Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288001 2003 UZ_{191}	16.6	X	285.53783	285.44430	11.49016	7.06978	0.1228048	0.26991318	2.3713008	20	4 2.2	19.4
288002 2003 UH_{192}	17.1	X	142.60061	216.95045	226.87117	3.83892	0.1734882	0.26648948	2.3915676	20	5 13.9	20.6
288003 2003 UJ_{195}	17.4	X	304.31898	139.90908	237.43647	5.11056	0.1791887	0.28446033	2.2897509	20	8 23.7	19.3
288004 2003 UF_{197}	16.5	X	299.46884	13.62222	57.35465	4.57812	0.2157582	0.23173558	2.6250701	20	10 23.9	18.8
288005 2003 UQ_{197}	16.9	X	302.06020	268.44043	214.92364	5.73282	0.1445073	0.24032969	2.5621099	20	—	—
288006 2003 US_{200}	17.2	X	46.66848	289.43920	16.08217	4.94616	0.1621027	0.29424095	2.2387244	20	11 22.8	20.1
288007 2003 UU_{201}	16.5	X	233.61957	243.11715	57.92387	5.49519	0.1343826	0.26304232	2.4124166	20	2 11.7	20.2
288008 2003 UU_{203}	17.2	X	268.92590	74.58974	20.78092	3.86697	0.2285827	0.22910699	2.6451105	20	9 29.7	20.2
288009 2003 UY_{203}	16.5	X	288.90670	308.87893	29.65227	3.27476	0.1066946	0.21776489	2.7361767	20	6 7.4	20.1
288010 2003 UT_{204}	17.5	X	11.88739	143.90949	243.60007	2.79680	0.1470984	0.23921464	2.5700656	20	—	—
288011 2003 UH_{207}	15.7	X	297.57355	136.87266	261.63303	3.49950	0.1139456	0.16842065	3.2474252	20	9 2.4	19.9
288012 2003 UZ_{207}	17.5	X	214.09668	67.89976	17.92619	3.71737	0.1641398	0.27804323	2.3248476	20	7 26.9	20.9
288013 2003 UC_{210}	17.1	X	302.27585	357.72230	28.10284	3.81944	0.1606470	0.28549553	2.2842125	20	9 10.4	18.8
288014 2003 UB_{211}	16.3	X	71.73738	69.99443	239.43307	4.59470	0.3181170	0.23969923	2.5666006	20	12 27.7	20.6
288015 2003 UC_{211}	16.2	X	248.91397	223.65015	231.94843	10.64061	0.1420130	0.22569147	2.6717304	20	9 10.5	20.1
288016 2003 UN_{213}	17.1	X	197.07126	356.22283	358.29577	2.36871	0.1343969	0.26561099	2.3968381	20	3 11.8	20.9
288017 2003 UZ_{213}	17.5	X	267.35591	81.29684	220.04727	1.56506	0.2362583	0.27127083	2.3633823	20	3 3.7	21.0
288018 2003 UX_{219}	18.2	X	71.34082	70.23879	280.16983	1.69660	0.1617872	0.30377364	2.1916405	20	—	
288019 2003 UG_{221}	16.1	X	321.27405	73.12235	305.37136	3.83455	0.1419760	0.17136761	3.2100877	20	9 12.0	19.9
288020 2003 UH_{221}	16.6	X	216.38141	179.95181	246.18797	3.80093	0.1037733	0.21971191	2.7199880	20	7 4.0	20.6
288021 2003 UF_{226}	16.1	X	320.70580	141.59276	262.42097	11.32096	0.2889701	0.22911014	2.6450863	20	10 23.1	18.0
288022 2003 UE_{227}	16.8	X	283.37950	86.23546	291.90807	3.50372	0.1618587	0.22228467	2.6989595	20	7 15.9	20.2
288023 2003 UD_{228}	16.5	X	75.74991	196.54475	250.91415	5.63360	0.0762525	0.25701471	2.4499886	20	2 8.9	19.5
288024 2003 UK_{228}	17.4	X	240.81015	253.46564	128.42484	4.47814	0.2081239	0.27606812	2.3359231	20	5 25.2	20.9
288025 2003 UL_{228}	17.2	X	138.40206	311.48981	142.56662	2.84156	0.1408949	0.26800024	2.3825714	20	5 21.3	20.6
288026 2003 UQ_{228}	17.1	X	158.98754	241.32533	172.77769	6.13497	0.1286096	0.26762103	2.3848216	20	4 20.1	20.7
288027 2003 UJ_{231}	15.9	X	2.74777	144.32644	218.61027	7.87900	0.0885148	0.17512593	3.1639946	20	10 31.3	19.9
288028 2003 UG_{232}	16.6	X	303.08794	185.83269	209.64972	13.19398	0.0886793	0.22865095	2.6486264	20	9 18.4	19.8
288029 2003 UY_{235}	16.4	X	7.51012	316.12382	350.15261	11.49753	0.1973807	0.22995964	2.6385681	20	9 16.0	19.0
288030 2003 UZ_{238}	15.7	X	53.40428	292.74368	15.57357	9.30253	0.0690752	0.17566539	3.1575137	20	10 27.8	20.2
288031 2003 UM_{239}	17.7	X	289.83172	210.79787	245.05064	2.91825	0.1144629	0.29468067	2.2364968	20	12 11.5	19.5
288032 2003 UE_{241}	16.2	X	119.49049	348.88303	245.17875	7.21754	0.0349546	0.22978012	2.6399422	20	10 19.7	19.9
288033 2003 UB_{242}	16.4	X	289.64559	301.26078	72.52230	5.26169	0.0979459	0.22238780	2.6981251	20	7 31.0	19.7
288034 2003 UN_{242}	17.1	X	25.65885	298.25818	69.39022	2.52581	0.1682989	0.23795583	2.5791216	20	—	—
288035 2003 UH_{251}	17.0	X	28.51313	354.18908	214.24161	5.01915	0.0630832	0.27096030	2.3651877	20	5 17.8	19.5
288036 2003 UM_{256}	17.4	X	243.52727	229.75196	180.65041	5.19538	0.1537829	0.27847404	2.3224493	20	7 10.8	20.5
288037 2003 UV_{256}	16.5	X	233.97205	210.97493	197.28884	7.62638	0.2736003	0.21688593	2.7435642	20	6 14.8	21.2
288038 2003 UR_{259}	14.9	X	296.99334	193.56601	232.54934	25.85264	0.1238719	0.16904483	3.2394265	20	10 2.4	19.4
288039 2003 UE_{262}	17.5	X	182.41235	172.17472	218.43195	1.47159	0.2144207	0.26603364	2.3942988	20	4 13.4	21.4
288040 2003 UW_{262}	16.3	X	123.67131	223.73039	16.37312	17.11530	0.1359354	0.23579323	2.5948674	20	11 3.7	20.6
288041 2003 UH_{263}	16.9	X	282.39504	232.14107	102.09668	7.41808	0.1524114	0.27734956	2.3287225	20	5 17.7	19.8
288042 2003 UP_{267}	16.0	X	23.57704	267.19367	49.89634	12.88185	0.2734355	0.23207152	2.6225361	20	11 12.5	19.1
288043 2003 UW_{269}	16.2	X	237.45929	48.90327	342.34304	4.36100	0.0645958	0.21618059	2.7495286	20	6 17.1	20.2
288044 2003 UB_{271}	16.3	X	242.57418	5.64074	49.76738	13.32432	0.2399099	0.22199619	2.7012972	20	7 4.9	20.7
288045 2003 UC_{271}	15.2	X	350.23207	319.55558	31.96103	17.74688	0.0844890	0.17382174	3.1798013	20	10 3.2	19.3
288046 2003 UV_{271}	16.2	X	260.38948	331.54994	34.07040	6.83920	0.0952158	0.21656363	2.7462856	20	6 6.8	20.1
288047 2003 UV_{276}	16.1	X	32.66862	156.10564	262.81277	4.43186	0.2341310	0.18670683	3.0317676	20	—	—
288048 2003 UV_{279}	16.7	X	20.82186	73.27075	237.45777	10.74982	0.1837133	0.23082582	2.6319631	20	10 12.6	19.8
288049 2003 UE_{283}	15.7	X	18.36966	156.79476	200.20573	13.67379	0.2555257	0.17561890	3.1580709	20	12 8.9	19.8
288050 2003 UD_{290}	15.8	X	324.76315	249.19929	194.19747	10.11749	0.0317273	0.18282139	3.0745723	20	12 16.6	20.2
288051 2003 UR_{290}	17.1	X	158.38896	179.28554	53.67419	5.56386	0.0725034	0.29508264	2.2344653	20	12 17.3	19.9
288052 2003 UN_{293}	15.6	X	341.93145	206.57347	121.38149	14.80006	0.1965144	0.22723959	2.6595820	20	8 25.2	18.0
288053 2003 UC_{296}	16.8	X	43.28708	263.89198	19.62482	13.14920	0.2692390	0.23330677	2.6132712	20	10 23.6	20.3
288054 2003 UW_{299}	15.8	X	226.44288	46.96300	48.84091	22.71649	0.0506737	0.22560302	2.6724286	20	9 14.8	20.0
288055 2003 UW_{300}	17.2	X	10.54982	271.12688	1.89622	6.63614	0.1559100	0.28207500	2.3026414	20	8 7.6	19.2
288056 2003 UD_{304}	16.8	X	345.38776	31.15842	359.40302	5.59129	0.0495903	0.23506523	2.6002221	20	11 20.3	20.0
288057 2003 UA_{309}	16.1	X	130.96627	224.60892	33.34789	12.34066	0.0351892	0.23564202	2.5959773	20	12 3.5	19.9
288058 2003 UG_{309}	16.8	X	1.88102	210.56962	202.03248	8.57428	0.1534617	0.23938844	2.5688216	20	—	—
288059 2003 US_{314}	16.8	X	13.63026	310.05874	105.16661	5.60971	0.1623509	0.24117622	2.5561111	20	—	—
288060 2003 UD_{319}	16.0	X	206.05720	216.15465	146.60460	5.94888	0.0565225	0.20900470	2.8121082	20	4 7.4	20.1
288061 2003 UW_{319}	17.0	X	209.13945	146.71325	171.41900	4.22435	0.1549588	0.26335886	2.4104831	20	2 6.3	20.8
288062 2003 UU_{325}	16.4	X	250.60524	248.12255	229.89350	10.24489	0.0664088	0.23985723	2.5654733	20	10 30.5	19.6
288063 2003 UH_{327}	16.2	X	232.86894	264.75918	200.07057	13.34277	0.1252242	0.23233417	2.6205593	20	9 7.7	20.2
288064 2003 UD_{343}	17.4	X	340.01671	160.27636	149.66841	1.60334	0.0580471	0.28266546	2.2994336	20	7 29.0	19.8
288065 2003 UE_{343}	17.3	X	82.41597	179.26734	297.18525	3.79241	0.1431509	0.26714729	2.3876401	20	4 9.3	20.2
288066 2003 UX_{349}	17.3	X	199.21154	24.05596	61.71730	4.23111	0.1334897	0.27876907	2.3208104	20	7 12.5	20.6
288067 2003 UX_{350}	16.2	X	198.32446	213.91263	152.14211	4.89530	0.1212770	0.20936565	2.8088751	20	4 1.4	20.6
288068 2003 UH_{357}	16.9	X	64.19090	26.78661	20.00244	1.87110	0.1828479	0.19080201	2.9882304	20	—	—
288069 2003 UQ_{358}	16.8	X	214.72649	35.19538	41.58719	1.57491	0.0486160	0.21998008	2.7177770	20	7 22.1	20.5
288070 2003 UO_{359}	17.1	X	48.67983	242.76068	181.21244	3.00432	0.1508978	0.19035545	2.9929021	20	—	—
288071 2003 UW_{380}	17.4	X	147.30312	154.58680	151.95669	3.29688	0.1090526	0.25181612	2.4835926	20	—	—
288072 2003 UJ_{398}	16.2	X	60.42517	282.65829	162.52740	13.53251	0.1673755	0.19348425	2.9605494	20	2 5.8	19.8
288073 2003 UZ_{404}	17.4	X	76.84489	219.01892	146.25428	3.77717	0.0673906	0.24811122	2.5082555	20	—	—
288074 2003 UU_{407}	17.4	X	310.73753	282.17301	69.51555	7.25402	0.1380756	0.28418758	2.2912157	20	8 6.3	19.5
288075 2003 UY_{412}	16.0	X	262.76692	262.88604	223.54201	21.27233	0.0290063	0.23453333	2.6041521	20	12 1.6	19.5
288076 2003 US_{414}	17.1	X	274.50384	38.14719	29.85098	4.51807	0.0741212	0.22619885	2.6677336	20	9 25.3	20.5
288077 2003 UZ_{414}	16.6	X	267.10688	158.93521	63.73422	6.02081	0.0997013	0.25647241	2.4534410	20	—	—
288078 2003 VG_{2}	16.7	X	321.18589	47.37074	326.15037	8.61984	0.2260335	0.28742769	2.2739643	20	9 25.6	18.1
288079 2003 VV_{5}	16.8	X	295.46374	339.46392	61.16793	3.77949	0.1109596	0.22610903	2.6684400	20	9 15.5	19.9
288080 2003 VR_{6}	17.7	X	182.47717	61.84381	18.79597	1.44723	0.1599156	0.27165796	2.3611365	20	6 16.7	21.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288081 2003 VJ_7	16.2	X	344.40037	330.87283	39.56394	2.02635	0.1736543	0.17095986	3.2151898	20	10 15.2	19.8
288082 2003 VN_9	16.5	X	9.17247	318.67894	65.37849	5.38432	0.2843856	0.23657846	2.5891224	20	—	—
288083 2003 VS_9	17.2	X	330.49801	321.05676	34.45693	6.55810	0.1868436	0.28632784	2.2797838	20	9 26.8	18.7
288084 2003 VX_{10}	15.8	X	326.60245	237.44650	56.24038	6.72041	0.0145622	0.21374929	2.7703390	20	6 12.6	19.4
288085 2003 VN_{11}	16.1	X	206.70461	238.86628	231.34500	9.44750	0.2104512	0.21825870	2.7320481	20	8 8.1	20.9
288086 2003 WT_2	17.1	X	174.56362	285.59542	147.56092	2.99621	0.1521560	0.26960870	2.3730858	20	5 30.8	20.9
288087 2003 WH_5	16.3	X	190.40012	132.86626	40.06360	13.78354	0.0964719	0.22880245	2.6474571	20	10 24.2	20.2
288088 2003 WB_6	16.4	X	279.57857	9.80302	60.81957	19.57553	0.1927015	0.22603160	2.6690493	20	9 29.7	20.0
288089 2003 WP_6	17.0	X	40.69959	83.88687	245.34768	6.54419	0.1926298	0.29448306	2.2374972	20	12 22.2	20.0
288090 2003 WE_7	14.6	X	8.48116	256.04935	81.19056	26.62076	0.2889936	0.17564838	3.1577176	20	11 11.8	18.4
288091 2003 WW_8	15.2	X	332.19490	13.08087	26.97059	13.81210	0.1495240	0.17314587	3.1880708	20	10 30.1	18.8
288092 2003 WJ_9	16.7	X	1.07338	107.81875	269.85106	8.78199	0.1726368	0.23670875	2.5881722	20	12 14.1	19.5
288093 2003 WK_{13}	17.0	X	214.06648	196.32782	250.50446	3.77989	0.1039797	0.27872078	2.3210785	20	7 31.6	20.1
288094 2003 WT_{13}	16.1	X	301.01572	327.74299	40.19777	7.10652	0.0706605	0.22263497	2.6961277	20	8 15.3	19.5
288095 2003 WD_{18}	13.4	X	175.78618	37.34911	345.69561	10.64442	0.0375395	0.08375159	5.1737729	20	4 1.5	20.4
288096 2003 WD_{19}	17.2	X	261.93447	147.83923	278.98319	7.28435	0.1063284	0.28309478	2.2971083	20	9 3.2	20.0
288097 2003 WE_{19}	15.8	X	356.12904	93.62836	261.67345	13.56484	0.1568041	0.23014004	2.6371890	20	10 27.3	18.9
288098 2003 WR_{23}	17.4	X	156.17916	357.51671	115.00142	2.15860	0.1352530	0.27131475	2.3631273	20	7 2.7	20.8
288099 2003 WE_{25}	17.2	X	149.14810	262.23227	149.58955	3.14621	0.1328539	0.26117650	2.4238923	20	4 6.9	20.7
288100 2003 WJ_{25}	16.2	X	279.63310	353.82893	90.78092	17.90673	0.1544679	0.22738100	2.6584792	20	10 23.1	19.7
288101 2003 WS_{26}	16.0	X	5.35520	290.86091	78.57129	30.10384	0.3274097	0.23283686	2.6167861	20	12 31.4	19.1
288102 2003 WW_{33}	15.6	X	207.41109	229.45832	239.79367	13.43779	0.0086333	0.22394506	2.6856024	20	8 22.6	19.6
288103 2003 WY_{34}	16.9	X	303.98377	121.00299	269.15691	4.24288	0.0817291	0.22492157	2.6778237	20	9 13.1	20.2
288104 2003 WK_{38}	16.4	X	34.12503	61.72118	305.89955	5.79395	0.1529099	0.23699743	2.5860701	20	—	—
288105 2003 WG_{40}	16.9	X	128.63377	126.83439	24.95532	7.59189	0.1065449	0.27412689	2.3469381	20	7 27.3	20.3
288106 2003 WP_{46}	16.9	X	37.91073	313.20392	34.74005	3.95573	0.2056520	0.23822843	2.5771537	20	12 31.8	20.5
288107 2003 WS_{49}	17.2	X	192.46350	82.22179	3.26131	7.08818	0.1610096	0.27424802	2.3462469	20	7 4.0	20.9
288108 2003 WB_{50}	16.8	X	65.05213	50.27856	268.32251	10.06641	0.1391346	0.23686752	2.5870156	20	12 16.4	20.6
288109 2003 WG_{50}	16.5	X	51.34816	92.46982	254.86674	11.27940	0.1901659	0.23958725	2.5674003	20	—	—
288110 2003 WT_{56}	15.8	X	258.48156	103.56280	256.02956	21.07800	0.2397766	0.27340613	2.3510610	20	5 7.5	19.6
288111 2003 WX_{58}	17.4	X	221.22157	138.02916	233.95746	5.73806	0.1403092	0.26950583	2.3736896	20	4 25.9	20.9
288112 2003 WA_{60}	17.5	X	181.60943	11.72983	20.83429	1.70546	0.2009162	0.26609056	2.3939573	20	4 15.1	21.4
288113 2003 WC_{62}	16.2	X	223.27940	67.68704	64.19919	15.48491	0.0660254	0.22682992	2.6627833	20	10 18.4	20.1
288114 2003 WP_{62}	17.5	X	219.59370	150.44514	185.63091	1.95813	0.1956453	0.26480676	2.4016885	20	3 8.2	21.4
288115 2003 WY_{62}	17.2	X	334.91593	127.47808	269.00944	3.37646	0.2268133	0.23188218	2.6239636	20	11 24.0	19.3
288116 2003 WP_{65}	17.0	X	6.97156	273.22705	89.07625	2.28505	0.2118162	0.23311134	2.6147316	20	12 7.9	19.7
288117 2003 WD_{67}	16.9	X	352.27684	125.36987	274.11858	3.46559	0.1614746	0.23440428	2.6051078	20	12 26.8	19.8
288118 2003 WE_{67}	16.2	X	19.86920	76.33254	259.29082	9.22549	0.1788384	0.23044455	2.6348654	20	11 15.1	19.4
288119 2003 WR_{67}	16.7	X	325.31975	110.61562	252.45756	4.25391	0.0831557	0.22408746	2.6844646	20	9 9.8	19.8
288120 2003 WL_{68}	17.3	X	278.07432	317.53852	58.60354	5.25762	0.1632976	0.27860203	2.3217379	20	7 8.8	20.0
288121 2003 WS_{68}	17.1	X	89.76589	261.42103	231.15564	3.27389	0.0569025	0.26385521	2.4074592	20	4 30.9	20.2
288122 2003 WY_{68}	17.7	X	159.83269	206.54261	203.30254	0.90920	0.1620137	0.26353783	2.4093917	20	4 16.0	21.4
288123 2003 WT_{71}	17.2	X	283.19498	196.34018	247.93275	5.21399	0.0406471	0.29069555	2.2568903	20	11 16.4	19.7
288124 2003 WX_{71}	16.2	X	43.88333	43.08482	294.40694	12.77647	0.1965559	0.23638964	2.5905010	20	12 24.3	19.9
288125 2003 WT_{76}	17.2	X	255.23430	184.78656	278.62533	6.08383	0.1553644	0.28718222	2.2752599	20	10 9.7	19.8
288126 2003 WV_{76}	15.7	X	358.74448	194.95932	256.23180	8.92206	0.1284757	0.18403126	3.0610821	20	—	—
288127 2003 WH_{77}	16.5	X	249.07915	110.94686	280.91988	1.79487	0.1798142	0.21640328	2.7476420	20	6 17.6	20.7
288128 2003 WN_{78}	17.0	X	212.83005	90.02393	14.40487	5.63483	0.0667060	0.28097748	2.3086338	20	8 31.8	19.9
288129 2003 WO_{79}	16.9	X	293.27079	155.87922	273.27128	3.32008	0.2150362	0.22887678	2.6468839	20	10 4.2	19.6
288130 2003 WM_{80}	17.2	X	30.21117	41.48286	11.51838	2.74989	0.1749662	0.24318610	2.5420079	20	—	—
288131 2003 WY_{81}	17.2	X	352.77113	123.43425	278.81268	6.42360	0.1577596	0.29702607	2.2247079	20	—	—
288132 2003 WO_{84}	17.9	X	345.74180	154.12914	287.54157	6.63810	0.1770284	0.35833334	1.9631097	20	—	—
288133 2003 WA_{85}	16.7	X	243.38623	147.20801	47.18356	9.75021	0.0669522	0.24275727	2.5450006	20	—	—
288134 2003 WJ_{92}	16.7	X	153.31403	277.79598	115.70137	4.28054	0.2078130	0.26087384	2.4257667	20	3 25.4	20.5
288135 2003 WZ_{93}	17.5	X	232.40712	168.98955	292.99352	4.20939	0.1807636	0.28303530	2.2974301	20	9 3.1	20.6
288136 2003 WT_{95}	18.0	X	70.98066	231.38575	147.08324	0.67407	0.1695950	0.30531222	2.1842714	20	—	—
288137 2003 WY_{95}	17.9	X	12.94791	275.74861	125.18827	1.11128	0.1366521	0.29850767	2.2173405	20	—	—
288138 2003 WM_{96}	17.7	X	26.04547	143.85840	221.23919	3.83964	0.2852941	0.23838549	2.5760216	20	—	—
288139 2003 WH_{99}	16.9	X	70.72898	164.03179	346.00626	2.06307	0.1564842	0.26219302	2.4176233	20	5 13.9	19.6
288140 2003 WD_{101}	16.8	X	314.07129	42.40156	256.09917	6.55195	0.1134170	0.27480706	2.3430639	20	5 18.9	19.3
288141 2003 WQ_{101}	16.2	X	294.10685	334.72831	135.03796	14.83117	0.2058659	0.23453093	2.6041698	20	12 12.9	18.9
288142 2003 WK_{102}	17.2	X	286.57415	129.20848	218.76255	3.94944	0.1596592	0.27790597	2.3256131	20	6 9.9	20.0
288143 2003 WU_{102}	16.2	X	39.18636	39.73371	351.60837	14.56922	0.1088354	0.24178291	2.5518334	20	—	—
288144 2003 WE_{103}	17.4	X	308.83426	298.49615	75.15655	5.56377	0.1696143	0.28344315	2.2952257	20	9 5.1	19.3
288145 2003 WQ_{103}	16.4	X	336.29183	162.78569	241.84284	2.33977	0.2555016	0.23283568	2.6167950	20	12 14.1	18.4
288146 2003 WN_{104}	15.9	X	261.58178	219.92800	239.65629	12.49020	0.2198076	0.22600922	2.6692256	20	9 19.9	19.6
288147 2003 WR_{108}	16.6	X	51.28188	28.62703	307.51579	4.76609	0.2229254	0.23779180	2.5803075	20	—	—
288148 2003 WT_{113}	17.3	X	309.41408	305.44781	17.37071	6.19869	0.1503084	0.27683883	2.3315857	20	6 11.1	19.6
288149 2003 WA_{117}	17.0	X	354.58182	41.60924	13.98292	3.00994	0.2143044	0.23675823	2.5878116	20	—	—
288150 2003 WQ_{118}	15.8	X	291.41978	149.34570	286.13028	8.19990	0.1490591	0.22819197	2.6521769	20	10 16.7	19.0
288151 2003 WM_{123}	16.6	X	6.80891	125.16247	284.32248	3.69840	0.1947727	0.23761751	2.5815691	20	—	—
288152 2003 WS_{124}	16.1	X	0.25540	120.96254	334.33102	3.33079	0.1478678	0.24101681	2.5572381	20	—	—
288153 2003 WD_{125}	16.5	X	343.36413	164.20749	272.38058	12.09514	0.2619228	0.23591229	2.5939942	20	—	—
288154 2003 WX_{127}	15.9	X	23.19151	57.28407	336.50980	12.43417	0.1781886	0.23689956	2.5867823	20	—	—
288155 2003 WJ_{128}	16.5	X	168.43001	53.06879	250.92931	5.78576	0.1395598	0.25268808	2.4778759	20	—	—
288156 2003 WM_{128}	16.6	X	325.56643	1.86062	335.88991	4.66760	0.1566993	0.22357492	2.6885657	20	8 2.8	19.2
288157 2003 WZ_{128}	17.6	X	179.75372	114.73939	12.66100	2.12598	0.1749264	0.27807568	2.3246668	20	8 15.8	21.2
288158 2003 WD_{130}	16.1	X	269.93089	357.94388	68.28502	10.46848	0.0379204	0.22411641	2.6842334	20	9 26.2	19.8
288159 2003 WK_{134}	16.8	X	320.11058	148.62451	234.46021	6.57993	0.0962412	0.28587334	2.2821995	20	10 13.6	19.0
288160 2003 WQ_{135}	16.7	X	10.15353	217.48544	209.25997	0.95590	0.2150703	0.24040037	2.5616077	20	—	—

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288161 2003 WE_{137}	16.4	X	328.82999	172.33317	238.03478	2.84585	0.2446807	0.23179381	2.6246305	20	12 2.3	18.3
288162 2003 WV_{142}	16.1	X	219.51443	0.92955	60.72780	10.91795	0.0930194	0.21500723	2.7595229	20	7 2.9	20.2
288163 2003 WN_{149}	16.2	X	29.63962	247.95618	125.71129	15.89621	0.1525642	0.23789920	2.5795309	20	—	—
288164 2003 WY_{149}	17.9	X	235.50242	305.93639	130.06353	3.56450	0.2004412	0.27896753	2.3197095	20	7 31.8	21.0
288165 2003 WG_{150}	16.1	X	227.23634	267.53253	120.69455	6.81156	0.0641810	0.21162573	2.7888409	20	6 1.9	20.1
288166 2003 WO_{153}	15.5	X	24.36446	242.46502	155.47932	17.64127	0.2242812	0.18091155	3.0961727	20	—	—
288167 2003 WV_{154}	17.4	X	6.44129	283.20498	109.46374	5.79030	0.2021074	0.29622699	2.2287070	20	—	—
288168 2003 WR_{155}	16.5	X	121.92979	19.24210	90.38518	13.48378	0.1421863	0.26493838	2.4008930	20	5 25.8	20.0
288169 2003 WM_{156}	16.0	X	288.15890	235.48517	175.88142	12.62084	0.1750476	0.22428495	2.6828885	20	9 5.4	19.2
288170 2003 WP_{161}	16.7	X	356.76809	257.00462	117.46226	8.22910	0.1967955	0.23318290	2.6141967	20	12 6.1	19.5
288171 2003 WA_{164}	16.4	X	286.11098	287.52633	70.47167	7.67359	0.1043506	0.21655434	2.7463641	20	6 30.9	19.9
288172 2003 WY_{164}	17.1	X	352.69896	187.82807	95.58206	1.78998	0.0374605	0.21381807	2.7697450	20	7 5.6	20.6
288173 2003 WE_{165}	16.3	X	145.09148	268.66802	81.95580	3.46251	0.0937167	0.19211520	2.9745976	20	1 20.5	20.8
288174 2003 WQ_{168}	17.2	X	311.60150	220.60089	144.25439	6.19374	0.1994024	0.28468861	2.2885267	20	8 19.9	18.4
288175 2003 WT_{179}	17.1	X	187.37906	119.23063	229.83339	5.40649	0.1267566	0.25993176	2.4316244	20	2 22.2	20.8
288176 2003 WG_{180}	16.7	X	276.59252	188.29614	71.12821	12.50173	0.2298041	0.25848978	2.4406591	20	1 25.3	20.7
288177 2003 WO_{189}	15.8	X	311.74409	290.49103	110.38130	22.30295	0.1125914	0.22898687	2.6460355	20	10 24.5	19.4
288178 2003 WP_{189}	16.2	X	51.35193	37.44399	323.19730	16.30687	0.1735767	0.24211701	2.5494853	20	—	—
288179 2003 WR_{190}	16.3	X	307.43395	241.25709	190.39876	17.14175	0.2625801	0.22976378	2.6400673	20	11 8.6	18.5
288180 2003 WL_{192}	16.7	X	215.23944	46.90011	4.47423	4.43512	0.0621089	0.21331478	2.7740998	20	6 16.8	20.8
288181 2003 WB_{193}	16.4	X	277.53691	184.71541	263.59632	8.71898	0.1166993	0.22797294	2.6538753	20	10 16.7	19.9
288182 2003 WS_{193}	17.5	X	239.80806	276.72515	174.37885	3.95542	0.1491651	0.28192832	2.3034400	20	9 3.1	20.4
288183 2003 WW_{193}	17.2	X	350.01698	15.71655	359.21571	0.94802	0.0989790	0.22981788	2.6396530	20	11 10.4	20.1
288184 2003 XO	17.1	X	172.43885	275.76418	81.83779	23.78110	0.1452193	0.37735601	1.8965685	20	2 16.2	20.0
288185 2003 XA_{3}	16.6	X	335.94820	191.18841	217.29244	8.87766	0.1594222	0.23249223	2.6193714	20	12 9.1	19.2
288186 2003 XC_{5}	16.1	X	329.78424	181.39418	247.63168	5.64603	0.3212501	0.23193717	2.6235488	20	—	—
288187 2003 XY_{6}	15.7	X	327.89881	98.50432	20.72147	14.52164	0.1544405	0.23643282	2.5901856	20	—	—
288188 2003 XX_{10}	15.5	X	322.00872	57.83233	29.72614	31.22211	0.2612018	0.23203230	2.6228317	20	—	—
288189 2003 XK_{12}	16.1	X	77.67020	66.08719	3.58589	11.29026	0.2357032	0.19066479	2.9896640	20	2 27.9	19.9
288190 2003 XA_{13}	17.6	X	270.56628	108.83086	301.74122	6.99549	0.2215716	0.28222728	2.3018131	20	8 6.4	20.3
288191 2003 XB_{13}	16.0	X	19.77419	328.74356	282.17249	4.66979	0.1388868	0.21243723	2.7817342	20	7 10.0	18.8
288192 2003 XA_{14}	17.1	X	135.71533	303.89219	143.88178	3.63117	0.1792064	0.26325414	2.4111223	20	5 13.9	20.7
288193 2003 XZ_{17}	16.0	X	313.01746	99.46717	316.00120	11.87345	0.1850851	0.22696589	2.6617197	20	10 23.5	18.9
288194 2003 XY_{20}	16.0	X	192.74289	111.72668	69.53641	22.88913	0.0673788	0.22850696	2.6497390	20	11 12.5	19.9
288195 2003 XF_{31}	17.7	X	273.50127	237.47558	247.43120	5.17531	0.1048733	0.29239748	2.2481242	20	12 24.7	19.8
288196 2003 XD_{34}	17.8	X	267.22156	330.78046	121.68440	2.23978	0.0609913	0.28719773	2.2751780	20	11 1.6	20.2
288197 2003 XX_{40}	16.3	X	330.46480	306.30154	56.53270	7.69355	0.0274372	0.22331478	2.6906533	20	9 25.2	19.8
288198 2003 YX_{2}	16.3	X	244.25715	142.74749	226.45966	3.96055	0.1402897	0.21320281	2.7750710	20	5 18.9	20.5
288199 2003 YL_{3}	16.3	X	206.00035	79.16853	31.18427	15.59817	0.2447418	0.21419195	2.7665208	20	8 16.2	21.3
288200 2003 YZ_{3}	15.1	X	337.70229	140.39830	243.88921	26.83445	0.1987350	0.17045039	3.2215934	20	10 15.8	19.0
288201 2003 YK_{9}	15.6	X	357.78249	323.84320	104.77661	22.94025	0.0980981	0.23253705	2.6190349	20	—	—
288202 2003 YS_{10}	16.1	X	201.10887	150.63053	332.53164	7.38118	0.1678961	0.21721288	2.7408105	20	8 25.5	20.5
288203 2003 YF_{11}	15.5	X	109.39203	0.88330	353.54258	6.62777	0.1914261	0.24536259	2.5269529	20	—	—
288204 2003 YM_{12}	15.2	X	223.82861	90.33682	337.92371	9.58324	0.1623704	0.15330531	3.4575191	20	7 8.9	20.8
288205 2003 YS_{13}	15.9	X	248.16807	142.79529	306.43998	13.03261	0.1250706	0.21900600	2.7258296	20	9 2.3	19.8
288206 2003 YN_{19}	15.9	X	312.87340	321.70689	80.26934	14.24416	0.1662266	0.22771255	2.6558981	20	10 19.9	18.8
288207 2003 YK_{25}	16.7	X	286.80487	9.05058	66.46196	5.78026	0.2745752	0.22655601	2.6649291	20	9 25.8	19.6
288208 2003 YN_{25}	15.9	X	280.53652	176.43250	286.58902	12.72813	0.1348928	0.22774012	2.6556837	20	11 7.9	19.2
288209 2003 YM_{29}	17.0	X	304.21872	150.03116	276.73164	7.43613	0.1303120	0.28612161	2.2808792	20	11 19.8	18.9
288210 2003 YF_{30}	17.2	X	13.84708	24.57323	56.63009	4.05492	0.1167948	0.24255030	2.5464482	20	—	—
288211 2003 YR_{30}	17.0	X	97.81641	44.38278	61.97529	6.37225	0.1542979	0.25878632	2.4387943	20	4 23.2	20.1
288212 2003 YL_{31}	17.2	X	304.58245	301.93310	55.07458	3.18469	0.2226919	0.27989360	2.3145900	20	7 16.2	19.1
288213 2003 YE_{34}	16.4	X	295.93247	270.79188	159.04853	6.55345	0.1685300	0.22831659	2.6512117	20	10 21.2	19.1
288214 2003 YJ_{34}	16.4	X	359.61576	148.91463	217.37565	11.59530	0.2075265	0.23113597	2.6296081	20	11 29.9	19.2
288215 2003 YV_{37}	15.4	X	108.93485	129.54556	306.82779	9.28435	0.0873267	0.19361333	2.9592334	20	3 17.5	19.8
288216 2003 YJ_{41}	17.0	X	268.20461	279.42590	104.95563	6.82480	0.1226557	0.27267824	2.3552430	20	7 12.3	19.6
288217 2003 YK_{41}	16.3	X	77.16009	211.66504	106.91089	3.50528	0.0622207	0.22805337	2.6532513	20	12 19.4	19.9
288218 2003 YC_{42}	17.5	X	171.83798	63.23222	98.55769	4.77368	0.1831806	0.27514104	2.3411674	20	9 23.3	21.2
288219 2003 YP_{44}	16.0	X	344.63998	115.22154	295.26134	16.00193	0.2247021	0.17113449	3.2130022	20	12 11.2	19.5
288220 2003 YX_{44}	16.8	X	145.69731	308.19348	119.69858	6.75217	0.0918822	0.26391081	2.4071210	20	4 22.7	20.2
288221 2003 YK_{45}	15.7	X	114.55188	277.34772	107.07606	5.30635	0.1569403	0.19326900	2.9627471	20	2 4.3	19.9
288222 2003 YK_{55}	16.2	X	5.01065	307.83137	91.79149	6.60961	0.0568281	0.23533796	2.5982129	20	—	—
288223 2003 YW_{58}	16.7	X	151.11983	14.40909	82.70078	9.37365	0.1409879	0.26700212	2.3885055	20	6 7.2	20.3
288224 2003 YV_{59}	17.7	X	156.60898	32.51728	39.61972	1.53910	0.1921505	0.26502167	2.4003899	20	5 12.9	21.4
288225 2003 YA_{63}	15.9	X	25.46354	114.43124	292.04922	3.31775	0.1924225	0.23697330	2.5862457	20	—	—
288226 2003 YL_{67}	16.4	X	267.66505	342.61940	82.61081	5.44897	0.1523269	0.22355184	2.6887508	20	8 31.5	19.9
288227 2003 YA_{68}	16.7	X	69.13482	232.20412	104.66980	2.18130	0.0481418	0.23566095	2.5958383	20	—	—
288228 2003 YR_{69}	17.6	X	207.32662	260.33667	199.89872	3.77710	0.1459306	0.27792686	2.3254965	20	8 7.2	21.1
288229 2003 YV_{69}	16.9	X	29.26770	205.78069	151.20582	6.07531	0.2808910	0.23747940	2.5825699	20	—	—
288230 2003 YH_{71}	17.4	X	239.17799	68.84451	319.78243	2.17837	0.1772067	0.27313043	2.3526428	20	6 3.2	20.8
288231 2003 YR_{71}	15.7	X	276.14592	249.04605	272.01452	20.87984	0.1020077	0.23715409	2.5849311	20	—	—
288232 2003 YY_{71}	16.3	X	313.25909	229.16286	267.79037	12.83940	0.1117212	0.23922717	2.5699759	20	—	—
288233 2003 YD_{72}	16.4	X	34.35719	22.46017	321.72528	2.26935	0.1256375	0.23142977	2.6273821	20	12 9.2	19.7
288234 2003 YJ_{78}	15.7	X	56.64657	108.97648	294.10015	9.42247	0.1796171	0.18340369	3.0680611	20	—	—
288235 2003 YJ_{79}	16.1	X	304.31143	161.74818	293.57191	9.38178	0.0834643	0.22975678	2.6401209	20	12 15.2	19.3
288236 2003 YS_{79}	17.0	X	301.52596	26.56832	72.88869	3.89865	0.1624887	0.22987448	2.6392197	20	12 12.2	19.5
288237 2003 YN_{82}	17.0	X	238.65212	8.59167	73.36958	7.29334	0.1250609	0.27811740	2.3244343	20	8 27.1	20.1
288238 2003 YK_{89}	16.1	X	9.44724	99.08809	303.83634	15.96824	0.1877051	0.23231090	2.6207343	20	—	—
288239 2003 YQ_{91}	15.6	X	235.23355	164.96705	297.68047	13.23202	0.0748038	0.21593553	2.7516085	20	9 8.7	19.7
288240 2003 YD_{94}	15.2	X	23.39782	157.94845	301.76923	9.89951	0.1186445	0.18176473	3.0864765	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288241 2003 YL_{94}	15.3	X	114.03322	253.76634	279.77091	13.85410	0.0872789	0.20606890	2.8387539	20	7 27.7	19.6
288242 2003 YT_{98}	17.3	X	194.47096	282.22677	138.21116	2.71722	0.2015216	0.26922311	2.3753512	20	6 1.2	21.1
288243 2003 YP_{100}	17.5	X	209.16127	206.26367	193.03841	2.13776	0.2028796	0.26945979	2.3739600	20	5 17.9	21.4
288244 2003 YY_{100}	17.0	X	138.19280	330.17912	120.81091	3.40502	0.1742308	0.26202077	2.4186827	20	5 19.9	20.8
288245 2003 YW_{102}	17.1	X	334.97821	146.40651	263.11593	6.98716	0.2141386	0.28967235	2.2622018	20	—	—
288246 2003 YK_{105}	16.8	X	141.51905	108.65260	72.05702	10.48414	0.2087357	0.27457599	2.3443782	20	9 23.8	20.8
288247 2003 YD_{112}	16.8	X	24.73858	336.67006	23.04196	5.66565	0.2991169	0.23533255	2.5982527	20	—	—
288248 2003 YO_{113}	16.8	X	299.07409	60.38528	55.28351	3.06331	0.1056697	0.23202756	2.6228674	20	—	—
288249 2003 YP_{113}	16.3	X	41.09475	342.66389	27.58654	3.46052	0.3099079	0.23705999	2.5856151	20	—	—
288250 2003 YY_{118}	16.2	X	86.70001	307.22837	63.89768	6.46209	0.3026746	0.24473780	2.5312518	20	—	—
288251 2003 YJ_{119}	15.8	X	109.53068	356.03544	49.87737	6.43532	0.1945081	0.19287121	2.9668194	20	3 2.8	20.2
288252 2003 YB_{121}	16.3	X	335.85041	96.02303	326.25352	11.55922	0.1541951	0.23048516	2.6345559	20	12 28.3	19.2
288253 2003 YX_{122}	17.1	X	147.13545	13.34964	74.18102	3.68905	0.1492316	0.26263395	2.4149166	20	5 21.9	20.6
288254 2003 YV_{124}	17.4	X	197.91340	239.09975	86.26866	24.85272	0.0858964	0.37210838	1.9143577	20	1 20.1	19.9
288255 2003 YU_{126}	16.4	X	355.22072	306.54685	64.79339	11.60102	0.1715743	0.28795196	2.2712034	20	12 11.2	18.5
288256 2003 YN_{127}	15.4	X	336.81703	188.19836	311.72914	12.56159	0.0940409	0.18200073	3.0838077	20	—	—
288257 2003 YC_{129}	16.1	X	313.61387	74.86097	326.53428	11.94459	0.2757866	0.22454849	2.6807889	20	9 24.3	18.4
288258 2003 YA_{136}	16.6	X	35.06201	347.71096	60.00447	7.16038	0.1229116	0.23849259	2.5752504	20	—	—
288259 2003 YL_{137}	16.2	X	298.39238	298.20557	91.04342	7.56378	0.0568257	0.21734788	2.7396754	20	9 11.3	19.7
288260 2003 YF_{138}	16.8	X	169.48903	353.54810	17.56404	1.44803	0.1946059	0.25621741	2.4550685	20	3 9.9	20.8
288261 2003 YC_{142}	16.2	X	64.04202	104.89300	24.11893	7.93652	0.1784747	0.25420112	2.4680337	20	4 7.6	18.7
288262 2003 YZ_{142}	15.7	X	79.71491	62.64205	35.16247	10.34813	0.0404861	0.19219754	2.9737481	20	3 10.3	19.9
288263 2003 YG_{145}	15.8	X	232.35224	113.20647	339.84508	13.69860	0.0958768	0.21567813	2.7537973	20	8 28.5	19.8
288264 2003 YL_{145}	15.5	X	354.24871	22.89442	92.50888	18.69677	0.1730770	0.17840176	3.1251434	20	—	—
288265 2003 YR_{150}	15.8	X	71.20611	86.70240	15.18462	10.52166	0.0549075	0.18966756	3.0001342	20	3 5.2	19.8
288266 2003 YH_{154}	15.9	X	347.87112	70.36644	353.54750	12.52366	0.1538614	0.23145714	2.6271749	20	—	—
288267 2003 YP_{155}	15.5	X	349.20698	352.64230	96.72891	15.01516	0.1792158	0.18080124	3.0974320	20	—	—
288268 2003 YH_{157}	16.7	X	149.23193	319.57096	155.24481	8.38372	0.1732246	0.20871343	2.8147238	20	6 28.3	21.4
288269 2003 YC_{158}	15.3	X	344.19423	144.52781	285.43858	16.55958	0.1804151	0.23896078	2.5718855	20	—	—
288270 2003 YD_{161}	17.2	X	164.29220	335.56049	200.19632	6.87944	0.0351337	0.28280528	2.2986757	20	10 8.5	19.9
288271 2003 YD_{163}	15.8	X	24.64359	72.82755	316.39417	12.51330	0.2032120	0.23535063	2.5981196	20	—	—
288272 2003 YN_{163}	17.8	X	202.92295	118.94119	341.15636	1.51497	0.1075384	0.27599418	2.3363403	20	8 6.9	21.1
288273 2003 YV_{163}	16.6	X	41.86735	85.99681	264.32555	8.14290	0.2224296	0.23630457	2.5911227	20	—	—
288274 2003 YH_{167}	16.4	X	318.32241	98.32449	293.12573	6.32481	0.0213916	0.21895019	2.7262928	20	10 8.1	20.0
288275 2003 YS_{169}	15.6	X	14.75511	141.21103	302.60457	8.45560	0.1037426	0.17909048	3.1171262	20	—	—
288276 2003 YC_{172}	15.6	X	20.49121	42.36792	83.19144	10.42673	0.1056762	0.18605835	3.0388081	20	1 23.1	19.3
288277 2003 YD_{172}	16.3	X	223.64653	70.79081	24.13070	3.86382	0.0953287	0.21585432	2.7522986	20	8 21.5	20.2
288278 2003 YJ_{173}	16.7	X	154.40102	88.69747	34.81406	4.24665	0.0494519	0.21216240	2.7841359	20	7 10.7	20.7
288279 2004 AX	16.1	X	241.62234	194.39830	212.15963	10.22695	0.3094262	0.21624386	2.7489923	20	6 15.8	20.9
288280 2004 AA_{2}	16.5	X	159.01504	298.02475	107.53105	15.22931	0.0705575	0.25698059	2.4502054	20	4 12.1	20.3
288281 2004 AE_{2}	17.6	X	301.79659	0.56309	97.77563	6.26992	0.1105493	0.28879723	2.2667695	20	—	—
288282 2004 AH_{4}	12.6	X	319.70181	351.25089	300.49298	35.29946	0.1743440	0.08156764	5.2657162	20	5 8.3	19.5
288283 2004 AF_{10}	15.5	X	11.44889	213.05870	118.83968	32.02918	0.0710075	0.21894579	2.7263293	20	10 26.9	19.8
288284 2004 AM_{10}	15.8	X	338.83729	131.38196	296.02970	21.36498	0.0427083	0.22923103	2.6441562	20	12 30.8	19.2
