98216	226.68468	150.05958	5.69087	0.2294962	0.23632626	2.5909641	21	—	—
163876 2003 SM_{162}	16.0	X	261.91189	229.33279	208.60943	3.48457	0.0414222	0.21471717	2.7620076	21	9 11.9	19.8
163877 2003 SF_{163}	16.5	X	46.04422	222.51805	161.55458	3.51082	0.1867464	0.22975819	2.6401101	21	—	—
163878 2003 SH_{163}	16.5	X	203.73681	149.59510	153.38983	3.23623	0.1819388	0.24470384	2.5314860	21	1 9.3	20.6
163879 2003 SY_{168}	15.8	X	139.11794	249.08966	85.80568	9.16493	0.1456822	0.24016389	2.5632890	21	—	—
163880 2003 SK_{169}	16.4	X	179.42644	268.61333	136.09544	3.99350	0.2151179	0.25380722	2.4705865	21	4 23.8	20.6
163881 2003 SK_{170}	16.4	X	331.78972	310.76010	23.63605	2.47115	0.2387449	0.27259069	2.3557473	21	7 17.0	17.8
163882 2003 SE_{173}	16.7	X	113.43594	257.20851	132.00152	4.24367	0.1954483	0.24181622	2.5515991	21	1 26.5	19.7
163883 2003 ST_{177}	16.8	X	91.14484	66.74476	346.69053	0.34838	0.1086434	0.24268795	2.5454852	21	1 13.3	19.8
163884 2003 SC_{179}	16.5	X	123.41438	32.26791	340.44350	4.97123	0.0520427	0.24243407	2.5472620	21	—	—
163885 2003 SN_{180}	15.6	X	279.21696	145.40487	343.59806	14.49332	0.0626161	0.22726974	2.6593468	21	12 9.6	19.3
163886 2003 SJ_{185}	16.1	X	354.28216	346.74838	113.32897	4.47808	0.0222263	0.23619904	2.5918943	21	—	—
163887 2003 SL_{189}	15.3	X	302.08267	242.75000	217.09969	12.18330	0.1444790	0.22253628	2.6969248	21	11 29.1	18.3
163888 2003 SK_{191}	16.2	X	352.42551	55.90006	346.13055	3.64549	0.0972050	0.22345513	2.6895265	21	12 6.4	19.3
163889 2003 SS_{196}	15.7	X	314.04169	80.78636	325.80626	4.94204	0.1103473	0.21751127	2.7383032	21	10 6.4	18.9
163890 2003 SC_{199}	15.4	X	305.00319	89.15453	297.40717	4.39120	0.0707292	0.21365727	2.7711344	21	8 29.8	18.9
163891 2003 SJ_{199}	15.5	X	359.36383	135.44924	241.75390	7.87662	0.1041651	0.22136494	2.7064301	21	11 14.6	18.5
163892 2003 SQ_{199}	15.5	X	12.49886	12.91746	8.56494	14.23433	0.1268410	0.22311506	2.6922587	21	12 12.4	19.0
163893 2003 SX_{201}	16.8	X	139.13715	177.66527	172.87584	1.76871	0.2242708	0.23984735	2.5655438	21	1 11.9	20.5
163894 2003 SM_{203}	16.0	X	335.36170	241.10362	157.38712	2.12637	0.0439644	0.22369715	2.6875862	21	11 4.7	19.2
163895 2003 SN_{205}	16.1	X	146.60240	354.97186	29.50228	6.73472	0.2002678	0.24524190	2.5277819	21	3 1.6	20.0
163896 2003 SQ_{206}	15.7	X	354.94461	46.57182	32.41777	12.50574	0.1974220	0.22740422	2.6582983	21	—	—
163897 2003 SP_{211}	15.8	X	129.95283	52.23557	50.16122	6.04782	0.1151000	0.25742565	2.4473806	21	5 9.8	19.1
163898 2003 SN_{216}	16.4	X	75.55956	139.14674	203.15869	4.77883	0.2039916	0.22965827	2.6408759	21	—	—
163899 2003 SD_{220}	17.9	X	357.01327	326.93417	273.91415	8.51461	0.2106313	1.31125391	0.8266941	21	—	—