288285 2004 AZ_{11}	15.9	X	348.65322	204.92427	315.70125	4.59288	0.1045822	0.18512770	3.0489838	20	1 17.9	19.7
288286 2004 AT_{12}	15.6	X	277.67837	143.60366	103.43772	10.93050	0.0230980	0.18865900	3.0108171	20	2 13.2	19.9
288287 2004 AB_{13}	16.6	X	150.12373	38.15790	102.25927	2.80705	0.1472644	0.20867807	2.8150418	20	7 30.8	21.0
288288 2004 AO_{19}	17.0	X	165.21433	250.53517	325.85262	4.29948	0.0927989	0.22318301	2.6917122	20	11 16.9	21.2
288289 2004 AM_{20}	17.0	X	237.56584	108.57488	319.19552	3.42622	0.0488855	0.21246661	2.7814778	20	8 6.9	20.9
288290 2004 AG_{21}	16.9	X	40.19650	168.83143	103.77546	4.65112	0.2042276	0.27114881	2.3640913	20	10 6.1	19.7
288291 2004 AL_{22}	16.9	X	331.09595	96.25983	290.42096	5.04218	0.0939242	0.22261344	2.6963015	20	10 21.8	20.1
288292 2004 AF_{24}	16.4	X	26.84533	95.24210	116.09617	7.42638	0.0744197	0.25985864	2.4320805	20	5 22.2	19.1
288293 2004 AC_{25}	16.7	X	74.82304	356.85672	91.17339	2.64484	0.1532213	0.18938378	3.0031304	20	3 3.9	20.4
288294 2004 BY	16.8	X	278.58207	291.11503	143.94866	5.26898	0.1553283	0.22156514	2.7047996	20	9 28.5	20.0
288295 2004 BU_{5}	16.5	X	197.88355	118.51961	117.81728	3.12153	0.0393136	0.23230716	2.6207624	20	—	—
288296 2004 BD_{6}	17.2	X	282.60472	105.33971	296.24148	8.23318	0.1144438	0.27680677	2.3317657	20	8 28.2	19.9
288297 2004 BD_{8}	16.8	X	94.87802	329.65288	77.20745	4.38049	0.1144225	0.24730793	2.5136840	20	1 23.9	19.7
288298 2004 BE_{10}	16.2	X	35.29005	316.09967	80.34972	5.69346	0.2198960	0.23554042	2.5967237	20	—	—
288299 2004 BB_{11}	17.3	X	271.52157	102.37657	122.80783	23.70926	0.0512423	0.36250488	1.9480203	20	—	—
288300 2004 BF_{14}	15.6	X	162.01804	235.22438	253.44918	8.17395	0.1084486	0.20856723	2.8160390	20	7 24.3	20.0
288301 2004 BF_{16}	16.3	X	355.11407	77.22540	20.96219	4.83236	0.1250086	0.23497346	2.6008991	20	—	—
288302 2004 BU_{20}	16.8	X	262.91983	209.21814	343.91398	3.13786	0.1421026	0.23439832	2.6051519	20	—	—
288303 2004 BP_{21}	16.1	X	235.15221	329.95861	136.40148	12.97105	0.0997036	0.21809336	2.7334287	20	9 20.8	20.0
288304 2004 BS_{22}	16.3	X	202.91795	135.63802	319.27176	2.89333	0.0902485	0.21045263	2.7991949	20	7 27.6	20.5
288305 2004 BE_{23}	16.2	X	248.00464	357.08058	127.23971	14.59973	0.0572558	0.22283001	2.6945543	20	11 8.7	20.1
288306 2004 BZ_{25}	16.0	X	29.63278	258.86354	153.50039	16.59401	0.2388095	0.17855907	3.1233077	20	—	—
288307 2004 BY_{31}	16.1	X	161.21037	221.41120	315.97077	6.89171	0.0884981	0.21670350	2.7451038	20	9 23.0	20.3
288308 2004 BX_{32}	16.2	X	337.39921	67.35402	312.01619	11.66021	0.2790341	0.22509018	2.6764862	20	10 29.5	18.4
288309 2004 BJ_{33}	16.6	X	75.71530	358.73608	88.49993	2.64910	0.1715768	0.18901920	3.0069908	20	3 7.0	20.4
288310 2004 BX_{33}	16.7	X	315.97716	11.10189	343.85962	4.01317	0.0848122	0.21292360	2.7774964	20	8 15.5	20.0
288311 2004 BV_{34}	16.7	X	331.63562	62.34838	7.13926	1.94745	0.0550875	0.22774143	2.6556735	20	12 21.5	19.9
288312 2004 BO_{35}	16.9	X	284.36826	126.54242	113.77732	11.24393	0.0981764	0.24566157	2.5249022	20	1 23.9	20.2
288313 2004 BC_{36}	16.2	X	179.12308	275.42470	320.48789	10.49789	0.1379852	0.22645584	2.6657149	20	12 24.1	20.5
288314 2004 BS_{36}	16.8	X	92.35473	129.24835	117.40172	7.09886	0.0764998	0.27539366	2.3397355	20	10 20.3	20.0
288315 2004 BM_{37}	17.3	X	349.55960	191.08478	320.14786	5.89462	0.0215728	0.24307673	2.5427703	20	1 4.9	20.5
288316 2004 BH_{39}	12.8	X	249.78932	59.69648	291.88501	29.70575	0.0337930	0.08232356	5.2334324	20	5 14.4	20.1
288317 2004 BO_{47}	16.7	X	155.39987	355.26550	115.20091	7.80548	0.0696587	0.26594348	2.3948399	20	6 26.7	20.0
288318 2004 BF_{49}	17.6	X	258.20299	98.33831	295.11074	3.99090	0.2379036	0.27390558	2.3482021	20	6 24.1	20.8
288319 2004 BK_{51}	16.4	X	198.83702	32.33494	141.98562	5.52974	0.0456279	0.22094469	2.7098609	20	11 8.6	20.2
288320 2004 BT_{51}	16.0	X	299.08115	112.57055	308.78539	7.15288	0.2861181	0.22402217	2.6849861	20	9 19.7	18.5

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
288321	2004 BM_{53}	16.5	X	206.84423	206.61343	270.12823	2.73091	0.0544672	0.21501303	2.7594733	20	8 31.3	20.4
288322	2004 BU_{53}	17.0	X	284.50336	270.49969	114.52526	5.79228	0.1630355	0.27553632	2.3389278	20	8 1.8	19.3
288323	2004 BY_{54}	15.2	X	126.47557	55.04212	306.09750	21.50508	0.0307375	0.18072679	3.0982826	20	1 8.6	19.7
288324	2004 BS_{58}	16.9	X	6.76772	252.30440	135.66552	20.86411	0.2697036	0.34979300	1.9949345	20	—	—
288325	2004 BB_{61}	16.3	X	330.04713	216.06007	122.43666	6.86460	0.0982639	0.21305811	2.7763274	20	8 14.9	19.5
288326	2004 BF_{61}	18.2	X	283.83900	131.40965	278.06942	1.35108	0.2037460	0.27999811	2.3140140	20	8 30.8	20.2
288327	2004 BG_{62}	17.6	X	180.18597	335.77162	74.05302	2.69337	0.1833168	0.26302542	2.4125199	20	5 6.1	21.5
288328	2004 BO_{65}	16.3	X	57.09417	263.41096	1.72907	3.55408	0.0553828	0.21374096	2.7704111	20	9 14.2	20.0
288329	2004 BS_{66}	16.4	X	23.67403	32.29585	337.42366	3.02547	0.0609963	0.22734878	2.6587304	20	12 17.3	19.8
288330	2004 BL_{67}	15.8	X	255.13709	295.50525	287.62070	3.66076	0.0865058	0.17800883	3.1297406	20	—	—
288331	2004 BJ_{68}	17.5	X	9.84234	305.46775	160.96695	24.41100	0.0377885	0.35868220	1.9618366	20	—	—
288332	2004 BB_{70}	16.4	X	293.04702	114.10855	316.43650	8.30790	0.2147587	0.22448597	2.6812867	20	10 2.0	19.3
288333	2004 BG_{75}	16.3	X	329.44817	327.88626	108.71814	5.74192	0.1561356	0.22926367	2.6439052	20	—	—
288334	2004 BX_{78}	16.9	X	300.18260	63.03549	329.41130	3.88134	0.1214677	0.21783418	2.7355965	20	9 6.2	20.2
288335	2004 BH_{80}	16.6	X	353.95719	278.66173	138.46075	13.53628	0.2544232	0.23270462	2.6177774	20	—	—
288336	2004 BT_{80}	16.7	X	310.47124	233.95295	316.02721	5.32163	0.0859434	0.24165211	2.5527541	20	—	—
288337	2004 BG_{88}	16.0	X	150.48753	283.96800	268.57000	6.76637	0.1441177	0.21476349	2.7616105	20	9 30.3	20.5
288338	2004 BW_{89}	15.4	X	97.15325	103.46196	291.20825	14.95342	0.0549119	0.18168160	3.0874179	20	1 13.7	19.5
288339	2004 BD_{95}	15.7	X	335.45849	210.37495	284.09218	12.90967	0.0450011	0.23472542	2.6027311	20	—	—
288340	2004 BZ_{97}	16.4	X	146.33785	213.04011	343.22163	7.37143	0.1530960	0.21037101	2.7999189	20	10 2.0	21.0
288341	2004 BX_{99}	16.4	X	176.00016	237.10114	0.75910	14.82731	0.0459984	0.22244299	2.6976787	20	12 30.7	20.5
288342	2004 BT_{103}	15.9	X	343.27191	299.04780	127.40115	22.49565	0.0469821	0.22658188	2.6647262	20	—	—
288343	2004 BG_{114}	15.6	X	236.90976	162.95047	359.98773	13.88055	0.1462296	0.22266529	2.6958829	20	11 20.3	19.6
288344	2004 BH_{117}	16.0	X	340.34760	340.88547	113.41063	22.43383	0.0701380	0.23169096	2.6254071	20	—	—
288345	2004 BA_{120}	16.6	X	308.07462	67.72465	4.24512	10.39922	0.2437767	0.22642921	2.6659239	20	11 4.4	19.0
288346	2004 BO_{124}	15.7	X	316.27720	311.05224	200.10663	7.90632	0.1671410	0.17648549	3.1477245	20	—	—
288347	2004 BS_{129}	18.1	X	150.02784	295.27936	162.49692	1.76825	0.1490021	0.26312334	2.4119213	20	6 7.4	21.8
288348	2004 BD_{132}	18.0	X	225.66783	164.51991	258.76793	2.08119	0.1661307	0.27115090	2.3640792	20	7 6.8	21.5
288349	2004 BM_{132}	15.7	X	277.92862	58.64856	129.80605	3.94475	0.1174106	0.17548712	3.1596518	20	—	—
288350	2004 BQ_{136}	16.6	X	16.08712	243.64100	101.70828	3.42984	0.0957421	0.22192645	2.7018631	20	11 10.0	19.9
288351	2004 BO_{145}	16.8	X	163.08347	127.29626	136.24620	3.65564	0.0596175	0.23009273	2.6375505	20	—	—
288352	2004 BW_{145}	16.5	X	310.56029	114.63463	295.63844	15.94761	0.1776453	0.22511355	2.6763010	20	10 7.0	19.8
288353	2004 BO_{146}	15.5	X	294.79940	183.02627	324.28387	7.55195	0.0850687	0.17170555	3.2058743	20	—	—
288354	2004 BP_{146}	16.4	X	349.09105	309.74373	108.74477	5.28210	0.0990622	0.22866382	2.6485270	20	—	—
288355	2004 BX_{147}	16.1	X	344.91096	257.61302	128.52338	6.69678	0.0516986	0.22308298	2.6925168	20	11 14.9	19.6
288356	2004 BB_{154}	16.0	X	302.51111	350.22552	321.22367	9.65055	0.0578878	0.20270853	2.8700405	20	5 26.9	20.0
288357	2004 BO_{154}	18.2	X	166.61459	357.39692	125.17129	3.06174	0.1609740	0.26864511	2.3787571	20	7 26.8	21.9
288358	2004 CF_{1}	16.2	X	219.02169	121.84426	77.83232	14.02908	0.1143173	0.22754690	2.6571869	20	12 24.3	19.9
288359	2004 CN_{5}	16.7	X	141.87399	205.06005	15.47439	7.20099	0.0703923	0.27808349	2.3246233	20	11 7.0	19.8
288360	2004 CF_{10}	16.5	X	3.32007	343.80482	85.00706	3.09637	0.2369059	0.17473683	3.1686899	20	—	—
288361	2004 CD_{11}	15.7	X	350.46549	2.01457	317.74435	11.52012	0.0495854	0.20963384	2.8064789	20	8 19.8	19.1
288362	2004 CK_{11}	17.4	X	129.61149	179.75479	217.12846	2.45155	0.1440402	0.30877702	2.1679008	20	2 19.5	20.1
288363	2004 CN_{11}	17.4	X	210.23247	172.58875	307.17440	3.46000	0.1332778	0.27413604	2.3468858	20	9 6.9	20.8
288364	2004 CR_{11}	16.7	X	355.47899	69.17654	319.99213	11.94848	0.3046826	0.22746363	2.6578353	20	—	—
288365	2004 CH_{13}	15.7	X	28.10481	213.23508	334.04011	9.99650	0.0341300	0.19264027	2.9691901	20	4 13.7	19.8
288366	2004 CB_{15}	17.1	X	25.91504	215.52121	13.88370	3.15906	0.1522563	0.25853958	2.4403457	20	6 23.8	19.4
288367	2004 CJ_{17}	15.6	X	225.92683	220.95507	30.27632	8.06358	0.0534514	0.17468453	3.1693224	20	—	—
288368	2004 CG_{18}	17.5	X	184.99145	144.04977	17.21887	1.88398	0.1281769	0.27572248	2.3378749	20	10 6.4	20.9
288369	2004 CK_{19}	17.0	X	240.79974	241.71388	244.86174	0.53603	0.0398701	0.22152367	2.7051371	20	10 29.5	20.5
288370	2004 CH_{20}	16.8	X	136.81054	169.33788	89.31803	3.89756	0.0550518	0.22431517	2.6826476	20	12 10.9	20.6
288371	2004 CM_{20}	16.2	X	5.36050	11.89649	40.42743	2.79316	0.1898358	0.17240127	3.1972437	20	—	—
288372	2004 CV_{22}	16.5	X	201.05431	4.50963	108.36130	6.13017	0.1131207	0.21221161	2.7837055	20	8 17.3	20.8
288373	2004 CA_{25}	16.3	X	236.24085	300.33486	164.55809	8.99312	0.1305153	0.21502063	2.7594083	20	9 12.4	20.2
288374	2004 CF_{26}	15.6	X	20.81163	110.14281	331.33481	8.62720	0.0726437	0.17434188	3.1734737	20	—	—
288375	2004 CM_{29}	16.4	X	303.50323	154.28184	130.05650	16.42810	0.1431035	0.19689170	2.9262927	20	4 19.1	20.6
288376	2004 CB_{30}	15.3	X	101.15668	56.68531	308.59416	11.18782	0.0783973	0.17853301	3.1236116	20	—	—
288377	2004 CK_{36}	15.4	X	272.33145	137.72177	28.48080	10.27268	0.0304884	0.16881780	3.2423301	20	—	—
288378	2004 CH_{39}	15.0	X	315.47501	186.13377	334.92303	25.54955	0.0955500	0.17559958	3.1583026	20	—	—
288379	2004 CA_{50}	17.3	X	218.14479	222.58397	147.47887	22.72654	0.0953437	0.37674198	1.8986287	20	4 26.6	20.1
288380	2004 CR_{52}	15.8	X	96.75527	27.56904	140.12571	9.88192	0.0890773	0.19887350	2.9068198	20	7 2.1	20.0
288381	2004 CZ_{68}	17.2	X	56.23849	45.79846	127.82058	5.03845	0.1412780	0.25584559	2.4574466	20	5 24.8	19.9
288382	2004 CY_{73}	16.1	X	279.91388	295.38484	137.18326	12.67650	0.2775055	0.22341470	2.6898510	20	9 7.7	19.4
288383	2004 CS_{74}	16.9	X	329.17845	26.54043	176.27727	4.78475	0.1742159	0.24538577	2.5267938	20	1 20.5	20.1
288384	2004 CP_{75}	16.4	X	106.22444	62.02816	151.50882	6.83454	0.0796120	0.27099182	2.3650042	20	9 19.7	19.5
288385	2004 CB_{76}	16.1	X	183.92307	13.10909	137.23040	5.94360	0.0988623	0.21185578	2.7868216	20	9 16.7	20.4
288386	2004 CV_{80}	16.8	X	52.14558	115.14193	130.88450	4.34162	0.1326467	0.26445821	2.4037982	20	8 31.9	19.6
288387	2004 CX_{80}	15.4	X	322.31238	37.54680	141.90473	11.25713	0.0521789	0.17942004	3.1133080	20	1 11.8	19.9
288388	2004 CR_{82}	17.0	X	215.83656	336.03791	157.19211	5.46150	0.1938198	0.21635967	2.7480113	20	9 19.8	21.2
288389	2004 CW_{82}	16.6	X	110.14462	244.74660	356.95376	3.73801	0.1543313	0.21338803	2.7734650	20	10 25.1	21.0
288390	2004 CS_{83}	16.2	X	66.74675	252.86672	321.94403	9.37530	0.0264020	0.20314331	2.8659440	20	7 17.8	20.2
288391	2004 CT_{85}	17.4	X	58.26075	103.89434	84.95829	2.06193	0.1225936	0.25691488	2.4506232	20	6 15.2	20.1
288392	2004 CU_{88}	16.4	X	19.99765	279.78727	90.72348	6.98514	0.0872635	0.22564953	2.6720613	20	12 16.9	19.9
288393	2004 CN_{104}	16.1	X	332.27840	284.07373	170.54791	11.63209	0.1647234	0.23013690	2.6372130	20	—	—
288394	2004 CG_{115}	16.2	X	345.76269	234.57401	173.90434	13.63065	0.2632492	0.22963671	2.6410412	20	—	—
288395	2004 CS_{117}	16.5	X	345.83200	104.75509	303.02475	1.80957	0.0762383	0.22586808	2.6703374	20	12 14.9	19.8
288396	2004 CO_{120}	17.3	X	143.52007	79.37055	183.06109	2.57923	0.1992481	0.22046320	2.7138050	20	12 19.8	21.8
288397	2004 CN_{123}	17.5	X	39.97589	302.64193	155.27351	3.59916	0.0763180	0.24127702	2.5553991	20	1 3.8	20.3
288398	2004 CU_{125}	17.2	X	64.40145	359.65512	165.65481	6.64363	0.0520742	0.25549919	2.4596673	20	5 12.3	20.2
288399	2004 CZ_{125}	17.4	X	335.56114	230.93955	55.24847	0.95903	0.1936829	0.25800366	2.4437239	20	5 31.5	19.1
288400	2004 DO_{3}	15.6	X	207.64538	124.98177	345.67523	13.24665	0.1221311	0.21122874	2.7923340	20	8 21.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288401 2004 DO_4	15.6	X	144.67839	50.65049	334.43502	21.72341	0.0328369	0.18584405	3.0411437	20	2 24.1	19.9
288402 2004 DH_{13}	15.1	X	351.79559	194.26069	341.78931	17.92199	0.2096882	0.17990081	3.1077588	20	2 5.9	18.7
288403 2004 DZ_{14}	16.1	X	231.39728	288.11966	273.79799	12.46410	0.1821481	0.22678984	2.6630970	20	—	—
288404 2004 DO_{16}	17.2	X	99.26466	310.98882	221.29695	5.93183	0.0849768	0.26218311	2.4176842	20	7 12.8	20.4
288405 2004 DY_{19}	16.3	X	101.02797	264.77241	186.03486	12.40554	0.1937875	0.19151679	2.9807907	20	4 15.5	20.6
288406 2004 DT_{20}	15.9	X	259.34211	210.73798	265.10802	8.49064	0.1373846	0.21971227	2.7199850	20	10 22.4	19.6
288407 2004 DB_{27}	17.5	X	178.39534	119.22658	116.38415	3.84150	0.1853072	0.28152136	2.3056594	20	12 29.5	20.8
288408 2004 DM_{28}	15.9	X	292.59772	122.48785	48.62989	2.11573	0.1272491	0.17231535	3.1983064	20	—	—
288409 2004 DU_{28}	16.6	X	254.30139	44.83681	124.90268	4.96051	0.0211457	0.22701993	2.6612973	20	—	—
288410 2004 DN_{33}	15.5	X	267.21438	104.58193	150.78299	10.99910	0.1584594	0.17766758	3.1337469	20	1 25.1	20.4
288411 2004 DA_{36}	16.2	X	175.06278	338.12674	202.90478	5.24905	0.0827023	0.21488447	2.7605738	20	10 15.1	20.4
288412 2004 DC_{36}	16.1	X	119.90113	19.19546	172.71035	15.56335	0.0740144	0.20638282	2.8358746	20	8 27.2	20.4
288413 2004 DG_{43}	16.9	X	343.51113	329.46495	143.24870	4.73461	0.1387149	0.23399358	2.6081551	20	—	—
288414 2004 DU_{46}	16.0	X	335.61288	270.01824	170.62746	22.03177	0.0568261	0.22627931	2.6671011	20	—	—
288415 2004 DO_{50}	16.1	X	287.27084	121.89038	297.16873	6.09914	0.2890060	0.21969619	2.7201177	20	8 24.5	19.3
288416 2004 DG_{54}	16.4	X	282.83607	258.30735	128.62435	5.28082	0.0833567	0.20970031	2.8058859	20	8 7.8	20.1
288417 2004 DT_{57}	17.5	X	72.64911	87.65662	346.48165	4.23798	0.1859061	0.24522538	2.5278954	20	2 6.7	20.1
288418 2004 DD_{61}	15.5	X	323.90494	162.10909	336.01880	6.94952	0.0431432	0.17268791	3.1937048	20	—	—
288419 2004 DA_{63}	16.3	X	287.02618	306.09821	134.43286	7.34344	0.0480032	0.21873424	2.7280869	20	11 2.6	19.9
288420 2004 DW_{64}	17.3	X	238.04771	291.67840	164.77186	6.68441	0.0675482	0.27265965	2.3553501	20	9 20.9	20.1
288421 2004 DH_{70}	18.5	X	224.64805	57.29247	13.91352	1.37163	0.1646073	0.27045092	2.3681565	20	7 17.1	22.0
288422 2004 DG_{75}	17.3	X	264.15194	280.32198	306.37090	1.15418	0.1413501	0.23565159	2.5959070	20	—	—
288423 2004 DC_{76}	16.3	X	21.30723	9.20149	170.08370	9.47006	0.0720273	0.18791634	3.0187444	20	4 1.8	20.1
288424 2004 DA_{77}	16.9	X	122.94272	217.11361	269.34737	4.35121	0.1182208	0.25970995	2.4330087	20	6 13.8	20.2
288425 2004 EE	15.6	X	42.20164	119.99600	0.32259	15.66528	0.1534024	0.18149894	3.0894890	20	2 27.6	19.3
288426 2004 EM_8	17.5	X	154.52382	216.42444	353.06199	1.16521	0.1275845	0.27298954	2.3534522	20	11 5.3	21.1
288427 2004 EL_{15}	16.4	X	357.86242	29.81081	149.07558	17.80534	0.2151967	0.18165699	3.0876967	20	2 14.9	19.6
288428 2004 EZ_{16}	15.9	X	343.63733	136.62633	32.33049	10.83373	0.1787397	0.17767141	3.1337020	20	1 15.2	19.9
288429 2004 EE_{19}	16.0	X	278.25400	66.36479	166.94899	26.30908	0.2455627	0.17508846	3.1644461	20	1 3.1	21.5
288430 2004 EQ_{21}	18.1	X	227.63107	110.35250	17.17903	1.45581	0.1366337	0.27548915	2.3391948	20	10 9.4	20.9
288431 2004 EJ_{23}	17.5	X	122.85815	50.37472	110.94790	3.05542	0.1383056	0.26189079	2.4194830	20	8 2.2	21.0
288432 2004 ET_{24}	15.6	X	280.58794	309.69475	140.86751	26.08483	0.1350230	0.21811416	2.7332550	20	11 1.6	19.5
288433 2004 EV_{24}	17.3	X	108.50397	10.29138	3.47616	18.88649	0.0787171	0.35516235	1.9747772	20	—	—
288434 2004 EU_{25}	15.4	X	331.53045	257.28494	331.92607	8.22114	0.0852100	0.18511822	3.0490878	20	3 18.6	19.4
288435 2004 EE_{31}	17.5	X	131.02575	268.33120	174.74245	22.14893	0.1125202	0.37267829	1.9124055	20	4 23.5	19.9
288436 2004 ER_{32}	15.9	X	288.04029	304.27155	269.67360	12.42089	0.2311153	0.17301198	3.1897153	20	—	—
288437 2004 ES_{32}	14.9	X	1.44629	236.89722	290.95453	13.27122	0.1638269	0.18054459	3.1003667	20	2 8.2	18.6
288438 2004 EF_{35}	16.1	X	248.80687	222.60015	19.96194	17.43856	0.1472937	0.23171018	2.6252619	20	—	—
288439 2004 EP_{41}	17.2	X	354.39245	137.02206	353.74313	6.25401	0.0889532	0.29609320	2.2293783	20	—	—
288440 2004 EM_{43}	16.0	X	45.38072	262.38094	294.85657	9.03345	0.1482126	0.19112484	2.9848645	20	6 8.9	19.8
288441 2004 EM_{45}	17.0	X	110.73488	118.31760	167.20350	3.82508	0.0253959	0.21983483	2.7189740	20	12 12.7	20.8
288442 2004 ES_{45}	16.6	X	323.09692	290.70092	160.99900	3.31046	0.2312248	0.16693331	3.2666859	20	12 18.1	19.8
288443 2004 EU_{45}	14.9	X	69.57364	306.83743	167.92860	8.59179	0.1313708	0.12553223	3.9503224	20	4 1.9	20.2
288444 2004 EW_{47}	16.2	X	348.64009	153.43675	357.70265	10.26682	0.1650833	0.17688070	3.1430341	20	1 1.7	20.2
288445 2004 EB_{50}	16.3	X	266.10946	118.11894	358.94166	4.71834	0.0636922	0.21976258	2.7195698	20	11 14.7	19.9
288446 2004 EG_{55}	16.1	X	309.58471	214.88459	313.02637	12.80230	0.1044840	0.23401392	2.6080040	20	—	—
288447 2004 EO_{55}	15.6	X	352.01885	301.80225	220.14981	11.35704	0.1158296	0.17837484	3.1254579	20	1 21.0	19.8
288448 2004 EZ_{55}	15.7	X	158.66372	326.53879	213.77116	12.91101	0.1271546	0.20903860	2.8118041	20	9 23.0	20.3
288449 2004 EK_{58}	16.4	X	300.18664	291.12780	165.25052	13.56933	0.1457223	0.22277552	2.6949936	20	12 6.1	19.6
288450 2004 EU_{58}	15.2	X	311.35424	281.40662	242.22457	15.69118	0.1791688	0.17168306	3.2061543	20	—	—
288451 2004 EG_{61}	16.4	X	270.44777	297.39024	178.42619	2.65265	0.1312383	0.22110957	2.7085136	20	11 12.4	19.6
288452 2004 EA_{62}	17.4	X	91.55880	69.29929	191.79821	1.68161	0.2309601	0.26869120	2.3784850	20	11 15.1	21.3
288453 2004 EM_{67}	17.5	X	63.41646	18.24689	169.26095	2.47028	0.1475788	0.25562521	2.4588588	20	6 25.5	20.4
288454 2004 EU_{69}	17.2	X	272.82655	165.39694	348.23361	3.17702	0.1277162	0.22578962	2.6709560	20	—	—
288455 2004 EW_{69}	15.9	X	259.00862	220.39181	175.42488	13.72318	0.0692359	0.20327044	2.8647489	20	7 17.6	20.2
288456 2004 EX_{74}	15.8	X	212.10785	11.04004	140.84695	9.58450	0.0735386	0.21753219	2.7381277	20	10 24.9	19.8
288457 2004 EE_{75}	15.6	X	28.30053	269.09090	178.12912	9.79015	0.2246076	0.17715111	3.1398348	20	—	—
288458 2004 EP_{76}	17.3	X	194.77772	303.90414	162.00533	5.57807	0.1643172	0.26705471	2.3881919	20	7 31.1	20.9
288459 2004 EL_{77}	16.9	X	33.31235	76.28166	112.79117	0.96139	0.2770544	0.18903799	3.0067916	20	5 25.7	19.7
288460 2004 EB_{79}	16.6	X	345.95968	49.42787	80.27072	3.13560	0.0189344	0.23341531	2.6124610	20	—	—
288461 2004 EG_{83}	16.1	X	316.49519	5.65023	176.46983	15.71887	0.1993935	0.17585903	3.1551955	20	—	—
288462 2004 EB_{88}	17.8	X	96.56361	294.10093	260.61264	0.55029	0.1231034	0.26245997	2.4159837	20	8 15.6	21.1
288463 2004 EA_{91}	15.8	X	279.56240	97.25772	163.18627	12.20162	0.1115244	0.18168791	3.0873465	20	2 17.7	20.4
288464 2004 EJ_{91}	17.9	X	65.28372	195.33117	71.08944	2.39253	0.1527399	0.26725578	2.3869939	20	10 19.6	21.0
288465 2004 EE_{92}	15.9	X	167.58267	62.90370	339.93467	5.11789	0.1648543	0.19170430	2.9788467	20	4 15.6	20.8
288466 2004 EK_{94}	15.5	X	51.55430	76.72464	19.05198	10.98261	0.0746889	0.17914931	3.1164437	20	2 4.3	19.7
288467 2004 EF_{103}	17.1	X	144.19754	145.29021	78.84340	2.00749	0.0155000	0.21506991	2.7589867	20	11 5.0	21.0
288468 2004 ER_{111}	16.8	X	325.72947	63.44738	67.68357	4.18547	0.1598656	0.23167355	2.6255386	20	—	—
288469 2004 EZ_{112}	15.9	X	260.12945	133.38453	136.14447	7.86202	0.1094256	0.17932297	3.1144314	20	2 9.2	20.7
288470 2004 FJ_1	18.2	X	191.35809	293.78167	177.97765	19.87205	0.0975611	0.38691380	1.8652050	20	8 17.2	20.6
288471 2004 FF_3	15.6	X	271.87348	105.39943	160.50253	24.00743	0.3420192	0.17438552	3.1729442	20	1 24.9	21.2
288472 2004 FB_4	17.8	X	183.32990	347.81918	156.99406	5.26052	0.1017973	0.26921814	2.3753804	20	9 14.4	21.2
288473 2004 FA_6	17.3	X	319.80800	214.48618	68.54038	7.81412	0.1491004	0.31126524	2.1563320	20	4 30.5	19.3
288474 2004 FE_6	16.9	X	6.32993	132.52194	163.18822	2.24639	0.0461537	0.20218633	2.8749802	20	8 10.7	20.5
288475 2004 FO_{12}	15.9	X	20.64032	30.01490	101.49229	7.37605	0.1489111	0.18028678	3.1033216	20	1 31.5	19.5
288476 2004 FP_{13}	16.1	X	292.73981	231.94889	322.98068	9.96398	0.0723789	0.23433482	2.6056225	20	—	—
288477 2004 FJ_{15}	15.1	X	337.29720	270.20733	312.05051	17.73267	0.1127048	0.18431135	3.0579802	20	3 9.2	19.3
288478 Fahlman	16.7	X	80.43353	45.30746	216.43812	7.35352	0.1820392	0.21025908	2.8009125	20	10 23.5	20.9
288479 2004 FX_{17}	17.3	X	287.88215	163.77522	191.53259	22.56951	0.0692992	0.37995498	1.8879100	20	7 11.7	19.7
288480 2004 FJ_{20}	16.1	X	342.96613	120.83529	350.44805	14.09439	0.0579944	0.23018206	2.6368681	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288481 2004 FL_{22}	16.1	X	305.44488	278.02764	289.94917	11.39692	0.1357845	0.23696295	2.5863210	20	1 4.5	19.5
288482 2004 FQ_{22}	17.1	X	50.11893	225.86379	1.49333	5.11347	0.0698483	0.25889264	2.4381266	20	7 22.1	20.0
288483 2004 FY_{22}	16.8	X	248.40434	144.11430	5.27523	4.80462	0.0504628	0.22021602	2.7158354	20	12 4.9	20.5
288484 2004 FW_{23}	16.6	X	217.54016	280.81305	333.02235	2.22528	0.1291466	0.22954596	2.6417372	20	—	—
288485 2004 FP_{26}	18.4	X	32.17493	189.15849	13.66228	3.26355	0.1092986	0.31264243	2.1499949	20	5 17.6	20.1
288486 2004 FK_{27}	16.8	X	205.39182	264.55548	338.58737	3.93467	0.1746294	0.22499567	2.6772357	20	—	—
288487 2004 FQ_{30}	16.0	X	36.13989	74.51720	62.96356	26.79120	0.3019904	0.18487205	3.0517940	20	4 8.7	19.5
288488 2004 FH_{35}	15.1	X	18.84018	121.97508	333.65381	11.36233	0.0939597	0.17323934	3.1869239	20	—	—
288489 2004 FN_{41}	16.3	X	201.71758	359.51401	164.29531	9.64850	0.0992518	0.21333084	2.7739606	20	10 23.5	20.5
288490 2004 FZ_{41}	16.1	X	234.80937	316.25213	145.41968	10.01157	0.1913735	0.21269027	2.7795274	20	8 30.2	20.2
288491 2004 FE_{45}	16.9	X	301.02004	79.63426	116.11381	4.80282	0.1469561	0.23477363	2.6023747	20	—	—
288492 2004 FQ_{47}	17.3	X	160.66065	32.58717	183.07999	4.69002	0.1709405	0.27776232	2.3264148	20	11 19.3	20.9
288493 2004 FU_{48}	15.7	X	5.49058	172.67117	341.51201	9.45560	0.1171320	0.18063161	3.0993709	20	2 6.1	19.4
288494 2004 FD_{49}	16.3	X	247.03031	289.02832	193.61418	9.42220	0.1991028	0.21803528	2.7339141	20	10 8.7	19.9
288495 2004 FT_{51}	15.9	X	101.53979	245.63641	356.79570	12.60676	0.1770576	0.21008440	2.8024649	20	10 16.5	20.5
288496 2004 FG_{54}	17.8	X	167.71480	306.78873	207.45657	1.89706	0.1706999	0.26953666	2.3735087	20	9 6.4	21.6
288497 2004 FU_{58}	16.9	X	322.71899	81.51500	351.57077	1.89664	0.1398537	0.22142317	2.7059556	20	12 12.9	19.7
288498 2004 FE_{61}	15.3	X	240.37528	103.85484	170.60183	25.30578	0.2782538	0.17357760	3.1827823	20	1 16.3	21.2
288499 2004 FO_{61}	16.8	X	209.04404	272.68958	154.91528	5.87878	0.0582481	0.26038273	2.4288159	20	7 2.8	20.1
288500 2004 FG_{72}	16.8	X	35.64288	247.03938	156.37091	3.18189	0.0997616	0.22805942	2.6532044	20	—	—
288501 2004 FW_{82}	16.9	X	256.93834	82.25148	146.91249	11.62591	0.2071135	0.23236526	2.6203255	20	—	—
288502 2004 FM_{85}	16.7	X	339.27145	156.43145	40.16639	11.56259	0.0721697	0.24111326	2.5565561	20	2 19.0	20.0
288503 2004 FL_{86}	16.5	X	282.69375	212.40651	27.44594	10.27235	0.0872943	0.24027503	2.5624985	20	1 26.8	20.2
288504 2004 FF_{92}	16.7	X	169.09360	74.64875	83.55992	12.05622	0.2195324	0.27081791	2.3660167	20	9 18.8	20.9
288505 2004 FT_{93}	16.5	X	180.95086	24.56996	175.64300	8.48941	0.1288524	0.21492469	2.7602294	20	11 12.8	20.9
288506 2004 FO_{98}	15.6	X	262.63086	54.82290	10.61026	14.21692	0.1751457	0.21010373	2.8022930	20	8 23.3	19.6
288507 2004 FH_{101}	16.2	X	333.87099	234.02682	334.75079	5.85370	0.0536832	0.18276303	3.0752268	20	3 1.9	20.4
288508 2004 FB_{106}	17.0	X	192.31209	326.24441	120.63755	6.93993	0.0728982	0.26213131	2.4180027	20	7 8.1	20.4
288509 2004 FH_{106}	15.9	X	150.87913	218.38044	14.67737	12.84439	0.1457860	0.21317140	2.7753436	20	11 17.8	20.5
288510 2004 FA_{107}	16.2	X	214.20509	52.49181	200.49500	10.22384	0.1500065	0.22687100	2.6624619	20	—	—
288511 2004 FS_{108}	16.7	X	179.73108	1.31780	180.78311	4.25569	0.1355709	0.21178857	2.7874112	20	10 18.8	21.0
288512 2004 FF_{112}	16.7	X	91.36420	101.24996	181.67638	12.86373	0.2031697	0.21092842	2.7949839	20	12 1.6	21.4
288513 2004 FQ_{116}	17.5	X	318.09381	124.40923	126.83853	8.28110	0.1941341	0.30359004	2.1925241	20	3 1.7	19.9
288514 2004 FE_{118}	16.6	X	291.99950	53.97179	177.06314	14.25021	0.0912394	0.23780112	2.5802401	20	1 20.9	20.5
288515 2004 FG_{121}	15.4	X	99.42174	28.67854	128.12695	11.00025	0.0376778	0.19296508	2.9658571	20	6 15.1	19.7
288516 2004 FU_{122}	15.6	X	9.11118	257.92231	237.49310	15.03281	0.2158096	0.17758256	3.1347471	20	1 8.3	19.1
288517 2004 FZ_{123}	16.1	X	155.07362	140.52089	78.31363	14.27770	0.1440259	0.21345714	2.7728663	20	11 11.7	20.6
288518 2004 FU_{136}	16.0	X	211.16058	111.45143	91.71710	14.08520	0.1358074	0.21965193	2.7204831	20	12 15.9	20.0
288519 2004 FR_{137}	18.0	X	82.83798	322.76875	183.33202	3.10090	0.1382304	0.25223898	2.4808162	20	5 24.7	21.0
288520 2004 FJ_{138}	16.2	X	349.46101	348.97591	335.92866	4.62666	0.0481569	0.20304890	2.8668323	20	8 25.9	19.9
288521 2004 FC_{142}	15.9	X	210.42982	257.33197	191.14652	10.88697	0.1052460	0.20294248	2.8678344	20	7 23.3	20.4
288522 2004 FK_{143}	16.5	X	232.08519	40.90599	352.11943	14.57965	0.1045559	0.25895689	2.4377233	20	6 6.8	20.3
288523 2004 FR_{147}	15.7	X	75.22283	222.30685	282.54646	8.56439	0.2027056	0.19070353	2.9892592	20	5 21.6	19.8
288524 2004 FU_{147}	15.0	X	347.15656	212.72493	338.08031	26.82081	0.0691891	0.18031873	3.1029551	20	2 26.5	19.0
288525 2004 FT_{156}	16.2	X	54.71497	299.36097	169.85807	6.45895	0.1420859	0.18188030	3.0851688	20	2 27.4	20.0
288526 2004 FE_{165}	16.3	X	338.42515	87.55465	53.03882	28.11419	0.1407674	0.23314210	2.6145016	20	—	—
288527 2004 FH_{165}	16.3	X	37.76361	197.65995	93.09933	24.77884	0.1460309	0.26516590	2.3995194	20	10 29.1	19.9
288528 2004 FM_{166}	16.3	X	34.65739	247.39150	341.25561	14.53029	0.2675817	0.19097867	2.9863873	20	7 27.9	19.8
288529 2004 GZ_{6}	16.8	X	242.83384	40.96596	72.24440	3.56660	0.1071800	0.21524203	2.7575158	20	10 5.8	20.6
288530 2004 GS_{8}	17.0	X	218.21718	24.21578	208.35517	10.88426	0.1041538	0.22436886	2.6822196	20	—	—
288531 2004 GT_{8}	16.5	X	202.80054	5.84619	218.56512	3.44934	0.2373671	0.21886817	2.7269738	20	12 21.6	20.8
288532 2004 GK_{9}	16.3	X	194.44145	87.18864	207.75736	7.57461	0.1518056	0.16779736	3.2554621	20	1 7.8	21.7
288533 2004 GX_{9}	16.9	X	275.25822	248.14862	187.38396	10.50890	0.0307644	0.20929716	2.8094879	20	10 8.7	20.5
288534 2004 GF_{12}	15.3	X	269.26057	281.63379	356.50020	15.60956	0.2121366	0.17768800	3.1335068	20	2 22.1	20.3
288535 2004 GJ_{13}	15.6	X	288.37852	253.41127	353.14600	16.21609	0.1622110	0.17566793	3.1574833	20	2 11.3	20.3
288536 2004 GV_{19}	15.4	X	207.67653	102.28842	104.90295	26.36264	0.1648935	0.21682602	2.7440696	20	12 15.9	19.8
288537 2004 GQ_{20}	16.2	X	257.98088	198.05729	77.45215	12.83637	0.1463597	0.23564714	2.5959397	20	2 7.6	20.3
288538 2004 GJ_{23}	17.6	X	334.55823	350.12900	186.26742	3.60196	0.1023382	0.29720512	2.2238143	20	—	—
288539 2004 GU_{23}	16.7	X	235.54811	147.05136	134.93597	7.65311	0.1335999	0.29427108	2.2385716	20	1 14.3	19.9
288540 2004 GX_{23}	16.2	X	334.49161	30.46047	146.19524	8.94658	0.1369207	0.23550767	2.5969645	20	1 2.2	19.4
288541 2004 GV_{25}	17.9	X	306.87475	91.14968	76.21920	0.40420	0.1578574	0.29143689	2.2530615	20	—	—
288542 2004 GL_{28}	16.0	X	163.88126	256.14164	104.89479	21.89563	0.0459305	0.23784079	2.5799532	20	2 15.5	19.9
288543 2004 GV_{31}	17.3	X	84.41571	208.65088	356.87112	0.98696	0.1382194	0.25836786	2.4414269	20	8 17.7	20.7
288544 2004 GZ_{31}	16.8	X	196.18920	74.59732	77.20240	4.99312	0.0578521	0.27029984	2.3690389	20	10 14.9	19.9
288545 2004 GL_{32}	16.1	X	148.61635	312.47161	265.60278	8.17621	0.1660482	0.21202965	2.7852979	20	10 30.2	20.7
288546 2004 GN_{34}	15.2	X	324.41977	202.49620	335.96518	16.94290	0.1236482	0.17465828	3.1696399	20	1 8.7	19.7
288547 2004 GF_{42}	17.8	X	15.85890	170.34574	83.12877	5.84197	0.2169078	0.31359768	2.1456267	20	7 29.7	19.0
288548 2004 GC_{44}	17.5	X	137.37212	141.57177	28.39517	2.13151	0.1256191	0.26474687	2.4020506	20	8 29.1	20.9
288549 2004 GU_{44}	16.4	X	293.64170	288.72202	328.22204	2.83835	0.1504616	0.18090830	3.0962098	20	2 25.3	20.7
288550 2004 GJ_{49}	16.6	X	14.01639	230.20084	213.41248	11.02058	0.1415720	0.22880575	2.6474317	20	—	—
288551 2004 GF_{50}	16.4	X	162.62858	69.19030	330.31272	2.68447	0.1677019	0.24492857	2.5299372	20	4 5.7	20.4
288552 2004 GG_{57}	17.7	X	45.91978	201.16447	10.40585	1.11502	0.1324993	0.25445370	2.4664001	20	6 30.3	20.2
288553 2004 GG_{62}	16.2	X	344.89826	23.24001	148.83547	1.31030	0.1111394	0.17671556	3.1449919	20	1 26.9	20.2
288554 2004 GH_{62}	16.3	X	234.12881	137.79905	184.54615	5.27152	0.1493225	0.18074494	3.0980752	20	3 12.6	21.1
288555 2004 GY_{73}	15.9	X	355.84224	348.87905	263.57686	8.96066	0.2144133	0.18785896	3.0193592	20	5 24.6	18.8
288556 2004 GC_{87}	17.0	X	115.18929	294.85028	297.85405	6.74337	0.1181203	0.26711573	2.3878282	20	10 22.5	20.7
288557 2004 HQ	17.0	X	164.43619	357.31258	54.81391	22.44083	0.0705077	0.36963217	1.9228978	20	4 21.6	19.4
288558 2004 HV	14.8	X	220.50576	288.85284	281.57598	36.16296	0.3730868	0.21858454	2.7293323	20	12 11.1	19.6
288559 2004 HA_{5}	16.0	X	317.52055	63.16685	174.71999	3.00358	0.0668115	0.18088283	3.0965005	20	3 15.3	20.1
288560 2004 HR_{6}	15.5	X	356.33870	113.02550	2.81736	4.84717	0.1461746	0.17163093	3.2068034	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288561 2004 HA_{9}	17.4	X	281.58085	116.08339	105.07101	3.66530	0.1205549	0.29331912	2.2434125	20	—	—
288562 2004 HW_{10}	16.3	X	257.67426	198.25903	57.65086	10.18154	0.1099649	0.23374791	2.6099823	20	1 15.6	20.3
288563 2004 HR_{16}	17.1	X	79.07945	214.26467	9.83923	2.42589	0.1285220	0.25995629	2.4314714	20	9 4.8	20.4
288564 2004 HO_{17}	16.8	X	155.57055	173.58666	31.91474	7.02731	0.0798004	0.27068577	2.3667866	20	11 2.5	20.1
288565 2004 HB_{19}	15.0	X	289.28249	226.67951	15.37268	27.45352	0.1645410	0.17394537	3.1782945	20	2 16.2	20.1
288566 2004 HT_{24}	17.4	X	158.53307	114.29781	12.03541	4.57422	0.1430458	0.26251230	2.4156626	20	7 24.8	21.1
288567 2004 HK_{26}	15.2	X	273.56735	84.23449	208.47571	13.98380	0.1696454	0.17942080	3.1132992	20	3 11.6	20.1
288568 2004 HK_{32}	17.3	X	354.99473	141.20588	26.40975	3.67461	0.0949966	0.23978562	2.5659841	20	1 27.7	20.2
288569 2004 HY_{35}	16.6	X	243.49542	191.02566	63.25333	8.50980	0.1390334	0.23155916	2.6264032	20	—	—
288570 2004 HD_{37}	17.6	X	268.09379	223.75002	51.50696	5.53523	0.1388962	0.29727440	2.2234688	20	2 9.9	20.8
288571 2004 HE_{37}	15.2	X	236.02339	273.64618	51.42270	14.62753	0.2409800	0.17519090	3.1632124	20	3 19.8	20.7
288572 2004 HY_{39}	15.8	X	168.80788	29.43565	46.22825	4.19906	0.1750626	0.19309538	2.9645228	20	5 28.1	20.7
288573 2004 HX_{40}	16.0	X	295.29674	12.67109	210.32662	17.01593	0.0965468	0.17472097	3.1688817	20	1 21.7	20.9
288574 2004 HC_{44}	15.9	X	155.00436	261.90971	19.81758	14.59146	0.1638154	0.21842526	2.7306590	20	—	—
288575 2004 HO_{50}	17.3	X	113.53764	131.41059	115.27419	10.33530	0.1942316	0.26740570	2.3861017	20	11 17.1	21.3
288576 2004 HR_{51}	16.5	X	326.08052	347.02025	219.42505	13.87103	0.0876233	0.23785956	2.5798174	20	1 31.4	20.2
288577 2004 HB_{59}	16.6	X	9.55020	57.32860	222.96785	14.85126	0.1482311	0.19250127	2.9706192	20	7 26.9	20.4
288578 2004 HJ_{60}	17.1	X	268.61852	246.87705	17.29259	6.50043	0.1176972	0.29736694	2.2230075	20	1 29.0	20.2
288579 2004 HL_{62}	16.7	X	314.37008	42.87191	127.24902	25.06523	0.0616279	0.35069315	1.9915193	20	—	—
288580 2004 HE_{65}	15.9	X	44.28022	150.70839	303.23808	12.71057	0.1175291	0.23418110	2.6067627	20	1 9.8	18.7
288581 2004 HV_{65}	17.2	X	134.37084	305.36966	333.04183	1.77955	0.0608227	0.21775989	2.7362186	20	12 30.9	21.2
288582 2004 JL	16.9	X	163.48200	32.29251	70.29976	3.87487	0.0225469	0.19215875	2.9741482	20	6 22.0	21.0
288583 2004 JO	17.1	X	233.57858	145.89506	187.51763	3.11484	0.2641696	0.23803151	2.5785749	20	3 15.2	21.5
288584 2004 JT_{1}	15.7	X	6.06200	228.71857	354.42237	9.33989	0.0985481	0.18446544	3.0562770	20	5 1.4	19.5
288585 2004 JX_{4}	15.2	X	234.04045	343.58485	284.00592	18.49993	0.0981199	0.16983890	3.2293214	20	1 13.0	20.1
288586 2004 JV_{11}	16.0	X	22.32704	48.69898	121.49355	19.86788	0.1309173	0.24156377	2.5533765	20	3 24.1	19.1
288587 2004 JO_{14}	16.7	X	38.39550	152.80398	123.72187	5.09006	0.0950283	0.25788810	2.4444539	20	9 18.1	19.6
288588 2004 JE_{16}	15.4	X	261.43800	78.58684	217.71669	15.32553	0.2333712	0.17625481	3.1504704	20	2 25.0	20.8
288589 2004 JH_{16}	17.5	X	125.05175	91.41754	150.76826	2.85939	0.1840154	0.26848353	2.3797113	20	11 18.8	21.3
288590 2004 JZ_{16}	15.6	X	278.32156	130.19499	143.65072	6.34437	0.1630056	0.17591976	3.1544692	20	2 28.1	20.3
288591 2004 JJ_{18}	17.4	X	90.11029	180.36812	66.50951	3.40908	0.1476622	0.26307930	2.4121905	20	10 20.6	20.8
288592 2004 JW_{20}	20.7	X	189.27100	207.50817	235.18160	14.73478	0.5615232	1.05973333	0.9528071	20	6 25.4	21.0
288593 2004 JO_{21}	15.7	X	129.37644	212.73650	224.30312	7.53326	0.0375887	0.18163354	3.0879625	20	4 9.3	20.2
288594 2004 JC_{25}	16.2	X	128.44142	31.62282	183.90078	7.57150	0.1157155	0.20418670	2.8561724	20	10 9.4	20.5
288595 2004 JP_{27}	15.1	X	265.53385	224.08295	65.95111	14.84182	0.1810771	0.17441504	3.1725862	20	3 10.4	20.2
288596 2004 JQ_{29}	16.7	X	243.72949	180.89619	81.69059	3.37332	0.1607983	0.22925140	2.6439996	20	1 6.3	20.9
288597 2004 JP_{33}	18.1	X	310.08578	97.54888	162.33431	3.89583	0.1616624	0.30178670	2.2012498	20	3 5.9	20.4
288598 2004 JS_{36}	16.8	X	65.52212	243.84175	78.43557	1.66893	0.0644390	0.20990300	2.8040792	20	12 6.5	20.8
288599 2004 JM_{41}	16.7	X	329.91890	190.77390	62.38001	8.00100	0.0617251	0.24361203	2.5390440	20	4 20.1	19.8
288600 2004 KY_{3}	15.2	X	290.72754	256.30601	60.88475	17.66568	0.1467688	0.18326782	3.0695773	20	5 9.5	19.5
288601 2004 KP_{6}	15.4	X	312.41533	105.29838	116.35728	6.31143	0.0976819	0.17408182	3.1766334	20	2 15.5	19.7
288602 2004 KK_{9}	16.2	X	343.00261	350.98503	257.15000	6.41784	0.1716301	0.24331303	2.5411237	20	4 17.7	18.8
288603 2004 KQ_{18}	16.2	X	230.29839	152.90426	164.93834	12.46167	0.2068242	0.23312813	2.6146061	20	2 25.8	20.6
288604 2004 LJ_{5}	15.4	X	281.37003	358.00515	271.98725	18.68398	0.2525324	0.22998173	2.6383991	20	2 3.4	19.8
288605 2004 LE_{6}	17.1	X	202.73844	256.33634	54.94359	7.21746	0.2603848	0.28364403	2.2941419	20	1 25.6	21.1
288606 2004 LO_{14}	16.8	X	44.79030	309.53875	190.98240	13.24443	0.0382301	0.23530546	2.5984521	20	3 5.6	20.1
288607 2004 LJ_{25}	17.0	X	240.68835	177.92564	109.10684	7.09847	0.2489141	0.28917013	2.2648204	20	1 22.7	20.7
288608 2004 LU_{25}	17.3	X	239.40606	354.57782	273.36118	6.69870	0.2393556	0.28554603	2.2839432	20	—	—
288609 2004 LE_{26}	16.5	X	264.96496	141.07433	127.79306	6.67642	0.2414961	0.23194681	2.6234761	20	1 26.2	20.8
288610 2004 LG_{31}	16.5	X	357.53324	91.38204	159.10947	8.04279	0.2409825	0.18207462	3.0829734	20	5 27.9	19.5
288611 2004 MS_{7}	16.0	X	292.52428	243.62457	42.04580	13.41504	0.1791056	0.23475438	2.6025171	20	3 27.5	19.6
288612 2004 NE_{5}	15.4	X	301.65153	297.34058	314.42832	28.86704	0.3230460	0.23246536	2.6195733	20	1 31.8	19.4
288613 2004 NQ_{6}	15.6	X	233.69598	10.59572	335.95727	14.10425	0.2736432	0.22929281	2.6436813	20	3 26.2	20.4
288614 2004 NB_{8}	15.8	X	61.05363	294.83323	298.54509	13.25586	0.1620596	0.18634074	3.0357372	20	8 17.5	20.1
288615 2004 ND_{9}	16.4	X	310.50675	96.52982	168.37303	6.61976	0.1470502	0.23505572	2.6002923	20	3 24.2	19.4
288616 2004 NV_{9}	15.0	X	255.70369	58.90492	296.86352	13.33508	0.2478661	0.17436747	3.1731631	20	4 28.4	20.4
288617 2004 NB_{12}	17.2	X	269.42895	173.46815	126.71168	5.46135	0.1811484	0.29573385	2.2311839	20	3 10.3	20.4
288618 2004 NK_{15}	17.4	X	215.27272	178.22945	146.14789	3.43825	0.1878923	0.28832708	2.2692330	20	2 17.7	21.0
288619 2004 NL_{16}	16.3	X	233.65601	170.69131	127.74874	23.92401	0.1458484	0.28798319	2.2710392	20	2 3.2	19.6
288620 2004 NV_{16}	17.4	X	246.07382	139.75653	171.48124	3.58628	0.2330465	0.23038921	2.6352873	20	3 1.0	21.9
288621 2004 NL_{20}	15.7	X	234.98253	359.73970	275.41284	11.51313	0.1441183	0.22307204	2.6926049	20	1 13.6	19.9
288622 2004 NE_{24}	17.3	X	186.67609	40.72048	265.70235	5.47033	0.2246293	0.27942059	2.3172014	20	1 4.6	21.0
288623 2004 OF_{9}	16.2	X	301.07118	168.19986	113.55526	5.94754	0.2527250	0.17482468	3.1676283	20	3 24.6	20.6
288624 2004 OY_{9}	16.4	X	336.71159	203.77990	23.51993	5.65803	0.2174894	0.23535392	2.5980954	20	3 4.6	19.0
288625 2004 OT_{14}	15.4	X	218.63919	222.78883	125.79167	16.23829	0.0523608	0.16998072	3.2275249	20	4 11.2	20.5
288626 2004 PQ_{4}	17.1	X	195.70200	70.61381	259.11491	3.33179	0.2439434	0.28366347	2.2940371	20	2 8.1	21.1
288627 2004 PX_{5}	16.0	X	284.92348	77.54612	312.88145	24.06226	0.2801641	0.18047695	3.1011413	20	7 17.2	20.3
288628 2004 PF_{6}	16.9	X	187.98886	144.23218	174.73984	6.79264	0.1326256	0.28187772	2.3037157	20	1 15.3	20.4
288629 2004 PQ_{8}	17.5	X	181.75825	209.42895	128.31042	5.23247	0.2535941	0.28197370	2.3031929	20	2 9.0	21.4
288630 2004 PM_{11}	16.3	X	165.15853	7.22181	289.34325	2.51833	0.0709128	0.21243408	2.7817617	20	—	—
288631 2004 PW_{12}	17.8	X	216.05323	305.74593	345.47198	3.43639	0.2278623	0.28358057	2.2944842	20	1 10.0	21.7
288632 2004 PJ_{14}	17.4	X	201.45402	200.76529	122.92589	8.25117	0.1547907	0.28405895	2.2919074	20	2 5.3	20.8
288633 2004 PT_{21}	17.0	X	151.26454	193.56946	122.16402	4.81539	0.1520817	0.27551206	2.3390651	20	—	—
288634 2004 PR_{22}	17.5	X	178.26941	97.03810	256.13429	1.59919	0.2632663	0.28396677	2.2924034	20	2 24.1	21.3
288635 2004 PO_{25}	17.0	X	312.65811	298.36987	321.57035	6.91552	0.1772965	0.29588122	2.2304429	20	3 5.8	19.5
288636 2004 PU_{27}	16.1	X	237.98329	222.58801	111.68714	12.94519	0.2087391	0.22994106	2.6387102	20	3 29.6	20.6
288637 2004 PW_{29}	17.1	X	161.94278	26.37670	341.05621	5.54354	0.1821010	0.28176187	2.3043471	20	2 24.6	20.5
288638 2004 PJ_{32}	17.4	X	176.77792	351.36940	352.67255	3.97890	0.2905299	0.28174231	2.3044538	20	2 14.9	21.3
288639 2004 PT_{32}	16.4	X	226.28202	259.17450	125.84851	17.11505	0.2456532	0.23341193	2.6124863	20	5 18.2	21.1
288640 2004 PC_{33}	16.8	X	37.31283	161.44380	326.14486	5.68838	0.0245731	0.28410287	2.2916712	20	2 1.2	19.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288641 2004 PD_{36}	17.5	X	138.73688	332.88571	343.93888	1.09601	0.1977427	0.27215123	2.3582826	20	—	—
288642 2004 PP_{36}	16.4	X	250.41868	148.38887	262.41722	6.61733	0.2450078	0.24080335	2.5587491	20	7 6.2	20.3
288643 2004 PP_{37}	16.2	X	202.00798	135.86638	153.57882	11.41175	0.1959299	0.21731850	2.7399223	20	1 3.3	20.9
288644 2004 PT_{37}	17.1	X	149.78089	327.60648	335.69315	4.59330	0.2024275	0.27235063	2.3571314	20	—	—
288645 2004 PJ_{38}	16.2	X	270.56454	171.96133	136.77467	6.46433	0.2421722	0.23129125	2.6284310	20	3 21.1	20.3
288646 2004 PV_{42}	16.8	X	261.32246	268.65139	57.17942	5.47179	0.2243741	0.23337447	2.6127658	20	4 4.1	20.8
288647 2004 PG_{43}	16.0	X	318.80798	177.60410	156.01106	9.81197	0.1072411	0.18124053	3.0924250	20	7 14.6	20.0
288648 2004 PZ_{43}	16.5	X	106.55670	211.07332	143.57874	8.58474	0.1008721	0.21049507	2.7988187	20	—	—
288649 2004 PK_{45}	15.2	X	332.66406	310.46582	359.21055	10.02769	0.0689070	0.17771049	3.1332424	20	7 10.1	19.4
288650 2004 PV_{46}	18.0	X	167.27123	155.90342	177.91748	2.17975	0.2313856	0.27920812	2.3183768	20	1 21.8	21.8
288651 2004 PG_{47}	18.0	X	47.21000	271.89887	51.99498	3.23697	0.1319024	0.32097674	2.1126149	20	12 21.3	20.6
288652 2004 PN_{50}	17.2	X	163.08639	358.43495	355.29050	5.55552	0.1482130	0.28149183	2.3058206	20	2 6.9	20.5
288653 2004 PH_{51}	17.4	X	257.52020	197.99212	126.28086	6.34541	0.1549431	0.29393637	2.2402707	20	4 2.5	20.5
288654 2004 PR_{52}	16.4	X	303.25053	275.58571	43.77693	4.39208	0.3105699	0.17633123	3.1495600	20	5 1.9	20.3
288655 2004 PV_{53}	16.8	X	273.46577	316.20498	357.75467	7.34478	0.1256320	0.29471004	2.2363482	20	4 6.3	19.7
288656 2004 PR_{54}	16.9	X	247.93214	322.23359	328.15270	6.35514	0.1263371	0.28770245	2.2725163	20	2 8.5	20.2
288657 2004 PT_{54}	17.3	X	185.59435	3.47967	9.26104	3.38366	0.1938956	0.28736695	2.2742847	20	3 23.7	20.8
288658 2004 PE_{56}	17.7	X	218.97284	124.42811	179.83943	2.59909	0.2335365	0.28488205	2.2874906	20	1 26.6	21.6
288659 2004 PL_{56}	17.4	X	345.21110	277.05175	347.35219	5.23832	0.1389099	0.30159091	2.2022024	20	5 20.1	19.3
288660 2004 PS_{57}	16.9	X	236.51863	311.06902	303.46603	6.73866	0.0827048	0.28027403	2.3124950	20	—	—
288661 2004 PX_{57}	16.4	X	34.78687	124.82966	170.15016	5.99468	0.2212688	0.19011323	2.9954437	20	10 14.8	20.2
288662 2004 PA_{59}	15.5	X	303.19642	198.74663	153.23309	11.70294	0.1398452	0.18095994	3.0956208	20	7 10.5	19.5
288663 2004 PB_{61}	16.3	X	246.98093	39.71929	326.34348	14.87287	0.1744237	0.23353880	2.6115400	20	5 7.6	20.7
288664 2004 PH_{61}	16.0	X	125.10663	148.68973	172.63780	15.39365	0.1478802	0.20600140	2.8393740	20	—	—
288665 2004 PJ_{62}	17.7	X	321.85640	356.16246	303.04868	2.72754	0.1779297	0.30131611	2.2035411	20	5 23.8	19.3
288666 2004 PN_{65}	15.6	X	305.42039	175.35439	170.26110	16.12768	0.3200007	0.17753335	3.1353263	20	6 8.7	19.8
288667 2004 PW_{65}	17.5	X	206.25993	180.84168	171.48797	6.99590	0.1366646	0.28822866	2.2697496	20	3 16.3	20.8
288668 2004 PK_{67}	17.4	X	230.19196	132.74311	178.63883	5.70975	0.2280852	0.28788258	2.2715683	20	2 12.2	21.1
288669 2004 PL_{68}	17.2	X	130.01209	247.91760	135.81664	4.49137	0.1758521	0.27854562	2.3220514	20	2 11.9	20.1
288670 2004 PF_{69}	16.6	X	176.75625	210.88624	119.43612	3.80807	0.1155599	0.21817311	2.7327626	20	1 26.6	20.8
288671 2004 PQ_{70}	16.4	X	240.20321	215.82031	119.78515	5.58254	0.1282577	0.23144563	2.6272621	20	4 4.9	20.4
288672 2004 PW_{72}	16.9	X	334.10188	85.51552	129.59224	5.73031	0.0319984	0.28983962	2.2613314	20	3 1.5	19.5
288673 2004 PM_{74}	16.4	X	303.98544	298.22364	51.96246	1.63506	0.2159223	0.17991897	3.1075497	20	6 28.3	20.3
288674 2004 PC_{76}	17.6	X	186.76520	60.78168	261.47182	5.99486	0.1255465	0.28293003	2.2980000	20	1 17.7	21.0
288675 2004 PD_{76}	17.1	X	152.44420	162.28828	165.65011	7.93262	0.1386390	0.27770507	2.3267345	20	—	—
288676 2004 PJ_{76}	18.0	X	295.04077	280.37478	11.18101	2.50317	0.1783530	0.29732427	2.2232202	20	3 27.7	20.6
288677 2004 PW_{82}	16.0	X	336.81893	127.41285	174.41963	9.63086	0.0725852	0.17976310	3.1093457	20	7 3.1	20.1
288678 2004 PU_{83}	15.8	X	142.33733	183.55090	153.28409	9.74432	0.1535623	0.21048283	2.7989272	20	1 4.1	20.1
288679 2004 PU_{86}	17.2	X	34.45854	320.86541	9.88808	6.37637	0.1393321	0.25486942	2.4637174	20	11 28.4	20.3
288680 2004 PA_{92}	16.6	X	115.96446	172.27658	203.55590	5.57667	0.1252188	0.27502342	2.3418349	20	1 6.6	19.4
288681 2004 PN_{93}	16.5	X	183.12655	175.33998	175.10966	9.85318	0.2463187	0.28514250	2.2860975	20	2 23.3	20.3
288682 2004 PX_{95}	17.2	X	149.87323	226.03456	153.90834	9.14937	0.1516780	0.28224569	2.3017130	20	2 25.5	20.4
288683 2004 PG_{96}	17.7	X	259.37025	76.78388	233.90242	1.20634	0.1959310	0.29257469	2.2472163	20	3 9.9	21.1
288684 2004 PC_{98}	15.4	X	328.91725	201.83643	104.95094	15.82445	0.1035060	0.17917542	3.1161409	20	6 26.2	19.3
288685 2004 PO_{98}	17.1	X	164.25473	227.16117	114.53725	8.91448	0.1543560	0.27993084	2.3143847	20	1 23.3	20.3
288686 2004 PL_{99}	15.7	X	25.82630	212.83316	158.58265	11.80428	0.1042786	0.19552280	2.9399353	20	12 20.7	19.8
288687 2004 PF_{102}	15.6	X	332.36392	72.52111	278.75045	4.50749	0.1900726	0.18373781	3.0643406	20	8 25.2	18.9
288688 2004 PY_{103}	15.5	X	275.03364	186.75350	199.26036	15.32216	0.2674316	0.17356829	3.1828961	20	6 25.4	20.4
288689 2004 PD_{107}	15.5	X	296.03635	237.57467	101.95346	11.19901	0.2400599	0.17624807	3.1505507	20	5 30.9	19.8
288690 2004 PC_{114}	15.6	X	232.52137	291.46870	304.81508	12.01723	0.1661624	0.21341697	2.7732142	20	—	—
288691 2004 QE	17.8	X	209.46139	253.62520	137.76252	0.92797	0.1756876	0.29106056	2.2550031	20	5 8.5	21.3
288692 2004 QJ_{1}	17.5	X	341.14585	153.86676	199.75313	16.61743	0.0587814	0.37546608	1.9029275	20	10 30.8	18.8
288693 2004 QT_{1}	16.3	X	195.45254	57.34938	300.24294	10.05190	0.2073316	0.22329954	2.6907757	20	3 12.4	21.0
288694 2004 QH_{9}	16.1	X	105.09086	289.09277	64.94389	15.85506	0.2262263	0.20969618	2.8059227	20	—	—
288695 2004 QC_{12}	15.3	X	28.96669	311.29561	48.86945	10.72015	0.1450699	0.19517243	2.9434527	20	12 15.1	19.3
288696 2004 QZ_{16}	17.4	X	242.40995	183.08667	185.14260	3.99677	0.1698358	0.29520706	2.2338374	20	5 11.8	20.5
288697 2004 QO_{17}	17.5	X	182.14001	72.21386	296.97839	23.84936	0.2494714	0.28446890	2.2897049	20	3 4.3	21.9
288698 2004 QS_{19}	17.7	X	220.54800	66.86522	250.71332	2.20884	0.1932591	0.28589992	2.2820581	20	2 13.0	21.3
288699 2004 QY_{19}	17.2	X	281.39823	321.24485	350.59031	4.29769	0.1633393	0.29437124	2.2380638	20	4 8.4	20.1
288700 2004 QQ_{20}	16.8	X	209.09168	161.41978	134.54923	5.38082	0.0874585	0.21916459	2.7245145	20	1 16.1	20.9
288701 2004 QM_{25}	15.5	X	165.36845	39.89923	286.30100	19.77638	0.1374739	0.21215198	2.7842271	20	1 12.1	19.7
288702 2004 QH_{27}	15.6	X	339.14957	153.10434	184.64483	17.27607	0.2182293	0.17922062	3.1156170	20	8 17.1	19.0
288703 2004 RE	17.6	X	174.23396	9.67968	355.32774	2.75353	0.1921446	0.28316793	2.2967127	20	3 4.3	21.1
288704 2004 RT_{3}	15.8	X	319.59172	335.01217	61.61571	8.37056	0.1200506	0.18950831	3.0018147	20	10 13.7	19.4
288705 2004 RB_{5}	15.3	X	330.72917	345.59766	29.29587	10.17716	0.0570439	0.18642149	3.0348605	20	10 3.1	19.2
288706 2004 RX_{5}	17.2	X	62.11281	294.75094	70.39964	6.20907	0.2247686	0.26386264	2.4074140	20	—	—
288707 2004 RN_{6}	15.6	X	11.94619	280.68729	8.62159	14.89715	0.2703297	0.18431560	3.0579332	20	9 6.9	18.7
288708 2004 RB_{7}	16.0	X	67.91613	328.58772	35.26831	8.94697	0.2157948	0.20161329	2.8804253	20	—	—
288709 2004 RD_{7}	15.8	X	25.67714	251.30964	40.89588	9.07542	0.1493076	0.18513085	3.0489492	20	9 18.4	19.6
288710 2004 RN_{7}	16.4	X	217.08826	15.75456	5.38182	13.79605	0.2476925	0.22938729	2.6429553	20	4 25.9	21.1
288711 2004 RG_{12}	17.3	X	149.18639	221.45144	154.39302	5.17879	0.2365502	0.27831455	2.3233365	20	2 27.8	20.9
288712 2004 RC_{17}	17.0	X	130.72509	41.95090	333.61811	5.54137	0.1278963	0.27757132	2.3274819	20	1 27.5	19.9
288713 2004 RS_{17}	16.6	X	259.80194	257.59294	88.78369	4.73377	0.2268783	0.23315239	2.6144247	20	4 27.7	20.6
288714 2004 RC_{18}	17.1	X	247.69478	239.04928	73.61183	5.42082	0.1692305	0.28902456	2.2655808	20	3 7.1	20.5
288715 2004 RF_{18}	17.3	X	149.23595	229.61275	117.42989	6.55465	0.1487361	0.27596365	2.3365126	20	1 13.8	20.4
288716 2004 RG_{18}	17.3	X	98.48897	318.59999	21.28743	9.65499	0.2448695	0.26646383	2.3917211	20	—	—
288717 2004 RK_{23}	17.7	X	178.20483	164.27741	141.10491	3.00908	0.2280731	0.27714103	2.3298904	20	—	—
288718 2004 RO_{23}	17.0	X	254.23492	63.71940	352.21273	13.91267	0.1874634	0.24087421	2.5582472	20	7 30.4	20.7
288719 2004 RR_{27}	16.3	X	244.01032	64.27030	337.57106	10.79744	0.0229331	0.24066188	2.5597517	20	7 19.8	19.8
288720 2004 RW_{30}	17.4	X	181.70182	220.68179	159.06960	5.13260	0.1500634	0.28791658	2.2713894	20	3 28.9	20.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288721 2004 RB_{33}	16.1	X	173.53020	132.70625	143.66277	8.30728	0.1867069	0.20935204	2.8089968	20	—	—
288722 2004 RC_{38}	17.2	X	319.43135	297.84103	4.93935	11.91548	0.1937470	0.23867146	2.5739636	20	5 19.2	20.2
288723 2004 RM_{38}	16.7	X	218.86064	128.28685	134.37760	7.05974	0.1683414	0.27693711	2.3310340	20	—	—
288724 2004 RN_{42}	15.6	X	329.69006	19.68651	355.40496	8.88700	0.0291572	0.18578875	3.0417472	20	9 28.8	19.6
288725 2004 RU_{43}	16.1	X	354.84457	339.23342	4.43063	2.41872	0.1689153	0.18685761	3.0301365	20	10 2.1	19.3
288726 2004 RG_{44}	16.5	X	220.48158	85.24539	329.40551	14.18538	0.1198499	0.23661158	2.5888808	20	6 24.4	20.6
288727 2004 RT_{44}	15.8	X	359.80465	332.65969	348.89170	12.69579	0.1200048	0.18464379	3.0543086	20	9 7.7	19.5
288728 2004 RZ_{44}	17.9	X	194.82919	173.76079	157.32482	1.73513	0.1493804	0.28282936	2.2985453	20	2 7.6	21.4
288729 2004 RA_{45}	15.7	X	351.11464	143.71331	162.72484	9.94670	0.0951406	0.18038969	3.1021413	20	7 30.9	19.5
288730 2004 RC_{45}	17.5	X	40.03725	147.52964	236.42282	0.63804	0.1845474	0.26224772	2.4172871	20	—	—
288731 2004 RV_{45}	15.2	X	323.49093	313.69628	359.16572	9.01483	0.0807904	0.17631299	3.1497772	20	6 28.0	19.4
288732 2004 RW_{45}	16.5	X	141.38463	144.50344	141.70993	2.72309	0.0344782	0.20255974	2.8714459	20	—	—
288733 2004 RD_{46}	16.3	X	14.41532	21.39825	358.83584	9.41726	0.0859044	0.19535655	2.9416030	20	12 12.2	20.3
288734 2004 RC_{47}	15.8	X	278.59577	172.20408	175.87250	5.79400	0.1975467	0.17359576	3.1825602	20	5 24.9	20.4
288735 2004 RE_{47}	17.5	X	187.51278	338.07279	336.90765	2.86941	0.1974096	0.27947277	2.3169129	20	1 15.1	21.1
288736 2004 RK_{48}	16.1	X	349.31013	186.42998	148.80619	6.24166	0.1703563	0.18431782	3.0579086	20	9 10.1	19.2
288737 2004 RV_{51}	17.4	X	184.41504	233.77631	126.42759	3.59171	0.1329104	0.28424062	2.2909307	20	3 5.9	20.7
288738 2004 RY_{52}	17.4	X	257.11443	182.43947	141.84739	2.20035	0.1879555	0.29236800	2.2482753	20	3 27.6	20.6
288739 2004 RM_{55}	15.9	X	33.78612	135.71088	187.43793	10.69432	0.0713184	0.19056799	2.9906764	20	10 27.5	20.0
288740 2004 RR_{55}	16.1	X	267.03345	133.88450	179.92500	14.70362	0.1336234	0.23043543	2.6349348	20	4 4.5	19.8
288741 2004 RA_{56}	15.6	X	3.43865	344.00422	318.67895	7.75635	0.0530641	0.18141177	3.0904786	20	8 14.1	19.6
288742 2004 RX_{57}	17.6	X	130.30106	162.68948	208.60249	4.95861	0.1925185	0.27628950	2.3346752	20	1 27.7	20.8
288743 2004 RO_{58}	17.1	X	192.45224	181.09189	132.39531	4.13068	0.1945110	0.27938566	2.3173945	20	1 16.7	20.8
288744 2004 RH_{60}	17.0	X	269.67527	356.79311	331.76733	4.03060	0.1304620	0.29498938	2.2349362	20	4 20.9	20.0
288745 2004 RE_{62}	17.0	X	135.28886	228.63159	170.13166	7.52371	0.1049797	0.28119761	2.3074287	20	2 27.5	20.0
288746 2004 RL_{64}	17.3	X	161.64384	45.75136	328.15313	2.64659	0.1285490	0.28172005	2.3045752	20	2 27.7	20.6
288747 2004 RN_{64}	17.8	X	146.69489	168.16454	197.97828	1.61295	0.2131137	0.27777517	2.3263431	20	2 10.6	21.4
288748 2004 RT_{64}	17.4	X	290.15407	165.80640	176.02416	6.90215	0.1997115	0.29998250	2.2100670	20	5 31.4	19.8
288749 2004 RM_{65}	17.4	X	194.45085	146.82188	151.22969	2.55982	0.2142383	0.27808718	2.3246027	20	—	—
288750 2004 RD_{66}	17.1	X	155.60041	189.60181	179.97360	6.29618	0.1273296	0.27984235	2.3148726	20	2 14.6	20.3
288751 2004 RM_{67}	16.4	X	9.27407	335.62402	355.73097	3.28800	0.0963388	0.18752167	3.0229786	20	10 3.4	20.2
288752 2004 RQ_{67}	16.9	X	187.76768	323.00919	352.76597	6.23931	0.1272477	0.27788565	2.3257265	20	1 13.7	20.3
288753 2004 RB_{70}	16.0	X	300.86725	262.78073	131.31323	5.78851	0.1339454	0.18336619	3.0684794	20	9 4.6	19.8
288754 2004 RV_{73}	17.1	X	42.62596	202.67330	188.19397	5.68695	0.1210217	0.26444416	2.4038834	20	—	—
288755 2004 RX_{73}	17.2	X	301.62482	289.40808	27.16608	6.34143	0.2042257	0.29875085	2.2161371	20	5 7.7	19.5
288756 2004 RZ_{74}	17.4	X	206.03675	256.27157	32.01409	4.70972	0.2648629	0.27900739	2.3194886	20	—	—
288757 2004 RG_{80}	17.1	X	333.51904	128.25984	166.50051	6.07883	0.1404360	0.24058830	2.5602736	20	6 16.0	19.8
288758 2004 RS_{80}	16.6	X	281.54003	279.26288	0.69359	3.42387	0.2265411	0.22864017	2.6487097	20	2 26.2	20.5
288759 2004 RD_{81}	14.9	X	150.98299	2.35146	344.06682	8.63366	0.1080630	0.15079167	3.4958367	20	1 29.8	20.3
288760 2004 RQ_{81}	15.6	X	335.03749	243.63708	162.77304	9.58775	0.0595208	0.19223928	2.9733176	20	11 19.8	19.6
288761 2004 RD_{83}	17.3	X	63.40916	339.89229	16.54107	1.11052	0.1949753	0.26233347	2.4167603	20	—	—
288762 2004 RM_{89}	17.4	X	212.04960	132.42638	194.89296	6.80939	0.1591287	0.28656583	2.2785214	20	2 16.9	21.0
288763 2004 RC_{92}	15.7	X	300.91352	165.63044	202.63033	9.50385	0.0829051	0.18178834	3.0862093	20	8 3.2	19.9
288764 2004 RF_{92}	16.2	X	93.18246	345.59180	326.08373	7.40480	0.1589068	0.20006183	2.8952977	20	12 30.8	20.8
288765 2004 RK_{93}	17.5	X	217.39240	53.53915	240.45863	4.48603	0.1825392	0.28269299	2.2992844	20	1 13.0	21.1
288766 2004 RB_{94}	16.6	X	159.34882	67.61295	308.32089	8.13684	0.1599228	0.22016053	2.7162917	20	3 4.1	20.9
288767 2004 RY_{94}	17.1	X	124.13804	147.50129	216.92969	5.18389	0.1383464	0.27491058	2.3424756	20	1 4.5	20.0
288768 2004 RD_{95}	17.0	X	137.76956	198.21609	208.37629	7.11525	0.3292403	0.28197738	2.3031728	20	4 2.5	20.8
288769 2004 RU_{95}	16.2	X	170.29905	201.32079	166.90239	22.93581	0.0733380	0.22241132	2.6979349	20	3 2.5	20.0
288770 2004 RN_{96}	17.7	X	218.71611	150.46667	230.01864	4.33543	0.1371383	0.29369814	2.2414820	20	5 4.6	20.8
288771 2004 RT_{96}	16.3	X	258.67433	37.82068	318.76255	14.07990	0.1129178	0.23396072	2.6083993	20	5 17.9	20.3
288772 2004 RD_{98}	17.2	X	89.09011	10.46365	310.43782	6.57420	0.1372937	0.26300244	2.4126604	20	—	—
288773 2004 RN_{98}	15.9	X	27.21388	163.82823	212.16362	4.70196	0.1215894	0.19694146	2.9257998	20	12 29.9	19.8
288774 2004 RJ_{99}	16.0	X	295.02646	181.19925	191.15678	5.34473	0.1726641	0.17870382	3.1216208	20	7 19.4	20.2
288775 2004 RR_{99}	15.5	X	315.40972	132.69941	181.47935	21.81358	0.1045576	0.17539125	3.1608030	20	6 14.7	20.0
288776 2004 RZ_{99}	15.8	X	293.24501	197.24200	182.31061	16.76319	0.2167598	0.17888147	3.1195538	20	7 18.0	20.2
288777 2004 RM_{100}	15.7	X	290.23732	200.81022	177.19169	17.50859	0.2324659	0.17799628	3.1298877	20	7 9.8	20.2
288778 2004 RO_{101}	16.1	X	308.57215	51.47978	326.05517	6.48111	0.2266788	0.18086127	3.0967466	20	8 11.9	19.4
288779 2004 RN_{102}	17.6	X	67.79390	85.50959	290.19921	1.95372	0.2256780	0.26536028	2.3983475	20	—	—
288780 2004 RW_{102}	15.9	X	249.78133	70.36064	292.27579	5.17305	0.0835586	0.17109867	3.2134506	20	5 22.7	20.6
288781 2004 RP_{107}	16.9	X	106.73459	68.89073	345.00050	8.24250	0.1227134	0.27746922	2.3280529	20	2 16.3	19.6
288782 2004 RF_{108}	15.7	X	289.88848	94.87368	290.53002	8.31641	0.1114294	0.18053631	3.1004615	20	8 6.9	19.9
288783 2004 RL_{108}	18.1	X	135.62029	77.89719	319.01881	9.15261	0.2835992	0.27950015	2.3167616	20	3 13.5	21.8
288784 2004 RA_{122}	17.9	X	33.82502	12.76994	35.71727	1.88251	0.1780651	0.26478629	2.4018122	20	—	—
288785 2004 RH_{123}	16.4	X	340.54326	182.59558	135.92986	5.02143	0.0517560	0.18014911	3.1049025	20	8 1.3	20.3
288786 2004 RX_{123}	16.3	X	148.73307	127.91861	321.16008	25.04731	0.1616032	0.29049546	2.2579266	20	5 19.7	20.4
288787 2004 RF_{124}	15.7	X	267.37306	293.31825	71.78431	13.70243	0.1933452	0.17318359	3.1876078	20	6 1.7	20.2
288788 2004 RH_{128}	16.4	X	228.39539	97.17416	178.16871	4.74172	0.1289039	0.21751077	2.7383074	20	1 9.5	20.8
288789 2004 RF_{138}	15.1	X	295.56466	38.18369	299.17047	20.16463	0.0814638	0.17562536	3.1579935	20	6 20.7	19.5
288790 2004 RQ_{140}	17.8	X	282.72366	129.70130	205.92992	2.58544	0.1906959	0.29845675	2.2175927	20	5 11.6	20.2
288791 2004 RM_{141}	14.9	X	50.42112	241.31077	350.83662	12.32745	0.0223172	0.17487454	3.1670263	20	7 18.3	19.5
288792 2004 RJ_{142}	16.3	X	32.36069	81.20771	247.58170	2.13161	0.1027959	0.19050706	2.9913139	20	11 4.1	20.3
288793 2004 RB_{143}	15.6	X	1.71601	60.77120	257.62964	10.57049	0.1036427	0.18264537	3.0765474	20	8 29.8	19.6
288794 2004 RS_{143}	17.2	X	28.48455	212.19961	167.30626	9.57298	0.2062475	0.25770952	2.4455830	20	—	—
288795 2004 RC_{149}	17.4	X	115.25283	287.04096	45.29806	3.90084	0.2422411	0.26786809	2.3833549	20	—	—
288796 2004 RF_{150}	16.9	X	234.75227	276.80695	129.90801	4.61952	0.2512138	0.23383636	2.6093241	20	6 15.7	21.2
288797 2004 RG_{151}	15.7	X	154.23837	350.15917	36.51885	9.86339	0.2695894	0.21632069	2.7483414	20	3 25.4	20.5
288798 2004 RQ_{152}	15.8	X	335.91084	109.69176	268.50034	9.69378	0.0615144	0.18957639	3.0010960	20	10 8.5	19.8
288799 2004 RA_{154}	16.8	X	317.77582	330.85264	285.57051	7.40211	0.1287378	0.29192078	2.2505709	20	3 14.7	19.4
288800 2004 RK_{155}	17.0	X	318.74134	329.29404	300.61260	6.20879	0.0886169	0.29341870	2.2429049	20	4 12.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288801 2004 RD_{156}	16.1	X	334.97663	127.31030	200.12008	9.69584	0.1761821	0.18031751	3.1029691	20	7 26.9	19.7
288802 2004 RF_{157}	17.2	X	61.41687	266.63000	330.11623	2.61599	0.1137739	0.30731683	2.1747624	20	9 2.1	19.6
288803 2004 RY_{157}	15.8	X	0.37147	87.58482	185.14358	12.45855	0.1243964	0.17723489	3.1388452	20	7 1.2	19.8
288804 2004 RO_{158}	17.2	X	132.61256	49.64172	315.81599	5.72341	0.0794181	0.27584987	2.3371551	20	1 9.3	20.1
288805 2004 RV_{158}	17.6	X	259.82152	105.58289	329.47926	4.55988	0.0836041	0.30835144	2.1698950	20	9 23.1	19.8
288806 2004 RB_{163}	17.1	X	271.09387	248.15796	332.36107	4.30260	0.2181306	0.27969152	2.3157048	20	—	—
288807 2004 RW_{164}	18.5	X	99.77455	342.83198	164.94387	36.77373	0.3766909	0.54189267	1.4900261	20	7 25.3	21.3
288808 2004 RV_{167}	15.4	X	275.72568	258.41395	87.40263	19.66590	0.1728086	0.17121658	3.2119751	20	5 24.8	20.1
288809 2004 RA_{169}	17.8	X	181.65217	118.13320	200.70330	6.04637	0.1424568	0.27909883	2.3189819	20	1 9.8	21.4
288810 2004 RF_{169}	16.0	X	28.43570	229.03843	199.50117	14.70870	0.1303045	0.20364269	2.8612568	20	—	—
288811 2004 RP_{170}	17.3	X	202.40344	47.54292	272.67179	2.16628	0.1823772	0.28095216	2.3087725	20	2 1.6	20.8
288812 2004 RH_{172}	16.8	X	147.39197	23.93424	2.17716	5.22581	0.2189784	0.27831652	2.3233255	20	3 9.1	20.4
288813 2004 RO_{172}	16.6	X	287.29854	39.56837	279.14983	5.97348	0.1985727	0.23486369	2.6017095	20	4 22.3	20.1
288814 2004 RS_{174}	15.8	X	276.46278	221.83769	172.40828	28.18009	0.1696187	0.17979828	3.1089402	20	7 21.9	20.6
288815 2004 RM_{176}	15.8	X	258.82592	219.42532	196.58451	17.05879	0.1983341	0.17803678	3.1294131	20	7 21.8	20.7
288816 2004 RT_{177}	17.0	X	248.11272	83.28619	314.58559	8.65409	0.0948269	0.30068297	2.2066333	20	7 10.7	19.6
288817 2004 RX_{177}	15.7	X	76.72309	166.89864	239.10562	8.14892	0.1604520	0.20867402	2.8150782	20	1 8.1	19.1
288818 2004 RB_{178}	15.7	X	233.74444	0.80711	268.45835	8.16348	0.0938819	0.21614399	2.7498390	20	1 8.9	19.9
288819 2004 RU_{179}	17.5	X	191.98605	23.98717	279.37245	6.34247	0.1608639	0.27745008	2.3281600	20	1 2.8	20.8
288820 2004 RZ_{179}	15.5	X	356.16225	12.55031	334.08679	8.35779	0.0877124	0.18665132	3.0323687	20	9 29.8	19.3
288821 2004 RF_{182}	16.9	X	240.48958	4.49310	333.07691	5.93935	0.1230947	0.29041827	2.2583266	20	3 30.4	20.2
288822 2004 RS_{183}	18.0	X	133.18390	86.83458	306.09945	3.25953	0.2441340	0.27796594	2.3252786	20	3 4.8	21.4
288823 2004 RW_{183}	17.0	X	120.80626	210.31265	196.75861	5.74513	0.1230984	0.27871775	2.3210953	20	2 22.3	19.9
288824 2004 RX_{184}	15.4	X	213.37142	188.73796	306.19098	8.42420	0.0466050	0.18635975	3.0355308	20	9 25.4	20.0
288825 2004 RN_{185}	15.9	X	275.99664	111.13311	258.49968	3.78087	0.1784878	0.17427136	3.1743298	20	6 19.7	20.5
288826 2004 RO_{185}	17.7	X	134.33708	75.35427	323.03245	5.32801	0.1807153	0.27962322	2.3160818	20	3 5.8	20.9
288827 2004 RO_{187}	16.7	X	140.26420	146.41839	232.92041	6.69555	0.1243325	0.27807700	2.3246594	20	2 8.4	20.0
288828 2004 RQ_{187}	17.1	X	185.32281	4.30139	298.25862	6.13089	0.1163303	0.27507196	2.3415593	20	—	—
288829 2004 RD_{188}	15.9	X	324.24950	93.36101	265.29643	5.56179	0.1661037	0.18093984	3.0958501	20	8 20.0	19.4
288830 2004 RA_{190}	17.3	X	308.13295	36.60761	320.50857	6.20374	0.1240238	0.30369918	2.1919988	20	8 11.8	18.9
288831 2004 RG_{190}	16.9	X	103.07044	101.34210	285.23819	6.16774	0.1130607	0.27178500	2.3604006	20	1 2.5	19.3
288832 2004 RM_{190}	15.1	X	314.72582	97.25620	255.37828	8.22866	0.1008097	0.17710521	3.1403772	20	8 1.0	19.2
288833 2004 RN_{190}	16.8	X	122.47182	102.92331	270.13987	5.94302	0.1292070	0.27309092	2.3528697	20	1 12.9	19.6
288834 2004 RX_{190}	15.7	X	335.39802	331.50547	350.48623	8.55708	0.2854721	0.17973851	3.1096293	20	7 15.8	18.6
288835 2004 RX_{192}	16.9	X	174.32753	57.81169	291.35796	3.71025	0.1740854	0.27975467	2.3153562	20	2 11.7	20.3
288836 2004 RV_{193}	17.1	X	215.68801	24.42786	302.07791	3.00744	0.1893712	0.28416900	2.2913156	20	2 20.3	20.9
288837 2004 RC_{195}	17.6	X	158.76147	12.37785	351.59843	5.02316	0.2132335	0.27862070	2.3216342	20	2 20.5	21.3
288838 2004 RL_{197}	16.9	X	95.11958	204.33322	216.94936	6.35903	0.0984940	0.27624158	2.3349451	20	2 1.9	19.6
288839 2004 RR_{197}	15.8	X	340.87572	77.48177	325.28078	10.19902	0.0886962	0.18898275	3.0073774	20	11 18.4	19.7
288840 2004 RO_{198}	15.6	X	274.77407	36.56629	336.02073	11.32554	0.0745779	0.17366967	3.1816572	20	7 9.4	20.2
288841 2004 RY_{201}	15.9	X	172.71978	4.07666	294.46854	11.55191	0.1790130	0.21250444	2.7811477	20	—	—
288842 2004 RO_{202}	15.5	X	10.13518	115.65594	264.88395	8.73244	0.0860182	0.19214936	2.9742451	20	12 6.7	19.4
288843 2004 RX_{202}	17.4	X	1.94733	224.61654	162.14777	6.44492	0.1075524	0.25664530	2.4523390	20	12 24.5	20.3
288844 2004 RX_{203}	15.4	X	235.86497	337.56348	307.93397	24.22238	0.1177104	0.21989063	2.7185139	20	1 29.2	19.6
288845 2004 RH_{204}	16.3	X	325.57956	94.38858	218.92012	9.41040	0.2390347	0.17780736	3.1321044	20	6 12.9	19.7
288846 2004 RQ_{204}	15.6	X	238.15373	273.86253	327.26123	12.62149	0.1707453	0.21340167	2.7733467	20	—	—
288847 2004 RT_{204}	15.5	X	13.66231	299.22949	309.12895	7.55441	0.1369863	0.17494641	3.1661588	20	6 23.4	19.2
288848 2004 RW_{204}	17.3	X	242.67980	311.78793	326.28734	6.01135	0.1862529	0.28363376	2.2941973	20	1 16.9	20.9
288849 2004 RN_{205}	17.2	X	180.14724	284.74414	50.85898	8.22310	0.2765349	0.27960111	2.3162039	20	2 9.3	21.3
288850 2004 RU_{205}	15.4	X	336.24750	5.76201	279.44401	9.42065	0.1954586	0.17615146	3.1517025	20	5 30.8	19.0
288851 2004 RW_{205}	17.2	X	186.03219	69.68147	312.21428	4.23687	0.1498323	0.28717364	2.2753052	20	4 1.5	20.6
288852 2004 RJ_{207}	15.6	X	182.45840	42.95864	248.57665	12.93021	0.0554134	0.21161941	2.7888964	20	—	—