163900 2003 SD_{222}	16.0	X	95.54221	86.63497	204.53716	1.85586	0.0464294	0.22271353	2.6954936	21	11 25.3	19.7
163901 2003 SG_{222}	16.3	X	46.16254	178.15457	181.44160	0.73797	0.1423357	0.22598094	2.6694483	21	—	—
163902 2003 SW_{222}	17.2	X	88.51304	165.06713	283.72925	16.11223	0.2480398	0.46052988	1.6607242	21	—	—
163903 2003 SK_{223}	16.2	X	9.27794	349.97295	65.38345	2.24312	0.3047576	0.22497078	2.6774332	21	—	—
163904 2003 SX_{224}	15.9	X	352.20972	292.68166	168.85104	13.17579	0.1664335	0.23443453	2.6048837	21	—	—
163905 2003 SW_{225}	16.5	X	47.74579	17.31179	4.27716	2.19997	0.2491825	0.22919714	2.6444168	21	—	—
163906 2003 SA_{226}	16.1	X	56.83097	355.92006	35.57670	3.84631	0.1898211	0.23154007	2.6265476	21	—	—
163907 2003 SD_{230}	16.3	X	83.70087	22.83916	23.78589	3.83741	0.0943470	0.24256986	2.5463113	21	—	—
163908 2003 SU_{234}	15.6	X	314.57136	265.67314	148.66231	5.50025	0.0568112	0.21920494	2.7241801	21	10 26.5	19.0
163909 2003 SM_{237}	16.1	X	319.80205	236.76753	180.86340	6.61236	0.0219135	0.22347881	2.6893365	21	11 8.9	19.6
163910 2003 SF_{238}	16.7	X	182.27469	273.57981	6.18310	4.80711	0.2681854	0.24135970	2.5548155	21	—	—
163911 2003 SA_{239}	15.8	X	315.08171	201.28378	339.90951	6.34685	0.1438868	0.24239236	2.5475542	21	—	—
163912 2003 SN_{245}	15.6	X	91.31047	147.91280	183.08173	13.18564	0.0311878	0.23117830	2.6292871	21	—	—
163913 2003 SP_{246}	15.4	X	165.19964	292.07478	9.71851	15.45682	0.1255619	0.23856873	2.5747024	21	—	—
163914 2003 SU_{247}	15.3	X	126.21529	232.16749	11.87449	15.20217	0.1544214	0.22338973	2.6900514	21	11 2.9	19.7
163915 2003 SO_{248}	15.5	X	74.55104	95.74471	199.18859	13.57669	0.0564012	0.22190729	2.7020186	21	11 7.1	19.2
163916 2003 SE_{252}	16.1	X	121.75324	352.59470	13.41610	4.07925	0.3176479	0.23760891	2.5816314	21	1 26.3	19.8
163917 2003 SH_{252}	15.9	X	121.54788	105.03834	275.74321	1.84631	0.2715748	0.23854347	2.5748842	21	2 5.5	19.4
163918 2003 SQ_{252}	15.7	X	112.21880	354.01314	50.39311	9.18994	0.1774454	0.23878480	2.5731490	21	2 16.0	19.2
163919 2003 SX_{259}	15.6	X	110.81175	316.70526	30.34329	8.40620	0.1568801	0.23478268	2.6023079	21	—	—
163920 2003 SM_{272}	15.9	X	264.82818	160.35941	302.46250	3.90074	0.1530893	0.21861767	2.7290566	21	9 30.9	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
163921 2003 SK_{278}	16.1	X	108.56161	52.17903	277.15915	5.94733	0.2049196	0.23342806	2.6123659	21	—	—
163922 2003 SL_{282}	16.1	X	63.95754	230.15132	156.67942	3.37176	0.0500781	0.23370817	2.6102782	21	—	—
163923 2003 SW_{292}	14.9	X	38.23293	87.05490	315.60485	12.00951	0.0887357	0.23029561	2.6360012	21	—	—
163924 2003 SN_{293}	16.4	X	61.54781	101.15967	342.14745	7.54118	0.1346584	0.24110210	2.5566349	21	1 9.8	19.1