288853 2004 RC_{208}	15.1	X	333.96443	30.52484	259.92995	15.64756	0.1940211	0.17619266	3.1512111	20	6 3.3	18.5
288854 2004 RS_{208}	17.0	X	353.18070	32.74252	261.45320	8.82082	0.2863863	0.24510896	2.5286959	20	7 29.8	18.6
288855 2004 RZ_{212}	16.4	X	328.33754	10.26669	290.67952	11.71239	0.2697320	0.23943396	2.5684959	20	5 25.2	18.8
288856 2004 RT_{213}	15.2	X	354.94186	84.48781	241.09782	17.13829	0.1060357	0.18093371	3.0959200	20	8 25.4	19.4
288857 2004 RG_{214}	15.3	X	264.26428	140.30168	238.85534	13.86108	0.1411553	0.17345428	3.1842906	20	6 21.8	20.0
288858 2004 RO_{217}	14.9	X	333.84251	15.94211	326.33799	15.29150	0.1093940	0.17892359	3.1190642	20	8 20.5	18.5
288859 2004 RY_{219}	15.5	X	319.12780	43.77890	279.58530	13.27950	0.2877015	0.17568686	3.1572565	20	6 6.3	19.1
288860 2004 RQ_{222}	16.3	X	123.35229	255.67247	184.53901	23.76062	0.2741629	0.28373996	2.2936248	20	5 1.6	20.2
288861 2004 RS_{224}	16.3	X	25.85585	325.70921	359.03528	1.16054	0.1730085	0.19102604	2.9858937	20	10 31.1	19.9
288862 2004 RK_{225}	17.0	X	261.44615	275.21795	333.93401	1.58957	0.2142571	0.28156621	2.3054145	20	—	—
288863 2004 RQ_{225}	16.2	X	262.80495	165.20306	146.58547	3.71777	0.1224777	0.22779864	2.6552289	20	3 29.6	20.1
288864 2004 RS_{226}	16.8	X	168.16594	8.85285	10.70992	11.39885	0.1762975	0.28142078	2.3062087	20	3 17.9	20.3
288865 2004 RW_{227}	15.6	X	283.82384	49.71861	5.10878	9.85776	0.0996401	0.18027029	3.1035109	20	9 11.1	19.6
288866 2004 RA_{228}	15.3	X	156.66261	306.51931	211.65744	9.15829	0.0714737	0.17659598	3.1464114	20	8 20.6	20.2
288867 2004 RU_{229}	17.3	X	354.32505	60.56611	358.15144	4.15825	0.1453058	0.25630342	2.4545193	20	—	—
288868 2004 RD_{231}	16.4	X	252.96876	277.01736	14.45904	4.80259	0.1387029	0.22033823	2.7148311	20	2 22.4	20.5
288869 2004 RN_{231}	16.2	X	274.63525	70.22523	16.15980	9.36686	0.1948508	0.18281354	3.0746604	20	9 24.6	20.2
288870 2004 RV_{231}	15.5	X	249.15958	53.50233	16.75495	11.34517	0.0665429	0.17723752	3.1388142	20	8 23.8	20.1
288871 2004 RR_{232}	17.4	X	280.24550	119.22210	168.65519	1.80379	0.1708012	0.28851009	2.2682733	20	3 5.9	20.4
288872 2004 RR_{233}	16.4	X	264.05470	248.74884	148.02867	1.60311	0.1797196	0.17299620	3.1899094	20	7 9.3	21.1
288873 2004 RY_{233}	17.0	X	278.79289	199.69008	79.85751	1.31972	0.1787237	0.28705635	2.2759250	20	2 22.3	20.0
288874 2004 RJ_{235}	15.7	X	81.91020	59.14777	215.34360	11.90552	0.1378465	0.19054220	2.9909462	20	11 2.1	20.1
288875 2004 RH_{236}	15.2	X	257.48859	105.18366	257.27181	7.16198	0.0497160	0.16946391	3.2340835	20	6 5.9	19.8
288876 2004 RS_{238}	16.2	X	44.44330	137.55566	178.27908	12.10354	0.0965000	0.19044392	2.9919751	20	11 5.7	20.4
288877 2004 RM_{239}	17.5	X	185.92764	264.97041	182.95313	5.07786	0.1891111	0.23292373	2.6161355	20	6 27.8	21.9
288878 2004 RE_{241}	17.5	X	306.24202	145.02294	350.31979	2.65063	0.1791111	0.26388312	2.4072894	20	—	—
288879 2004 RN_{241}	16.5	X	340.04218	247.69919	169.64752	2.02239	0.0955000	0.19433379	2.9519149	20	12 10.9	20.0
288880 2004 RH_{242}	16.7	X	255.38076	263.93665	171.05601	1.84470	0.0931892	0.18210587	3.0826207	20	8 29.1	20.8

Planet		H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
		m		°	°	°	°		°				
288881	2004 RM_{243}	17.2	X	277.01090	305.79178	13.42506	3.52401	0.0762578	0.23151420	2.6267433	20	4 29.9	20.8
288882	2004 RL_{245}	16.4	X	206.88309	196.24830	25.31994	3.37759	0.0389033	0.20190815	2.8776202	20	—	—
288883	2004 RR_{245}	16.7	X	217.04517	203.44080	82.75295	1.97198	0.0666250	0.21552020	2.7551425	20	1 13.7	20.6
288884	2004 RU_{246}	15.9	X	250.66579	167.67022	246.16693	9.68028	0.2090483	0.17479913	3.1679370	20	7 10.7	20.8
288885	2004 RW_{247}	15.3	X	268.50144	55.94866	311.86326	26.16585	0.2367138	0.17317915	3.1876623	20	5 30.4	20.6
288886	2004 RV_{250}	17.7	X	120.21919	126.13522	271.17353	1.03266	0.2324755	0.27571423	2.3379215	20	2 25.5	20.8
288887	2004 RZ_{254}	16.2	X	241.64463	268.46837	138.86753	15.07116	0.1091265	0.23717374	2.5847883	20	7 8.9	20.1
288888	2004 RZ_{255}	15.5	X	308.90766	121.75388	156.07403	10.23026	0.1394897	0.17076127	3.2176821	20	4 16.7	19.8
288889	2004 RR_{266}	16.5	X	153.43120	20.09236	322.26300	4.55971	0.0545879	0.21347105	2.7727458	20	1 12.5	20.3
288890	2004 RR_{274}	15.7	X	359.21572	352.65917	293.91481	11.36496	0.1501738	0.17842521	3.1248697	20	7 20.0	19.0
288891	2004 RW_{276}	16.9	X	311.41575	111.28688	356.75048	5.92993	0.0794017	0.26401109	2.4065115	20	—	—
288892	2004 RU_{287}	17.6	X	122.25678	342.08073	40.34973	1.41960	0.2114050	0.27334140	2.3514321	20	2 7.0	20.7
288893	2004 RJ_{290}	16.1	X	174.46402	259.80083	101.27310	5.85780	0.1750326	0.21937673	2.7227578	20	3 6.0	20.6
288894	2004 RM_{291}	16.1	X	96.47100	175.87019	184.72762	15.48963	0.1456244	0.20537484	2.8451460	20	—	—
288895	2004 RJ_{296}	16.2	X	113.96003	201.86076	328.71771	2.38547	0.0214420	0.17467314	3.1694602	20	7 17.6	20.7
288896	2004 RQ_{304}	17.0	X	20.88449	195.15810	303.30280	4.86304	0.0663249	0.27978650	2.3151806	20	1 21.6	19.5
288897	2004 RJ_{306}	16.8	X	123.55718	233.91720	139.49090	6.02322	0.1424946	0.27275352	2.3548097	20	1 17.0	19.7
288898	2004 RL_{306}	16.9	X	121.65979	323.61234	180.46255	22.11432	0.0660280	0.35684274	1.9685728	20	7 3.6	19.8
288899	2004 RR_{308}	17.0	X	123.74895	39.02756	336.61202	9.45821	0.2189110	0.27392729	2.3480780	20	2 2.2	20.1
288900	2004 RW_{309}	16.1	X	305.42278	227.74085	101.32223	6.71150	0.1927558	0.17594906	3.1541190	20	6 6.3	20.1
288901	2004 RC_{311}	17.4	X	286.58794	171.34635	134.94713	2.15044	0.2249866	0.29321202	2.2439587	20	3 31.6	20.4
288902	2004 RR_{320}	16.6	X	112.37813	92.05603	327.27764	7.22840	0.0769614	0.27950059	2.3167592	20	2 22.0	19.2
288903	2004 RW_{320}	15.8	X	61.88752	9.72272	281.94253	6.29606	0.0381384	0.18782536	3.0197192	20	10 14.3	20.2
288904	2004 RP_{321}	17.1	X	56.84938	181.35472	210.96242	3.25950	0.1833861	0.26455092	2.4032366	20	—	—
288905	2004 RS_{323}	16.9	X	78.79729	195.78133	209.61461	5.97120	0.1152574	0.27066444	2.3669109	20	—	—
288906	2004 RJ_{327}	16.7	X	119.89156	64.30234	228.99764	5.79424	0.1238981	0.26214883	2.4178950	20	—	—
288907	2004 RX_{329}	16.9	X	116.06676	230.98078	99.45289	12.75360	0.2170682	0.26757164	2.3851150	20	—	—
288908	2004 RC_{331}	17.4	X	202.11224	266.50647	13.18886	4.69892	0.1325489	0.27503507	2.3417687	20	—	—
288909	2004 RK_{345}	16.5	X	173.29086	13.72939	296.23779	4.00276	0.1476959	0.21230776	2.7828650	20	1 1.9	21.0
288910	2004 RB_{346}	17.4	X	87.29312	10.01047	74.30156	6.96222	0.2487151	0.27605586	2.3359923	20	3 25.3	20.1
288911	2004 RK_{346}	15.8	X	100.98912	261.65408	62.51814	9.29157	0.1318020	0.20051473	2.8909364	20	—	—
288912	2004 RB_{356}	16.4	X	37.95041	341.88039	21.67709	10.14043	0.0658345	0.19272039	2.9683671	20	12 19.2	20.6
288913	2004 ST	16.3	X	313.76968	254.60964	35.68225	13.16539	0.2705905	0.23405982	2.6076630	20	4 13.9	19.2
288914	2004 SX	19.0	X	206.57370	258.55807	178.58121	15.27940	0.3273014	0.42032544	1.7650036	20	6 29.5	22.2
288915	2004 SL_{3}	17.1	X	48.58158	158.53623	194.42861	7.57741	0.0846228	0.25885908	2.4383373	20	—	—
288916	2004 SK_{6}	17.3	X	218.57821	37.44032	201.07692	0.96794	0.1869362	0.27151085	2.3619893	20	—	—
288917	2004 SY_{8}	15.8	X	265.94400	185.32997	206.22854	5.46178	0.1612249	0.17490570	3.1666500	20	7 6.9	20.4
288918	2004 SV_{9}	16.4	X	236.17151	312.57441	3.75487	12.53260	0.1201553	0.22471870	2.6794351	20	3 8.7	20.5
288919	2004 SS_{10}	15.8	X	60.71340	334.76773	55.19858	10.20321	0.1372337	0.20457024	2.8526013	20	—	—
288920	2004 SG_{14}	17.0	X	236.24214	305.31815	59.50859	8.36053	0.1542758	0.29280484	2.2460386	20	5 2.4	20.1
288921	2004 SQ_{14}	15.6	X	317.25416	247.01452	137.78147	12.51584	0.0976871	0.18341480	3.0679372	20	9 24.6	19.5
288922	2004 SE_{16}	17.4	X	97.07656	271.79974	77.36273	5.65990	0.2489467	0.26696902	2.3887029	20	—	—
288923	2004 SK_{17}	17.0	X	147.32653	297.08871	66.40886	8.11621	0.1474931	0.27722496	2.3294201	20	2 4.2	20.3
288924	2004 SR_{18}	15.6	X	52.88870	100.64478	225.94510	8.15907	0.0265761	0.19235653	2.9721092	20	11 17.8	19.6
288925	2004 SS_{23}	17.1	X	201.88934	127.95827	190.31776	6.27466	0.1573191	0.27891139	2.3200208	20	1 28.4	20.8
288926	2004 SK_{25}	15.9	X	254.19408	230.38497	196.83007	9.82582	0.0350466	0.17764028	3.1340680	20	8 23.1	20.4
288927	2004 SC_{29}	16.5	X	53.53614	171.25901	189.19126	6.04971	0.2378041	0.19719900	2.9232519	20	—	—
288928	2004 SN_{29}	15.4	X	240.94088	90.71909	352.99764	8.89648	0.0624402	0.17989769	3.1077947	20	8 28.4	19.9
288929	2004 SG_{31}	16.6	X	173.45929	357.35762	22.06588	3.18524	0.2164437	0.22017358	2.7161844	20	3 26.4	21.2
288930	2004 SR_{31}	16.7	X	84.59441	73.32989	353.89920	7.01051	0.0809739	0.27567601	2.3381376	20	1 27.4	19.3
288931	2004 SH_{32}	17.5	X	194.52834	200.08848	149.16809	3.93607	0.2086563	0.28294574	2.2979149	20	3 2.8	21.1
288932	2004 SJ_{33}	15.3	X	298.64893	342.85145	40.03007	12.94225	0.2575824	0.17711193	3.1402979	20	7 31.4	19.3
288933	2004 SR_{35}	15.7	X	63.61670	224.04850	182.75361	16.61067	0.0758108	0.20371498	2.8605798	20	—	—
288934	2004 SW_{35}	16.6	X	294.48438	291.46512	288.09677	5.86091	0.1363587	0.28197214	2.3032014	20	—	—
288935	2004 SZ_{36}	16.3	X	71.65023	160.52970	240.03600	4.59992	0.0218779	0.20949779	2.8076939	20	—	—
288936	2004 SF_{39}	17.5	X	178.46403	125.67456	227.62442	1.74561	0.2345265	0.28051333	2.3111797	20	2 23.5	21.3
288937	2004 SL_{42}	17.4	X	158.31012	117.29233	294.09352	4.05872	0.1457731	0.28614347	2.2807630	20	4 12.3	20.7
288938	2004 SQ_{42}	17.3	X	123.74426	40.94083	328.23188	5.45689	0.1232822	0.27400281	2.3476465	20	1 9.8	20.2
288939	2004 SW_{42}	18.0	X	187.82294	102.10115	218.24253	4.23611	0.2558423	0.27983264	2.3149261	20	1 22.6	21.9
288940	2004 SH_{43}	16.4	X	284.44865	304.29006	339.41304	13.06268	0.0889221	0.22697098	2.6616799	20	3 19.4	20.2
288941	2004 SP_{43}	15.5	X	237.35214	125.28582	330.78687	10.13652	0.1300902	0.18138855	3.0907424	20	8 28.9	20.2
288942	2004 SK_{46}	15.6	X	20.61882	37.02461	268.22234	8.04732	0.1263365	0.18364507	3.0653721	20	9 15.3	19.6
288943	2004 SZ_{49}	17.3	X	268.32371	278.51979	129.11836	4.50010	0.2511152	0.24018111	2.5631665	20	7 22.2	20.6
288944	2004 SL_{51}	16.7	X	341.74537	204.21640	99.57799	3.95290	0.1526917	0.24087367	2.5582510	20	7 16.7	19.1
288945	2004 SS_{51}	17.6	X	97.68407	166.12887	242.84132	1.50074	0.1944653	0.27364256	2.3497065	20	2 6.5	20.2
288946	2004 SB_{52}	16.4	X	198.65864	166.29564	189.23908	9.80086	0.2781058	0.21978696	2.7193688	20	3 16.4	21.3
288947	2004 SK_{52}	17.3	X	77.39126	103.30083	309.80795	5.04826	0.1008892	0.27283683	2.3543303	20	—	—
288948	2004 SF_{53}	15.7	X	304.86324	116.41560	263.21377	9.50525	0.2014347	0.18022078	3.1040793	20	8 7.6	19.6
288949	2004 SN_{53}	17.5	X	160.46185	175.60965	171.84224	2.85347	0.2416856	0.27739243	2.3284825	20	2 2.4	21.1
288950	2004 SA_{56}	17.4	X	120.80423	259.89805	126.89381	2.97617	0.2310445	0.27447878	2.3449317	20	2 13.3	20.4
288951	2004 SV_{60}	15.3	X	333.54892	334.27555	69.62691	11.22463	0.0772708	0.19034527	2.9930088	20	11 13.6	19.1
288952	2004 SL_{61}	16.5	X	160.20099	233.69734	78.33811	7.26755	0.1451427	0.27102209	2.3648282	20	—	—
288953	2004 TR_{2}	17.7	X	158.78604	324.70641	348.18139	2.14750	0.2134780	0.27167607	2.3610315	20	—	—
288954	2004 TT_{3}	15.9	X	95.62254	240.83512	21.98876	9.83238	0.1085481	0.18745450	3.0237007	20	10 28.4	20.4
288955	2004 TO_{6}	15.9	X	293.43382	242.80113	113.24918	15.93128	0.1664676	0.23758465	2.5818071	20	6 30.6	18.9
288956	2004 TV_{6}	16.5	X	76.82204	295.45941	62.00345	9.07841	0.1473087	0.26362477	2.4088620	20	—	—
288957	2004 TJ_{9}	17.4	X	176.27238	153.34947	203.31210	2.53744	0.2271463	0.27877023	2.3208040	20	2 25.5	21.2
288958	2004 TE_{12}	16.4	X	355.96853	212.93698	115.21069	0.60657	0.3308339	0.18419549	3.0592624	20	9 28.2	18.5
288959	2004 TJ_{16}	16.9	X	117.89991	40.71106	354.30504	6.91682	0.1318105	0.27384296	2.3485600	20	2 8.2	19.9
288960	Steponasdarius	15.7	X	327.90236	53.64631	351.84480	9.03477	0.0865307	0.18596663	3.0398072	20	10 31.9	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
288961 Stasysgirėnas	15.8	X	177.81067	284.84932	23.56760	11.54942	0.1806889	0.20959234	2.8068494	20	1 7.6	20.6
288962 2004 TM_{23}	17.3	X	347.10200	309.05460	214.04566	6.46163	0.0568961	0.27528430	2.3403551	20	1 4.6	20.1
288963 2004 TL_{26}	16.5	X	256.75197	139.74689	328.73565	2.10027	0.2166435	0.18431270	3.0579652	20	9 24.3	20.9
288964 2004 TT_{27}	16.4	X	352.09073	4.27741	19.21066	3.14032	0.0848589	0.18932456	3.0037566	20	11 13.0	20.2
288965 2004 TX_{27}	15.2	X	189.47056	124.18891	16.95796	12.47379	0.0857431	0.18071403	3.0984284	20	9 10.9	20.0
288966 2004 TD_{28}	17.7	X	176.46193	248.63280	46.70990	1.90851	0.1821216	0.27271750	2.3550170	20	—	—
288967 2004 TX_{28}	15.8	X	338.00207	193.87993	169.58483	3.22023	0.0203965	0.18361031	3.0657590	20	9 26.4	20.0
288968 2004 TV_{29}	17.1	X	275.36786	115.16683	172.26581	5.11258	0.0976698	0.28735749	2.2743347	20	3 9.1	20.0
288969 2004 TP_{34}	15.8	X	68.30191	40.98143	209.77416	8.16605	0.0732591	0.17906426	3.1174305	20	9 5.1	20.3
288970 2004 TC_{38}	17.6	X	21.34823	175.36685	54.58697	1.37037	0.1027650	0.29345486	2.2427206	20	6 10.6	19.3
288971 2004 TC_{40}	17.6	X	349.01716	202.30740	210.96741	1.37583	0.1016297	0.19255055	2.9701123	20	12 19.1	21.1
288972 2004 TE_{41}	16.8	X	72.32043	4.72029	16.99845	9.15069	0.1958973	0.26395991	2.4068225	20	—	—
288973 2004 TQ_{41}	16.7	X	251.37474	0.61735	297.62136	2.91320	0.1968051	0.28417494	2.2912837	20	2 16.3	20.3
288974 2004 TR_{41}	16.5	X	239.77766	132.25307	339.26739	3.43229	0.2018566	0.24178297	2.5518330	20	9 18.0	19.9
288975 2004 TK_{42}	17.5	X	135.75109	92.66708	312.66772	1.70147	0.2109733	0.27802689	2.3249387	20	3 20.2	21.0
288976 2004 TO_{42}	17.2	X	269.85870	249.50142	357.00583	3.87071	0.0953677	0.27516740	2.3410179	20	1 11.4	20.5
288977 2004 TM_{45}	17.2	X	253.13487	163.64930	270.50076	0.73391	0.1900479	0.23898341	2.5717231	20	8 17.0	20.8
288978 2004 TW_{47}	16.2	X	22.58967	302.56049	39.58959	4.26255	0.0189318	0.18508720	3.0494286	20	10 27.5	20.5
288979 2004 TY_{48}	16.3	X	261.08440	274.53637	146.50517	1.50114	0.1257815	0.17582954	3.1555483	20	8 13.3	20.7
288980 2004 TG_{49}	17.6	X	158.91638	15.82156	55.54164	2.86541	0.1504739	0.28577908	2.2827013	20	5 12.0	20.8
288981 2004 TH_{50}	15.6	X	251.14564	67.90598	354.64037	4.80817	0.1625090	0.17234140	3.1979841	20	7 30.6	20.3
288982 2004 TN_{50}	17.0	X	94.22912	149.34178	246.29678	4.12820	0.1952685	0.26891898	2.3771417	20	1 14.4	19.4
288983 2004 TN_{51}	17.8	X	171.37580	72.34867	285.57229	1.32715	0.2280893	0.27828690	2.3234904	20	2 23.5	21.5
288984 2004 TZ_{52}	17.1	X	105.74062	26.65756	15.25392	2.66403	0.2194904	0.27170826	2.3608451	20	2 14.2	19.9
288985 2004 TE_{54}	16.9	X	286.19076	288.05843	52.36365	1.68336	0.1905045	0.23240679	2.6200133	20	5 23.9	20.2
288986 2004 TJ_{54}	15.6	X	65.94600	92.93820	214.97222	7.45694	0.0720383	0.18604764	3.0389247	20	11 16.0	20.0
288987 2004 TQ_{55}	17.5	X	247.60158	11.56674	41.64009	5.44318	0.1035396	0.29800071	2.2198545	20	8 1.3	20.2
288988 2004 TO_{58}	15.9	X	170.31325	137.95299	10.47345	4.11067	0.0095514	0.17936346	3.1139627	20	8 28.9	20.4
288989 2004 TC_{60}	15.4	X	197.25555	242.74200	200.94575	15.67522	0.0481214	0.17141445	3.2095028	20	7 4.9	20.4
288990 2004 TV_{60}	17.6	X	205.00875	189.76044	123.44360	2.90520	0.2246425	0.28102501	2.3083735	20	1 27.5	21.4
288991 2004 TW_{60}	15.2	X	282.16782	17.51219	23.64236	13.80034	0.0316912	0.17999760	3.1066446	20	9 4.9	19.6
288992 2004 TK_{61}	17.1	X	188.10758	247.43131	51.09888	3.12853	0.2121980	0.27609225	2.3357870	20	—	—
288993 2004 TW_{61}	15.8	X	243.52808	269.33194	22.99815	12.64534	0.1378764	0.22092109	2.7100539	20	2 18.2	20.2
288994 2004 TP_{63}	15.8	X	65.20332	272.24030	16.05723	5.23925	0.1413174	0.18643595	3.0347036	20	10 30.2	20.1
288995 2004 TY_{64}	16.1	X	171.19276	34.75261	73.97698	2.21383	0.0955774	0.16812922	3.2511768	20	7 9.0	21.2
288996 2004 TN_{66}	16.8	X	175.09764	318.48545	61.35016	7.55060	0.2321679	0.28239996	2.3008747	20	3 28.6	20.7
288997 2004 TL_{67}	17.1	X	119.21029	268.73995	105.26526	7.88681	0.2387823	0.27170960	2.3608373	20	1 27.7	20.2
288998 2004 TS_{67}	16.5	X	129.32875	257.84991	103.34736	7.68782	0.1494905	0.27145839	2.3622936	20	1 9.9	19.6
288999 2004 TU_{67}	17.1	X	254.98818	225.63230	108.45180	6.64100	0.2224503	0.29106208	2.2549952	20	4 6.8	20.6
289000 2004 TB_{71}	15.7	X	301.22077	29.98706	359.32021	10.29822	0.0833769	0.17985577	3.1082776	20	9 5.2	19.8
289001 2004 TV_{74}	15.9	X	241.86917	54.03461	35.47889	5.14142	0.1650867	0.17605266	3.1528816	20	8 23.8	20.6
289002 2004 TF_{75}	15.7	X	211.41113	259.75173	213.81575	8.75844	0.0017515	0.17655631	3.1468827	20	9 1.0	20.2
289003 2004 TS_{75}	16.8	X	165.15020	108.82841	219.62261	5.35500	0.1441816	0.27269554	2.3551434	20	1 6.5	20.2
289004 2004 TJ_{77}	16.8	X	199.07146	165.06808	217.69762	3.85988	0.1473856	0.28565911	2.2833404	20	4 17.3	20.3
289005 2004 TM_{79}	15.6	X	282.41502	75.67485	335.42255	8.09569	0.1465030	0.17945068	3.1129536	20	8 26.4	19.7
289006 2004 TD_{84}	18.5	X	103.87603	74.70132	3.00584	2.03182	0.1867345	0.27829010	2.3234725	20	3 24.5	21.2
289007 2004 TW_{86}	17.5	X	18.33308	160.54481	19.80427	2.32576	0.0753971	0.28384196	2.2930753	20	3 18.1	19.7
289008 2004 TG_{88}	15.9	X	181.33324	126.63430	21.23635	12.56098	0.0768995	0.18029239	3.1032573	20	9 11.5	20.7
289009 2004 TM_{91}	16.6	X	59.88672	150.64369	359.56780	4.76251	0.1526696	0.21840402	2.7308361	20	4 27.2	19.9
289010 2004 TD_{95}	17.6	X	221.29144	253.05792	213.65646	0.93448	0.0731363	0.24072804	2.5592827	20	9 6.6	21.2
289011 2004 TL_{102}	17.8	X	95.35400	237.55293	152.49683	1.27855	0.1837860	0.26887929	2.3773757	20	1 7.2	20.2
289012 2004 TM_{103}	15.2	X	218.24357	259.68506	208.40347	15.59856	0.1475460	0.17594773	3.1541349	20	8 17.0	20.5
289013 2004 TN_{103}	17.6	X	174.89616	173.52722	211.43590	2.17156	0.2458865	0.28315621	2.2967761	20	3 31.1	21.6
289014 2004 TW_{103}	16.8	X	327.05308	188.08787	211.27485	2.84756	0.1522408	0.18905182	3.0066449	20	10 25.7	20.2
289015 2004 TA_{106}	17.1	X	76.18658	4.34171	21.60060	7.54020	0.0765051	0.26778770	2.3838319	20	—	—
289016 2004 TQ_{107}	16.2	X	248.70782	275.95520	168.00990	2.41372	0.0120838	0.18140537	3.0905513	20	9 12.9	20.5
289017 2004 TW_{110}	17.1	X	103.85919	145.13604	252.49055	2.26875	0.1736892	0.27175031	2.3606015	20	1 27.8	19.8
289018 2004 TS_{113}	17.1	X	164.09854	297.96381	36.79884	6.79502	0.2179238	0.27375787	2.3490466	20	1 22.1	20.9
289019 2004 TR_{114}	15.3	X	92.90387	226.19599	17.10110	9.65498	0.0242505	0.18115470	3.0934016	20	9 24.1	19.7
289020 Ukmerge	17.2	X	77.07436	34.29672	3.08144	3.34880	0.1284742	0.26606541	2.3941082	20	—	—
289021 Juzeliunas	15.6	X	313.95157	123.98487	238.70610	9.48366	0.0983120	0.17552416	3.1592072	20	8 11.9	19.8
289022 2004 TN_{115}	15.7	X	137.33672	263.11912	60.56893	21.21777	0.3394939	0.26698663	2.3885979	20	—	—
289023 2004 TG_{116}	17.0	X	92.41695	172.66939	229.71020	6.35446	0.1128851	0.27158581	2.3615546	20	1 6.9	19.6
289024 2004 TS_{116}	16.6	X	75.72964	326.64615	46.26949	5.51789	0.2060652	0.26399111	2.4066329	20	—	—
289025 2004 TX_{119}	16.4	X	247.79353	210.04730	243.76220	10.91890	0.1487832	0.24352676	2.5396367	20	9 7.1	20.2
289026 2004 TU_{120}	17.1	X	210.11293	305.59689	32.01142	8.51791	0.1672921	0.28204755	2.3027909	20	3 5.1	20.8
289027 2004 TW_{120}	15.2	X	61.02838	314.21498	21.95565	10.36938	0.1898374	0.19214555	2.9742844	20	12 29.9	19.8
289028 2004 TP_{121}	17.2	X	49.73787	205.10792	224.42306	5.30168	0.1631386	0.26745779	2.3857918	20	—	—
289029 2004 TZ_{123}	16.9	X	181.59646	27.25260	22.86036	2.33887	0.2516340	0.22540532	2.6739910	20	5 7.9	21.7
289030 2004 TF_{127}	15.0	X	316.23236	305.25693	32.65019	12.14170	0.0791743	0.17539323	3.1607793	20	7 23.2	19.3
289031 2004 TJ_{127}	17.5	X	154.85775	239.44288	114.83166	4.74276	0.2175644	0.27679467	2.3318336	20	2 5.1	21.0
289032 2004 TL_{129}	15.2	X	55.44632	171.46632	151.82929	12.74916	0.0975122	0.19036284	2.9928246	20	11 28.8	19.7
289033 2004 TD_{131}	15.4	X	330.25975	316.22360	31.35393	10.73545	0.2262648	0.17803846	3.1293934	20	8 19.7	18.7
289034 2004 TJ_{133}	16.6	X	271.06915	144.83312	194.98372	6.28020	0.2740691	0.29395507	2.2401757	20	4 21.9	19.6
289035 2004 TR_{134}	15.7	X	202.23721	27.36557	5.35596	15.09240	0.1324897	0.16417795	3.3031338	20	5 2.4	21.1
289036 2004 TJ_{136}	16.5	X	255.51870	41.17883	334.40863	8.74401	0.1530388	0.23327029	2.6135436	20	6 6.1	20.4
289037 2004 TZ_{136}	16.6	X	146.50170	65.59932	272.42074	5.84169	0.1375745	0.27047087	2.3680401	20	—	—
289038 2004 TO_{138}	15.6	X	338.14265	56.39485	283.35043	9.32371	0.0995230	0.18007792	3.1057207	20	8 20.9	19.5
289039 2004 TC_{141}	17.0	X	259.21206	88.57120	194.99378	2.31124	0.1640001	0.22215347	2.7000221	20	2 14.2	21.1
289040 2004 TH_{145}	15.9	X	305.38882	102.69025	359.90622	11.89863	0.1093244	0.19293343	2.9661815	20	12 12.3	19.7

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289041 2004 TF_{146}	16.0	X	352.12990	198.09647	191.25983	5.70067	0.1780143	0.18844859	3.0130577	20	11 29.9	19.3
289042 2004 TW_{153}	16.5	X	43.06254	252.80079	35.64538	1.43659	0.1336309	0.18323908	3.0698983	20	10 2.5	20.5
289043 2004 TQ_{159}	17.8	X	306.07637	44.06827	280.61801	1.31802	0.1871697	0.29706362	2.2245204	20	6 2.1	19.6
289044 2004 TA_{160}	15.9	X	300.38979	218.38660	223.20640	6.81994	0.1292081	0.18543318	3.0456342	20	11 4.8	19.6
289045 2004 TZ_{160}	17.1	X	84.47781	11.14923	28.13190	5.70145	0.2302478	0.26799197	2.3826204	20	1 11.0	19.4
289046 2004 TM_{162}	17.5	X	171.97522	242.56364	40.93498	6.27593	0.1043796	0.26474054	2.4020889	20	—	—
289047 2004 TY_{163}	16.8	X	336.45222	10.16698	66.98530	2.89966	0.2161035	0.19058667	2.9904809	20	—	—
289048 2004 TP_{168}	16.5	X	38.96943	89.30229	44.26771	7.59599	0.0476880	0.27770534	2.3267331	20	2 17.0	19.2
289049 2004 TH_{170}	17.4	X	213.60527	302.87950	67.90211	8.03590	0.1552140	0.28782604	2.2718657	20	4 18.9	20.9
289050 2004 TN_{172}	15.3	X	16.26655	23.73858	342.11845	10.08824	0.0491141	0.18739318	3.0243603	20	11 18.1	19.5
289051 2004 TB_{176}	17.0	X	160.58462	132.17765	217.29684	4.10047	0.2110898	0.27524425	2.3405821	20	2 2.0	20.6
289052 2004 TW_{176}	16.3	X	293.46247	329.23795	8.65579	2.62729	0.0852199	0.17104362	3.2141401	20	6 15.7	20.7
289053 2004 TQ_{177}	15.9	X	39.08115	107.32893	196.01565	8.59810	0.0531017	0.18539697	3.0460308	20	10 4.2	20.0
289054 2004 TO_{180}	16.2	X	291.09624	205.80697	155.90286	1.65829	0.1451613	0.17536298	3.1611427	20	7 4.7	20.3
289055 2004 TA_{182}	16.4	X	211.46511	70.94496	17.97975	13.95273	0.2045287	0.23597683	2.5935212	20	7 26.4	20.9
289056 2004 TG_{185}	17.1	X	161.35946	90.83370	210.01031	6.52433	0.1251480	0.26911954	2.3759606	20	—	—
289057 2004 TY_{185}	16.7	X	273.55797	144.25153	331.91101	2.53524	0.0704608	0.18984401	2.9982749	20	11 16.6	20.8
289058 2004 TU_{190}	18.0	X	94.22999	243.74912	158.23896	1.19524	0.1825004	0.27179312	2.3603536	20	1 21.3	20.6
289059 2004 TE_{196}	15.3	X	204.34371	98.30912	22.58918	9.97250	0.1888627	0.17501304	3.1653551	20	8 25.4	20.6
289060 2004 TO_{199}	15.6	X	233.74963	264.67287	31.43094	13.08610	0.1615540	0.21733824	2.7397564	20	2 12.8	20.2
289061 2004 TA_{200}	15.9	X	138.22917	332.41769	196.76908	8.72652	0.0106724	0.17466968	3.1695020	20	8 11.0	20.5
289062 2004 TC_{200}	16.9	X	154.09548	287.17525	175.18788	3.22651	0.0700002	0.29101644	2.2552310	20	6 14.4	19.8
289063 2004 TR_{200}	15.9	X	157.92472	329.66035	155.24102	2.63906	0.0655796	0.16862647	3.2447822	20	7 14.0	20.7
289064 2004 TL_{204}	16.1	X	281.51571	126.66315	263.78851	1.15636	0.0913131	0.17260617	3.1947130	20	8 5.4	20.5
289065 2004 TM_{204}	16.9	X	250.02673	265.66054	35.74603	5.66358	0.1414221	0.28096307	2.3087127	20	2 26.6	20.3
289066 2004 TK_{207}	17.3	X	169.21197	294.62892	58.10386	2.91670	0.2174612	0.27638244	2.3341517	20	2 16.7	21.0
289067 2004 TV_{208}	17.5	X	27.94441	78.78308	355.42627	2.85141	0.1609273	0.26498634	2.4006032	20	—	—
289068 2004 TG_{209}	15.5	X	138.30668	6.59300	191.79544	9.64739	0.0640851	0.18329652	3.0692569	20	9 22.2	20.1
289069 2004 TU_{210}	17.3	X	182.64567	256.98116	335.23207	0.80162	0.1409668	0.25931459	2.4354810	20	12 29.1	20.7
289070 2004 TZ_{210}	16.7	X	322.95857	269.09324	21.97548	4.09852	0.3353641	0.23610578	2.5925768	20	4 16.7	19.3
289071 2004 TC_{211}	16.7	X	280.23544	199.60914	33.53334	3.16436	0.0202250	0.21242515	2.7818396	20	1 25.9	20.5
289072 2004 TN_{211}	16.9	X	190.73514	352.80259	355.60292	3.20240	0.1084030	0.21675901	2.7446351	20	3 2.1	21.0
289073 2004 TX_{212}	16.8	X	144.60760	292.83456	34.66667	5.84977	0.2429036	0.26967062	2.3727225	20	—	—
289074 2004 TE_{213}	16.2	X	274.55200	1.62997	65.82254	1.97787	0.1683248	0.17845309	3.1245441	20	9 3.0	20.3
289075 2004 TK_{213}	16.5	X	279.03391	191.48188	163.21130	1.48700	0.2214847	0.16979052	3.2299348	20	5 29.6	21.2
289076 2004 TF_{214}	16.3	X	0.89809	331.66332	34.40224	1.87304	0.1267097	0.18665463	3.0323329	20	11 7.7	19.7
289077 2004 TW_{217}	16.1	X	253.28963	247.59928	194.32419	5.20276	0.1428045	0.18007194	3.1057895	20	8 26.8	20.7
289078 2004 TT_{222}	16.2	X	358.81962	179.89882	180.50669	1.42372	0.0906879	0.18505337	3.0498001	20	10 25.0	20.0
289079 2004 TS_{237}	17.0	X	194.52690	296.39591	41.56577	5.79197	0.2051220	0.28027364	2.3124972	20	2 20.4	20.9
289080 2004 TA_{238}	16.0	X	239.63331	262.42229	30.45328	10.23606	0.1839435	0.21841360	2.7307562	20	2 11.5	20.6
289081 2004 TE_{241}	17.0	X	108.40837	42.90509	335.11989	5.95077	0.1518444	0.27024362	2.3693675	20	1 5.9	19.7
289082 2004 TZ_{241}	17.3	X	225.11093	69.56983	308.93975	6.63144	0.1202977	0.28904214	2.2654889	20	5 7.8	20.7
289083 2004 TP_{242}	15.5	X	328.74871	308.47959	35.84651	23.07092	0.2371808	0.18127106	3.0920777	20	8 19.2	19.2
289084 2004 TB_{243}	16.3	X	258.45022	321.86136	118.22069	13.91221	0.2135406	0.24186291	2.5512706	20	9 1.6	19.8
289085 Andreweil	17.5	X	88.56602	99.42430	12.15531	6.03117	0.1261611	0.28184549	2.3038913	20	4 9.2	20.2
289086 2004 TT_{252}	16.2	X	60.82255	111.75604	229.76335	0.87730	0.0519105	0.19439860	2.9512588	20	12 19.2	20.2
289087 2004 TB_{256}	16.7	X	41.47253	286.95537	81.76007	9.38558	0.1114830	0.25997018	2.4313848	20	—	—
289088 2004 TY_{258}	17.3	X	157.27866	80.91214	14.50534	3.69316	0.1166543	0.28986318	2.2612089	20	6 9.9	20.6
289089 2004 TH_{263}	16.6	X	87.68372	163.35000	25.58625	12.03841	0.1135311	0.23012754	2.6372845	20	7 28.6	20.5
289090 2004 TA_{269}	16.2	X	278.87251	298.29748	68.98792	2.25780	0.0848741	0.17025297	3.2240832	20	7 4.3	20.6
289091 2004 TQ_{272}	15.7	X	310.03942	169.78501	235.13070	10.14950	0.0973046	0.18101936	3.0949433	20	10 2.2	19.7
289092 2004 TP_{274}	17.9	X	124.45571	14.72948	13.25891	1.55931	0.1936507	0.27307016	2.3529890	20	2 14.4	20.9
289093 2004 TQ_{275}	17.8	X	181.67826	214.49910	221.63786	1.89521	0.1302851	0.28919596	2.2646855	20	6 10.6	20.9
289094 2004 TC_{277}	17.6	X	330.74394	218.64938	152.98542	1.25421	0.1903727	0.24395827	2.5366411	20	10 9.2	19.4
289095 2004 TF_{279}	15.8	X	222.98304	15.01967	65.80849	6.04682	0.1168078	0.17001496	3.2270916	20	7 27.9	20.8
289096 2004 TW_{294}	17.2	X	352.12270	140.53116	323.60649	1.69368	0.1542789	0.25932040	2.4354446	20	—	—
289097 2004 TG_{296}	16.6	X	130.03136	74.22651	227.27709	5.67266	0.1161540	0.25927135	2.4357518	20	—	—
289098 2004 TJ_{298}	17.8	X	116.13794	211.36824	171.38076	1.84214	0.2380501	0.27213384	2.3583831	20	2 3.1	20.7
289099 2004 TS_{301}	17.3	X	107.66049	83.47305	329.48584	6.98606	0.2833598	0.27196909	2.3593354	20	3 8.9	20.5
289100 2004 TR_{302}	17.3	X	123.65183	243.42553	117.05865	2.30442	0.2006201	0.27066208	2.3669247	20	1 9.4	20.3
289101 2004 TK_{305}	17.2	X	67.98304	25.03886	18.16660	7.36988	0.1132497	0.26848865	2.3796811	20	—	—
289102 2004 TK_{306}	16.4	X	21.86354	53.47244	313.80169	9.59671	0.1249167	0.19148274	2.9811440	20	12 11.2	20.4
289103 2004 TG_{308}	16.8	X	125.44356	219.70049	222.58734	5.26788	0.0576053	0.28400371	2.2922046	20	4 7.4	19.7
289104 2004 TB_{309}	17.7	X	202.20457	40.68782	231.22234	1.91572	0.1899106	0.27230125	2.3574164	20	—	—
289105 2004 TT_{309}	15.3	X	335.02972	130.67331	241.05031	8.64194	0.1176349	0.18162534	3.0880554	20	9 27.9	19.2
289106 2004 TK_{322}	16.8	X	160.86039	141.24347	239.95726	4.18316	0.1302829	0.27752255	2.3277546	20	3 6.0	20.2
289107 2004 TR_{322}	17.0	X	156.30836	62.20008	43.02773	6.43396	0.0498498	0.28942110	2.2635109	20	6 19.9	20.0
289108 2004 TX_{326}	15.7	X	314.10362	214.97087	247.38263	13.11079	0.0705155	0.19246427	2.9709999	20	12 26.7	19.6
289109 2004 TU_{327}	15.2	X	295.17809	325.83269	50.97805	10.57411	0.0457257	0.17905656	3.1175198	20	8 18.7	19.6
289110 2004 TL_{334}	16.3	X	152.56315	21.92109	353.90932	5.88844	0.0349671	0.21909014	2.7251317	20	2 19.7	20.2
289111 2004 TC_{337}	15.3	X	345.52588	232.23375	124.98496	12.82681	0.1377512	0.18183042	3.0857331	20	10 6.5	19.1
289112 2004 TR_{344}	16.8	X	82.93134	299.19882	55.71530	4.76222	0.1590933	0.26257796	2.4152599	20	—	—
289113 2004 TS_{344}	14.4	X	2.26270	7.72261	35.34758	3.32249	0.2600632	0.12608297	3.9388107	20	12 22.0	18.8
289114 2004 TK_{346}	17.4	X	229.75842	106.22880	298.32962	1.61883	0.1841425	0.23106737	2.6301285	20	6 13.7	21.4
289115 2004 TV_{347}	16.5	X	332.32722	22.45825	330.40267	0.35954	0.1986281	0.18417461	3.0594936	20	8 29.2	19.3
289116 2004 TQ_{354}	17.0	X	145.16687	311.09912	52.04579	6.19170	0.2523291	0.27353668	2.3503128	20	2 12.8	20.7
289117 2004 TV_{355}	15.8	X	217.19895	228.41148	91.45920	10.74835	0.1822373	0.21902031	2.7257109	20	2 23.7	20.5
289118 2004 TK_{357}	15.7	X	2.67585	245.93067	67.38747	11.29620	0.2283787	0.18244278	3.0788244	20	9 17.1	19.0
289119 2004 TF_{359}	15.2	X	348.40722	14.34241	28.32682	1.49471	0.1603122	0.12618002	3.9367907	20	11 18.7	19.8
289120 2004 TT_{360}	17.9	X	335.87706	94.33550	209.73546	3.68347	0.1533249	0.30191085	2.2006462	20	7 8.4	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289121 2004 TM_{367}	17.1	X	78.28010	168.69745	245.19500	6.79034	0.1009036	0.26856513	2.3792293	20	—	—
289122 2004 TY_{367}	17.9	X	37.74341	113.42074	166.04653	1.91004	0.2182071	0.30632759	2.1794419	20	10 19.1	20.2
289123 2004 UV	17.3	X	86.03629	329.27995	258.22645	18.07560	0.0676260	0.36621789	1.9348309	20	9 13.5	20.0
289124 2004 UE_1	15.9	X	322.75787	93.88367	232.73997	12.06495	0.3092304	0.17482912	3.1675747	20	6 14.4	19.2
289125 2004 UV_2	16.5	X	230.41815	202.96190	121.29586	7.81103	0.1466750	0.28503344	2.2866806	20	3 6.3	19.9
289126 2004 UW_2	16.2	X	147.48366	242.53548	119.00431	8.65716	0.2334629	0.21303531	2.7765254	20	2 15.6	20.7
289127 2004 UV_3	15.8	X	336.49118	98.07998	273.71255	14.71488	0.1210221	0.18493977	3.0510489	20	9 26.3	19.9
289128 2004 UZ_5	17.7	X	128.73470	162.58637	224.41490	1.28069	0.2229941	0.27409766	2.3471049	20	2 20.3	21.1
289129 2004 UL_6	17.1	X	99.51280	163.58731	236.62200	3.87855	0.1621409	0.26959606	2.3731600	20	1 23.0	19.7
289130 2004 UQ_7	15.5	X	322.86844	102.70337	254.48294	8.45912	0.1734856	0.17672255	3.1449089	20	8 12.7	19.2
289131 2004 UD_8	17.0	X	11.38561	214.73389	244.84425	5.72696	0.1468574	0.26230444	2.4169386	20	—	—
289132 2004 UO_8	15.9	X	353.67983	5.00988	15.19001	6.47280	0.1302632	0.18547905	3.0451321	20	11 12.8	19.6
289133 2004 UY_8	16.5	X	340.61783	30.77447	311.17853	14.62593	0.1496983	0.24257004	2.5463100	20	9 5.7	19.2
289134 2004 VL	16.4	X	65.11812	306.79978	55.80593	13.52005	0.2290510	0.26071751	2.4267363	20	—	—
289135 2004 VK_4	17.4	X	139.67893	154.79990	187.58557	1.76985	0.2419174	0.27115790	2.3640385	20	1 9.1	20.8
289136 2004 VN_4	15.1	X	117.30671	180.38202	214.69456	10.49564	0.0988543	0.14602389	3.5715230	20	2 13.9	20.5
289137 2004 VC_5	17.3	X	206.63571	18.77596	5.35001	2.78739	0.1653006	0.28685594	2.2769849	20	4 25.6	20.8
289138 2004 VM_7	17.3	X	118.84043	313.11410	120.72182	3.15362	0.2098754	0.27716992	2.3297285	20	4 11.0	20.5
289139 2004 VR_7	16.9	X	96.02320	15.35522	61.91059	7.25517	0.1614789	0.27410913	2.3470394	20	3 13.9	19.8
289140 2004 VW_7	17.6	X	277.84370	334.31493	68.89676	4.85747	0.1386405	0.30171970	2.2015756	20	8 28.9	19.8
289141 2004 VJ_8	17.0	X	104.65428	305.28722	139.49156	3.44441	0.2031722	0.27583460	2.3372413	20	4 8.4	20.0
289142 2004 VD_9	14.7	X	346.58256	257.14578	160.12943	8.06710	0.2988368	0.12378847	3.9873337	20	12 10.1	18.7
289143 2004 VH_{11}	14.6	X	324.71003	7.61771	74.56355	3.93452	0.2104431	0.12468150	3.9682714	20	11 23.9	19.1
289144 2004 VM_{12}	17.1	X	4.94429	295.54693	144.74560	3.26309	0.1428240	0.25837569	2.4413776	20	—	—
289145 2004 VK_{14}	15.1	X	264.02498	323.67840	69.48554	7.06855	0.1580708	0.16922659	3.2371065	20	7 8.1	19.8
289146 2004 VL_{14}	17.6	X	171.45675	266.54057	132.09497	1.08931	0.1717423	0.28176791	2.3043142	20	4 12.8	21.0
289147 2004 VU_{16}	15.7	X	268.71686	252.55514	170.38196	16.65506	0.2264565	0.17494308	3.1661990	20	8 8.5	20.5
289148 2004 VV_{16}	16.8	X	187.63115	306.69335	61.36344	5.61092	0.2195783	0.28042882	2.3116440	20	3 23.1	20.6
289149 2004 VU_{18}	17.5	X	34.69589	52.63031	23.24995	1.61163	0.1641670	0.26349267	2.4096670	20	—	—
289150 2004 VL_{20}	15.5	X	345.60185	316.38878	64.23111	11.05187	0.0786217	0.18352536	3.0667049	20	11 1.3	19.4
289151 2004 VA_{21}	17.6	X	64.80364	59.64868	359.21262	2.20876	0.1975279	0.26676901	2.3898967	20	—	—
289152 2004 VU_{21}	16.6	X	6.23961	8.36343	58.30409	7.18995	0.1195974	0.25639043	2.4539639	20	—	—
289153 2004 VR_{24}	17.1	X	114.50766	50.78648	344.99421	6.92021	0.1281983	0.27244665	2.3565776	20	2 4.1	19.9
289154 2004 VW_{24}	15.6	X	27.67309	84.45819	273.40794	5.34488	0.2028004	0.18833701	3.0142477	20	12 18.2	19.4
289155 2004 VB_{25}	17.5	X	133.54719	329.20327	34.33557	1.02882	0.2199934	0.27129416	2.3632468	20	1 27.4	20.8
289156 2004 VH_{25}	16.9	X	173.94276	72.65938	31.98069	13.12813	0.2274889	0.22690085	2.6622284	20	7 9.9	21.8
289157 2004 VO_{25}	15.3	X	287.77186	148.84234	259.59761	8.57017	0.0897909	0.17592606	3.1543939	20	9 2.6	19.7
289158 2004 VS_{25}	15.3	X	264.72920	351.89192	37.67318	9.15010	0.1487952	0.16955630	3.2329086	20	7 6.1	20.1
289159 2004 VZ_{26}	15.2	X	279.14101	359.58109	46.30586	28.02334	0.1661471	0.17405387	3.1769735	20	8 27.6	20.1
289160 2004 VT_{29}	15.7	X	249.41482	64.10217	61.01062	10.86045	0.1654027	0.18162064	3.0881087	20	10 17.5	20.2
289161 2004 VT_{35}	17.7	X	46.23363	6.59019	56.92406	2.06206	0.1851900	0.26216411	2.4178010	20	—	—
289162 2004 VH_{36}	16.8	X	217.82621	272.31945	40.72933	4.07000	0.0840625	0.21314239	2.7755954	20	2 17.4	21.0
289163 2004 VB_{37}	16.9	X	311.07247	103.03986	338.04373	0.74544	0.1260071	0.18626796	3.0365280	20	11 21.9	20.4
289164 2004 VZ_{45}	17.4	X	195.63677	207.73304	115.65351	3.44419	0.2378811	0.27653896	2.3332709	20	2 2.4	21.2
289165 2004 VD_{48}	15.2	X	191.72171	85.33637	69.22211	26.19494	0.2596831	0.17293159	3.1907039	20	10 1.3	21.2
289166 2004 VK_{52}	16.6	X	200.37757	329.44221	78.62047	7.22865	0.1590964	0.28768509	2.2726077	20	5 22.9	19.9
289167 2004 VC_{55}	17.0	X	148.06091	256.35726	42.32467	3.42309	0.1789083	0.26452770	2.4033772	20	—	—
289168 2004 VR_{56}	16.8	X	101.01296	169.26954	264.99774	4.55638	0.2208742	0.27383803	2.3485882	20	3 19.1	19.9
289169 2004 VG_{59}	17.4	X	116.37760	98.42617	342.02851	3.43492	0.1542060	0.27778918	2.3262649	20	4 7.0	20.5
289170 2004 VX_{59}	15.5	X	198.78307	278.48734	41.21941	15.06803	0.2741011	0.21372967	2.7705087	20	2 12.1	20.8
289171 2004 VT_{61}	17.8	X	100.88325	211.52588	194.60083	1.86023	0.2091453	0.27035378	2.3687238	20	2 10.2	20.6
289172 2004 VM_{63}	16.0	X	61.90038	265.80937	126.00116	3.50539	0.1549490	0.19849432	2.9105205	20	—	—
289173 2004 VR_{63}	17.5	X	106.06275	308.61208	93.09842	2.96887	0.1744635	0.27089868	2.3655463	20	2 7.2	20.3
289174 2004 VV_{64}	15.5	X	312.11466	301.60357	71.28846	11.44812	0.1508058	0.17464329	3.1698213	20	8 26.6	19.5
289175 2004 VV_{66}	17.0	X	181.52086	299.30737	195.81712	8.05637	0.1087124	0.23958809	2.5673942	20	8 24.1	21.0
289176 2004 VT_{70}	17.6	X	85.98092	93.30980	329.96554	0.64764	0.1707666	0.26971956	2.3724355	20	2 5.8	20.0
289177 2004 VU_{72}	17.1	X	109.66933	123.64141	278.42647	7.61660	0.1892919	0.27438747	2.3454519	20	2 10.7	20.2
289178 2004 VV_{72}	17.6	X	92.05269	95.81464	312.87777	6.20141	0.2138447	0.27169190	2.3609398	20	2 1.8	19.8
289179 2004 VT_{73}	15.3	X	291.50608	223.87935	175.29733	12.84792	0.1591055	0.17592823	3.1543681	20	8 19.7	19.4
289180 2004 VT_{74}	15.1	X	274.72469	320.80567	67.68090	18.97216	0.1275311	0.17099706	3.2147235	20	7 21.5	19.8
289181 2004 VY_{74}	15.7	X	211.90033	130.64396	224.09766	11.02919	0.2009968	0.22281216	2.6946981	20	3 24.2	20.3
289182 2004 VA_{75}	15.4	X	257.56885	233.71339	235.35048	9.73650	0.0455853	0.18269967	3.0759377	20	10 19.0	19.7
289183 2004 VE_{75}	15.6	X	93.34898	256.78022	273.09626	21.14037	0.2463127	0.27955981	2.3164320	20	7 20.1	19.2
289184 2004 VV_{76}	16.7	X	230.45284	19.65703	72.66524	7.45614	0.2730051	0.23509060	2.6000351	20	8 8.9	21.0
289185 2004 VY_{77}	17.0	X	145.07401	125.45290	296.39662	6.50189	0.0657674	0.28369078	2.2938899	20	4 2.8	20.1
289186 2004 VG_{78}	15.1	X	270.36415	279.19936	88.92194	27.50610	0.1960885	0.17362782	3.1821685	20	6 10.5	19.7
289187 2004 VB_{84}	16.2	X	292.45967	312.12225	67.14981	3.82709	0.1149067	0.17312435	3.1883350	20	8 4.4	20.4
289188 2004 VH_{84}	15.0	X	334.33315	275.59739	167.64375	3.12980	0.1966589	0.12524695	3.9563188	20	12 13.7	19.5
289189 2004 VQ_{85}	17.2	X	287.39745	4.96116	233.35624	3.91821	0.1093564	0.27118356	2.3638893	20	1 18.4	20.4
289190 2004 VO_{91}	17.2	X	147.70514	201.38729	170.97079	5.37413	0.2304257	0.27533500	2.3400678	20	2 20.9	20.9
289191 2004 WE_1	17.9	X	63.59916	203.56431	231.19718	0.80393	0.1620960	0.26714095	2.3876779	20	1 11.8	20.1
289192 2004 WT_5	17.9	X	49.30526	277.08451	203.93509	1.80120	0.1428604	0.27138920	2.3626951	20	2 18.7	20.1
289193 2004 WF_6	17.2	X	57.35056	44.26366	20.91283	5.33371	0.2137483	0.26522617	2.3991559	20	—	—
289194 2004 WC_{11}	17.4	X	180.69257	61.31914	34.97237	5.22635	0.1419630	0.22506472	2.6766881	20	7 5.0	21.7
289195 2004 WL_{11}	17.1	X	143.54316	292.40255	110.39015	3.75909	0.2216315	0.27837712	2.3229883	20	3 28.0	20.7
289196 2004 WL_{12}	16.6	X	96.94808	141.36787	298.26167	6.29935	0.0988585	0.27357115	2.3501154	20	3 1.3	19.5
289197 2004 XY_1	16.0	X	320.24054	138.38588	271.39260	12.17845	0.3072465	0.18381755	3.0634543	20	10 7.3	19.0
289198 2004 XZ_4	16.5	X	332.56174	197.46238	269.59573	8.43833	0.0443520	0.25578562	2.4578307	20	—	—
289199 2004 XC_5	16.5	X	166.06427	36.59610	50.90818	5.68580	0.1397115	0.22226636	2.6991077	20	6 8.6	20.9
289200 2004 XN_5	16.7	X	264.69349	267.82706	76.79982	6.85699	0.2232386	0.28998494	2.2605759	20	4 29.4	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289201 2004 XV_{5}	17.7	X	103.47333	0.90682	69.96777	3.15835	0.1782351	0.27330123	2.3516625	20	3 15.6	20.5
289202 2004 XH_{6}	16.9	X	109.52316	167.95578	258.05012	1.61497	0.1728598	0.27235030	2.3571333	20	3 13.4	19.8
289203 2004 XU_{7}	16.8	X	226.46371	175.36206	230.13530	3.67584	0.1874856	0.22712996	2.6604377	20	6 11.5	20.9
289204 2004 XL_{9}	17.2	X	109.91884	104.37511	298.39216	2.32851	0.1327077	0.26966604	2.3727494	20	2 6.4	20.0
289205 2004 XA_{12}	16.3	X	28.83405	234.96449	269.53154	5.34686	0.0743297	0.27114652	2.3641046	20	2 11.4	18.8
289206 2004 XJ_{12}	17.0	X	153.04282	6.33888	71.57317	3.82050	0.1477699	0.28177744	2.3042622	20	5 15.0	20.3
289207 2004 XG_{13}	17.5	X	210.70727	92.75012	296.86352	1.92334	0.1640506	0.28594499	2.2818183	20	5 6.9	21.0
289208 2004 XK_{17}	16.7	X	341.50392	31.93187	77.65072	9.98753	0.1830555	0.25504270	2.4626014	20	—	—
289209 2004 XF_{19}	16.1	X	226.87594	174.06967	254.31651	3.53921	0.0663943	0.22969993	2.6405566	20	7 23.3	19.7
289210 2004 XK_{20}	16.8	X	127.60924	159.28118	290.56053	2.95245	0.1446873	0.27855812	2.3219819	20	5 1.8	20.0
289211 2004 XH_{22}	16.0	X	215.57360	266.71773	94.14255	16.34205	0.3069319	0.22041311	2.7142162	20	4 11.5	21.3
289212 2004 XF_{23}	15.9	X	212.94880	178.04093	269.49800	12.87270	0.1503630	0.22817900	2.6522774	20	7 22.3	20.1
289213 2004 XV_{24}	16.2	X	289.00785	276.52835	98.36263	6.21769	0.2961745	0.23447750	2.6045654	20	6 27.7	19.4
289214 2004 XE_{25}	16.0	X	202.24610	330.64116	104.16852	8.98898	0.1380879	0.22288978	2.6940725	20	6 28.4	20.3
289215 2004 XV_{30}	16.3	X	187.64606	49.71551	55.03368	26.22724	0.3312955	0.22502430	2.6770086	20	7 19.0	21.7
289216 2004 XR_{31}	17.2	X	194.56336	191.33287	277.35488	6.96206	0.1127687	0.29116683	2.2544544	20	8 7.4	20.5
289217 2004 XK_{36}	15.0	X	220.16587	24.23858	64.45671	11.17233	0.0508047	0.16939396	3.2349738	20	8 12.7	19.9
289218 2004 XB_{39}	16.1	X	130.09789	294.83262	172.36495	11.87554	0.2564738	0.21656247	2.7462954	20	6 8.4	21.0
289219 2004 XU_{40}	14.8	X	36.60749	57.32120	276.06841	20.94997	0.1257061	0.18198366	3.0840005	20	11 15.1	19.3
289220 2004 XX_{40}	16.4	X	284.29630	35.22851	11.33060	2.92614	0.1728960	0.23758678	2.5817917	20	8 27.6	19.4
289221 2004 XL_{41}	17.3	X	140.76220	20.85145	67.72933	3.62230	0.1529838	0.27821566	2.3238869	20	5 16.8	20.7
289222 2004 XG_{44}	17.0	X	104.32052	158.07237	294.42341	1.65981	0.2214382	0.21199281	2.7856206	20	4 21.6	21.0
289223 2004 XD_{46}	17.3	X	169.91002	330.06613	130.30124	4.41570	0.1403134	0.22358168	2.6885115	20	6 29.2	21.7
289224 2004 XL_{48}	16.7	X	254.66882	193.57172	228.29879	2.78139	0.2511615	0.23325872	2.6136301	20	7 23.9	20.5
289225 2004 XH_{53}	17.0	X	269.60735	295.47976	109.70116	1.54934	0.1400963	0.23358033	2.6112305	20	8 7.2	20.4
289226 2004 XX_{60}	16.4	X	153.56057	9.31721	95.99559	5.93444	0.0664084	0.21899248	2.7259418	20	6 16.2	20.4
289227 2004 XY_{60}	18.9	X	282.71515	130.85941	122.60958	23.77187	0.7967021	1.92384327	0.6402598	20	—	—
289228 2004 XB_{62}	15.2	X	277.14152	174.26237	276.99411	26.69222	0.1202797	0.17911502	3.1168415	20	9 29.1	20.0
289229 2004 XR_{62}	16.2	X	315.47482	309.90652	101.82784	3.29025	0.1993903	0.18170325	3.0871726	20	10 17.3	19.5
289230 2004 XY_{63}	16.2	X	209.22395	17.11247	61.87492	11.80361	0.1478485	0.22751264	2.6574537	20	7 11.1	20.4
289231 2004 XE_{66}	15.0	X	2.44433	326.09190	82.14236	4.03193	0.2596063	0.12558237	3.9492709	20	12 28.4	19.3
289232 2004 XK_{69}	17.2	X	25.22670	199.61450	231.31812	4.89600	0.1616502	0.25941157	2.4348740	20	—	—
289233 2004 XL_{69}	16.7	X	93.38731	231.70688	197.52325	22.06043	0.2082636	0.27144699	2.3623597	20	2 27.1	19.8
289234 2004 XN_{70}	15.6	X	140.03337	211.43028	259.45991	12.25369	0.0819433	0.22351639	2.6890351	20	6 8.9	19.6
289235 2004 XY_{70}	17.8	X	270.71663	71.73504	346.54045	2.29828	0.1375537	0.29747405	2.2224739	20	9 5.8	20.1
289236 2004 XA_{75}	16.6	X	123.74785	89.55394	261.90979	4.96059	0.1389933	0.26301850	2.4125622	20	—	—
289237 2004 XF_{75}	16.0	X	329.47534	303.95951	88.93646	2.37117	0.2946288	0.17996494	3.1070204	20	10 16.1	18.5
289238 2004 XO_{75}	15.3	X	302.18634	329.32817	94.88225	17.94731	0.1989703	0.17768825	3.1335039	20	10 16.5	19.3
289239 2004 XV_{75}	16.9	X	330.65293	47.69082	75.07354	3.57193	0.1389427	0.25553904	2.4594116	20	—	—
289240 2004 XU_{76}	15.5	X	296.02829	39.74625	58.80321	11.44402	0.0498025	0.18504992	3.0498380	20	11 26.5	19.6
289241 2004 XK_{77}	15.5	X	225.44308	256.11830	261.77869	9.66760	0.0231585	0.18055331	3.1002669	20	11 11.7	20.0
289242 2004 XO_{77}	14.9	X	286.51411	314.86086	80.04169	17.12181	0.0589844	0.17231371	3.1983267	20	8 30.2	19.6
289243 2004 XH_{78}	16.3	X	305.57156	33.55458	78.66290	3.90683	0.1406393	0.18630185	3.0361597	20	12 22.3	19.8
289244 2004 XX_{78}	17.3	X	201.92111	128.55242	250.24551	1.51580	0.2106429	0.28310096	2.2970749	20	4 13.9	21.0
289245 2004 XJ_{79}	16.0	X	281.34205	357.53430	60.91778	2.57813	0.1692383	0.17526127	3.1623656	20	8 31.6	20.1
289246 2004 XH_{81}	17.0	X	186.47618	313.23622	84.28314	3.90959	0.2048632	0.28220605	2.3019286	20	4 26.5	20.7
289247 2004 XM_{83}	17.3	X	168.91114	352.11472	70.81105	3.63268	0.1418357	0.28175642	2.3043768	20	5 11.1	20.6
289248 2004 XQ_{84}	15.7	X	214.01117	5.84506	89.72483	3.13465	0.1118383	0.16843812	3.2472006	20	8 5.4	20.7
289249 2004 XT_{84}	17.2	X	357.51554	270.22644	195.28258	1.97842	0.1684135	0.25675921	2.4516136	20	—	—
289250 2004 XZ_{85}	16.1	X	248.86246	300.02774	104.65182	14.28262	0.2891810	0.22986351	2.6393037	20	6 22.5	20.3
289251 2004 XC_{86}	16.6	X	45.76960	290.34240	116.42413	5.47175	0.1900440	0.25681620	2.4512509	20	—	—
289252 2004 XQ_{86}	17.0	X	213.81829	323.59978	136.44831	3.38038	0.2413073	0.22902738	2.6457234	20	8 3.8	21.4
289253 2004 XR_{86}	17.2	X	48.04961	242.61544	243.96348	3.79397	0.1859224	0.26688960	2.3891767	20	2 28.5	19.3
289254 2004 XK_{89}	17.0	X	288.86246	127.06150	32.90599	4.19951	0.1329267	0.25407320	2.4688620	20	—	—
289255 2004 XE_{92}	16.9	X	123.11156	348.26540	42.60182	7.05868	0.2546218	0.27214772	2.3583029	20	2 27.5	20.3
289256 2004 XV_{92}	17.2	X	339.18109	82.52868	10.58614	2.91611	0.1460613	0.25368660	2.4713696	20	—	—
289257 2004 XQ_{99}	17.3	X	93.25816	129.61140	326.90235	0.98344	0.1440566	0.27152339	2.3619166	20	3 29.6	20.1
289258 2004 XC_{101}	17.1	X	325.69297	70.21504	72.92011	2.89818	0.1608047	0.25638131	2.4540221	20	—	—
289259 2004 XO_{101}	17.1	X	215.22014	13.72900	69.99310	5.51515	0.0777858	0.29071513	2.2567890	20	8 4.8	20.0
289260 2004 XB_{105}	16.6	X	37.95898	59.21103	42.41762	2.76311	0.1683183	0.26341863	2.4101185	20	—	—
289261 2004 XD_{107}	15.0	X	338.59635	105.35532	339.04698	3.87864	0.2169191	0.12536774	3.9537772	20	12 23.2	19.4
289262 2004 XO_{111}	17.2	X	161.67426	13.37649	26.42345	4.42501	0.2329565	0.27737518	2.3285791	20	4 8.4	21.0
289263 2004 XZ_{119}	17.5	X	41.00293	321.69395	111.93967	3.11462	0.1847922	0.25924815	2.4358971	20	—	—
289264 2004 XE_{121}	17.2	X	298.02937	107.49887	278.58308	3.09554	0.2076543	0.29878614	2.2159625	20	8 23.9	18.8
289265 2004 XW_{123}	17.6	X	35.83825	221.75826	195.58051	1.06385	0.1800818	0.25788200	2.4444924	20	—	—
289266 2004 XC_{124}	16.2	X	0.16508	97.53970	344.07432	13.95450	0.1214146	0.25517604	2.4617435	20	—	—
289267 2004 XY_{124}	15.4	X	359.67351	320.35889	92.08097	10.88939	0.0555389	0.18485806	3.0519480	20	12 26.6	19.5
289268 2004 XX_{127}	17.1	X	12.71806	214.83358	258.58446	2.01622	0.1230996	0.26120926	2.4236896	20	—	—
289269 2004 XL_{142}	16.0	X	87.68632	177.07431	301.77509	3.71914	0.0761479	0.21306663	2.7762533	20	4 13.3	19.7
289270 2004 XW_{142}	15.4	X	315.12105	344.75475	58.54724	11.81830	0.0851403	0.17838552	3.1253331	20	10 16.1	19.5
289271 2004 XA_{144}	16.2	X	153.85798	332.46416	130.06399	10.39520	0.1632842	0.21796630	2.7344909	20	6 17.9	20.8
289272 2004 XB_{147}	17.3	X	146.94726	102.69682	159.36876	5.69548	0.0795124	0.30954231	2.1643261	20	—	—
289273 2004 XV_{147}	16.9	X	200.47103	291.68762	84.95942	4.94840	0.1867422	0.28419864	2.2911563	20	4 13.0	20.5
289274 2004 XH_{148}	17.1	X	173.25763	333.86419	96.99955	6.46254	0.1337864	0.28110746	2.3079220	20	5 26.6	20.5
289275 2004 XC_{149}	15.6	X	23.14826	250.74817	78.24244	6.47884	0.1390178	0.18016503	3.1047196	20	10 27.8	19.6
289276 2004 XM_{149}	17.9	X	62.90547	66.64507	58.88731	2.09709	0.1311814	0.26940254	2.3742964	20	3 22.8	20.1
289277 2004 XD_{151}	15.6	X	132.47538	287.08101	288.54258	7.93560	0.0557539	0.17438881	3.1729044	20	10 1.9	20.5
289278 2004 XD_{161}	17.3	X	262.45383	97.52811	304.97447	6.40756	0.0362613	0.29215471	2.2493694	20	8 14.9	19.9
289279 2004 XP_{161}	16.5	X	349.20575	113.55150	14.04036	5.42286	0.1659940	0.25934923	2.4352641	20	—	—
289280 2004 XT_{161}	16.4	X	292.43171	132.03225	283.07852	13.30097	0.1203883	0.23809111	2.5781446	20	9 21.2	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289281 2004 XT_{162}	15.8	X	273.76794	120.64149	307.68114	9.51866	0.0762221	0.17638651	3.1489020	20	9 11.3	20.2
289282 2004 XB_{167}	16.9	X	141.13982	288.28854	107.98891	8.94014	0.3101090	0.27629751	2.3346300	20	3 27.4	20.9
289283 2004 XL_{171}	16.8	X	150.54902	69.53846	253.81006	6.52979	0.1425694	0.26831005	2.3807370	20	—	—
289284 2004 XH_{179}	16.8	X	95.73343	279.50978	127.45076	5.58300	0.1071482	0.26836332	2.3804220	20	1 19.1	19.5
289285 2004 XZ_{181}	12.9	X	317.74409	320.47510	305.99756	8.46155	0.0667921	0.08339575	5.1884794	20	4 21.9	19.6
289286 2004 XG_{186}	17.9	X	190.26414	37.71276	23.80731	2.82716	0.1813769	0.28440736	2.2900352	20	5 29.2	21.6
289287 2004 YS_{2}	16.3	X	83.48339	280.76566	265.87111	3.93971	0.1027298	0.22140710	2.7060866	20	7 13.2	19.9
289288 2004 YK_{6}	17.1	X	39.70321	0.65538	49.94263	5.30537	0.1003053	0.26188216	2.4195361	20	—	—
289289 2004 YD_{11}	15.9	X	92.68935	102.15703	242.65421	10.95633	0.0675566	0.19434123	2.9518396	20	—	—
289290 2004 YB_{16}	16.9	X	12.34302	42.05429	67.41319	2.12924	0.1450013	0.25739849	2.4475527	20	—	—
289291 2004 YQ_{16}	17.7	X	90.61843	314.13209	101.43640	2.24019	0.1892580	0.26498958	2.4005837	20	2 6.8	20.3
289292 2004 YP_{17}	16.5	X	329.47159	262.77263	120.33045	3.46649	0.1672284	0.23820387	2.5773308	20	10 23.5	18.8
289293 2004 YZ_{17}	17.2	X	72.49761	337.09338	115.85542	1.44061	0.1639742	0.26652273	2.3913688	20	2 25.6	19.5
289294 2004 YO_{18}	16.0	X	228.49193	237.09950	287.87706	7.75789	0.1476559	0.17556700	3.1586933	20	11 6.2	20.9
289295 2004 YT_{19}	17.0	X	65.34571	108.12149	272.35574	1.20426	0.2148086	0.25503624	2.4626430	20	—	—
289296 2004 YO_{24}	15.5	X	211.16394	149.06397	100.52443	12.76063	0.0740305	0.18913664	3.0057459	20	—	—
289297 2004 YK_{25}	16.6	X	307.15090	65.21052	287.46261	5.40271	0.0500789	0.22517095	2.6758462	20	8 1.6	19.9
289298 2004 YV_{29}	16.3	X	334.83766	115.09445	356.11482	7.01075	0.1442327	0.25180609	2.4836586	20	—	—
289299 2005 AH_{1}	17.0	X	34.46201	132.98235	298.29623	6.49629	0.1614715	0.25693430	2.4504997	20	—	—
289300 2005 AX_{2}	17.5	X	229.98786	114.78285	333.29921	5.86461	0.0814433	0.29186116	2.2508774	20	8 28.4	20.3
289301 2005 AM_{3}	17.4	X	124.98564	296.90772	142.77125	3.74331	0.2068302	0.27492579	2.3423892	20	4 24.9	20.8
289302 2005 AY_{3}	16.3	X	76.94396	260.47157	98.69790	8.99145	0.1483899	0.25358739	2.4720141	20	—	—
289303 2005 AX_{6}	16.4	X	184.60602	358.65604	103.72405	13.26649	0.2147185	0.22222259	2.6994622	20	7 14.3	20.9
289304 2005 AW_{10}	15.9	X	110.36954	251.31040	304.88150	26.60577	0.2365482	0.28353717	2.2947183	20	8 30.4	20.1
289305 2005 AY_{10}	16.2	X	58.49787	110.29621	79.35318	9.82497	0.0973926	0.21267641	2.7796482	20	6 11.7	19.6
289306 2005 AH_{11}	15.9	X	134.26570	56.07243	110.44803	15.04577	0.1012363	0.22379880	2.6867724	20	8 18.2	20.1
289307 2005 AH_{13}	17.0	X	200.16750	296.26602	151.14013	2.39509	0.1766131	0.22487194	2.6782177	20	7 10.3	21.2
289308 2005 AF_{15}	16.9	X	59.60073	86.05841	311.83830	5.01033	0.1391509	0.25669139	2.4520454	20	—	—
289309 2005 AA_{16}	16.5	X	238.87785	188.35493	283.30645	5.30137	0.2578649	0.23452506	2.6042132	20	9 7.2	20.6
289310 2005 AR_{16}	16.7	X	347.86615	257.08522	282.21196	9.01020	0.1904073	0.26297377	2.4128358	20	1 11.9	19.3
289311 2005 AP_{17}	16.1	X	211.91641	9.03288	122.11262	14.17554	0.0968673	0.23192856	2.6236137	20	9 29.9	20.1
289312 2005 AX_{17}	16.3	X	177.97563	241.48199	284.35476	6.43341	0.1374200	0.23179584	2.6246151	20	9 25.3	20.6
289313 2005 AZ_{21}	16.1	X	266.65164	204.09296	303.24537	18.07827	0.0658811	0.24245454	2.5471186	20	—	—
289314 Chisholm	15.4	X	23.95637	283.62048	111.31436	12.37381	0.0917545	0.18304300	3.0720902	20	—	—
289315 2005 AN_{26}	18.4	X	152.44960	208.45642	175.78921	4.91915	0.6377323	0.27907735	2.3191009	20	4 1.2	23.4
289316 2005 AT_{26}	16.5	X	200.67262	168.30204	284.02663	6.82563	0.0717516	0.22163703	2.7042147	20	7 22.7	20.4
289317 2005 AE_{28}	16.8	X	335.12001	132.07617	125.56267	7.06043	0.0774153	0.27555983	2.3387948	20	5 2.1	19.4
289318 2005 AF_{28}	15.8	X	346.35936	122.90114	290.70412	8.87931	0.0819545	0.17983629	3.1085020	20	12 10.2	19.8
289319 2005 AJ_{42}	14.8	X	357.86229	3.29794	342.15730	15.47258	0.1889275	0.17188283	3.2036696	20	10 2.4	18.5
289320 2005 AP_{42}	16.6	X	110.55355	85.69833	45.00619	9.59550	0.1404629	0.27884717	2.3203770	20	6 6.5	19.8
289321 2005 AN_{45}	16.9	X	37.51775	251.30911	259.12480	3.25244	0.1560197	0.26547917	2.3976314	20	3 11.8	19.1
289322 2005 AS_{45}	17.4	X	326.38084	194.43747	318.02138	19.83154	0.0142867	0.38596888	1.8682480	20	—	—
289323 2005 AZ_{46}	16.3	X	277.85401	166.87611	278.61935	3.09601	0.2803558	0.23760733	2.5816428	20	9 20.2	19.1
289324 2005 AB_{48}	16.4	X	31.85241	224.77197	118.81790	15.93767	0.1348288	0.24047973	2.5610441	20	12 11.5	19.9
289325 2005 AX_{49}	16.8	X	53.75980	262.14641	111.01983	4.34389	0.1828598	0.25229466	2.4804511	20	—	—
289326 2005 AY_{49}	16.5	X	31.12043	190.05658	251.90017	4.92663	0.0829222	0.25711976	2.4493212	20	—	—
289327 2005 AZ_{51}	13.5	X	129.57638	127.67282	333.52808	9.78026	0.0518738	0.08289889	5.2091907	20	5 11.4	20.6
289328 2005 AK_{53}	16.3	X	226.19586	240.10164	277.32512	6.19466	0.1410153	0.23692587	2.5865908	20	11 6.8	20.1
289329 2005 AE_{57}	16.1	X	236.22892	203.58954	270.66768	11.45421	0.1273166	0.23281163	2.6169752	20	9 20.4	20.0
289330 2005 AS_{58}	16.7	X	49.69583	302.72041	125.72272	12.74002	0.1780716	0.25876118	2.4389522	20	—	—
289331 2005 AX_{63}	17.6	X	266.50619	97.77286	287.11843	2.96492	0.1590504	0.29042464	2.2582936	20	7 5.3	20.2
289332 2005 AE_{66}	16.2	X	272.14963	245.49860	131.95442	7.12479	0.0371994	0.22290992	2.6939103	20	7 18.4	19.8
289333 2005 AF_{68}	16.3	X	269.45934	196.24802	287.60069	9.73328	0.1441441	0.23981341	2.5657858	20	11 22.6	19.4
289334 2005 AG_{72}	17.5	X	26.07511	70.44104	89.95049	1.83305	0.1600356	0.26570447	2.3962758	20	3 6.1	19.3
289335 2005 AY_{78}	16.4	X	311.45645	259.59108	334.96485	8.50567	0.0544489	0.20080463	2.8881533	20	3 1.9	20.4
289336 2005 AM_{80}	17.6	X	96.57206	48.45037	43.34512	2.25249	0.1512492	0.26906725	2.3762684	20	3 30.2	20.5
289337 2005 AN_{81}	17.2	X	191.55409	68.41737	76.27817	14.01051	0.2118238	0.22939646	2.6428849	20	9 18.8	21.9
289338 2005 AC_{82}	16.4	X	288.21260	142.51360	333.97240	9.67050	0.1908025	0.17779635	3.1322337	20	11 17.3	20.3
289339 2005 AD_{82}	16.4	X	262.97551	266.25168	109.43313	6.93259	0.0720078	0.21996410	2.7179086	20	6 28.2	20.1
289340 2005 AM_{82}	17.2	X	246.41958	317.12892	220.69643	2.01645	0.1273825	0.24267227	2.5455948	20	—	—
289341 2005 BH_{3}	16.5	X	244.82749	81.38261	336.99648	13.29711	0.2499817	0.22920808	2.6443327	20	7 12.8	20.8
289342 2005 BQ_{4}	16.9	X	194.58864	88.98537	314.71498	7.12724	0.0716318	0.27995626	2.3142446	20	5 9.7	20.3
289343 2005 BE_{5}	17.2	X	100.83374	332.77809	50.52237	3.60418	0.1963932	0.26266827	2.4147062	20	1 10.5	20.0
289344 2005 BD_{6}	17.0	X	165.81572	318.76239	91.94925	5.60044	0.1598277	0.27708120	2.3302258	20	4 24.7	20.6
289345 2005 BZ_{8}	17.1	X	23.29308	51.16177	25.40717	2.34417	0.1824443	0.25475159	2.4644771	20	—	—
289346 2005 BH_{9}	15.3	X	238.95860	18.69063	115.70586	13.08823	0.0786249	0.17187920	3.2037147	20	10 28.4	20.1
289347 2005 BR_{9}	16.6	X	297.05831	143.42565	298.98949	11.96273	0.0842891	0.23877622	2.5732106	20	11 15.5	19.9
289348 2005 BO_{13}	16.8	X	59.28006	27.63436	133.23454	7.63424	0.0796925	0.27167589	2.3610326	20	5 2.7	19.5
289349 2005 BP_{15}	16.7	X	311.77475	276.90891	131.11248	9.34725	0.1638209	0.23812969	2.5778661	20	10 26.4	19.3
289350 2005 BM_{16}	16.9	X	161.79389	13.32723	102.85571	10.98252	0.2393585	0.22073609	2.7115679	20	7 12.9	21.5
289351 2005 BA_{17}	17.6	X	17.85131	62.21885	129.76160	3.10576	0.1700154	0.26919703	2.3755046	20	4 7.8	19.4
289352 2005 BL_{17}	17.5	X	100.87484	170.15273	281.92420	1.89924	0.1694843	0.27077870	2.3662450	20	4 6.3	20.5
289353 2005 BF_{19}	16.4	X	284.31147	6.15157	49.07376	4.93543	0.1569289	0.23408041	2.6075101	20	9 12.9	19.4
289354 2005 BG_{19}	16.1	X	124.53435	175.92764	315.25567	15.20491	0.1733648	0.21555536	2.7548429	20	6 27.8	20.6
289355 2005 BF_{25}	16.8	X	114.62063	90.19233	54.08854	4.06377	0.1351288	0.21664993	2.7455563	20	6 28.9	21.0
289356 2005 BU_{25}	16.2	X	269.23765	261.73340	158.56212	4.97623	0.2976988	0.23232482	2.6206296	20	8 1.4	19.7
289357 2005 BA_{28}	17.2	X	267.22766	64.34708	113.80940	24.50324	0.0608105	0.37557028	1.9025755	20	—	—
289358 2005 BT_{28}	15.9	X	152.96127	278.41129	251.33483	12.61645	0.0799798	0.22556925	2.6726953	20	9 1.9	20.2
289359 2005 BQ_{29}	15.9	X	102.14499	269.88648	322.96410	13.61023	0.1184310	0.22781877	2.6550724	20	9 29.9	20.1
289360 2005 BB_{39}	17.5	X	33.59828	169.95057	132.76443	5.15618	0.1806436	0.29427119	2.2385710	20	11 8.3	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289361 2005 BZ_{41}	18.4	X	227.48908	194.24173	329.03716	2.04251	0.0628687	0.30343553	2.1932683	20	12 15.8	20.9
289362 2005 BR_{48}	15.1	X	212.76403	277.94084	146.14414	15.74821	0.1412196	0.15470850	3.4365812	20	6 24.3	20.7
289363 2005 BC_{49}	16.2	X	101.82523	240.73613	271.85241	8.53877	0.2601669	0.21211905	2.7845152	20	7 8.6	20.7
289364 2005 BR_{49}	16.4	X	302.76925	197.90739	251.53949	11.78496	0.1464675	0.24151970	2.5536870	20	12 5.6	18.9
289365 2005 CP_{3}	17.0	X	270.93822	316.48964	110.12956	6.56884	0.0532167	0.22819475	2.6521553	20	9 23.8	20.5
289366 2005 CY_{3}	17.5	X	113.97119	169.27258	30.47170	3.95297	0.1119094	0.28572487	2.2829901	20	9 14.7	20.7
289367 2005 CA_{4}	16.4	X	220.56224	67.13704	100.26200	5.29550	0.1348788	0.23527493	2.5986769	20	11 16.5	20.2
289368 2005 CD_{8}	17.3	X	166.97609	117.13914	1.19073	5.61071	0.0990224	0.28553803	2.2839858	20	7 24.3	20.5
289369 2005 CO_{8}	17.6	X	69.63983	20.86895	55.23188	1.43857	0.1802855	0.26262655	2.4149620	20	1 29.9	19.8
289370 2005 CG_{9}	16.6	X	190.30232	66.18074	131.37901	13.09699	0.1644743	0.23413409	2.6071115	20	11 21.2	20.9
289371 2005 CZ_{10}	15.3	X	259.96150	313.44323	341.01046	14.64769	0.2624393	0.19799609	2.9154011	20	2 23.6	20.1
289372 2005 CN_{11}	16.8	X	309.18428	128.89667	336.61891	7.27746	0.0811479	0.24244455	2.5471886	20	—	—
289373 2005 CK_{13}	17.3	X	311.63256	107.92776	347.14315	6.72346	0.0819345	0.30630950	2.1795278	20	—	—
289374 2005 CL_{13}	17.1	X	61.64319	61.12796	109.07803	6.55392	0.1644547	0.27227820	2.3575494	20	6 1.4	19.6
289375 2005 CX_{13}	15.3	X	202.14791	79.34758	134.66513	26.40499	0.2282739	0.17334027	3.1856868	20	12 8.2	21.0
289376 2005 CA_{15}	16.9	X	59.14634	295.46814	116.91468	3.09844	0.1883783	0.25656543	2.4528479	20	—	—
289377 2005 CM_{16}	17.1	X	218.86232	181.38166	305.22057	6.91254	0.0401694	0.29500928	2.2348357	20	10 10.3	19.9
289378 2005 CG_{17}	18.2	X	247.63998	316.79677	143.62676	2.15235	0.1241348	0.29700512	2.2248126	20	10 5.5	20.7
289379 2005 CG_{21}	17.3	X	117.75833	80.53293	85.52897	2.79056	0.1568335	0.28070364	2.3101349	20	8 6.3	20.7
289380 2005 CU_{23}	16.2	X	327.38854	217.40911	240.92437	7.71334	0.1173000	0.24626225	2.5207947	20	—	—
289381 2005 CP_{24}	17.0	X	24.74558	333.54607	260.91094	6.68245	0.0775686	0.27813998	2.3243085	20	6 21.2	19.2
289382 2005 CX_{24}	16.4	X	284.80047	196.90943	263.68119	7.92263	0.1217110	0.23902614	2.5714167	20	11 19.2	19.2
289383 2005 CO_{26}	17.9	X	304.42706	15.86708	107.00005	3.03991	0.0992316	0.31000589	2.1621679	20	—	—
289384 2005 CU_{26}	16.7	X	248.88613	83.46817	123.89617	10.71390	0.0335598	0.24761688	2.5115928	20	—	—
289385 2005 CO_{28}	17.6	X	144.64008	53.08733	8.49057	2.53026	0.1961576	0.27278648	2.3546200	20	4 17.9	21.2
289386 2005 CX_{29}	16.3	X	143.98369	349.27817	114.47266	5.03067	0.0569616	0.21209177	2.7847540	20	6 2.8	20.3
289387 2005 CE_{30}	17.2	X	317.46493	148.82400	101.93026	3.46303	0.1760230	0.26530236	2.3986965	20	3 7.8	19.9
289388 2005 CT_{32}	16.6	X	221.68335	35.31134	353.07888	3.88580	0.1165231	0.21564856	2.7540491	20	5 20.1	20.9
289389 2005 CZ_{33}	17.7	X	238.54341	352.87783	32.87370	2.43657	0.0249441	0.27994010	2.3143337	20	6 17.7	20.6
289390 2005 CY_{34}	16.6	X	285.32677	243.08098	86.24493	2.77669	0.0531504	0.21394855	2.7686187	20	5 29.8	20.3
289391 2005 CJ_{36}	17.5	X	150.41145	159.72195	343.49617	4.22220	0.0680235	0.28520449	2.2857662	20	8 7.4	20.6
289392 2005 CP_{36}	17.3	X	271.98462	11.29638	99.51220	3.19248	0.1269752	0.23829690	2.5766600	20	11 13.3	20.3
289393 2005 CL_{37}	17.7	X	30.35949	118.39633	15.00879	2.41797	0.1203403	0.26137922	2.4226389	20	2 3.2	19.9
289394 2005 CJ_{38}	18.0	X	121.75238	246.26063	152.94657	23.04103	0.1336704	0.39077630	1.8528940	20	1 27.6	19.8
289395 2005 CH_{40}	16.2	X	222.33362	107.59202	87.70643	14.06792	0.2008065	0.23869624	2.5737854	20	12 14.4	19.9
289396 2005 CB_{41}	17.6	X	43.39550	149.64133	111.19765	7.86324	0.1544474	0.28471972	2.2883600	20	9 19.2	20.3
289397 2005 CX_{43}	17.7	X	44.09211	246.85727	241.48950	0.72208	0.1312974	0.26374948	2.4081025	20	2 20.5	20.0
289398 2005 CJ_{44}	16.2	X	137.15883	311.28145	130.87432	7.26685	0.0310950	0.20649119	2.8348823	20	4 27.6	20.3
289399 2005 CH_{46}	15.5	X	107.66395	134.61748	147.87148	11.70790	0.0535333	0.17081350	3.2170261	20	11 29.3	20.4
289400 2005 CM_{46}	17.4	X	91.59469	268.72103	333.95732	2.30360	0.1224287	0.28851618	2.2682413	20	10 16.1	20.6
289401 2005 CG_{47}	17.2	X	60.90321	96.33101	137.01357	2.55201	0.1649975	0.28060258	2.3106896	20	9 2.0	19.9
289402 2005 CM_{48}	16.5	X	286.73448	128.30087	334.91762	12.26135	0.2485174	0.23925116	2.5698041	20	11 3.9	19.3
289403 2005 CK_{50}	16.5	X	202.21304	194.98096	330.37761	4.26762	0.0800711	0.23214630	2.6219730	20	10 26.6	20.4
289404 2005 CT_{50}	16.3	X	205.49923	219.16231	315.27176	7.32073	0.1438644	0.23343411	2.6123207	20	11 2.9	20.4
289405 2005 CM_{52}	16.9	X	97.24249	33.01877	94.69773	5.41274	0.0686891	0.27288596	2.3540477	20	5 8.3	19.8
289406 2005 CK_{58}	17.5	X	122.33740	17.00105	179.38900	5.07734	0.1615967	0.28708967	2.2757489	20	9 20.4	20.8
289407 2005 CX_{58}	16.7	X	191.66045	219.82685	317.68799	7.44170	0.1288576	0.23250196	2.6192984	20	10 24.1	20.8
289408 2005 CR_{59}	17.1	X	158.74120	216.02797	255.04033	2.36134	0.0931422	0.28096222	2.3087174	20	7 2.6	20.2
289409 2005 CS_{60}	16.5	X	3.41884	161.36804	331.82513	7.87315	0.1913840	0.19317207	2.9637381	20	—	—
289410 2005 CN_{65}	17.5	X	163.57747	345.99516	131.16424	4.55552	0.1930325	0.28333912	2.2957875	20	7 17.3	21.2
289411 2005 CE_{72}	16.0	X	49.30089	351.76143	343.48527	14.11256	0.1939775	0.23609099	2.5926851	20	12 27.8	20.0
289412 2005 CT_{73}	17.9	X	143.35212	221.04252	353.35596	2.64567	0.0641042	0.29452087	2.2373057	20	11 4.6	20.9
289413 2005 CL_{74}	15.9	X	129.94242	340.44056	154.83904	9.29629	0.1016900	0.21606362	2.7505209	20	6 30.6	20.1
289414 2005 CM_{75}	17.5	X	16.84992	164.06242	33.90982	2.60005	0.1541203	0.26835265	2.3804850	20	4 13.6	19.2
289415 2005 CW_{79}	16.2	X	349.49032	15.07140	163.43547	15.91663	0.1612921	0.19602133	2.9349486	20	1 31.4	19.9
289416 2005 CY_{80}	15.6	X	209.33993	301.31512	235.70183	14.78981	0.0934532	0.23717573	2.5847739	20	11 19.9	19.1
289417 2005 DF	17.4	X	334.45016	52.69615	176.29335	2.08823	0.0866909	0.26459094	2.4029943	20	3 16.1	20.0
289418 2005 DP_{3}	17.0	X	145.98419	255.31607	167.83941	2.13925	0.0540234	0.20348479	2.8627367	20	4 13.8	21.0
289419 2005 EW_{2}	17.9	X	216.37735	52.41485	132.93209	0.83483	0.1309905	0.30346164	2.1931425	20	12 20.0	20.3
289420 2005 EB_{5}	16.7	X	300.63628	210.29914	6.65906	6.24970	0.0972239	0.25510322	2.4622119	20	1 13.4	20.0