163925 2003 SC_{296}	15.5	X	113.07428	276.90081	322.27582	11.86059	0.1124406	0.22061264	2.7125794	21	10 10.7	19.9
163926 2003 SN_{299}	15.0	X	95.77826	31.30190	299.13978	13.93609	0.1137211	0.22922544	2.6441992	21	—	—
163927 2003 SO_{304}	16.4	X	183.72558	195.49253	118.46963	3.46552	0.0296585	0.24095422	2.5576809	21	—	—
163928 2003 SY_{304}	15.6	X	165.42835	345.85885	259.79754	3.70282	0.0335389	0.22733411	2.6588448	21	12 19.7	19.4
163929 2003 SF_{306}	15.6	X	331.74379	42.81378	333.00936	6.65973	0.1485604	0.21592195	2.7517239	21	9 22.3	18.6
163930 2003 SQ_{308}	15.3	X	300.57058	208.91353	287.78921	11.32932	0.1255248	0.22907033	2.6453928	21	—	—
163931 2003 SQ_{309}	16.0	X	133.51659	36.82693	242.66196	2.33419	0.0694575	0.23032491	2.6357777	21	12 25.7	19.8
163932 2003 SD_{310}	16.2	X	12.85450	255.89868	168.52041	5.87608	0.2218138	0.22941930	2.6427095	21	—	—
163933 2003 SG_{310}	15.7	X	199.16029	8.40999	26.26252	12.73362	0.2377254	0.25525895	2.4612103	21	4 24.6	20.0
163934 2003 SG_{311}	15.8	X	242.68495	143.82984	332.37883	1.47118	0.2441466	0.21558980	2.7545495	21	9 11.5	20.1
163935 2003 SG_{321}	16.6	X	177.91217	50.80626	225.98752	2.17519	0.1103044	0.23434935	2.6055148	21	—	—
163936 2003 TT_{11}	16.5	X	123.89708	292.89826	23.81207	3.57272	0.2243461	0.23442574	2.6049487	21	—	—
163937 2003 TD_{12}	15.9	X	127.95311	256.59547	42.02955	12.34700	0.1232279	0.23117180	2.6293364	21	—	—
163938 2003 TV_{17}	15.7	X	286.52898	152.65371	289.56316	3.93796	0.0838280	0.21888195	2.7268594	21	10 14.9	19.1
163939 2003 TA_{20}	15.4	X	31.86378	105.60886	300.96179	12.49727	0.1689660	0.23050207	2.6344270	21	—	—
163940 2003 TK_{20}	16.3	X	338.15430	101.39415	325.85323	8.10030	0.1613282	0.22488037	2.6781508	21	12 22.5	19.1
163941 2003 TU_{58}	15.6	X	100.60210	336.10208	329.39194	11.15645	0.0719481	0.22586171	2.6703876	21	12 21.9	19.7
163942 2003 UN	15.0	X	8.36624	150.21193	242.87425	14.92520	0.2048314	0.22424998	2.6831674	21	—	—
163943 2003 UF_{9}	15.5	X	135.78368	280.28590	136.29908	17.25419	0.1956602	0.24549421	2.5260496	21	4 2.2	19.6
163944 2003 UE_{12}	16.1	X	208.21325	222.81035	200.72638	1.35594	0.1765722	0.20206619	2.8761196	21	6 11.4	20.8
163945 2003 UJ_{12}	15.9	X	42.98190	283.09004	43.53350	5.63958	0.1484286	0.22059882	2.7126927	21	11 18.8	19.4
163946 2003 UC_{14}	15.3	X	316.15063	222.36046	143.52705	7.06599	0.0604132	0.21424907	2.7660291	21	8 21.4	18.8
163947 2003 UW_{15}	16.1	X	76.02877	272.02737	139.70031	2.12749	0.1366339	0.23580039	2.5948148	21	—	—
163948 2003 UH_{19}	15.5	X	117.03139	204.48254	169.26132	3.08292	0.0850718	0.23668498	2.5883455	21	—	—
163949 2003 UN_{21}	15.5	X	289.64492	114.57120	337.19455	13.37640	0.0924270	0.21922997	2.7239728	21	10 26.7	19.2
163950 2003 UN_{22}	15.3	X	223.99014	152.89310	35.31941	15.27596	0.0518327	0.22549864	2.6732532	21	12 13.0	19.2