289421 2005 EK_{7}	17.8	X	14.17776	22.81435	165.81014	1.38741	0.1263482	0.26319654	2.4114741	20	3 24.7	19.8
289422 2005 ER_{8}	17.5	X	100.77221	320.84227	126.17819	2.47021	0.0948180	0.26836563	2.3804083	20	3 20.8	20.4
289423 2005 EX_{8}	16.1	X	17.20795	345.79193	321.80369	13.58792	0.1078556	0.22680992	2.6629398	20	9 17.1	19.5
289424 2005 EQ_{12}	16.4	X	150.90898	23.71189	77.35449	3.78334	0.1520206	0.21228713	2.7830453	20	6 11.9	20.7
289425 2005 EL_{13}	17.5	X	4.30183	7.92809	122.58724	2.25280	0.1192336	0.25476000	2.4644229	20	—	—
289426 2005 EW_{13}	17.2	X	98.89545	121.06375	25.18680	3.81977	0.1722938	0.27378782	2.3488754	20	6 19.3	20.5
289427 2005 EY_{13}	17.1	X	63.72464	61.03161	147.46660	8.08576	0.1056980	0.27608806	2.3358106	20	7 20.1	19.8
289428 2005 EA_{19}	17.6	X	300.62885	107.32464	168.87075	6.51423	0.1030172	0.26408311	2.4060739	20	3 30.1	20.6
289429 2005 ED_{19}	16.7	X	250.40980	351.94156	165.76795	4.33459	0.0409634	0.23635666	2.5907419	20	12 24.6	20.1
289430 2005 EJ_{22}	17.0	X	162.59020	259.29020	157.28839	7.75092	0.0977273	0.27085395	2.3658068	20	4 26.4	20.4
289431 2005 EJ_{25}	17.1	X	67.15870	89.17367	80.25662	2.71792	0.1354192	0.27078245	2.3662232	20	6 3.0	19.6
289432 2005 EW_{25}	16.6	X	88.53913	241.61884	342.70927	7.26544	0.1713360	0.21756744	2.7378319	20	9 14.8	20.7
289433 2005 EA_{26}	16.7	X	20.64420	16.40914	165.59197	6.36409	0.0824755	0.26487372	2.4012837	20	3 27.6	19.1
289434 2005 ED_{26}	17.2	X	337.72124	167.96373	345.55705	19.65203	0.0434255	0.38191466	1.8814463	20	—	—
289435 2005 EL_{29}	17.0	X	302.72704	178.23079	299.55348	3.93414	0.2226990	0.24276528	2.5449446	20	—	—
289436 2005 EU_{29}	17.5	X	16.97958	29.15744	38.94467	4.04303	0.1029014	0.31328192	2.1470681	20	—	—
289437 2005 EE_{30}	17.4	X	60.68765	358.07657	195.75234	2.95525	0.1149374	0.27372983	2.3492071	20	6 25.6	20.0
289438 2005 EF_{33}	16.1	X	237.82912	183.78463	307.31541	28.96591	0.1546997	0.23233672	2.6205401	20	9 27.0	20.6
289439 2005 EM_{33}	18.0	X	58.50098	107.87023	352.27214	18.69717	0.1226155	0.38929976	1.8575761	20	1 7.3	19.6
289440 2005 EQ_{34}	17.0	X	51.09380	193.82959	324.65576	7.20025	0.1503614	0.26706191	2.3881490	20	4 17.9	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289441 2005 EL_{35}	16.3	X	203.94629	310.98314	266.91693	11.59141	0.2236213	0.23838133	2.5760516	20	12 19.9	20.1
289442 2005 EG_{39}	17.3	X	174.58990	337.56510	162.11028	2.72940	0.0986867	0.28724058	2.2749517	20	8 29.9	20.2
289443 2005 EE_{40}	17.5	X	139.21715	337.77110	161.06717	3.32437	0.1367681	0.28153240	2.3055991	20	7 20.5	20.8
289444 2005 EH_{41}	16.1	X	115.06789	70.81429	103.87100	13.79813	0.1429510	0.21587616	2.7521130	20	8 10.3	20.4
289445 2005 EF_{42}	16.3	X	304.94056	250.25116	139.81109	5.59850	0.1769989	0.23237648	2.6202412	20	9 8.9	18.8
289446 2005 EW_{42}	14.2	X	284.74071	88.57911	151.77854	13.67495	0.1640004	0.12578010	3.9451311	20	1 31.4	20.0
289447 2005 EN_{45}	16.8	X	237.51250	229.13350	326.43420	3.60865	0.0604900	0.24271765	2.5452775	20	—	—
289448 2005 EW_{46}	17.1	X	142.06157	322.45510	227.02771	3.83154	0.0874607	0.28906519	2.2653685	20	9 28.9	20.1
289449 2005 EF_{48}	17.4	X	250.28689	98.58187	335.69260	4.79048	0.1423948	0.29064728	2.2571402	20	8 26.9	20.1
289450 2005 EW_{48}	16.9	X	341.12145	334.33151	173.90936	8.11666	0.1557930	0.25356398	2.4721663	20	—	—
289451 2005 EO_{53}	17.4	X	61.71024	309.43441	153.01539	1.49170	0.1506916	0.26096295	2.4252145	20	2 18.4	19.8
289452 2005 EN_{54}	17.1	X	138.04578	284.04489	345.19964	3.51760	0.2051908	0.23299766	2.6155821	20	12 25.5	21.6
289453 2005 EL_{55}	16.5	X	27.70045	197.24674	170.59543	10.19450	0.2112039	0.23661488	2.5888567	20	—	—
289454 2005 EG_{56}	16.4	X	319.09720	32.69841	333.96240	4.21321	0.1403358	0.22355112	2.6887565	20	9 2.5	19.2
289455 2005 EW_{58}	17.2	X	42.14200	246.76108	352.90971	8.93554	0.1682059	0.27494856	2.3422599	20	8 16.4	19.7
289456 2005 EL_{60}	17.0	X	26.57456	12.16057	205.17691	3.54982	0.1904968	0.26962211	2.3730071	20	6 11.3	18.8
289457 2005 ER_{60}	17.7	X	188.58266	7.95519	210.70045	3.76197	0.0998044	0.29988418	2.2105500	20	—	—
289458 2005 EB_{61}	15.7	X	290.29873	242.62659	323.65549	8.85202	0.1975922	0.18548454	3.0450720	20	—	—
289459 2005 ET_{63}	17.6	X	71.66210	336.97766	158.74294	3.05959	0.1242265	0.26796742	2.3827659	20	4 20.7	20.3
289460 2005 EY_{63}	16.7	X	182.64123	217.35364	166.82847	2.87136	0.0804843	0.20327638	2.8646931	20	4 7.3	21.0
289461 2005 EZ_{63}	17.7	X	322.09150	73.96628	170.91604	1.32395	0.1492917	0.26378193	2.4079050	20	3 9.5	20.4
289462 2005 EB_{66}	16.9	X	147.57463	243.35802	351.56693	3.74578	0.1975006	0.22942887	2.6426359	20	11 21.5	21.4
289463 2005 EJ_{66}	15.7	X	356.41183	92.29246	126.92128	16.92147	0.2160788	0.19793105	2.9160397	20	4 14.6	18.9
289464 2005 EW_{66}	18.0	X	43.02980	90.54818	356.36272	1.23256	0.1524558	0.25484697	2.4638621	20	—	—
289465 2005 EC_{68}	15.0	X	272.01568	232.21824	326.56927	15.56835	0.1610715	0.18129057	3.0918559	20	—	—
289466 2005 EK_{68}	16.3	X	231.77344	222.03016	320.94994	7.32743	0.1192108	0.23710138	2.5853142	20	12 21.5	19.7
289467 2005 EU_{68}	17.1	X	29.34798	230.56772	291.94900	2.78766	0.1202469	0.26219101	2.4176357	20	3 12.8	19.3
289468 2005 EH_{69}	17.4	X	163.83641	304.91239	196.26079	7.92236	0.1325463	0.28347448	2.2950566	20	8 16.5	21.0
289469 2005 EU_{69}	17.7	X	36.22764	118.51799	315.53332	17.29590	0.0836048	0.38014259	1.8872888	20	—	—
289470 2005 ER_{72}	16.7	X	164.14238	48.30308	79.48350	7.23169	0.0398781	0.28247860	2.3004476	20	8 3.5	19.7
289471 2005 EA_{73}	17.2	X	113.84278	126.68985	65.64729	4.21657	0.0660879	0.28417915	2.2912611	20	9 1.2	20.2
289472 2005 ER_{73}	17.5	X	301.35364	319.80070	122.07000	4.31127	0.0986003	0.29966274	2.2116389	20	12 14.6	19.5
289473 2005 EJ_{75}	16.8	X	159.17182	331.82437	173.51939	7.53597	0.0962976	0.21816816	2.7328039	20	8 12.9	21.0
289474 2005 EV_{75}	16.6	X	56.49701	319.25307	185.04932	1.67734	0.0236442	0.19921815	2.9034662	20	3 31.2	20.6
289475 2005 EH_{78}	16.5	X	154.04529	193.34880	38.04013	5.07871	0.1471600	0.23100452	2.6306055	20	11 24.3	20.8
289476 2005 EV_{78}	17.1	X	306.06919	57.95164	138.92700	5.17104	0.1200068	0.25300763	2.4757891	20	—	—
289477 2005 EN_{79}	16.5	X	139.42709	84.95422	104.13440	7.12285	0.1414810	0.28607462	2.2811289	20	9 30.9	20.0
289478 2005 EL_{80}	17.0	X	47.07882	0.60611	158.79797	8.97294	0.2001766	0.26498689	2.4005999	20	4 27.2	19.2
289479 2005 EG_{83}	17.2	X	23.47596	30.91836	196.43717	0.94066	0.1386643	0.27042021	2.3683358	20	6 14.1	19.2
289480 2005 EH_{83}	16.5	X	341.42707	269.73682	175.30432	15.03000	0.0699795	0.24062000	2.5600488	20	—	—
289481 2005 EL_{83}	17.4	X	80.74347	107.61044	174.50125	6.52093	0.1777824	0.28888331	2.2663192	20	12 1.6	20.8
289482 2005 EK_{84}	16.4	X	213.21052	163.75990	345.62622	11.36146	0.1212546	0.23247594	2.6194938	20	10 11.9	20.3
289483 2005 EK_{87}	17.9	X	215.18378	266.52293	357.49481	6.31461	0.2398259	0.24382696	2.5375517	20	—	—
289484 2005 EB_{88}	15.8	X	127.24547	256.82717	229.61226	8.16518	0.1207170	0.21110843	2.7933949	20	6 17.8	20.1
289485 2005 EB_{90}	17.1	X	49.27000	30.56570	132.47712	2.28962	0.1258411	0.26700309	2.3884997	20	4 23.4	19.4
289486 2005 EH_{92}	16.5	X	42.77100	52.65001	182.49559	8.10425	0.1640976	0.20918444	2.8104970	20	7 28.9	20.1
289487 2005 EX_{96}	16.2	X	233.68618	213.69976	284.10695	9.46973	0.1777963	0.23411743	2.6072353	20	10 12.9	20.1
289488 2005 EB_{101}	16.2	X	131.62661	213.03326	18.16938	12.78259	0.2021820	0.22495473	2.6775605	20	11 2.1	20.8
289489 2005 EH_{105}	17.2	X	250.10348	256.44283	131.53792	5.91838	0.1105354	0.28570673	2.2830867	20	6 24.6	20.1
289490 2005 EC_{107}	16.0	X	151.84916	332.69671	222.98455	8.87845	0.1123624	0.22733179	2.6588628	20	10 8.7	20.1
289491 2005 EF_{109}	15.5	X	2.71896	195.25681	287.24108	10.26785	0.0802344	0.18837316	3.0138620	20	—	—
289492 2005 EK_{110}	15.6	X	282.29058	218.07257	19.56206	7.13970	0.2393690	0.18920020	3.0050728	20	1 11.4	20.5
289493 2005 EN_{112}	16.8	X	224.11126	5.39669	127.42090	3.53540	0.1545984	0.22860222	2.6490028	20	10 4.3	20.7
289494 2005 EO_{116}	17.7	X	339.94321	115.89691	170.20473	6.15516	0.1012777	0.27282788	2.3543818	20	6 19.1	20.2
289495 2005 EG_{120}	17.1	X	321.91407	31.27241	195.22837	7.53472	0.0950162	0.26067194	2.4270191	20	2 19.4	20.2
289496 2005 ES_{127}	17.0	X	164.51114	252.25372	167.68560	6.20270	0.0413440	0.20913212	2.8109658	20	5 1.6	21.0
289497 2005 EU_{128}	17.2	X	175.65237	303.19440	149.32362	5.95338	0.1175381	0.28011207	2.3133863	20	6 26.3	20.6
289498 2005 EY_{128}	17.2	X	216.88223	125.76833	293.89125	1.45119	0.1491355	0.28040311	2.3117853	20	6 24.4	20.5
289499 2005 EC_{131}	16.5	X	251.01213	33.32683	309.88906	3.44307	0.0792593	0.20972900	2.8056300	20	4 28.6	20.6
289500 2005 ED_{132}	16.3	X	80.44648	94.10237	108.37773	10.95033	0.1645228	0.21407819	2.7675009	20	8 9.8	20.3
289501 2005 EJ_{133}	12.7	X	256.75784	1.09517	357.48183	26.80665	0.0487213	0.08233956	5.2327545	20	5 22.6	20.0
289502 2005 EL_{133}	16.3	X	196.24908	135.51450	20.45249	9.97879	0.0517802	0.22916270	2.6446818	20	10 12.1	19.9
289503 2005 EO_{134}	16.0	X	128.31355	153.96448	167.96141	12.22555	0.1346376	0.18016501	3.1047198	20	—	—
289504 2005 ED_{137}	17.6	X	185.66716	331.25706	164.69043	2.23283	0.0530265	0.28352805	2.2947675	20	9 9.8	20.4
289505 2005 ES_{137}	17.4	X	238.32412	50.09960	106.53693	6.04991	0.1067665	0.29977925	2.2110658	20	12 14.9	19.8
289506 2005 EA_{143}	17.0	X	89.59078	77.51091	105.52633	3.62378	0.0979925	0.27465718	2.3439162	20	7 19.4	20.0
289507 2005 EF_{151}	16.9	X	236.18328	354.26409	139.11376	4.45058	0.0711105	0.22788816	2.6545335	20	10 31.0	20.4
289508 2005 EJ_{153}	16.4	X	66.78563	177.90669	48.96964	20.51716	0.2154830	0.21338158	2.7735208	20	9 12.4	20.8
289509 2005 ES_{154}	17.5	X	323.46381	230.15563	41.31269	1.71262	0.1965639	0.26367902	2.4085315	20	4 12.1	19.6
289510 2005 EN_{160}	17.7	X	40.18035	114.10021	127.06733	1.89940	0.1585493	0.27346773	2.3507078	20	8 10.7	20.0
289511 2005 EV_{161}	17.8	X	154.41568	45.18243	118.25480	1.83641	0.1475813	0.28372522	2.2937043	20	9 8.7	21.1
289512 2005 EJ_{162}	16.5	X	2.49305	28.64111	123.45701	1.37819	0.1343950	0.19105862	2.9855542	20	1 24.2	19.8
289513 2005 EO_{162}	17.2	X	78.29003	99.77127	22.57457	3.25738	0.1854307	0.20123762	2.8840089	20	4 22.8	20.9
289514 2005 ES_{170}	16.3	X	250.49732	264.73775	254.84102	8.14932	0.1204769	0.23888699	2.5724151	20	12 16.5	19.5
289515 2005 EC_{174}	17.6	X	10.16853	292.21503	200.91929	5.86936	0.0982361	0.25435631	2.4670297	20	—	—
289516 2005 EN_{174}	16.4	X	339.84327	304.57016	189.48557	10.61198	0.0261156	0.24796161	2.5092644	20	—	—
289517 2005 ES_{175}	15.8	X	86.53679	52.81244	347.12075	9.04950	0.0493885	0.18514092	3.0488386	20	1 7.1	20.1
289518 2005 ES_{178}	17.9	X	156.89384	347.28903	228.54481	2.48194	0.1504955	0.29360368	2.2419627	20	11 18.6	21.0
289519 2005 ED_{179}	15.7	X	20.48126	6.12766	347.29382	14.00877	0.1629350	0.23069075	2.6329903	20	12 5.7	19.3
289520 2005 EF_{179}	16.3	X	47.64941	257.91735	190.49626	2.57447	0.1077021	0.18971386	2.9996460	20	1 16.0	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289521 2005 EY_{181}	17.0	X	355.89943	158.62236	75.82234	4.41576	0.1801379	0.26689832	2.3891247	20	4 26.1	18.8
289522 2005 EK_{186}	16.3	X	123.91071	154.15209	111.93755	3.94728	0.1477509	0.22989118	2.6390919	20	12 9.4	20.4
289523 2005 EL_{186}	16.3	X	153.98613	351.95726	153.80691	12.03926	0.1426723	0.21762901	2.7373155	20	8 9.3	20.6
289524 2005 EX_{186}	17.4	X	249.83762	264.14007	309.55630	1.09181	0.0961581	0.24296231	2.5435686	20	—	—
289525 2005 EZ_{189}	16.6	X	264.72130	281.94121	174.76921	3.90811	0.1757430	0.23571682	2.5954281	20	10 5.2	19.8
289526 2005 EV_{191}	17.6	X	101.90425	186.57844	287.07223	2.06235	0.1119443	0.26912494	2.3759288	20	4 29.1	20.7
289527 2005 EJ_{192}	17.7	X	292.04354	138.14802	292.18582	1.62582	0.1450623	0.29648871	2.2273952	20	11 3.1	19.4
289528 2005 EQ_{194}	16.4	X	0.05706	59.72307	183.39352	10.72850	0.0826199	0.20431603	2.8549670	20	5 23.8	20.0
289529 2005 EP_{196}	16.9	X	223.41493	72.25900	107.48326	2.23266	0.2219174	0.23416702	2.6068672	20	11 22.9	20.7
289530 2005 EY_{199}	16.7	X	161.16831	12.50671	35.75037	7.25521	0.1179291	0.27016643	2.3698187	20	4 13.3	20.0
289531 2005 EE_{200}	17.8	X	183.50497	239.59171	289.43251	1.99708	0.1080942	0.28999690	2.2605137	20	10 17.6	21.0
289532 2005 EJ_{203}	15.8	X	190.27417	350.80254	333.12209	11.32141	0.0495954	0.19715651	2.9236720	20	2 3.5	20.1
289533 2005 EL_{204}	16.1	X	345.22808	302.79702	171.05663	9.90479	0.2320003	0.18342693	3.0678020	20	—	—
289534 2005 EU_{207}	17.2	X	8.39370	295.53718	270.04993	1.42504	0.1449500	0.26479515	2.4017587	20	4 6.5	19.3
289535 2005 ET_{208}	17.6	X	33.35212	315.33733	325.84410	4.20232	0.1678533	0.28222241	2.3018396	20	9 29.5	20.0
289536 2005 EW_{208}	17.1	X	72.61294	354.56436	255.50330	1.42005	0.1351613	0.21976582	2.7195431	20	9 25.6	21.0
289537 2005 EM_{210}	17.3	X	84.35959	44.10461	180.67296	3.03737	0.1760833	0.28051739	2.3111574	20	9 19.5	20.4
289538 2005 EX_{211}	17.1	X	196.63707	241.49209	2.00279	4.66214	0.0955197	0.24054125	2.5606075	20	—	—
289539 2005 EF_{212}	14.8	X	332.32768	41.16491	138.21450	6.01152	0.1455554	0.12656334	3.9288378	20	1 22.7	19.7
289540 2005 EM_{213}	17.2	X	210.48135	143.87954	10.33123	2.41944	0.1184891	0.22870865	2.6481809	20	10 18.6	20.9
289541 2005 EW_{214}	16.5	X	176.48240	125.75904	106.39770	3.36573	0.0925481	0.23541828	2.5976218	20	12 21.7	20.2
289542 2005 EC_{217}	17.0	X	288.16928	65.49304	38.26902	8.47267	0.0447222	0.30173919	2.2014808	20	12 25.6	19.5
289543 2005 EO_{222}	16.2	X	104.83083	173.16550	41.54144	8.65592	0.0820599	0.22006664	2.7170642	20	9 16.2	20.2
289544 2005 EC_{225}	15.4	X	161.81321	181.65150	20.61780	33.69977	0.1476263	0.23200264	2.6230552	20	10 22.1	19.7
289545 2005 EW_{225}	16.2	X	210.21148	137.87222	96.74254	12.25782	0.1551359	0.24270131	2.5453918	20	—	—
289546 2005 EZ_{226}	16.9	X	62.32617	314.85240	354.04052	3.34795	0.2112551	0.22598952	2.6693807	20	12 7.1	20.9
289547 2005 EG_{227}	17.6	X	289.06698	263.81925	350.78473	0.90479	0.1615923	0.25724239	2.4485428	20	2 6.7	21.0
289548 2005 EL_{230}	18.1	X	230.01336	231.13451	356.58931	5.70135	0.1295783	0.30967385	2.1637132	20	—	—
289549 2005 EM_{231}	17.3	X	44.79559	358.75476	26.32054	2.25254	0.0503505	0.24266326	2.5456578	20	—	—
289550 2005 EC_{232}	17.6	X	218.48466	254.64642	38.28512	1.94303	0.1778603	0.25304577	2.4755402	20	1 17.4	21.6
289551 2005 EW_{233}	16.8	X	328.27825	129.47647	105.54823	8.85791	0.2095404	0.26036193	2.4289453	20	2 28.4	19.5
289552 2005 EW_{237}	16.5	X	269.20662	339.33115	143.01334	3.48939	0.0489803	0.23396183	2.6083911	20	12 3.4	19.8
289553 2005 EE_{241}	15.8	X	355.44858	175.16934	30.20924	8.36149	0.1584424	0.19896997	2.9058801	20	3 22.5	18.9
289554 2005 EM_{248}	17.7	X	136.63767	81.05156	15.35931	1.36271	0.1428655	0.27175989	2.3605461	20	5 21.6	20.9
289555 2005 EF_{250}	16.6	X	112.39453	351.73694	185.31240	9.50783	0.1444923	0.21136491	2.7911347	20	8 6.0	21.0
289556 2005 EW_{251}	16.9	X	241.94617	150.07149	300.77756	0.81316	0.0540359	0.22112927	2.7083527	20	9 11.9	20.5
289557 2005 EO_{262}	17.0	X	231.94161	329.21921	118.25278	5.48413	0.1227880	0.28788212	2.2715707	20	8 25.1	19.9
289558 2005 ES_{265}	16.2	X	334.37138	66.29165	196.11115	11.91206	0.1257719	0.20160823	2.8804735	20	5 4.3	19.6
289559 2005 EP_{266}	16.5	X	26.56414	112.46639	193.34207	8.64493	0.1672828	0.21607565	2.7504188	20	10 12.5	19.7
289560 2005 EF_{267}	15.7	X	350.71972	229.83328	204.27674	14.93307	0.1961156	0.17484985	3.1673243	20	—	—
289561 2005 EW_{268}	16.9	X	272.93101	118.25317	339.45479	3.49561	0.0457894	0.22790937	2.6543688	20	11 3.2	20.4
289562 2005 EU_{269}	16.7	X	28.41849	282.14489	271.67599	8.97011	0.1304342	0.26568491	2.3963934	20	4 26.9	19.2
289563 2005 EF_{270}	16.7	X	62.95201	4.64300	117.46321	8.01067	0.0617866	0.25963966	2.4334478	20	3 12.2	19.6
289564 2005 EL_{272}	14.8	X	279.69800	194.81768	52.29752	3.55435	0.1489121	0.12488697	3.9639177	20	2 6.7	20.6
289565 2005 EB_{281}	16.5	X	228.35385	210.41086	94.79291	10.56237	0.0421095	0.25738050	2.4476668	20	2 17.1	19.9
289566 2005 EE_{283}	15.5	X	285.64448	146.53223	21.27523	10.27927	0.0614475	0.17886115	3.1197900	20	—	—
289567 2005 EL_{289}	17.0	X	94.21997	126.32897	92.35006	6.23401	0.1083934	0.28452720	2.2893921	20	9 19.2	20.2
289568 2005 EN_{290}	15.8	X	194.70162	103.59727	323.65967	8.25552	0.0685182	0.21316915	2.7753631	20	6 13.3	20.0
289569 2005 EY_{290}	16.2	X	74.23081	155.10744	82.27566	7.82102	0.1572713	0.21539562	2.7562047	20	9 18.7	20.3
289570 2005 EE_{291}	17.1	X	200.60611	13.02475	134.47983	6.50238	0.0728014	0.28941734	2.2635305	20	10 16.8	20.1
289571 2005 EN_{291}	17.0	X	348.77048	124.49463	154.77295	7.63395	0.2128684	0.27329706	2.3516864	20	6 22.8	18.6
289572 2005 EJ_{292}	16.3	X	231.91199	44.41669	104.73186	4.95039	0.1466873	0.23070478	2.6328836	20	11 4.7	20.0
289573 2005 EF_{307}	16.6	X	9.74877	169.30809	166.44101	14.61029	0.1375571	0.22632164	2.6667686	20	10 27.8	19.8
289574 2005 EX_{309}	16.7	X	111.76815	0.22870	345.02237	0.79366	0.1101455	0.24292439	2.5438332	20	—	—
289575 2005 EC_{312}	17.4	X	309.16206	230.92378	28.77463	3.08707	0.1422111	0.26396922	2.4067659	20	3 13.1	20.1
289576 2005 ES_{312}	16.9	X	315.95089	339.68541	338.24773	6.35984	0.2314422	0.27453575	2.3446073	20	6 1.1	19.0
289577 2005 EX_{315}	16.8	X	45.30168	21.78994	0.90802	17.57421	0.1979144	0.24199969	2.5503092	20	—	—
289578 2005 ET_{317}	16.9	X	38.46361	264.92700	354.23830	4.66711	0.0372837	0.21404254	2.7678082	20	8 9.7	20.4
289579 2005 EN_{323}	16.6	X	251.64406	268.35856	157.62816	7.77642	0.2846524	0.22745272	2.6579203	20	7 21.4	20.7
289580 2005 ER_{324}	16.0	X	265.11958	275.51401	25.75986	13.74654	0.3713984	0.18897943	3.0074127	20	3 3.0	21.4
289581 2005 EN_{325}	17.4	X	283.71555	101.34866	16.03497	5.29880	0.2655294	0.23836925	2.5761386	20	11 20.5	19.7
289582 2005 FO_{1}	17.7	X	163.82260	308.83883	170.64216	5.72462	0.1766895	0.28070248	2.3101413	20	7 19.6	21.5
289583 2005 FW_{2}	17.4	X	196.89960	186.51329	42.35934	6.75050	0.0717504	0.30307638	2.1950006	20	—	—
289584 2005 FF_{4}	15.3	X	326.21619	126.78993	330.22696	9.35408	0.0539030	0.17379631	3.1801116	20	—	—
289585 2005 FG_{4}	17.1	X	352.66134	104.34099	118.77793	3.56331	0.1615758	0.26382397	2.4076492	20	4 2.6	19.1
289586 Shackleton	17.3	X	61.38795	351.74909	184.18844	2.11556	0.1330465	0.26957517	2.3732826	20	6 3.3	19.8
289587 Chantdugros	17.5	X	117.87403	197.06511	23.89482	3.08044	0.1847290	0.28401813	2.2921270	20	10 18.5	20.9
289588 2005 FL_{5}	17.3	X	6.83988	236.33422	10.74013	5.72743	0.0807662	0.27295809	2.3536330	20	6 7.5	19.8
289589 2005 FM_{6}	16.9	X	177.99174	216.19401	41.93632	12.62562	0.2363682	0.23569536	2.5955856	20	—	—
289590 2005 FJ_{11}	15.7	X	66.10997	113.79583	86.62546	10.46574	0.0498245	0.20398267	2.8580767	20	6 29.6	19.6
289591 2005 FC_{13}	16.3	X	59.29797	179.20058	99.21177	9.72221	0.2723746	0.21560068	2.7544568	20	11 6.5	20.6
289592 2005 FY_{14}	15.8	X	296.98231	151.36114	47.73518	5.61331	0.1130871	0.18454982	3.0553452	20	—	—
289593 2005 GU_{2}	17.4	X	99.75693	149.58106	34.62095	2.86183	0.1329704	0.27652114	2.3333712	20	8 8.8	20.7
289594 2005 GW_{2}	17.3	X	21.94052	26.21893	193.54429	5.43647	0.1651388	0.26651920	2.3913898	20	6 1.9	19.3
289595 2005 GK_{5}	17.2	X	75.04937	122.67208	77.24382	4.98416	0.0912471	0.27279420	2.3545755	20	7 23.2	20.0
289596 2005 GM_{5}	15.9	X	46.41973	282.12152	180.64235	9.92265	0.0688726	0.18620056	3.0372606	20	1 28.8	20.0
289597 2005 GT_{5}	17.0	X	320.23163	73.34586	131.95580	3.24522	0.1295540	0.25325512	2.4741758	20	1 17.5	20.1
289598 2005 GX_{6}	16.6	X	356.07358	200.19837	41.40236	8.99859	0.2055397	0.26422854	2.4051910	20	5 5.1	18.1
289599 2005 GH_{9}	15.0	X	293.23134	223.71842	246.14269	23.06554	0.2221788	0.24075504	2.5590914	20	12 8.8	17.1
289600 2005 GR_{9}	15.4	X	217.50048	238.06275	32.81252	11.30164	0.0243512	0.18236510	3.0796987	20	1 2.3	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289601 2005 GJ_{10}	17.3	X	344.39396	158.79203	81.77515	1.65828	0.1531476	0.26386889	2.4073759	20	4 12.5	19.3
289602 2005 GU_{10}	17.3	X	102.34092	54.31662	79.14945	3.38234	0.1249871	0.26957426	2.3732880	20	5 30.4	20.5
289603 2005 GA_{12}	17.0	X	128.76553	62.30959	124.88598	5.63434	0.1110455	0.28185577	2.3038353	20	9 14.2	20.3
289604 2005 GF_{17}	18.0	X	328.95200	187.93821	179.81888	6.36469	0.0361477	0.28911025	2.2651331	20	10 8.7	20.3
289605 2005 GZ_{18}	16.6	X	157.43941	276.54619	189.72028	3.71747	0.0570686	0.20888300	2.8132003	20	6 21.2	20.7
289606 2005 GB_{19}	16.1	X	175.18554	135.58052	12.99350	8.78194	0.0450058	0.21933676	2.7230886	20	9 9.0	20.0
289607 2005 GA_{21}	16.8	X	28.40764	195.88842	352.47344	5.09580	0.0398084	0.26407662	2.4061134	20	4 14.3	19.5
289608 Wanli	17.1	X	53.90181	132.24856	54.77710	4.50738	0.0944083	0.26972145	2.3724244	20	5 31.5	19.5
289609 2005 GS_{23}	16.1	X	147.30686	184.52865	45.42567	14.12139	0.1272599	0.22546456	2.6735226	20	11 15.5	20.4
289610 2005 GP_{24}	16.8	X	133.39465	119.42959	165.50024	7.95557	0.2205082	0.23749997	2.5824208	20	—	—
289611 2005 GW_{25}	16.7	X	79.35860	56.16436	193.02926	1.04580	0.0817006	0.21707486	2.7419720	20	9 25.7	20.6
289612 2005 GM_{27}	15.5	X	271.99906	182.79083	24.07430	17.72838	0.1045032	0.17985550	3.1082807	20	—	—
289613 2005 GU_{27}	16.9	X	341.98686	294.41265	275.56759	3.36327	0.1289653	0.25854918	2.4402853	20	2 23.7	19.5
289614 2005 GZ_{27}	16.9	X	354.81382	323.01764	261.19438	3.07971	0.2465436	0.26196939	2.4189990	20	3 26.2	18.5
289615 2005 GX_{28}	17.8	X	57.59001	39.94533	224.40475	1.73092	0.1362310	0.27951586	2.3166748	20	10 5.6	20.7
289616 2005 GP_{30}	17.5	X	3.01465	63.59950	24.97660	13.76132	0.1507212	0.24336568	2.5407571	20	—	—
289617 2005 GY_{30}	16.2	X	352.38163	271.55144	43.04451	3.32731	0.0658026	0.21282989	2.7783117	20	8 19.5	19.5
289618 2005 GE_{32}	17.9	X	155.07342	70.36139	175.38913	10.22938	0.1514225	0.35938538	1.9592767	20	—	—
289619 2005 GO_{34}	15.3	X	212.49636	231.82808	35.02049	10.24401	0.1883445	0.17603672	3.1530719	20	—	—
289620 2005 GK_{38}	17.4	X	80.33442	317.19013	266.98529	3.11029	0.2079406	0.27731021	2.3289427	20	9 15.9	20.8
289621 2005 GC_{46}	16.1	X	166.79906	180.77482	215.36212	1.94920	0.0731718	0.19855491	2.9099284	20	4 4.2	20.4
289622 2005 GU_{46}	16.9	X	66.80545	39.94696	197.43950	2.18000	0.1136133	0.21406119	2.7676474	20	8 29.1	20.5
289623 2005 GD_{49}	16.6	X	133.49539	115.56937	191.85712	7.77731	0.0749694	0.23634224	2.5908473	20	—	—
289624 2005 GS_{51}	16.8	X	333.57732	115.15232	100.13022	5.74960	0.1171534	0.25653376	2.4530498	20	2 23.4	19.5
289625 2005 GY_{52}	17.0	X	96.42299	98.12779	132.95336	0.62518	0.1377504	0.21507603	2.7589344	20	9 28.8	21.0
289626 2005 GZ_{52}	16.3	X	261.46400	127.12272	205.95669	1.75795	0.0924509	0.19671833	2.9280119	20	4 28.5	20.5
289627 2005 GS_{55}	15.6	X	283.19988	294.32637	268.88188	8.88846	0.0319829	0.18213968	3.0822392	20	—	—
289628 2005 GV_{57}	17.3	X	42.40539	37.87305	157.94849	2.40526	0.1571263	0.26707849	2.3880502	20	6 4.5	19.5
289629 2005 GR_{61}	16.5	X	82.22977	86.36543	187.00732	1.83674	0.0494196	0.22318287	2.6917134	20	10 27.5	20.3
289630 2005 GM_{62}	17.5	X	103.91054	261.79511	342.22713	3.86480	0.1326983	0.28926129	2.2643445	20	10 31.4	20.8
289631 2005 GO_{72}	17.8	X	253.25839	24.22870	168.22024	6.00331	0.1197983	0.30603231	2.1808436	20	—	—
289632 2005 GM_{76}	17.1	X	265.23450	32.18050	92.68948	7.63471	0.1093225	0.29723787	2.2236510	20	12 11.7	19.1
289633 2005 GX_{76}	17.6	X	352.74989	181.65430	44.62337	1.68711	0.1361083	0.26245408	2.4160198	20	4 8.6	19.9
289634 2005 GQ_{78}	16.2	X	192.02975	159.56882	106.65638	14.66079	0.1930085	0.23732078	2.5837206	20	—	—
289635 2005 GW_{82}	16.8	X	230.92803	132.59783	357.54979	4.90579	0.0149754	0.22942133	2.6426938	20	10 25.3	20.4
289636 2005 GS_{88}	16.7	X	167.33613	53.13531	202.63644	2.00509	0.1517329	0.23245583	2.6196449	20	—	—
289637 2005 GF_{89}	17.6	X	117.23887	139.24581	188.54010	7.60700	0.1421385	0.23634920	2.5907965	20	—	—
289638 2005 GG_{91}	15.8	X	28.82949	62.92835	3.11936	8.90467	0.0694081	0.17668489	3.1453557	20	—	—
289639 2005 GT_{91}	17.3	X	351.21512	327.79376	290.23930	2.64126	0.1309160	0.26694421	2.3888509	20	5 25.2	19.4
289640 2005 GQ_{92}	16.8	X	267.02014	124.09214	42.82355	14.54544	0.1904793	0.24099530	2.5573902	20	—	—
289641 2005 GS_{92}	16.0	X	228.07602	116.18760	131.06437	2.14568	0.1280000	0.17569301	3.1571828	20	—	—
289642 2005 GQ_{93}	17.4	X	20.65371	12.89681	228.99326	5.57520	0.0819198	0.27005864	2.3704493	20	6 25.2	19.9
289643 2005 GU_{97}	17.5	X	222.84786	324.84618	136.48085	4.55178	0.0958432	0.28308838	2.2971429	20	9 4.8	20.4
289644 2005 GM_{100}	17.6	X	315.43946	347.07668	223.02849	1.81657	0.1417877	0.25665752	2.4522611	20	1 14.7	20.6
289645 2005 GH_{103}	15.3	X	278.21907	120.46803	21.05371	32.57267	0.1709039	0.17282491	3.1920167	20	11 25.3	20.0
289646 2005 GP_{107}	17.5	X	219.89859	316.66658	180.70607	1.30065	0.1519003	0.29161512	2.2521433	20	10 13.9	20.4
289647 2005 GW_{107}	16.9	X	4.87105	351.72020	31.04966	6.22906	0.0821559	0.22926428	2.6439006	20	12 11.1	20.2
289648 2005 GT_{108}	17.5	X	308.30881	108.50109	124.42772	1.98982	0.1288104	0.25462474	2.4652955	20	2 7.2	20.6
289649 2005 GS_{109}	16.7	X	257.78272	281.27090	78.55462	3.05899	0.0891420	0.20280728	2.8691088	20	5 28.8	20.8
289650 2005 GX_{109}	17.7	X	286.85993	261.95663	28.50362	1.51280	0.1169644	0.25962240	2.4335556	20	3 28.2	20.8
289651 2005 GQ_{110}	17.7	X	39.84162	162.78725	13.62474	1.26042	0.1246223	0.26274388	2.4142430	20	4 24.9	20.0
289652 2005 GB_{114}	15.9	X	191.02207	66.66088	76.09387	15.46122	0.1395340	0.22258877	2.6965008	20	9 20.4	20.4
289653 2005 GE_{114}	15.9	X	236.04934	339.73831	183.21024	14.24295	0.1916814	0.23127569	2.6285489	20	11 21.3	19.7
289654 2005 GJ_{116}	17.3	X	140.77391	265.56497	340.98749	1.75136	0.1012876	0.22692581	2.6620331	20	11 30.3	21.3
289655 2005 GV_{116}	17.7	X	36.94637	65.88291	229.96567	1.68436	0.2048677	0.27896587	2.3197188	20	11 1.6	20.4
289656 2005 GW_{117}	15.3	X	205.37550	312.70588	25.77747	16.54106	0.2241421	0.19007700	2.9958242	20	3 11.2	20.7
289657 2005 GF_{118}	17.6	X	280.96055	255.86458	65.74843	2.41017	0.1976195	0.26475058	2.4020282	20	4 20.1	20.9
289658 2005 GW_{118}	17.3	X	17.83818	181.70445	142.76394	3.15408	0.1902712	0.28298621	2.2976958	20	11 14.1	19.7
289659 2005 GN_{120}	16.4	X	155.00415	232.41112	194.84653	1.58622	0.0505443	0.20310965	2.8662606	20	4 28.9	20.6
289660 2005 GO_{123}	15.7	X	249.97414	232.41075	32.46695	14.60627	0.2191663	0.18079826	3.0974660	20	1 19.7	21.1
289661 2005 GY_{124}	14.7	X	345.73915	14.90714	164.36479	2.97791	0.1536249	0.12333854	3.9970249	20	2 10.8	19.8
289662 2005 GC_{127}	16.4	X	131.18789	52.11269	164.82733	3.49591	0.0824373	0.22041696	2.7141846	20	10 15.0	20.4
289663 2005 GP_{127}	17.4	X	16.76846	293.24585	341.95837	2.19287	0.1662887	0.27239458	2.3568779	20	8 21.9	19.3
289664 2005 GV_{127}	16.0	X	191.85264	210.88902	30.71785	15.86887	0.1041927	0.23650587	2.5896522	20	—	—
289665 2005 GG_{128}	16.5	X	9.07964	208.83366	35.00508	11.40059	0.1825590	0.26893254	2.3770619	20	6 11.0	18.5
289666 2005 GV_{131}	17.1	X	51.94001	111.92759	158.02852	2.98816	0.1487739	0.21435512	2.7651168	20	9 28.3	20.6
289667 2005 GF_{133}	16.2	X	321.82049	284.87972	107.87138	3.46858	0.0597712	0.22258622	2.6965214	20	10 19.9	19.4
289668 2005 GN_{137}	18.5	X	273.58653	201.87507	55.56234	2.58481	0.1154300	0.31786566	2.1263772	20	1 21.3	21.4
289669 2005 GS_{137}	16.3	X	313.51023	158.05842	218.25434	12.92299	0.1256788	0.21549422	2.7553639	20	9 1.0	19.7
289670 2005 GF_{139}	16.8	X	254.11098	343.64179	133.71570	3.60350	0.1608541	0.22780581	2.6551732	20	10 19.9	20.2
289671 2005 GT_{141}	16.8	X	228.92954	10.27347	231.93399	4.61706	0.2157302	0.24335077	2.5408609	20	—	—
289672 2005 GH_{143}	16.8	X	355.18588	314.60737	124.23308	5.44992	0.1642154	0.23831861	2.5765036	20	—	—
289673 2005 GO_{143}	16.2	X	241.83827	85.73185	190.70585	15.16683	0.2292461	0.18109680	3.0940609	20	1 19.9	21.7
289674 2005 GZ_{144}	16.1	X	11.57154	299.17327	358.25922	4.35225	0.0467923	0.21329255	2.7742926	20	8 23.7	19.6
289675 2005 GA_{149}	16.4	X	18.27066	150.70192	157.10152	5.62986	0.0498595	0.21414345	2.7669386	20	9 16.6	20.0
289676 2005 GY_{149}	16.1	X	271.87035	135.73322	48.97587	27.88156	0.1270242	0.17458855	3.1704839	20	—	—
289677 2005 GD_{150}	15.8	X	237.16808	94.95090	136.22499	5.12288	0.1141834	0.17454050	3.1710657	20	—	—
289678 2005 GM_{150}	17.2	X	139.37023	91.06666	75.94481	5.67128	0.0647629	0.27769135	2.3268112	20	8 28.3	20.4
289679 2005 GN_{150}	16.7	X	21.27631	51.21869	122.45854	3.87141	0.1463912	0.19302949	2.9651974	20	3 27.6	20.0
289680 2005 GX_{150}	16.6	X	174.73026	45.07442	109.62588	3.50036	0.0928979	0.21741980	2.7390712	20	9 13.3	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289681 2005 GW_{156}	16.2	X	301.84534	319.11787	57.96881	5.90952	0.1759109	0.21301023	2.7767433	20	8 13.3	19.4
289682 2005 GG_{157}	16.1	X	46.39772	218.80259	34.57131	7.22885	0.0966853	0.21147549	2.7901616	20	8 23.9	19.8
289683 2005 GW_{158}	16.7	X	7.13507	238.45670	297.04219	3.65210	0.1164348	0.25735235	2.4478452	20	2 20.4	19.3
289684 2005 GH_{161}	15.9	X	355.19038	34.95349	129.34766	7.84688	0.1299624	0.18899508	3.0072467	20	1 28.8	19.5
289685 2005 GV_{161}	16.6	X	151.04579	90.84782	133.32138	7.76232	0.2201081	0.22543845	2.6737290	20	11 14.3	21.3
289686 2005 GZ_{162}	16.1	X	315.51868	237.21028	186.94721	21.76779	0.0634347	0.22832921	2.6511140	20	11 23.1	19.7
289687 2005 GE_{164}	17.3	X	132.44209	342.30922	345.62155	1.02591	0.0649954	0.23913916	2.5706064	20	—	—
289688 2005 GC_{165}	15.9	X	344.87492	307.62846	217.75166	8.62872	0.0458949	0.18448809	3.0560268	20	1 21.6	20.3
289689 2005 GW_{166}	16.7	X	290.27562	287.24499	37.84520	2.30757	0.1254601	0.20122491	2.8841304	20	5 19.4	20.6
289690 2005 GE_{167}	17.7	X	8.51644	85.67788	197.03624	1.75574	0.2015959	0.27003721	2.3705747	20	8 20.3	19.4
289691 2005 GH_{167}	17.4	X	26.80006	83.04741	216.18130	4.81184	0.2537628	0.27488669	2.3426114	20	10 30.5	19.9
289692 2005 GT_{167}	17.5	X	100.75918	131.45401	42.77059	2.78232	0.1547456	0.27253007	2.3560966	20	7 29.1	20.9
289693 2005 GY_{170}	16.6	X	75.23007	326.27139	246.00935	2.51316	0.0331181	0.20925644	2.8098523	20	7 25.1	20.4
289694 2005 GG_{175}	16.0	X	204.91259	276.95744	30.91487	10.74757	0.1028372	0.18236635	3.0796846	20	2 3.8	21.0
289695 2005 GF_{176}	15.8	X	184.01261	305.42854	204.42864	24.85226	0.1267948	0.21864429	2.7288351	20	9 9.7	20.4
289696 2005 GS_{177}	16.8	X	263.65552	312.77216	1.11826	0.58207	0.0579430	0.19621474	2.9330196	20	4 11.2	20.7
289697 2005 GG_{180}	16.0	X	288.21220	59.93061	109.73810	29.09665	0.1526500	0.24064325	2.5598838	20	—	—
289698 2005 GL_{181}	16.5	X	112.30304	182.63580	70.83968	3.41307	0.0435954	0.22439919	2.6819779	20	11 6.9	20.4
289699 2005 GP_{203}	17.2	X	34.05410	113.15299	154.84434	3.20732	0.1404008	0.21314465	2.7755758	20	8 28.5	20.6
289700 2005 GF_{204}	18.1	X	195.44302	129.16774	163.19478	3.37281	0.1592503	0.31039108	2.1603787	20	—	—
289701 2005 GP_{205}	16.8	X	280.80745	55.08931	95.19106	2.79503	0.0580950	0.23527356	2.5986869	20	—	—
289702 2005 GR_{206}	16.1	X	290.83234	163.69875	210.05321	8.61819	0.0631033	0.21037808	2.7998562	20	8 1.3	19.9
289703 2005 GU_{223}	17.2	X	4.49673	103.37097	143.17628	2.63437	0.1703554	0.26606130	2.3941328	20	6 6.1	19.0
289704 2005 GB_{224}	17.4	X	9.92565	1.49142	240.74262	5.35081	0.1913033	0.26642499	2.3919536	20	6 13.1	19.0