163951 2003 UP_{22}	15.7	X	27.29309	262.39553	106.90484	6.77176	0.0463950	0.22337200	2.6901938	21	12 9.2	19.3
163952 2003 UN_{28}	15.9	X	326.96888	308.79446	50.18560	5.06365	0.0871500	0.21165082	2.7886205	21	8 28.9	19.2
163953 2003 UC_{36}	15.2	X	2.69018	132.07423	345.67453	14.86997	0.0853445	0.23469184	2.6029794	21	—	—
163954 2003 UA_{37}	15.5	X	176.27551	308.24863	5.55659	13.97662	0.1253617	0.23905529	2.5712076	21	—	—
163955 2003 US_{40}	15.4	X	69.13802	59.02710	228.90183	11.62138	0.1533914	0.21846555	2.7303233	21	11 2.4	19.1
163956 2003 UV_{45}	15.8	X	5.25561	90.77274	200.30970	3.97151	0.0842556	0.20917576	2.8105748	21	7 24.2	19.3
163957 2003 UY_{48}	15.8	X	94.51749	302.22392	83.72363	4.20033	0.1265194	0.23598188	2.5934842	21	—	—
163958 2003 UY_{55}	15.6	X	101.56895	348.75441	311.57491	10.84890	0.0693942	0.22527723	2.6750045	21	12 15.9	19.6
163959 2003 UF_{63}	15.8	X	353.35130	238.85999	126.17653	5.87035	0.1264222	0.21946822	2.7220011	21	10 23.4	18.8
163960 2003 UX_{63}	15.6	X	348.02595	228.93181	137.59547	10.24123	0.1627563	0.21828439	2.7318337	21	10 18.9	18.5
163961 2003 UD_{68}	16.2	X	46.53036	259.60077	90.19758	2.32049	0.1351404	0.22551827	2.6730981	21	12 22.1	19.5
163962 2003 US_{77}	15.6	X	48.65847	56.35061	306.53883	5.01060	0.0862968	0.22675379	2.6633792	21	—	—
163963 2003 UO_{80}	15.8	X	155.27153	86.17878	178.24582	4.82606	0.0650473	0.22941039	2.6427779	21	12 30.2	19.8
163964 2003 UR_{81}	16.4	X	28.02193	281.13717	117.75131	6.70934	0.2711212	0.22706237	2.6609656	21	—	—
163965 2003 UT_{82}	16.0	X	97.83557	198.59233	143.23841	11.44795	0.1809967	0.23091190	2.6313089	21	—	—
163966 2003 UJ_{86}	16.0	X	31.70462	105.00561	353.77531	3.74362	0.1567180	0.23345135	2.6121922	21	—	—
163967 2003 UV_{88}	15.6	X	84.70617	179.49890	169.75637	11.96323	0.0859904	0.22800479	2.6536281	21	—	—
163968 2003 UV_{99}	15.7	X	24.97573	219.52070	131.88699	5.80321	0.0421395	0.21961707	2.7207710	21	11 13.3	19.3
163969 2003 UA_{100}	16.3	X	54.83875	296.46985	100.16488	4.89319	0.2116652	0.23094433	2.6310626	21	—	—
163970 2003 UW_{101}	16.3	X	138.52549	180.94345	164.88119	5.07785	0.1177490	0.23884734	2.5726998	21	—	—
163971 2003 UQ_{102}	16.3	X	43.54512	224.01593	128.88853	2.03874	0.1155289	0.22533035	2.6745841	21	12 19.5	19.9
163972 2003 UF_{106}	16.4	X	347.73040	234.56235	176.06599	5.17628	0.0302231	0.22451054	2.6810910	21	12 7.3	19.9
163973 2003 UL_{107}	16.5	X	120.57426	287.45803	12.23743	3.26476	0.1821097	0.23234230	2.6204981	21	—	—
163974 2003 UC_{109}	16.0	X	13.24548	47.37629	308.89567	6.20326	0.0701259	0.21931692	2.7232528	21	11 1.7	19.6
163975 2003 UB_{110}	16.3	X	5.12073	83.84515	197.29882	1.09449	0.0544569	0.20578769	2.8413395	21	7 10.2	19.8