289705 2005 GZ_{225}	17.8	X	115.67068	294.38184	212.98670	0.54367	0.1267531	0.27087564	2.3656804	20	7 5.2	21.1
289706 2005 GF_{227}	16.3	X	293.74462	181.95720	11.92409	7.90184	0.1655674	0.24504517	2.5291347	20	—	—
289707 2005 GY_{227}	15.5	X	209.70872	154.36446	127.19847	12.14078	0.0367728	0.17806693	3.1290598	20	1 6.1	20.1
289708 2005 HN	17.0	X	304.52359	133.70567	347.50342	3.36659	0.0979698	0.23665402	2.5885712	20	—	—
289709 2005 HP_{2}	17.0	X	122.81941	35.03538	222.59963	2.97774	0.0233547	0.22443448	2.6816967	20	11 23.1	20.7
289710 2005 HX_{6}	17.3	X	349.66454	40.89134	202.17546	5.78048	0.0793963	0.26628021	2.3928205	20	5 2.9	19.7
289711 2005 HV_{7}	16.9	X	47.52484	177.95321	101.44010	5.16372	0.0959650	0.27899191	2.3195744	20	10 10.1	19.7
289712 2005 HP_{10}	15.1	X	317.52763	346.42344	203.62413	16.28925	0.1166014	0.18221769	3.0813595	20	1 7.1	19.6
289713 2005 JE	16.4	X	277.83283	260.40461	305.03347	5.02803	0.0722233	0.24345588	2.5401296	20	—	—
289714 2005 JJ_{2}	17.5	X	22.23663	312.02589	224.69563	0.62911	0.1320022	0.26186447	2.4196451	20	3 22.2	19.4
289715 2005 JZ_{2}	17.5	X	319.49127	186.85466	57.35097	2.24896	0.1471760	0.25690569	2.4506817	20	3 7.1	20.3
289716 2005 JZ_{3}	17.3	X	61.22345	175.28718	58.20565	6.09955	0.1548771	0.27661239	2.3328579	20	9 3.6	20.2
289717 2005 JP_{4}	16.7	X	106.67089	77.55869	144.93655	11.38729	0.2376315	0.21464720	2.7626077	20	10 9.2	21.4
289718 2005 JB_{5}	14.9	X	176.82989	219.85517	92.23259	29.49663	0.2697546	0.17156022	3.2076845	20	1 16.5	20.7
289719 2005 JK_{8}	17.4	X	186.66864	78.35181	204.56661	2.17040	0.0297123	0.24243169	2.5472786	20	—	—
289720 2005 JE_{11}	17.7	X	316.50578	236.05290	38.68202	3.53391	0.1702590	0.26172510	2.4205040	20	4 9.9	20.4
289721 2005 JE_{13}	17.4	X	271.60822	345.58166	50.80711	3.76399	0.1857175	0.27854270	2.3220676	20	7 25.8	20.1
289722 2005 JE_{16}	15.3	X	268.44590	160.89872	76.31124	10.66722	0.0415327	0.18247286	3.0784861	20	1 19.1	19.8
289723 2005 JE_{17}	16.8	X	352.71716	82.05000	224.45293	6.73349	0.2938112	0.26901791	2.3765589	20	8 29.1	18.0
289724 2005 JG_{17}	16.0	X	118.15021	269.67303	41.24763	14.73774	0.1290602	0.23074216	2.6325992	20	—	—
289725 2005 JR_{17}	16.9	X	316.59697	132.58781	154.70569	6.81476	0.1312597	0.26224931	2.4172773	20	5 7.1	19.6
289726 2005 JV_{17}	16.9	X	35.29086	344.46884	356.22362	0.25907	0.0653597	0.22314536	2.6920150	20	11 25.2	20.5
289727 2005 JE_{21}	16.3	X	189.50254	54.81124	172.10917	13.48444	0.2164888	0.23027505	2.6361581	20	12 17.4	20.8
289728 2005 JY_{21}	16.3	X	262.71317	330.86593	218.53632	28.17291	0.0643727	0.23948116	2.5681585	20	—	—
289729 2005 JV_{23}	17.4	X	264.77911	244.27213	56.36091	7.41680	0.1200953	0.25577260	2.4579141	20	3 18.3	20.9
289730 2005 JV_{24}	17.3	X	341.91553	158.04848	67.12210	2.11832	0.1408717	0.25840745	2.4411775	20	3 17.9	19.7
289731 2005 JC_{27}	17.1	X	163.50128	131.61348	199.64735	9.57725	0.2472467	0.23868762	2.5738473	20	1 19.4	21.6
289732 2005 JM_{28}	16.9	X	141.01734	103.52476	157.36651	8.16716	0.2644095	0.22460337	2.6803523	20	12 16.7	21.9
289733 2005 JX_{28}	16.6	X	357.02011	31.26241	183.87711	9.72557	0.0838336	0.19240824	2.9715767	20	4 10.7	20.3
289734 2005 JB_{29}	13.5	X	143.11248	346.37985	209.71735	20.73170	0.0244912	0.08409915	5.1595083	20	9 7.5	20.7
289735 2005 JH_{29}	15.7	X	287.32078	17.10536	186.83111	11.54571	0.0359248	0.17737390	3.1372051	20	—	—
289736 2005 JL_{30}	18.1	X	189.24026	198.03844	84.72776	4.49781	0.1336761	0.30401989	2.1904569	20	—	—
289737 2005 JE_{33}	16.5	X	5.11170	67.83854	215.27561	0.99053	0.0276354	0.20637421	2.8359535	20	7 22.4	20.1
289738 2005 JU_{35}	16.8	X	167.78921	211.50457	117.37506	5.88574	0.2261826	0.23855947	2.5747690	20	1 20.9	21.1
289739 2005 JX_{35}	17.7	X	20.03691	91.35561	189.58758	5.90167	0.2592273	0.27025804	2.3692832	20	9 21.9	19.8
289740 2005 JA_{37}	16.1	X	78.74312	198.61962	112.55018	15.70551	0.1018781	0.22182441	2.7026916	20	12 16.3	20.2
289741 2005 JF_{37}	17.1	X	328.37837	234.50157	226.84818	19.37780	0.1086928	0.36620658	1.9348707	20	—	—
289742 2005 JN_{42}	15.4	X	253.21530	242.59491	42.80040	13.95223	0.1317787	0.18590661	3.0404614	20	2 24.7	20.3
289743 2005 JN_{47}	16.4	X	339.47517	345.43381	67.48238	3.82991	0.0704663	0.22696957	2.6616909	20	12 11.9	19.6
289744 2005 JO_{49}	16.1	X	67.43459	178.95407	113.65880	3.76758	0.0739384	0.21934374	2.7230308	20	11 6.5	20.0
289745 2005 JT_{52}	15.9	X	263.95515	177.73169	83.78198	10.97451	0.0712119	0.18393579	3.0621413	20	2 10.1	20.5
289746 2005 JT_{53}	16.5	X	188.56616	285.42135	198.34748	12.39156	0.0633601	0.21254833	2.7807648	20	8 15.7	20.8
289747 2005 JN_{56}	16.3	X	108.58871	83.02457	156.98827	12.20891	0.0184368	0.21667769	2.7453218	20	10 15.7	20.2
289748 2005 JB_{58}	17.8	X	48.84676	189.21964	17.41338	1.58752	0.1289381	0.26777991	2.3838782	20	6 27.9	20.4
289749 2005 JQ_{58}	16.3	X	226.76429	27.02336	57.92661	3.68587	0.0519811	0.21612683	2.7499846	20	8 17.5	20.2
289750 2005 JH_{60}	16.7	X	274.33069	168.33859	147.01480	5.62125	0.1210086	0.19418079	2.9534653	20	4 19.7	21.0
289751 2005 JB_{61}	16.8	X	237.60283	354.45360	198.81354	10.02040	0.0750276	0.23260821	2.6185007	20	—	—
289752 2005 JX_{62}	17.1	X	120.32522	31.40630	47.24187	3.63217	0.1361651	0.25723395	2.4485963	20	4 10.4	20.5
289753 2005 JL_{63}	16.9	X	118.77583	159.27587	89.97179	24.19682	0.0523512	0.35299555	1.9828502	20	12 8.9	19.2
289754 2005 JG_{65}	16.0	X	212.54739	269.93493	263.69718	10.31695	0.1386403	0.22978671	2.6398917	20	11 10.9	19.9
289755 2005 JP_{66}	16.2	X	100.04589	328.59464	253.55507	7.93067	0.1495149	0.21408604	2.7674332	20	9 18.1	20.5
289756 2005 JF_{69}	15.4	X	221.28702	240.18694	100.03715	28.49081	0.1485440	0.18674822	3.0313197	20	4 5.3	20.8
289757 2005 JB_{73}	16.8	X	310.71162	301.81569	145.36361	2.43111	0.0638398	0.22807276	2.6531009	20	12 14.3	20.0
289758 2005 JW_{73}	15.6	X	279.07779	144.41676	63.53788	10.56954	0.0461874	0.17789490	3.1310768	20	—	—
289759 2005 JG_{75}	17.0	X	64.62599	44.35927	236.47676	12.38948	0.2573782	0.27899776	2.3195420	20	11 19.2	20.4
289760 2005 JH_{75}	15.3	X	349.47842	308.38134	248.93913	7.82588	0.1515859	0.18971531	2.9996307	20	2 24.9	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289761 2005 JK_{75}	16.9	X	160.09718	61.10360	174.71229	3.46831	0.1261601	0.23032538	2.6357741	20	12 6.9	21.1
289762 2005 JN_{75}	16.0	X	72.78513	129.92398	99.05746	11.12930	0.1546505	0.21105927	2.7938287	20	9 5.6	20.1
289763 2005 JC_{76}	17.9	X	94.85941	248.98771	43.48200	4.67162	0.1394170	0.28815667	2.2701276	20	12 24.7	21.3
289764 2005 JT_{77}	17.1	X	343.91652	294.91335	206.14997	5.30917	0.1052104	0.24586049	2.5235401	20	—	—
289765 2005 JX_{81}	16.9	X	210.57721	89.67047	174.77220	11.32951	0.2225301	0.23894005	2.5720343	20	—	—
289766 2005 JA_{82}	16.3	X	95.90075	334.38700	194.25512	11.95641	0.0263319	0.20215785	2.8752502	20	6 23.0	20.5
289767 2005 JY_{82}	17.3	X	313.40410	44.16112	201.92832	7.34748	0.0846005	0.26114653	2.4240777	20	3 6.8	20.3
289768 2005 JQ_{83}	17.1	X	9.31486	30.08506	204.20384	5.46490	0.0944513	0.26419941	2.4053678	20	5 25.3	19.5
289769 2005 JS_{87}	17.0	X	19.83748	156.95171	113.10209	6.90767	0.1649467	0.27031810	2.3689322	20	8 20.8	19.2
289770 2005 JB_{90}	17.5	X	156.77314	50.28429	140.14280	2.21810	0.1458468	0.28492232	2.2872751	20	10 16.7	21.0
289771 2005 JR_{91}	16.9	X	341.93454	16.52103	241.26772	5.44059	0.0809802	0.26261031	2.4150615	20	5 10.5	19.6
289772 2005 JJ_{92}	16.9	X	17.28072	332.76376	314.35153	6.83510	0.1029787	0.27392732	2.3480778	20	8 29.9	19.2
289773 2005 JY_{92}	16.4	X	192.06830	343.06624	278.26853	8.81682	0.1708313	0.23751695	2.5822977	20	—	—
289774 2005 JP_{93}	16.4	X	108.79382	251.79215	42.69963	10.43991	0.2026819	0.22389589	2.6859956	20	12 30.1	21.0
289775 2005 JT_{95}	17.1	X	347.49717	140.33694	155.07967	2.23054	0.2052697	0.26770269	2.3843366	20	7 18.3	18.7
289776 2005 JK_{96}	16.8	X	190.16259	26.79775	195.26024	4.47992	0.1811914	0.23044819	2.6348376	20	12 14.7	21.0
289777 2005 JG_{97}	16.1	X	205.69176	296.67503	174.32300	4.46687	0.0185220	0.21243230	2.7817772	20	8 26.3	20.0
289778 2005 JR_{97}	16.8	X	243.85406	24.91127	144.54675	3.34544	0.0652241	0.23083301	2.6319084	20	12 26.0	20.3
289779 2005 JF_{100}	16.3	X	136.79479	119.65539	201.51888	11.50603	0.2610246	0.23105411	2.6302291	20	—	—
289780 2005 JL_{100}	16.5	X	295.64863	85.13387	102.03349	9.12504	0.0502577	0.24219187	2.5489600	20	—	—
289781 2005 JP_{100}	15.8	X	51.03784	214.07642	48.16839	10.90067	0.1036571	0.21175546	2.7877017	20	9 14.9	19.6
289782 2005 JZ_{101}	17.3	X	96.43050	74.58533	173.16450	7.84861	0.1736856	0.21533122	2.7567542	20	10 24.1	21.6
289783 2005 JA_{102}	15.9	X	235.31710	54.96089	189.41710	11.06308	0.0478369	0.17395014	3.1782364	20	—	—
289784 2005 JO_{102}	15.7	X	246.61959	207.63166	104.36317	11.17303	0.0822192	0.18795151	3.0183679	20	3 23.5	20.4
289785 2005 JC_{105}	16.2	X	18.49154	8.29057	33.95254	7.93479	0.0511460	0.23650606	2.5896508	20	—	—
289786 2005 JX_{105}	17.1	X	275.96334	310.09875	200.00634	4.58928	0.2260740	0.23668175	2.5883690	20	12 29.1	19.5
289787 2005 JY_{105}	17.5	X	197.50562	136.50361	118.50641	2.39237	0.1441241	0.23592663	2.5938891	20	—	—
289788 2005 JN_{108}	16.3	X	241.86571	206.80919	147.41945	9.60081	0.1039232	0.19374529	2.9578895	20	5 4.7	20.8
289789 2005 JE_{111}	18.0	X	44.29584	255.68922	92.03290	4.55181	0.2496219	0.28638985	2.2794542	20	—	—
289790 2005 JS_{112}	13.0	X	231.84273	266.50555	206.28356	27.23984	0.0916207	0.08380498	5.1715749	20	9 2.0	20.4
289791 2005 JC_{114}	15.7	X	45.37047	267.96259	210.27622	9.46707	0.0891613	0.18669572	3.0318879	20	2 15.7	19.7
289792 2005 JS_{117}	16.3	X	311.71868	127.68790	212.70271	14.37917	0.1658306	0.20283268	2.8688693	20	7 4.3	20.0
289793 2005 JM_{118}	15.8	X	306.39541	41.13642	52.92903	14.49250	0.0877448	0.22804590	2.6533092	20	12 14.4	19.0
289794 2005 JR_{119}	16.1	X	246.10497	36.53057	206.55337	9.79624	0.0431922	0.17647567	3.1478413	20	—	—
289795 2005 JF_{122}	15.9	X	243.59876	205.77766	116.72039	20.42039	0.2381798	0.18586400	3.0409261	20	3 22.2	21.3
289796 2005 JE_{128}	15.9	X	257.55116	272.57023	141.78279	17.88286	0.1971868	0.21096358	2.7946734	20	7 23.5	20.0
289797 2005 JM_{129}	15.8	X	256.64945	246.03519	63.43981	11.35424	0.0619848	0.19139971	2.9820061	20	4 2.8	20.2
289798 2005 JK_{130}	17.2	X	31.40007	212.37156	75.98267	3.84609	0.1809833	0.27597482	2.3364496	20	10 11.8	19.7
289799 2005 JK_{131}	17.8	X	128.98192	25.96506	151.12100	5.85390	0.0963196	0.27648741	2.3335609	20	8 28.5	21.1
289800 2005 JC_{132}	16.2	X	290.60895	193.19705	140.26749	9.71729	0.0679779	0.19932896	2.9023901	20	6 10.5	20.2
289801 2005 JT_{133}	17.0	X	341.76688	9.19525	191.62473	5.51869	0.0417516	0.25303348	2.4756204	20	2 22.6	20.0
289802 2005 JJ_{136}	15.5	X	254.21448	82.91367	187.69498	16.55100	0.1030623	0.18337611	3.0683687	20	2 1.2	20.4
289803 2005 JP_{142}	16.9	X	205.69044	130.54483	123.33705	5.39820	0.1672406	0.23869341	2.5738057	20	—	—
289804 2005 JN_{146}	16.6	X	259.20316	103.93226	167.93221	12.69458	0.2871960	0.18183562	3.0856742	20	1 25.2	22.0
289805 2005 JC_{149}	17.4	X	333.10297	229.53000	50.33442	7.69516	0.0938940	0.26531025	2.3986490	20	5 26.8	19.9
289806 2005 JZ_{149}	15.9	X	286.14646	4.55896	196.98278	10.89020	0.0394387	0.17720555	3.1391917	20	—	—
289807 2005 JH_{153}	16.8	X	98.18806	267.95726	31.87288	4.39731	0.1738899	0.22760614	2.6567258	20	12 26.9	21.2
289808 2005 JD_{157}	16.1	X	305.75704	278.02518	121.06714	6.72052	0.0683381	0.21516772	2.7581505	20	10 3.5	19.6
289809 2005 JT_{159}	16.1	X	37.66125	45.80136	32.85201	2.72188	0.0770328	0.17787222	3.1313430	20	—	—
289810 2005 JQ_{164}	17.3	X	226.66058	130.32520	97.79837	3.95620	0.1457142	0.23772252	2.5808088	20	—	—
289811 2005 JG_{168}	16.3	X	292.17231	288.88278	221.93674	13.79000	0.0491074	0.23793351	2.5792829	20	—	—
289812 2005 JM_{171}	16.6	X	13.03279	232.73037	46.31984	5.96713	0.0773082	0.20816137	2.8196982	20	8 3.7	20.1
289813 2005 JQ_{171}	17.5	X	14.31822	95.18686	63.62651	2.04970	0.1318853	0.25548283	2.4597723	20	2 10.9	20.0
289814 2005 JP_{177}	15.3	X	303.70423	119.38402	47.36074	27.54293	0.1555270	0.17901310	3.1180244	20	—	—
289815 2005 JL_{182}	17.8	X	163.94455	278.72713	229.43441	0.52604	0.1542901	0.28047809	2.3113733	20	8 27.6	21.4
289816 2005 JA_{184}	16.4	X	30.39543	206.10363	95.51324	6.24376	0.1451421	0.21201432	2.7854322	20	10 11.6	19.9
289817 2005 KL	17.5	X	43.80413	154.94606	137.31410	3.99440	0.2464777	0.27654272	2.3332498	20	11 12.4	20.6
289818 2005 KY_{2}	17.2	X	82.04683	331.10068	260.09561	4.22529	0.2238417	0.27644324	2.3338095	20	9 27.9	20.8
289819 2005 KA_{3}	17.2	X	312.10397	204.75640	58.57787	5.40881	0.1703430	0.25836052	2.4414731	20	3 20.3	20.1
289820 2005 KD_{3}	16.9	X	40.06744	49.55906	205.20085	5.56548	0.0507837	0.20892944	2.8127834	20	8 4.0	20.7
289821 2005 KR_{3}	16.8	X	154.69726	7.09375	157.08095	2.47068	0.1310477	0.21567279	2.7538428	20	9 2.8	21.1
289822 2005 KE_{7}	16.0	X	122.00756	321.75408	285.73627	8.87205	0.2598448	0.21532010	2.7568491	20	11 14.8	21.0
289823 2005 KX_{7}	17.2	X	8.17264	101.42463	164.62124	2.49479	0.1872602	0.26634132	2.3924545	20	7 19.5	19.1
289824 2005 KG_{10}	17.1	X	147.98800	241.31337	90.34031	11.12629	0.2258811	0.23259387	2.6186083	20	1 8.0	21.2
289825 2005 KW_{12}	16.4	X	42.75530	131.97273	162.26380	7.03346	0.0749530	0.21428258	2.7657408	20	10 7.5	20.1
289826 2005 KX_{13}	16.3	X	276.01331	42.61599	197.72381	6.15663	0.2238717	0.18048897	3.1010036	20	1 9.3	21.3
289827 2005 LP_{3}	15.8	X	75.15396	117.36304	152.68103	26.75056	0.0769979	0.21496475	2.7598864	20	10 22.8	20.2
289828 2005 LT_{4}	15.4	X	108.14043	302.26692	90.39852	11.14275	0.1285756	0.17910618	3.1169440	20	2 6.5	19.9
289829 2005 LC_{9}	17.1	X	269.56343	203.76811	141.11533	3.56856	0.1367776	0.26207526	2.4183475	20	5 17.1	20.3
289830 2005 LC_{11}	15.7	X	349.06685	80.08069	125.45878	9.53924	0.0499407	0.18843689	3.0131825	20	3 22.4	19.8
289831 2005 LS_{12}	15.8	X	268.71097	60.59640	124.34211	29.82311	0.2244470	0.23718863	2.5846801	20	—	—
289832 2005 LM_{14}	15.9	X	283.99800	47.29623	154.80218	6.98901	0.1057146	0.17786101	3.1314744	20	—	—
289833 2005 LC_{18}	17.0	X	345.10245	66.10760	215.38763	6.17991	0.1035138	0.26527191	2.3988801	20	6 21.0	19.4
289834 2005 LW_{20}	16.7	X	198.84258	187.05560	152.27166	7.19644	0.2661943	0.24546533	2.5262478	20	2 26.3	21.2
289835 2005 LC_{22}	16.7	X	119.30160	204.68650	86.16717	14.71644	0.0949616	0.22582942	2.6706422	20	—	—
289836 2005 LK_{23}	16.1	X	204.21144	80.06782	284.27402	7.84684	0.1231761	0.18137831	3.0908587	20	4 1.0	21.1
289837 2005 LJ_{25}	17.6	X	307.32411	206.48124	101.51707	4.26009	0.2153758	0.26084276	2.4259594	20	5 6.6	20.2
289838 2005 LK_{26}	13.6	X	54.21394	99.22331	191.98677	12.15142	0.0811464	0.08316070	5.1982514	20	9 26.4	20.4
289839 2005 LY_{29}	16.5	X	21.79977	8.31773	200.44551	9.88701	0.0510562	0.19577195	2.9374405	20	5 9.7	20.4
289840 2005 LP_{33}	17.9	X	2.08061	132.90035	180.59204	1.93127	0.2148649	0.27227810	2.3575500	20	9 29.5	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289841 2005 LL_{34}	16.0	X	295.97484	79.92738	211.69295	9.96489	0.0890253	0.19193878	2.9764201	20	4 19.4	20.1
289842 2005 LS_{34}	17.6	X	71.62922	88.82148	167.95925	4.66796	0.1756693	0.27678297	2.3318994	20	10 18.8	20.8
289843 2005 LS_{35}	15.8	X	260.08410	237.87835	84.37303	23.27739	0.1714609	0.19038986	2.9925414	20	4 17.0	20.8
289844 2005 LV_{40}	17.7	X	357.64330	119.71801	194.55188	4.07300	0.2629301	0.26985620	2.3716346	20	9 27.0	19.3
289845 2005 LE_{41}	16.4	X	247.72164	2.04144	242.22658	5.11304	0.1929803	0.24155353	2.5534486	20	—	—
289846 2005 LR_{43}	15.0	X	285.53259	309.56431	284.16381	22.04478	0.0255451	0.17448541	3.1717331	20	1 30.9	19.8
289847 2005 LF_{48}	16.2	X	213.96860	153.79609	64.29825	14.01855	0.2267309	0.23164990	2.6257173	20	12 27.9	20.2
289848 2005 LX_{48}	16.9	X	79.90002	272.93364	244.86649	8.05169	0.2059094	0.26557589	2.3970492	20	6 16.4	19.9
289849 2005 LW_{51}	16.9	X	177.83342	94.74610	208.16121	11.21144	0.1771131	0.23638517	2.5905336	20	—	—
289850 2005 LU_{53}	17.1	X	228.81727	151.54587	279.61093	4.26057	0.0401808	0.26415243	2.4056530	20	8 4.7	20.2
289851 2005 MA_{3}	15.7	X	256.62536	68.91566	175.00148	21.69686	0.2276931	0.17608769	3.1524634	20	—	—
289852 2005 MK_{5}	17.5	X	186.97482	74.14335	194.76623	6.46073	0.2063884	0.29915702	2.2141307	20	—	—
289853 2005 MZ_{5}	15.0	X	222.56495	44.70821	280.34341	14.18177	0.2192193	0.17598944	3.1536365	20	2 25.8	20.6
289854 2005 MW_{6}	16.3	X	220.09907	6.01561	172.46049	5.83760	0.0324480	0.22553766	2.6729449	20	12 10.9	20.0
289855 2005 MT_{8}	16.8	X	309.17272	90.40804	246.42163	5.95639	0.1350763	0.26005999	2.4308250	20	7 4.6	19.3
289856 2005 MC_{9}	16.9	X	95.62938	42.35806	229.10254	3.34186	0.1676903	0.21288385	2.7778422	20	11 18.2	21.1
289857 2005 MK_{9}	16.2	X	167.94427	190.66779	125.93791	11.94754	0.1452717	0.23173389	2.6250829	20	1 1.8	20.4
289858 2005 MR_{9}	16.0	X	283.82219	138.29430	190.76118	6.52061	0.1157592	0.18794762	3.0184095	20	5 19.1	20.2
289859 2005 MZ_{9}	14.8	X	258.15671	17.38482	276.70049	15.34903	0.2139115	0.17844252	3.1246676	20	2 19.2	20.2
289860 2005 MK_{11}	16.6	X	68.35368	155.61989	207.70270	14.10597	0.1977128	0.22553617	2.6729567	20	—	—
289861 2005 MQ_{11}	12.9	X	318.14875	293.01298	104.11300	17.99788	0.0830717	0.08388677	5.1682130	20	9 30.1	19.7
289862 2005 MB_{12}	17.0	X	71.76803	340.33891	292.99081	6.17985	0.0939681	0.27425396	2.3462130	20	10 26.4	20.3
289863 2005 MK_{12}	15.3	X	274.99049	212.15793	113.00968	14.06159	0.1407489	0.18630373	3.0361392	20	5 4.3	19.9
289864 2005 MG_{14}	16.5	X	238.57053	17.49094	143.08425	9.58406	0.2145434	0.22878936	2.6475581	20	11 18.4	20.3
289865 2005 MP_{15}	16.1	X	335.23196	316.63566	122.14761	22.58704	0.0427974	0.22665777	2.6641314	20	—	—
289866 2005 MV_{15}	17.6	X	123.28197	201.25615	117.17601	4.89022	0.1890887	0.29062571	2.2572519	20	—	—
289867 2005 MB_{16}	17.4	X	65.33050	322.78926	290.25336	2.62358	0.1619584	0.27115423	2.3640598	20	10 1.2	20.5
289868 2005 MF_{16}	15.5	X	272.58616	76.37403	253.07533	20.37487	0.2001865	0.18462202	3.0545487	20	4 19.2	20.4
289869 2005 MZ_{16}	17.6	X	141.93797	152.10587	134.62275	4.83308	0.1239553	0.28885072	2.2664897	20	—	—
289870 2005 MM_{17}	17.2	X	63.91307	139.65071	123.37101	3.03092	0.1967826	0.27186708	2.3599255	20	10 20.5	20.4
289871 2005 MP_{17}	15.9	X	224.87471	27.64254	291.09847	4.90318	0.1298671	0.17621382	3.1509589	20	2 28.9	21.0
289872 2005 MB_{21}	15.7	X	281.01676	221.93918	128.88905	10.21576	0.0571748	0.19111176	2.9850007	20	6 21.1	19.8
289873 2005 ME_{21}	16.8	X	237.45258	160.51014	166.92422	4.46112	0.0963679	0.24575875	2.5242366	20	3 22.1	20.3
289874 2005 MQ_{21}	15.5	X	339.38506	271.80589	303.64302	8.36938	0.0359022	0.17854221	3.1235043	20	3 16.0	19.9
289875 2005 MU_{21}	16.4	X	218.66284	140.13748	188.05152	0.44568	0.1779695	0.17572569	3.1567913	20	3 5.2	21.5
289876 2005 MJ_{23}	15.3	X	180.75823	237.24243	92.18395	16.73664	0.2203689	0.17542633	3.1603817	20	2 9.3	20.9
289877 2005 MX_{23}	17.6	X	152.37019	307.15399	298.19350	4.39507	0.1346912	0.28597833	2.2816409	20	12 20.9	20.9
289878 2005 MP_{24}	17.4	X	68.41951	247.19935	68.93904	5.49157	0.2432790	0.27905320	2.3192348	20	—	—
289879 2005 MV_{24}	16.4	X	340.21165	224.94338	124.87481	7.05717	0.0245924	0.21191289	2.7863209	20	9 18.5	20.1
289880 2005 MZ_{24}	16.2	X	41.92298	88.05025	229.29626	5.09203	0.0388066	0.21679766	2.7443089	20	10 29.3	19.7
289881 2005 MK_{25}	16.6	X	303.03744	202.49073	112.32810	8.25136	0.1535133	0.25674066	2.4517317	20	5 21.5	19.4
289882 2005 MQ_{26}	16.6	X	126.55829	206.18467	120.04619	11.92191	0.2443795	0.22476389	2.6790759	20	—	—
289883 2005 MS_{27}	17.2	X	57.21509	105.01010	204.52132	5.62227	0.1367638	0.27665602	2.3326127	20	12 5.0	20.4
289884 2005 MW_{27}	15.7	X	295.55550	73.37231	147.24179	16.80430	0.0294106	0.17220239	3.1997050	20	2 1.3	20.2
289885 2005 MN_{28}	17.4	X	312.99824	44.02501	241.68013	5.53848	0.1198091	0.25384241	2.4703582	20	4 27.3	20.3
289886 2005 MZ_{28}	15.9	X	70.96557	312.03735	274.79240	12.05776	0.1347248	0.19973723	2.8984336	20	8 17.5	20.2
289887 2005 MK_{31}	17.8	X	110.28299	53.46340	281.52797	2.48325	0.1947272	0.28971418	2.2619841	20	—	—
289888 2005 MU_{31}	16.5	X	114.80354	235.68430	105.72034	13.28011	0.2572772	0.22378469	2.6868854	20	—	—
289889 2005 MX_{31}	15.3	X	269.22327	47.20372	325.61122	9.88762	0.1326083	0.19161125	2.9798110	20	6 23.1	19.6
289890 2005 MK_{32}	15.3	X	226.55015	314.52551	12.12552	7.95751	0.2172421	0.17739905	3.1369085	20	3 9.9	20.6
289891 2005 MY_{32}	16.5	X	154.56422	203.47683	133.39921	8.54324	0.1960089	0.23184034	2.6242793	20	1 17.2	20.6
289892 2005 MM_{34}	17.4	X	124.98223	157.93772	133.23000	4.68488	0.1397854	0.28556299	2.2838528	20	—	—
289893 2005 MR_{35}	17.4	X	4.16522	257.91889	114.03087	4.40830	0.2316884	0.27422135	2.3463990	20	—	—
289894 2005 MH_{36}	16.6	X	154.95868	87.62532	301.29809	25.56041	0.1985305	0.23916914	2.5703916	20	3 5.3	21.3
289895 2005 MT_{36}	17.4	X	319.24851	342.72911	316.96133	1.86424	0.1922208	0.25737246	2.4477177	20	5 17.6	19.8
289896 2005 MK_{42}	16.0	X	283.01538	110.08285	243.40879	7.44720	0.1286499	0.19112860	2.9848254	20	6 15.7	20.0
289897 2005 MY_{44}	16.3	X	125.50270	135.03351	261.43070	11.81615	0.1730000	0.23483040	2.6019553	20	2 21.6	20.3
289898 2005 MU_{46}	17.0	X	255.12823	32.47354	264.46976	6.94467	0.0632849	0.24563649	2.5250741	20	3 1.9	20.8
289899 2005 MX_{46}	15.3	X	229.15532	16.68172	281.49735	15.29273	0.1890858	0.17524448	3.1625676	20	2 4.2	20.7
289900 2005 MP_{47}	17.5	X	340.39612	145.59455	193.17803	2.57637	0.2026211	0.26634806	2.3924141	20	9 14.5	19.1
289901 2005 MP_{53}	17.6	X	141.79126	152.54201	128.18285	4.61783	0.1859790	0.28681454	2.2772040	20	—	—
289902 2005 MW_{53}	17.7	X	31.48882	133.40712	160.55619	2.57936	0.1770533	0.26898308	2.3767640	20	10 16.8	20.4
289903 2005 MC_{55}	15.3	X	263.65046	205.47414	110.75335	15.02252	0.1758178	0.18327828	3.0694605	20	4 7.8	20.2
289904 2005 NO_{1}	16.1	X	31.32952	93.08073	300.06243	13.64931	0.0345751	0.22008353	2.7169252	20	—	—
289905 2005 NX_{1}	17.0	X	187.23624	140.66864	122.07559	24.88711	0.2059725	0.29437580	2.2380407	20	—	—
289906 2005 NP_{5}	16.4	X	211.02392	313.61473	130.41184	8.04282	0.1812405	0.19210092	2.9747450	20	7 14.4	21.2
289907 2005 NG_{6}	16.9	X	129.58924	244.52980	167.59057	3.28619	0.2534092	0.23930915	2.5693889	20	3 30.7	21.0
289908 2005 NT_{7}	16.2	X	266.77274	74.49442	209.53329	3.67817	0.1094156	0.17845060	3.1245732	20	3 3.0	20.8
289909 2005 NT_{8}	16.2	X	354.43821	359.60791	134.52130	11.41060	0.0236332	0.23150653	2.6268013	20	—	—
289910 2005 NX_{11}	17.1	X	298.98202	208.79291	114.30004	1.97730	0.0753618	0.25768678	2.4457269	20	6 6.7	20.0
289911 2005 NH_{12}	16.9	X	71.04932	222.20949	134.18039	5.70795	0.1264333	0.22047872	2.7136777	20	—	—
289912 2005 NK_{12}	17.0	X	16.16814	110.05779	124.64879	7.13879	0.1301050	0.25890583	2.4380437	20	6 10.7	19.3
289913 2005 NF_{13}	15.5	X	328.26068	312.72302	274.58699	8.05634	0.0972847	0.18248296	3.0783725	20	3 8.4	19.7
289914 2005 NX_{13}	15.8	X	35.23270	221.53378	151.05012	25.84051	0.1272806	0.21125424	2.7921094	20	—	—
289915 2005 NK_{19}	15.3	X	137.16694	168.70318	129.00158	14.76842	0.0843720	0.15632375	3.4128674	20	—	—
289916 2005 NB_{20}	16.4	X	203.03523	300.76442	329.97565	10.62744	0.1524597	0.23289531	2.6163482	20	—	—
289917 2005 NM_{21}	15.3	X	184.38363	82.10052	272.37351	7.54014	0.1299423	0.17386836	3.1792329	20	3 3.1	20.5
289918 2005 NN_{22}	15.2	X	245.99734	174.13044	131.73706	18.88192	0.2178424	0.17809293	3.1287552	20	3 2.6	20.5
289919 2005 NR_{23}	16.1	X	201.62727	179.28226	149.16880	16.75470	0.0754216	0.17348172	3.1839549	20	2 21.9	20.8
289920 2005 NU_{23}	15.9	X	155.47673	259.50860	156.91303	12.57240	0.0684543	0.17993152	3.1074051	20	4 21.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
289921 2005 NT_{24}	16.8	X	91.38835	184.71975	255.52656	7.17828	0.0299289	0.23953325	2.5677861	20	2 16.7	20.3
289922 2005 NP_{26}	15.5	X	248.76353	353.90461	271.44693	8.33975	0.1776282	0.17439563	3.1728216	20	1 18.3	20.7
289923 2005 NQ_{27}	17.4	X	46.45759	189.59036	151.25409	6.10368	0.1455038	0.27911023	2.3189188	20	—	—
289924 2005 NS_{27}	16.9	X	154.92002	105.44202	208.30412	3.01007	0.2007369	0.22850869	2.6497256	20	—	—
289925 2005 NT_{27}	16.3	X	259.76871	275.93451	279.84152	9.61934	0.1373780	0.22958743	2.6414191	20	—	—
289926 2005 NU_{29}	17.0	X	279.73436	320.75991	288.59224	2.09478	0.0225840	0.24095582	2.5576696	20	2 8.8	20.4
289927 2005 NE_{30}	17.2	X	11.86832	118.21121	111.78559	3.38544	0.1593133	0.25729094	2.4482347	20	5 26.5	19.2
289928 2005 NY_{31}	16.1	X	262.85601	307.23995	270.15032	14.28910	0.0253010	0.23201131	2.6229899	20	—	—
289929 2005 ND_{32}	15.4	X	177.17314	236.38429	164.38528	11.83226	0.1505708	0.17997893	3.1068594	20	4 26.7	20.6
289930 2005 NR_{32}	16.4	X	163.05493	210.99037	143.13374	14.99947	0.0605627	0.23797425	2.5789885	20	2 3.0	20.0
289931 2005 NW_{32}	15.6	X	266.76479	129.81781	167.89230	8.77310	0.0522665	0.18130943	3.0916415	20	3 28.9	20.0
289932 2005 NR_{33}	17.2	X	75.85903	242.96551	70.94852	0.73691	0.0613068	0.21432428	2.7653820	20	12 8.8	21.0
289933 2005 NS_{33}	16.5	X	313.87552	158.58826	107.71563	2.41358	0.1352339	0.18538569	3.0461544	20	4 6.7	20.4
289934 2005 NZ_{33}	17.2	X	226.18372	291.65122	327.88367	1.12122	0.1273757	0.23386322	2.6091242	20	—	—
289935 2005 NR_{35}	16.5	X	182.68846	336.67904	25.50031	0.66574	0.1950483	0.17405411	3.1769706	20	3 15.4	21.8
289936 2005 NC_{36}	17.8	X	357.85796	358.84200	208.67927	0.99038	0.0981193	0.31436127	2.1421507	20	3 16.2	19.5
289937 2005 NE_{36}	16.4	X	138.40233	20.55024	304.98237	10.40994	0.0620868	0.22642818	2.6659320	20	—	—
289938 2005 NQ_{37}	15.7	X	148.26201	116.52200	290.44606	8.79708	0.1268661	0.17459577	3.1703964	20	3 29.8	20.9
289939 2005 NM_{40}	17.3	X	296.70592	84.73116	255.53736	1.34602	0.1697716	0.25920097	2.4361927	20	6 12.5	19.8
289940 2005 NM_{41}	15.6	X	290.32442	34.35292	287.20686	9.17429	0.1264318	0.18945932	3.0023321	20	5 13.1	19.8
289941 2005 NB_{44}	16.5	X	244.28511	64.20979	262.75680	2.51445	0.1526461	0.18223406	3.0811748	20	3 26.4	21.3
289942 2005 ND_{44}	17.0	X	93.11977	26.01190	290.12793	5.30535	0.0605360	0.21902076	2.7257071	20	—	—
289943 2005 NE_{45}	17.3	X	105.14828	179.49565	115.51391	3.68763	0.2180486	0.28335657	2.2956932	20	—	—
289944 2005 NK_{46}	15.6	X	259.82685	329.51528	268.06912	7.59598	0.1587648	0.17110066	3.2134257	20	—	—
289945 2005 NQ_{46}	17.0	X	185.61281	133.10124	174.70721	6.03278	0.1364073	0.23392451	2.6086685	20	1 6.4	21.1
289946 2005 NT_{49}	15.7	X	357.58830	266.56368	283.75553	9.62384	0.1084262	0.17995115	3.1071792	20	3 4.1	19.7
289947 2005 NU_{49}	14.6	X	298.16584	56.02761	278.40969	6.88569	0.1582695	0.12507009	3.9600476	20	6 6.6	19.9
289948 2005 NK_{50}	16.0	X	255.03498	350.37461	279.10821	7.86443	0.0358051	0.17428710	3.1741386	20	2 9.3	20.7
289949 2005 NX_{53}	16.1	X	116.27553	341.14508	308.64920	28.97492	0.1642661	0.28404327	2.2919917	20	—	—
289950 2005 NE_{54}	17.6	X	31.63114	2.10020	265.10922	3.04753	0.1855891	0.26613766	2.3936749	20	9 6.2	20.2
289951 2005 NN_{57}	17.2	X	335.21209	238.75209	122.76778	2.91599	0.1933030	0.26715721	2.3875810	20	10 12.6	18.8
289952 2005 NO_{58}	17.0	X	123.10210	137.83922	169.33935	6.06596	0.0130331	0.21727668	2.7402738	20	—	—
289953 2005 NG_{63}	15.6	X	344.66618	55.14656	283.18960	11.13616	0.1691684	0.19861403	2.9093508	20	8 31.6	18.9
289954 2005 NH_{65}	16.4	X	342.92218	169.58331	276.12346	5.93817	0.0671879	0.21947410	2.7219525	20	—	—
289955 2005 NT_{67}	17.2	X	132.97370	309.06784	285.56667	5.46407	0.1266345	0.28053897	2.3110388	20	11 16.2	20.8
289956 2005 NU_{67}	16.4	X	68.99564	156.56526	279.93690	3.67757	0.1560866	0.23453699	2.6041249	20	1 30.7	19.3
289957 2005 NZ_{68}	16.7	X	165.82057	236.92158	94.81778	8.60136	0.2358988	0.23155552	2.6264308	20	1 24.8	21.1
289958 2005 NC_{70}	16.0	X	98.73523	351.40461	303.24446	8.14768	0.1261222	0.21541962	2.7560000	20	12 16.1	20.4
289959 2005 NP_{75}	17.6	X	123.84226	97.91330	168.03939	0.29627	0.1000775	0.21702354	2.7424043	20	12 5.4	21.9
289960 2005 NU_{75}	15.5	X	208.05626	29.17847	294.16684	6.20716	0.1429673	0.17499657	3.1655538	20	2 19.0	20.7
289961 2005 NX_{78}	16.9	X	41.49866	166.59541	129.18442	2.93025	0.0746017	0.20447506	2.8534865	20	10 5.7	20.7
289962 2005 NA_{79}	17.0	X	270.06422	42.09124	126.39209	3.38835	0.0206826	0.22282997	2.6945546	20	—	—
289963 2005 NJ_{82}	17.5	X	95.18010	285.03079	269.68827	1.42843	0.1442655	0.26586524	2.3953097	20	8 16.5	20.9
289964 2005 NA_{84}	16.3	X	335.03886	134.98286	296.33650	8.32380	0.0653949	0.21519757	2.7578955	20	12 26.1	19.8
289965 2005 NR_{84}	16.7	X	2.39532	136.31936	104.43282	10.79802	0.1646093	0.25780232	2.4449961	20	5 24.8	18.9
289966 2005 NH_{90}	15.8	X	223.63763	70.80583	251.06381	9.48028	0.1006216	0.17675191	3.1445606	20	3 1.2	20.9
289967 2005 NL_{92}	16.1	X	171.98759	93.19718	312.22884	7.55498	0.0580957	0.18141472	3.0904451	20	4 18.3	20.9
289968 2005 ND_{94}	15.3	X	277.16926	309.53733	291.80633	10.00920	0.0334134	0.17426347	3.1744255	20	2 2.4	19.8
289969 2005 NX_{95}	16.9	X	256.46404	108.23955	112.21320	2.86488	0.0919063	0.23385282	2.6092017	20	—	—
289970 2005 NL_{100}	17.0	X	301.41171	310.97835	136.47983	0.98942	0.0390690	0.21402485	2.7679607	20	11 28.3	20.4
289971 2005 NP_{100}	16.6	X	305.72580	223.07338	74.04368	7.37382	0.1328781	0.25519207	2.4616404	20	5 3.1	19.4
289972 2005 ND_{112}	17.5	X	294.30343	250.21885	280.88970	0.71301	0.0248857	0.23016131	2.6370266	20	—	—
289973 2005 NZ_{114}	17.0	X	83.29324	63.84545	280.06307	2.15424	0.1142114	0.22086669	2.7104989	20	—	—
289974 2005 NF_{116}	17.7	X	114.88601	301.16954	128.04706	4.35367	0.2240164	0.24025305	2.5626548	20	4 5.1	21.4
289975 2005 NK_{123}	16.5	X	74.16061	260.76898	137.53877	13.85546	0.2252169	0.22424748	2.6831874	20	—	—
289976 2005 NP_{124}	16.7	X	292.53661	223.92033	39.73265	2.46235	0.1209373	0.24598639	2.5226790	20	3 1.5	20.1
289977 2005 NE_{125}	17.3	X	323.75468	61.17601	317.16533	4.50626	0.1270177	0.26561254	2.3968287	20	10 7.3	19.7
289978 2005 OH	14.6	X	220.12804	307.29436	50.02109	27.99084	0.2380550	0.17401416	3.1774568	20	4 16.7	20.3
289979 2005 OY_{4}	16.9	X	84.47739	329.14552	293.25255	6.10126	0.0919774	0.27308996	2.3528752	20	10 26.7	20.3
289980 2005 OK_{7}	16.8	X	216.51740	98.99608	250.04471	18.44453	0.1012568	0.37359432	1.9092782	20	3 5.8	19.7
289981 2005 OR_{8}	16.9	X	255.02067	138.93113	179.30437	5.43918	0.1131341	0.24746796	2.5126002	20	3 27.8	20.5
289982 2005 OO_{9}	15.2	X	232.12676	210.82552	134.40140	22.76167	0.1358329	0.17943549	3.1131292	20	4 16.1	20.5
289983 2005 OD_{20}	16.8	X	107.49750	207.59332	124.91211	5.22703	0.1093757	0.22067900	2.7120356	20	—	—
289984 2005 OF_{23}	16.7	X	92.54817	136.60140	212.86905	4.60457	0.0432069	0.22293270	2.6937267	20	—	—
289985 2005 OD_{24}	16.8	X	108.45392	123.07179	224.91296	4.20752	0.0607365	0.22379482	2.6868043	20	—	—
289986 2005 OG_{27}	15.4	X	213.58775	41.68463	315.50008	9.46145	0.0472830	0.17697389	3.1419306	20	4 4.4	20.2
289987 2005 OJ_{27}	15.3	X	252.99695	308.17604	17.53543	11.38868	0.0807446	0.17854574	3.1234632	20	4 11.1	19.7
289988 2005 OM_{27}	17.2	X	8.16598	191.61660	178.07143	8.49139	0.2472493	0.27323711	2.3520304	20	—	—
289989 2005 OQ_{28}	15.7	X	156.83440	334.56859	310.95974	12.66456	0.1781489	0.22227778	2.6990153	20	—	—
289990 2005 OZ_{28}	15.3	X	6.43190	273.90740	299.86198	15.75529	0.0637524	0.18231941	3.0802132	20	4 15.1	19.7