163976 2003 UN_{111}	15.8	X	43.99750	63.44670	57.36650	6.36461	0.0405445	0.24306283	2.5428672	21	1 28.5	18.9
163977 2003 UY_{111}	16.3	X	55.67572	255.60066	80.62855	3.78868	0.1239439	0.22513726	2.6761131	21	12 14.5	19.9
163978 2003 UU_{115}	15.7	X	279.96684	117.60633	275.20571	2.69021	0.1035206	0.20981552	2.8048586	21	7 28.8	19.4
163979 2003 UF_{116}	15.9	X	45.57376	291.99242	77.68281	4.80708	0.2006137	0.22757493	2.6569687	21	—	—
163980 2003 UC_{118}	16.5	X	181.48719	312.00728	330.36051	3.00716	0.2267901	0.23953501	2.5677735	21	—	—
163981 2003 UY_{120}	15.8	X	228.87023	181.41186	32.94191	5.22782	0.1696927	0.23193866	2.6235376	21	—	—
163982 2003 UK_{127}	16.0	X	21.42530	258.13141	57.47694	2.74667	0.0803399	0.21498596	2.7597049	21	9 25.1	19.3
163983 2003 UK_{129}	15.2	X	21.55072	24.30421	333.06734	13.67623	0.1120920	0.22204785	2.7008782	21	11 19.6	18.9
163984 2003 UC_{132}	14.7	X	45.06135	230.91886	84.11950	14.69094	0.2024725	0.21833624	2.7314012	21	11 18.3	18.4
163985 2003 UM_{134}	15.3	X	334.97787	47.68026	333.17280	5.49018	0.0275787	0.21714590	2.7413740	21	10 7.8	18.9
163986 2003 UV_{134}	16.1	X	135.47216	56.40764	294.10342	2.27057	0.2344220	0.23860563	2.5744369	21	1 9.8	19.7
163987 2003 UK_{138}	15.9	X	60.24789	209.81812	116.42506	4.14808	0.0697358	0.22240539	2.6979828	21	11 30.3	19.6
163988 2003 UQ_{142}	15.2	X	358.44243	65.79405	293.94264	5.15085	0.0382895	0.21669667	2.7451615	21	10 12.6	18.9
163989 2003 UD_{147}	15.8	X	17.11973	208.27308	200.67166	11.78050	0.1529839	0.22567524	2.6718584	21	—	—
163990 2003 UN_{147}	15.3	X	10.37796	318.82152	57.44421	14.54300	0.1292040	0.22041934	2.7141651	21	12 2.7	18.4
163991 2003 UR_{147}	16.0	X	172.52336	337.57380	25.19198	5.58068	0.0912074	0.24335505	2.5408312	21	2 19.1	19.7
163992 2003 UZ_{147}	15.9	X	344.02642	255.64482	122.31358	6.79621	0.0696843	0.21719371	2.7409717	21	10 23.1	19.3
163993 2003 UR_{148}	15.6	X	280.30538	221.19211	231.54753	2.83567	0.0451269	0.21770171	2.7367061	21	10 26.6	19.1
163994 2003 UT_{149}	16.4	X	82.15579	220.42436	157.18394	4.24936	0.1779488	0.23465775	2.6032314	21	—	—
163995 2003 UO_{150}	15.5	X	125.56807	305.25389	37.60199	5.05572	0.1581247	0.23466477	2.6031795	21	—	—
163996 2003 UT_{150}	16.1	X	127.47204	145.16266	179.90521	3.61959	0.0735979	0.23286209	2.6165971	21	—	—
163997 2003 UK_{163}	15.8	X	316.49979	216.69264	140.02315	4.86777	0.1501460	0.21148326	2.7900932	21	7 28.7	18.9
163998 2003 UL_{164}	15.7	X	75.44551	196.80433	106.38167	3.60971	0.0809466	0.22152180	2.7051524	21	11 21.2	19.6
163999 2003 UR_{165}	16.4	X	152.44523	249.44549	230.73082	1.05090	0.0325785	0.20302052	2.8670994	21	6 23.7	20.5
164000 2003 UH_{167}	16.1	X	22.81205	141.43280	264.75682	5.39200	0.1950106	0.22814293	2.6525569	21	—	—