289991 2005 PS_{1}	15.6	X	338.54852	320.91652	341.61348	12.74496	0.0614590	0.19162265	2.9796928	20	7 11.6	19.6
289992 Onfray	16.7	X	299.73190	213.43552	60.82346	0.35376	0.2085346	0.18354815	3.0664511	20	3 16.7	20.9
289993 2005 PX_{6}	15.4	X	327.60991	216.54315	103.30254	16.06546	0.1634112	0.19233566	2.9723242	20	7 6.6	18.7
289994 2005 PH_{7}	17.3	X	60.36365	348.17950	25.10348	1.93990	0.2692227	0.28283794	2.2984988	20	—	—
289995 2005 PC_{9}	16.0	X	293.84664	16.88935	341.73017	11.09973	0.1544458	0.19165199	2.9793887	20	7 6.2	20.0
289996 2005 PV_{10}	16.1	X	317.42527	213.10091	118.04442	10.39235	0.0640473	0.19219348	2.9737899	20	7 15.1	19.9
289997 2005 PS_{12}	17.3	X	121.21311	215.78054	106.08012	7.79042	0.1439284	0.28818233	2.2699928	20	—	—
289998 2005 PT_{12}	15.7	X	276.18886	306.65644	19.87826	7.44502	0.1273567	0.18425627	3.0585895	20	5 2.0	20.0
289999 2005 PX_{14}	17.2	X	330.70556	255.34594	25.27503	2.27785	0.1649153	0.25432039	2.4672619	20	5 15.3	19.5
290000 2005 PG_{15}	16.4	X	39.16713	235.23105	121.99747	5.12968	0.1445771	0.21077089	2.7963764	20	12 29.2	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290001 Uebersax	16.0	X	262.71223	229.95666	143.05018	17.40309	0.2279101	0.18581011	3.0415140	20	6 5.6	20.9
290002 2005 PC_{17}	15.9	X	13.48071	307.67031	139.24198	22.42875	0.0475509	0.22509551	2.6764440	20	—	—
290003 2005 PY_{18}	16.8	X	130.95711	128.97887	142.88191	7.84780	0.2437174	0.21873306	2.7280967	20	12 21.1	21.7
290004 2005 PA_{21}	16.2	X	206.08192	128.30142	152.40672	13.40576	0.0536510	0.22975362	2.6401452	20	—	—
290005 2005 PG_{24}	17.1	X	37.11003	253.50068	167.63221	5.20723	0.1570423	0.21949268	2.7217988	20	—	—
290006 2005 PL_{24}	15.9	X	145.99221	90.32625	286.60199	8.02436	0.3436904	0.16521230	3.2893327	20	3 8.3	21.9
290007 2005 QC_{1}	16.9	X	315.52499	64.45655	222.35898	1.72156	0.1730690	0.25341489	2.4731358	20	4 25.3	19.5
290008 2005 QS_{1}	17.2	X	88.15194	295.27550	306.49925	6.29622	0.2205512	0.27200717	2.3591152	20	10 15.4	21.0
290009 2005 QV_{1}	17.1	X	50.50884	7.66167	247.97274	2.07746	0.1699266	0.26617222	2.3934676	20	9 16.4	20.1
290010 2005 QA_{8}	17.6	X	43.36682	12.54830	335.23471	2.87129	0.1762234	0.27575445	2.3376942	20	—	—
290011 2005 QO_{8}	15.7	X	243.78884	175.15086	160.03401	22.12876	0.1096553	0.17812854	3.1283383	20	4 14.5	20.7
290012 2005 QE_{9}	16.4	X	181.38324	161.39379	151.31908	6.22084	0.3110926	0.23058261	2.6338135	20	1 16.4	21.2
290013 2005 QE_{11}	16.5	X	109.31566	300.95922	167.96003	9.98714	0.0418488	0.24232211	2.5480465	20	4 26.8	19.9
290014 2005 QC_{14}	16.1	X	92.27090	227.33525	165.63580	14.14735	0.1010207	0.22517610	2.6758054	20	1 3.0	19.7
290015 2005 QN_{14}	17.2	X	142.69906	100.12080	323.00849	4.19112	0.2917011	0.23686279	2.5870500	20	4 24.5	21.7
290016 2005 QX_{14}	15.1	X	183.36151	47.94830	342.42635	9.88756	0.0952115	0.17579935	3.1559095	20	4 12.7	20.1
290017 2005 QQ_{15}	15.1	X	116.65719	179.82420	174.97883	6.05757	0.0902971	0.15748497	3.3960701	20	—	—
290018 2005 QR_{15}	16.7	X	177.99096	293.29334	319.88573	3.93030	0.0627893	0.21818272	2.7326824	20	—	—
290019 2005 QR_{16}	15.6	X	279.77188	257.39919	353.06605	24.85636	0.2565282	0.17227338	3.1988258	20	2 1.4	21.0
290020 2005 QT_{18}	15.8	X	233.74516	329.12581	30.27376	4.14818	0.1156373	0.17763995	3.1340719	20	4 28.3	20.6
290021 2005 QY_{19}	16.4	X	313.00566	198.52138	159.12511	5.32662	0.1747722	0.19213418	2.9744018	20	7 30.8	19.7
290022 2005 QG_{20}	15.2	X	227.93354	338.90734	338.61800	17.20459	0.1021321	0.17224251	3.1992080	20	3 3.9	20.1
290023 2005 QL_{20}	16.1	X	61.61704	34.84844	346.40334	13.65129	0.1903846	0.21658065	2.7461417	20	—	—
290024 2005 QE_{22}	17.1	X	48.68701	49.47436	296.49903	2.03048	0.1236942	0.21029995	2.8005496	20	12 23.8	21.0
290025 2005 QC_{24}	16.0	X	203.29023	292.86636	129.47275	3.48578	0.0970206	0.18121651	3.0926982	20	6 15.0	20.7
290026 2005 QE_{24}	15.4	X	306.24054	290.41121	11.15338	9.73591	0.0770051	0.18163995	3.0878898	20	5 15.8	19.6
290027 2005 QY_{24}	17.0	X	328.20774	343.49350	12.26556	6.97726	0.1282033	0.26164796	2.4209797	20	9 14.6	19.2
290028 2005 QO_{25}	16.5	X	106.15529	202.55783	145.98330	4.11071	0.2333725	0.21934145	2.7230497	20	—	—
290029 2005 QE_{26}	15.6	X	237.68267	347.55542	31.34252	5.78199	0.1768760	0.18039618	3.1020669	20	5 19.9	20.6
290030 2005 QP_{28}	17.1	X	314.88087	85.90025	331.22519	9.20522	0.1588843	0.26958562	2.3732213	20	11 18.7	19.3
290031 2005 QE_{29}	17.4	X	156.21916	89.30676	260.48434	4.38702	0.1977984	0.29781533	2.2207756	20	1 25.9	20.6
290032 2005 QW_{30}	16.7	X	130.68248	184.76711	154.71064	6.74643	0.0404495	0.22552267	2.6730634	20	—	—
290033 2005 QJ_{31}	17.4	X	309.32823	211.66671	175.02032	2.49864	0.2180054	0.26465504	2.4026063	20	9 13.9	19.1
290034 2005 QW_{31}	16.5	X	138.24344	153.01638	169.60406	4.46431	0.2008059	0.22463736	2.6800818	20	—	—
290035 2005 QF_{32}	17.5	X	31.28907	326.96453	342.82640	0.73550	0.1887496	0.26932859	2.3747309	20	11 8.3	20.1
290036 2005 QK_{32}	15.9	X	105.59440	194.83073	163.63676	14.78036	0.2195566	0.22149278	2.7053887	20	—	—
290037 2005 QU_{32}	17.2	X	179.64964	86.72528	232.39513	1.81662	0.2261724	0.23291734	2.6161833	20	1 19.2	21.7
290038 2005 QP_{33}	15.8	X	263.75273	208.92966	151.64627	10.75155	0.1287147	0.18616594	3.0376372	20	6 2.4	20.4
290039 2005 QW_{34}	15.5	X	247.61284	220.07878	164.26140	11.86912	0.0983317	0.18502880	3.0500702	20	6 16.4	20.2
290040 2005 QT_{35}	16.6	X	341.23083	260.32956	132.74593	2.83526	0.2123690	0.26941607	2.3742168	20	12 17.9	18.4
290041 2005 QR_{38}	17.2	X	139.74879	154.59530	144.60712	6.42537	0.2303668	0.28884736	2.2665073	20	—	—
290042 2005 QU_{38}	17.9	X	83.64353	212.49620	183.22931	2.21041	0.1778855	0.29053850	2.2577036	20	—	—
290043 2005 QQ_{42}	17.0	X	180.63416	210.31817	145.10790	4.35235	0.2187180	0.23555357	2.5966271	20	3 2.9	21.3
290044 2005 QG_{44}	17.4	X	18.85174	191.10801	128.98144	2.02944	0.1929787	0.26835360	2.3804794	20	11 5.9	20.0
290045 2005 QH_{44}	15.7	X	347.88302	294.78477	351.16714	9.29282	0.0826625	0.18918225	3.0052628	20	7 1.1	19.6
290046 2005 QX_{45}	16.5	X	226.26496	69.97697	357.22433	14.63018	0.0528940	0.25662366	2.4524768	20	7 31.1	20.0
290047 2005 QW_{46}	17.1	X	54.19272	338.47012	38.46023	3.92137	0.1730509	0.21477773	2.7614884	20	—	—
290048 2005 QD_{47}	15.6	X	296.87467	146.31938	147.34665	10.18765	0.0706922	0.18027459	3.1034616	20	4 30.3	20.0
290049 2005 QL_{47}	15.6	X	120.63505	296.75619	98.72963	3.57289	0.1488482	0.16289595	3.3204417	20	2 26.9	20.6
290050 2005 QC_{48}	15.6	X	217.54940	241.48742	146.06753	10.09943	0.1027533	0.17974698	3.1095317	20	5 20.1	20.6
290051 2005 QE_{48}	16.3	X	57.25506	322.55055	34.12689	5.47014	0.1667385	0.21212042	2.7845032	20	—	—
290052 2005 QG_{49}	15.6	X	229.33776	191.21581	161.69832	18.02288	0.1346329	0.17718778	3.1394016	20	4 18.9	20.7
290053 2005 QY_{53}	15.9	X	305.64064	282.20335	153.53135	9.56665	0.1139994	0.20633682	2.8362960	20	11 15.6	19.4
290054 2005 QO_{54}	16.7	X	194.74135	285.59389	341.15638	4.92523	0.0236841	0.22249900	2.6972260	20	—	—
290055 2005 QF_{57}	17.4	X	83.10077	330.68951	328.24870	1.66753	0.2087014	0.27708991	2.3301770	20	12 23.6	21.1
290056 2005 QH_{57}	17.8	X	17.49391	342.76945	345.53401	1.10629	0.1795734	0.26933219	2.3747098	20	11 12.1	20.3
290057 2005 QO_{58}	15.9	X	280.89069	310.10456	19.29913	4.75605	0.1534279	0.18308434	3.0716278	20	5 8.2	20.3
290058 2005 QN_{59}	17.3	X	223.72146	149.34859	176.66585	14.59935	0.1896648	0.23892482	2.5721436	20	2 29.6	21.7
290059 2005 QS_{59}	16.1	X	244.08027	152.47778	171.72957	14.56576	0.0123341	0.24013954	2.5634623	20	4 4.9	19.5
290060 2005 QF_{62}	17.0	X	149.95697	207.68628	345.73955	6.28794	0.0575332	0.26832782	2.3806319	20	10 9.7	20.2
290061 2005 QX_{64}	16.8	X	195.79143	250.05196	49.04969	4.74599	0.1285514	0.22903667	2.6456519	20	1 7.0	20.9
290062 2005 QC_{65}	16.3	X	94.33449	218.59693	108.29772	5.14283	0.1002304	0.21393933	2.7686982	20	—	—
290063 2005 QU_{65}	16.0	X	282.41909	340.25121	299.02980	5.20700	0.2932293	0.18107864	3.0942678	20	2 21.1	20.8
290064 2005 QH_{66}	16.7	X	101.72048	132.85370	186.94935	7.55545	0.2213757	0.21666877	2.7453971	20	—	—
290065 2005 QE_{67}	16.7	X	94.44283	345.45368	3.26817	6.44565	0.1216288	0.21889472	2.7267534	20	—	—
290066 2005 QB_{69}	15.3	X	233.38010	356.60806	355.38975	27.65950	0.1324969	0.17935489	3.1140619	20	4 7.2	20.5
290067 2005 QS_{69}	17.3	X	56.60080	24.18023	263.77174	1.75308	0.2314090	0.27336374	2.3513040	20	11 16.5	20.7
290068 2005 QB_{70}	17.6	X	93.57267	312.90928	355.99402	4.11799	0.2622417	0.28183824	2.3039308	20	—	—
290069 2005 QM_{70}	17.5	X	32.96055	216.89607	165.12233	4.64892	0.2154324	0.27784385	2.3259597	20	—	—
290070 2005 QG_{71}	17.3	X	226.76551	334.17552	356.63906	7.11151	0.3309711	0.30700029	2.1762571	20	3 2.4	21.1
290071 2005 QW_{71}	15.2	X	244.27467	335.88590	345.25904	24.15657	0.2330843	0.17612496	3.1520186	20	3 12.4	20.4
290072 2005 QH_{73}	17.3	X	11.89777	6.90450	180.17444	21.71526	0.0354636	0.37301981	1.9112381	20	3 3.5	18.9
290073 2005 QN_{73}	17.2	X	124.38848	188.94833	216.32707	4.29895	0.1592958	0.29762318	2.2217314	20	2 27.3	20.1
290074 Donasadock	16.9	X	137.14529	310.50194	153.97861	23.99565	0.2450335	0.31196196	2.1531203	20	6 13.4	20.9
290075 2005 QR_{78}	17.7	X	318.75995	55.97000	344.80204	1.94120	0.2040885	0.26572179	2.3961717	20	11 2.7	19.3
290076 2005 QA_{81}	16.0	X	301.20173	164.38471	175.94206	10.24474	0.0986643	0.18942583	3.0026860	20	6 28.3	20.1
290077 2005 QA_{85}	15.5	X	173.61386	131.72718	337.69833	9.68863	0.0610963	0.18661101	3.0328054	20	7 15.1	20.1
290078 2005 QH_{85}	15.0	X	252.13982	323.58320	5.27883	20.93726	0.3049618	0.17631129	3.1497975	20	3 25.1	20.3
290079 2005 QD_{88}	18.1	X	30.09972	67.72102	326.69998	1.93840	0.2213267	0.27941862	2.3172123	20	—	—
290080 2005 QA_{89}	16.2	X	259.58424	177.06720	190.05426	12.49985	0.1494707	0.18204526	3.0833048	20	6 2.2	20.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290081 2005 QM_{89}	18.2	X	26.75029	212.04637	161.29481	0.94770	0.2389406	0.27716615	2.3297496	20	—	—
290082 2005 QQ_{89}	16.2	X	192.17624	182.95538	159.13585	0.97970	0.1779322	0.17135437	3.2102530	20	2 28.9	21.6
290083 2005 QX_{92}	16.5	X	71.45050	239.97485	146.94531	6.07133	0.0420606	0.22076071	2.7113663	20	—	—
290084 2005 QV_{93}	16.8	X	7.71427	195.82813	111.58680	6.67987	0.0926888	0.26248162	2.4158508	20	9 14.9	19.4
290085 2005 QH_{94}	16.9	X	343.16956	170.20307	151.07569	6.35703	0.1399859	0.26266780	2.4147091	20	8 19.9	18.8
290086 2005 QL_{95}	15.4	X	204.45547	353.82624	353.18715	8.94321	0.1021801	0.17362941	3.1821491	20	3 16.5	20.3
290087 2005 QR_{96}	17.6	X	88.91617	269.76414	116.85648	2.98191	0.1741870	0.29033972	2.2587339	20	—	—
290088 2005 QL_{98}	17.4	X	270.77054	285.38280	91.62921	2.87252	0.1431100	0.25596879	2.4566580	20	6 30.9	20.2
290089 2005 QJ_{100}	16.6	X	72.84006	92.71348	228.21441	2.52392	0.0951802	0.21053271	2.7984851	20	12 17.1	20.5
290090 2005 QS_{100}	16.3	X	71.12828	211.87269	189.26259	8.74429	0.2029958	0.22131058	2.7068733	20	—	—
290091 2005 QO_{102}	16.9	X	105.38140	137.37676	227.89358	1.86560	0.0790905	0.22330473	2.6907340	20	—	—
290092 2005 QN_{103}	16.5	X	87.51687	77.67242	315.24056	6.53772	0.0543988	0.22445977	2.6814953	20	—	—
290093 2005 QX_{103}	17.5	X	213.14717	170.40989	174.28334	9.79712	0.1401551	0.24034334	2.5620129	20	3 16.7	21.5
290094 2005 QJ_{104}	16.7	X	87.43312	251.96444	301.27877	5.91692	0.0601188	0.25558466	2.4591189	20	7 23.8	19.8
290095 2005 QN_{106}	15.1	X	247.61677	138.65182	138.87109	15.06934	0.1484751	0.17045245	3.2215674	20	2 3.5	20.1
290096 2005 QX_{108}	16.3	X	290.64143	185.29256	177.85376	1.27722	0.1192083	0.18917414	3.0053487	20	7 10.6	20.1
290097 2005 QL_{111}	16.6	X	153.10885	288.75946	357.38125	1.44722	0.0536637	0.21779809	2.7358987	20	—	—
290098 2005 QC_{112}	17.1	X	86.64055	187.27543	181.58348	5.19152	0.1308640	0.21925552	2.7237612	20	—	—
290099 2005 QC_{113}	16.1	X	246.22275	330.45112	166.55604	10.78412	0.0674636	0.20427125	2.8553842	20	11 14.1	20.2
290100 2005 QD_{113}	16.1	X	239.18225	202.32434	152.01203	4.07652	0.1494341	0.17776518	3.1325998	20	4 26.4	21.0
290101 2005 QP_{113}	15.9	X	214.81121	235.27706	158.26955	11.36659	0.2170453	0.17763495	3.1341308	20	5 18.4	21.4
290102 2005 QS_{113}	15.7	X	178.59140	243.14244	160.36207	5.38825	0.1774231	0.17254474	3.1954711	20	4 30.3	21.1
290103 2005 QA_{114}	16.3	X	275.28921	241.37464	71.51334	2.03534	0.1930311	0.17921886	3.1156374	20	4 7.8	20.9
290104 2005 QR_{114}	16.7	X	116.90496	225.00522	167.56366	5.00989	0.1707691	0.22700290	2.6614304	20	2 12.9	20.3
290105 2005 QH_{116}	15.7	X	24.50899	34.12866	162.49482	9.85765	0.0308064	0.17874325	3.1211618	20	4 29.0	20.0
290106 2005 QL_{116}	16.8	X	84.37749	276.82388	159.59773	5.66079	0.0958538	0.23201094	2.6229926	20	2 15.5	20.0
290107 2005 QA_{117}	17.4	X	114.96715	315.08651	343.99730	5.98436	0.2085886	0.28361735	2.2942858	20	—	—
290108 2005 QO_{117}	16.7	X	227.53132	36.15265	144.32251	4.55819	0.0382242	0.21354962	2.7720657	20	12 18.6	20.4
290109 2005 QX_{117}	16.0	X	241.87456	330.72134	151.24680	6.53217	0.0439995	0.20442871	2.8539178	20	10 23.7	20.0
290110 2005 QE_{118}	16.7	X	266.01003	33.58689	355.49364	3.18192	0.2037900	0.18834871	3.0141228	20	6 29.6	21.2
290111 2005 QT_{118}	16.9	X	25.81350	41.25325	151.35233	2.51245	0.0731461	0.24599156	2.5226437	20	4 22.2	19.6
290112 2005 QB_{120}	16.6	X	212.50634	256.45071	339.47443	4.28825	0.1037933	0.22321591	2.6914477	20	—	—
290113 2005 QB_{123}	16.3	X	11.60380	319.47162	336.49753	1.38394	0.0560629	0.19430114	2.9522456	20	8 19.2	19.9
290114 2005 QZ_{123}	16.8	X	62.47792	213.49925	165.94253	13.38233	0.0618372	0.21761166	2.7374610	20	—	—
290115 2005 QV_{124}	16.4	X	67.45947	85.69593	158.88750	8.63765	0.1536780	0.19772450	2.9180701	20	9 13.6	20.5
290116 2005 QM_{126}	16.3	X	161.55156	76.52078	339.11702	2.04170	0.0468325	0.17625754	3.1504378	20	4 21.8	20.8
290117 2005 QL_{128}	16.1	X	280.17087	340.07136	108.05723	3.18572	0.0296341	0.20395998	2.8582886	20	10 31.3	19.9
290118 2005 QP_{128}	16.4	X	28.17694	270.42523	64.77165	2.98839	0.0688234	0.20390884	2.8587664	20	11 5.5	20.2
290119 2005 QV_{132}	16.8	X	69.74229	271.56006	43.59218	4.09491	0.0861755	0.20876136	2.8142930	20	12 4.7	20.9
290120 2005 QB_{134}	17.0	X	159.26629	287.03281	36.82219	1.02870	0.0670300	0.22545320	2.6736124	20	—	—
290121 2005 QU_{134}	16.5	X	289.87027	245.32008	159.12905	5.27003	0.1523320	0.19429169	2.9523413	20	8 29.5	19.9
290122 2005 QL_{135}	17.1	X	83.53976	105.62506	7.53889	4.65192	0.1060457	0.23607901	2.5927728	20	4 4.6	20.3
290123 2005 QF_{137}	16.7	X	137.99626	157.90103	124.96686	3.97959	0.0459047	0.21366061	2.7711056	20	—	—
290124 2005 QC_{142}	17.1	X	131.34506	256.15427	183.14739	20.23845	0.2745424	0.30193878	2.2005105	20	5 7.4	20.8
290125 2005 QO_{148}	15.7	X	308.47066	221.69640	106.06708	10.92027	0.1391147	0.18887024	3.0085717	20	6 17.7	19.5
290126 2005 QP_{148}	17.4	X	258.26932	189.52398	96.38197	8.23589	0.2109294	0.30844136	2.1694733	20	2 6.0	20.7
290127 Linakostenko	14.9	X	225.60722	9.15407	320.09980	27.71400	0.1670054	0.17558692	3.1584544	20	3 2.7	20.3
290128 2005 QD_{150}	17.2	X	110.95354	275.48142	153.68643	7.13240	0.0880921	0.29999368	2.2100121	20	3 4.9	19.6
290129 Rátzlászló	16.3	X	231.98386	235.32297	166.33750	11.11639	0.2221363	0.18428502	3.0582714	20	6 9.7	21.5
290130 2005 QC_{153}	17.4	X	246.99123	26.60816	301.80695	2.23353	0.1811253	0.30816906	2.1707511	20	3 20.4	20.7
290131 2005 QH_{153}	17.2	X	345.49145	201.95687	73.93551	2.53071	0.1544623	0.25639409	2.4539406	20	6 10.2	19.0
290132 2005 QJ_{153}	17.3	X	90.27865	82.32867	351.49636	7.88273	0.0757156	0.30108991	2.2046446	20	2 9.4	19.7
290133 2005 QS_{153}	17.1	X	321.64615	301.17115	61.72380	6.89833	0.0944522	0.26239609	2.4163758	20	9 16.6	19.7
290134 2005 QB_{154}	16.2	X	256.00027	156.13536	98.86730	8.52889	0.1232154	0.23278648	2.6171636	20	1 10.7	20.2
290135 2005 QH_{154}	15.4	X	200.08701	309.83554	56.73067	11.70110	0.1251006	0.17291033	3.1909653	20	4 8.7	20.6
290136 2005 QK_{154}	15.7	X	260.12888	314.63388	36.41758	13.11530	0.1594815	0.18172025	3.0869802	20	5 9.8	20.4
290137 2005 QH_{155}	17.1	X	89.13306	158.68289	119.91040	7.46367	0.0956847	0.27536692	2.3398869	20	11 27.5	20.4
290138 2005 QQ_{155}	17.6	X	15.14545	332.26581	43.67749	2.97390	0.2344363	0.27533104	2.3400902	20	—	—
290139 2005 QR_{156}	14.9	X	213.31730	53.55511	291.80238	15.93888	0.0247922	0.17240624	3.1971823	20	3 17.9	19.9
290140 2005 QZ_{159}	17.1	X	255.41670	321.30946	355.24707	20.75314	0.0638621	0.37784430	1.8949342	20	3 18.7	19.0
290141 2005 QM_{161}	15.9	X	267.35054	313.72050	22.37250	10.13858	0.2467722	0.18313922	3.0710141	20	4 19.6	20.8
290142 2005 QH_{162}	16.2	X	196.73442	15.99746	9.44451	6.19011	0.0503566	0.24564858	2.5249913	20	4 20.5	19.8
290143 2005 QS_{166}	16.1	X	37.52187	186.17395	177.82107	18.54388	0.2776596	0.21128037	2.7918791	20	—	—
290144 2005 QT_{168}	16.0	X	67.97715	119.45555	209.42867	10.17299	0.2285691	0.21041812	2.7995010	20	—	—
290145 2005 QY_{174}	17.1	X	326.32808	65.30837	259.20774	5.64884	0.3110980	0.25845881	2.4408541	20	6 24.4	18.4
290146 2005 QC_{175}	15.6	X	186.73511	263.22885	178.21378	25.12989	0.2889816	0.17861484	3.1226575	20	6 18.7	21.7
290147 2005 QE_{175}	17.8	X	85.28391	121.22380	186.47865	4.81548	0.1857765	0.27804374	2.3248448	20	—	—
290148 2005 QT_{177}	16.4	X	115.00213	57.84313	273.57273	4.48514	0.1213275	0.21904422	2.7255125	20	—	—
290149 2005 QX_{177}	16.9	X	97.51011	142.92645	183.59932	4.63076	0.1200421	0.21472464	2.7619435	20	—	—
290150 2005 QQ_{178}	17.4	X	282.93702	240.46433	146.92035	5.11256	0.1882212	0.25717575	2.4489657	20	7 26.2	20.2
290151 2005 QW_{178}	15.5	X	258.60209	57.81536	312.05193	10.97416	0.1359896	0.18300391	3.0725276	20	6 4.4	20.2
290152 2005 QJ_{179}	15.7	X	228.55844	36.71687	357.14762	9.45416	0.0895957	0.18216732	3.0819274	20	6 5.4	20.5
290153 2005 QY_{179}	16.0	X	40.16355	284.40024	157.08379	14.34797	0.0471140	0.22302016	2.6930224	20	—	—
290154 2005 QX_{182}	16.4	X	168.23339	344.06874	334.11134	5.29269	0.0261718	0.22646409	2.6656501	20	—	—
290155 2005 QZ_{182}	15.9	X	34.00036	227.66895	116.49378	10.31148	0.1398114	0.20593933	2.8399445	20	12 6.3	19.8
290156 2005 QL_{183}	18.2	X	20.05594	183.81449	116.02467	5.73106	0.1880900	0.26684019	2.3894717	20	10 10.8	20.7
290157 2005 QV_{187}	15.7	X	286.26589	303.82520	336.11108	9.49470	0.2019913	0.17816749	3.1278824	20	3 7.9	20.3
290158 2005 QC_{188}	16.4	X	40.56801	266.27828	54.00437	2.79156	0.0684121	0.20294900	2.8677730	20	11 2.6	20.2
290159 2005 QK_{190}	17.2	X	117.18402	87.97248	274.03007	1.96029	0.1077360	0.22405291	2.6847406	20	—	—
290160 2005 RK_{1}	17.3	X	214.09364	293.51579	59.78093	2.82577	0.2121122	0.24376029	2.5380144	20	3 26.9	21.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290161 2005 RE_{2}	15.8	X	93.54264	26.24394	281.96354	16.37613	0.1270761	0.20863623	2.8154181	20	12 26.2	20.2
290162 2005 RC_{5}	16.7	X	177.19589	212.77688	129.18020	4.43955	0.0303012	0.23096038	2.6309407	20	2 3.4	20.2
290163 2005 RT_{11}	15.0	X	133.83073	161.00392	192.53719	9.52384	0.0678208	0.15557091	3.4238689	20	1 12.3	20.1
290164 2005 RB_{12}	17.1	X	203.69192	359.19385	324.80461	0.58874	0.2027886	0.23647661	2.5898658	20	2 12.2	21.3
290165 2005 RK_{18}	14.9	X	209.00683	337.72730	355.85310	18.65835	0.1306892	0.17118010	3.2124314	20	3 7.3	20.0
290166 2005 RX_{18}	17.0	X	69.21131	207.95140	159.03158	4.50848	0.1069353	0.21545651	2.7556854	20	—	—
290167 2005 RM_{20}	16.2	X	325.36956	88.29002	268.42475	9.23308	0.1185404	0.19337825	2.9616311	20	8 22.8	19.9
290168 2005 RL_{21}	15.6	X	294.53206	299.71658	51.38906	11.49725	0.1048532	0.19032600	2.9932108	20	7 2.8	19.6
290169 2005 RO_{21}	16.8	X	312.14356	149.07654	222.93696	5.77676	0.1181470	0.26258097	2.4152414	20	9 3.6	19.3
290170 2005 RR_{25}	15.4	X	211.59436	141.38810	178.21262	26.28079	0.2381546	0.17279226	3.1924188	20	2 15.5	21.2
290171 2005 RY_{25}	16.5	X	315.35018	215.04423	83.92345	3.61900	0.2515706	0.18603253	3.0390893	20	5 3.8	20.0
290172 2005 RB_{28}	17.0	X	180.98887	89.52171	199.72091	1.41181	0.1867743	0.22706040	2.6609810	20	—	—
290173 2005 RJ_{29}	15.5	X	207.04624	212.38455	200.88610	16.53857	0.2486204	0.17762426	3.1342564	20	6 1.3	21.1
290174 2005 RB_{33}	15.5	X	250.05905	267.05361	122.65322	14.96039	0.3321876	0.18122796	3.0925679	20	6 3.1	20.9
290175 2005 RM_{40}	17.4	X	99.58481	129.47368	182.28531	25.00819	0.1367837	0.27960548	2.3161797	20	—	—
290176 2005 RB_{42}	17.9	X	320.32606	184.47908	217.18615	1.76160	0.1965648	0.26676543	2.3899181	20	11 9.6	19.4
290177 2005 RT_{43}	17.7	X	352.12250	295.68374	151.22454	2.10025	0.1850702	0.27963457	2.3160191	20	—	—
290178 2005 RF_{44}	15.8	X	237.79989	313.10373	8.53470	27.10500	0.1966761	0.17463960	3.1698659	20	3 18.2	21.1
290179 2005 RT_{45}	17.6	X	168.22009	241.18051	164.93418	6.68062	0.0928647	0.23944563	2.5684125	20	4 19.3	21.4
290180 2005 RK_{48}	16.3	X	90.39537	310.47794	47.95935	9.57252	0.1784995	0.21780606	2.7358319	20	—	—
290181 2005 RZ_{50}	16.2	X	114.79904	48.49219	254.80820	6.71180	0.2060813	0.21715079	2.7413329	20	—	—
290182 2005 RT_{51}	16.1	X	330.04802	329.47378	341.08979	9.20130	0.1125353	0.18832045	3.0144244	20	7 3.9	19.9
290183 2005 SZ_{4}	16.5	X	124.86013	216.24806	177.28094	5.21235	0.0470486	0.22734456	2.6587633	20	2 6.3	20.1
290184 2005 SG_{5}	16.7	X	71.03963	69.02596	325.90793	4.09791	0.1698747	0.22107192	2.7088211	20	—	—
290185 2005 SL_{6}	16.2	X	25.25500	162.73693	290.72676	2.78765	0.0672434	0.21787366	2.7352659	20	—	—
290186 2005 SF_{7}	17.1	X	71.99133	244.79999	196.48032	4.54896	0.1711803	0.22512633	2.6761998	20	2 14.4	20.1
290187 2005 SY_{10}	15.4	X	340.63513	77.89284	203.67790	14.97494	0.0326677	0.18138513	3.0907812	20	6 14.4	19.8
290188 2005 SG_{11}	16.1	X	357.04469	10.25040	15.15241	15.42008	0.1399625	0.20257922	2.8712618	20	11 28.4	19.7
290189 2005 SC_{14}	17.1	X	41.79132	227.53166	182.49686	5.41958	0.0495635	0.21605813	2.7505675	20	—	—
290190 2005 SJ_{15}	17.1	X	70.71609	24.27698	344.59222	2.91613	0.1030225	0.21479602	2.7613316	20	—	—
290191 2005 SX_{15}	16.1	X	98.94762	310.07904	198.19832	11.53791	0.1093754	0.17665783	3.1456769	20	6 12.3	20.8
290192 2005 SM_{22}	16.8	X	294.06491	251.75473	123.42053	4.26957	0.2044961	0.18947937	3.0021203	20	7 18.7	20.6
290193 2005 SD_{23}	17.8	X	330.30973	184.51960	171.55339	1.55790	0.2071561	0.26293858	2.4130510	20	9 17.4	19.5
290194 2005 SV_{24}	15.2	X	224.90432	321.69406	51.51879	9.98420	0.1043708	0.17795423	3.1303809	20	5 7.6	20.0
290195 2005 SD_{27}	16.7	X	118.41468	40.96838	307.30840	5.58669	0.0301530	0.21946541	2.7220243	20	—	—
290196 2005 SF_{27}	16.8	X	85.11209	76.33174	268.07675	4.42708	0.0664518	0.21290869	2.7776261	20	—	—
290197 2005 SY_{27}	17.4	X	182.77662	48.42764	352.34008	10.39423	0.1264203	0.23975164	2.5662265	20	4 22.6	21.5
290198 2005 SX_{28}	16.5	X	269.42886	68.89193	332.66369	4.49625	0.2034028	0.18683152	3.0304186	20	7 20.2	20.7
290199 2005 SS_{29}	16.0	X	219.72777	46.60832	348.78422	9.39481	0.0716754	0.17865984	3.1221332	20	5 29.6	20.9
290200 2005 SE_{32}	16.6	X	3.00749	26.32014	49.94552	5.85233	0.1966880	0.20976181	2.8053374	20	—	—
290201 2005 SK_{34}	16.6	X	60.59061	277.25880	80.15861	4.59187	0.1019096	0.20945388	2.8080863	20	—	—
290202 2005 SD_{36}	15.5	X	269.55835	348.22031	3.90216	14.25311	0.0343612	0.18185643	3.0854388	20	6 8.0	20.1
290203 2005 SM_{37}	16.2	X	318.69633	29.17286	11.76383	13.88635	0.1513969	0.19813149	2.9140727	20	10 13.1	19.4
290204 2005 SN_{37}	16.0	X	8.64276	84.74518	184.63368	10.07466	0.0398890	0.18483603	3.0521905	20	7 7.2	20.3
290205 2005 SC_{38}	15.9	X	295.96036	315.68100	14.13992	10.92362	0.2164519	0.18500034	3.0503830	20	5 16.8	20.1
290206 2005 SW_{38}	16.9	X	53.11565	344.07924	9.26450	4.74207	0.1207024	0.20873507	2.8145293	20	—	—
290207 2005 SM_{39}	17.0	X	327.10721	38.20002	20.55514	1.92210	0.0898430	0.20282703	2.8689226	20	11 24.3	20.5
290208 2005 SN_{40}	17.4	X	224.01570	316.04025	24.81246	4.07659	0.1840335	0.30673263	2.1775229	20	3 16.9	20.7
290209 2005 SA_{41}	15.7	X	46.06669	203.13746	16.18626	5.78125	0.1031775	0.18249925	3.0781893	20	7 3.9	19.7
290210 2005 SH_{41}	16.2	X	169.45370	258.54685	12.91346	13.07952	0.1918335	0.21848851	2.7301320	20	—	—
290211 2005 SF_{42}	16.3	X	18.66296	139.44012	226.28699	5.22887	0.0852450	0.20333071	2.8641828	20	12 3.1	20.0
290212 2005 SB_{44}	15.9	X	313.73988	70.67231	213.08926	10.70931	0.0745395	0.17665981	3.1456534	20	5 7.2	20.1
290213 2005 SG_{44}	16.9	X	228.14411	314.86710	352.87076	5.09173	0.2232966	0.23522012	2.5990806	20	2 13.2	21.2
290214 2005 SH_{44}	16.4	X	124.84888	136.74275	208.55339	8.28850	0.1738622	0.22051093	2.7134134	20	—	—
290215 2005 SV_{45}	15.8	X	242.16187	137.89670	203.40747	12.02264	0.0760780	0.17355752	3.1830278	20	4 19.8	20.6
290216 2005 SY_{45}	17.9	X	35.22016	38.13206	257.25913	1.53026	0.1990478	0.26423836	2.4051314	20	10 25.3	20.8
290217 2005 SO_{48}	14.9	X	229.27368	334.22730	24.55188	17.36979	0.2028624	0.17579071	3.1560129	20	4 16.8	20.1
290218 2005 SE_{49}	16.1	X	337.23376	53.85728	201.91513	8.88846	0.0707761	0.17453711	3.1711068	20	5 5.7	20.2
290219 2005 SX_{50}	16.2	X	105.34658	41.03252	15.80665	9.38125	0.1750494	0.22626244	2.6672337	20	3 5.4	19.9
290220 2005 SG_{51}	16.9	X	57.57024	315.21585	203.66369	4.27949	0.0699722	0.23644859	2.5900704	20	4 24.5	19.9
290221 2005 SN_{53}	17.0	X	357.82466	53.78105	350.31589	5.42675	0.2370903	0.27159486	2.3615022	20	—	—
290222 2005 SY_{53}	16.9	X	65.81665	267.98867	194.43924	5.56975	0.1575226	0.22636763	2.6664074	20	3 1.9	20.1
290223 2005 SS_{54}	16.4	X	8.07276	77.53545	196.94849	9.87569	0.0515497	0.18396754	3.0617889	20	7 12.9	20.6
290224 2005 SU_{56}	17.7	X	5.36239	113.96370	186.22450	1.16918	0.1732477	0.26299595	2.4127001	20	9 6.1	19.8
290225 2005 ST_{58}	16.7	X	17.43199	10.55509	206.36793	1.85164	0.1266687	0.24303053	2.5430925	20	5 15.5	19.1
290226 2005 SL_{59}	16.9	X	314.43036	55.62063	23.95991	2.14434	0.0366010	0.20390041	2.8588453	20	12 3.2	20.7
290227 2005 SL_{62}	16.9	X	197.75414	136.55966	187.45880	2.03782	0.0865900	0.23011575	2.6373746	20	2 5.8	20.8
290228 2005 SA_{63}	16.6	X	36.35047	194.55800	207.79475	3.49995	0.2206828	0.21300295	2.7768067	20	—	—
290229 2005 SP_{63}	16.9	X	115.44440	173.85701	193.56687	3.28170	0.0995694	0.22201795	2.7011207	20	1 1.9	20.6
290230 2005 SB_{64}	16.3	X	20.21934	219.78700	12.22712	1.37767	0.0149264	0.17838479	3.1253417	20	6 3.8	20.5
290231 2005 SR_{64}	16.9	X	269.51341	68.06364	192.47869	3.26284	0.0677888	0.23168045	2.6254865	20	2 5.5	20.6
290232 2005 SL_{65}	16.5	X	175.60659	133.36736	206.90232	14.43095	0.2203976	0.23146388	2.6271240	20	2 5.7	21.2
290233 2005 SF_{71}	17.2	X	180.47076	353.03894	49.25851	25.36172	0.0577545	0.37524712	1.9036677	20	4 25.2	19.3
290234 2005 SF_{73}	16.5	X	37.71946	221.40017	172.86408	4.13220	0.2009413	0.21008091	2.8024959	20	—	—
290235 2005 SO_{74}	16.7	X	9.90263	10.45673	10.45202	1.87593	0.1037422	0.20566349	2.8424833	20	12 12.7	20.3
290236 2005 SP_{74}	16.9	X	254.92427	25.20635	184.49928	5.17018	0.0515678	0.22034172	2.7148024	20	—	—
290237 2005 SN_{81}	16.9	X	351.14042	230.41500	162.12364	1.15137	0.1242587	0.20378838	2.8598930	20	12 1.3	20.2
290238 2005 SR_{81}	16.5	X	273.41227	287.39444	45.76513	1.16888	0.0839568	0.18017654	3.1045874	20	5 14.6	20.8
290239 2005 SS_{81}	16.2	X	257.61284	96.33779	15.46609	7.38026	0.0410465	0.20152478	2.8812686	20	10 27.1	20.2
290240 2005 SC_{86}	16.8	X	16.21255	258.70372	154.32411	2.21950	0.0954233	0.21085661	2.7956185	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290241 2005 SY_{90}	15.7	X	284.77769	329.67490	18.30485	9.29972	0.1347854	0.18238497	3.0794750	20	6 8.5	20.1
290242 2005 SA_{93}	15.1	X	209.33792	38.56318	17.55459	16.39377	0.0806705	0.17869027	3.1217787	20	6 12.0	20.1
290243 2005 SD_{95}	15.2	X	112.08235	200.51272	296.50869	16.62524	0.0068511	0.17897254	3.1184954	20	5 30.3	19.9
290244 2005 SB_{98}	16.2	X	176.97919	276.98157	232.30287	8.88793	0.0158514	0.19173141	2.9785658	20	9 3.2	20.6
290245 2005 SH_{98}	16.6	X	107.07161	77.34367	263.19838	5.29851	0.0147088	0.21477390	2.7615212	20	—	—
290246 2005 SU_{101}	16.0	X	48.65362	358.20192	228.36826	8.86555	0.0536805	0.18232023	3.0802040	20	7 8.2	20.3
290247 2005 SW_{101}	16.8	X	60.51784	80.61904	297.55014	4.14018	0.0126978	0.21274143	2.7790818	20	—	—
290248 2005 SJ_{102}	17.3	X	133.41688	41.34336	338.64565	5.19843	0.2383267	0.29446978	2.2375645	20	2 16.9	20.4
290249 2005 SV_{104}	15.8	X	298.84127	297.15116	31.74091	6.31615	0.2176548	0.18397415	3.0617156	20	5 21.5	19.7
290250 2005 SD_{107}	16.2	X	195.82842	1.61198	308.29872	12.37190	0.1804077	0.23116930	2.6293553	20	1 21.2	20.6
290251 2005 SA_{108}	15.1	X	39.24398	51.80870	215.31957	3.22887	0.0968895	0.12308682	4.0024724	20	8 16.6	20.5
290252 2005 SC_{110}	14.8	X	53.61479	240.55020	16.94887	7.92559	0.1611270	0.12451264	3.9718584	20	9 5.9	20.2
290253 2005 SB_{111}	16.4	X	328.77796	82.50855	237.50143	0.51149	0.1010324	0.18658061	3.0331348	20	7 14.1	20.0
290254 2005 SE_{113}	16.2	X	62.43723	190.34976	220.53046	12.29215	0.1290064	0.21878140	2.7276948	20	—	—
290255 2005 SL_{113}	16.7	X	341.24267	223.60886	335.38205	1.21288	0.1326822	0.23384355	2.6092706	20	2 12.6	19.5
290256 2005 SB_{114}	16.8	X	117.76295	269.13512	349.94904	1.45886	0.0293133	0.20379368	2.8598433	20	11 14.3	20.9
290257 2005 SA_{118}	16.7	X	268.27318	274.57887	108.85180	5.98232	0.1158557	0.25376869	2.4708366	20	7 10.9	19.5
290258 2005 SD_{121}	16.7	X	10.66059	65.98806	339.21437	4.37814	0.1215039	0.20857069	2.8160078	20	—	—
290259 2005 SW_{122}	15.2	X	351.37082	30.12194	207.73669	16.10994	0.0231703	0.17607292	3.1526397	20	5 5.1	19.5
290260 2005 SK_{123}	17.0	X	180.92043	50.70055	330.90900	3.45849	0.1531764	0.23708289	2.5854486	20	3 31.1	21.2
290261 2005 SX_{123}	17.6	X	61.85991	284.58788	102.05340	2.27002	0.2293111	0.28238868	2.3009359	20	—	—
290262 2005 ST_{124}	16.2	X	181.55915	120.20776	203.61241	13.88488	0.0677740	0.22693567	2.6619560	20	1 16.6	20.4
290263 2005 SN_{126}	17.5	X	10.91931	253.13147	94.12338	3.12901	0.2394305	0.26807524	2.3821270	20	12 8.7	19.9
290264 2005 SD_{127}	16.2	X	256.83468	157.52297	187.68901	7.64175	0.1937853	0.17905058	3.1175892	20	4 28.3	21.1
290265 2005 SG_{133}	17.8	X	313.41385	271.29392	17.10790	3.64652	0.2149837	0.31420843	2.1428453	20	4 11.8	19.5
290266 2005 SA_{136}	16.5	X	168.14424	190.14512	39.16078	3.21040	0.2203374	0.21080926	2.7960371	20	11 28.5	21.2
290267 2005 SC_{137}	16.3	X	156.86430	236.33298	27.21454	5.13834	0.1193885	0.21281777	2.7784172	20	—	—
290268 2005 SX_{138}	17.9	X	29.53202	19.93416	101.22708	1.33051	0.0661938	0.29365100	2.2417219	20	1 7.6	20.1
290269 2005 SW_{139}	16.2	X	123.87758	139.74179	173.21239	6.48506	0.0509414	0.21460962	2.7629303	20	—	—
290270 2005 SS_{142}	15.5	X	299.52368	303.54809	28.76127	13.68024	0.1135989	0.18445419	3.0564012	20	6 11.1	19.7
290271 2005 SV_{143}	16.8	X	240.38932	102.50716	49.12989	6.08360	0.0786805	0.20444644	2.8537528	20	11 20.3	20.6
290272 2005 SN_{145}	17.1	X	48.09662	293.17655	69.72016	3.46904	0.0834616	0.20936872	2.8088477	20	—	—
290273 2005 SS_{145}	16.9	X	206.30293	85.49095	69.24838	3.00881	0.0259172	0.19954174	2.9003265	20	10 21.3	20.9
290274 2005 SA_{147}	17.2	X	77.47898	91.89945	69.11327	1.30710	0.0589632	0.24154006	2.5535435	20	5 24.6	20.3
290275 2005 SV_{147}	17.0	X	308.09127	84.18585	26.13504	8.39541	0.1978056	0.27185457	2.3599979	20	—	—
290276 2005 SO_{148}	16.5	X	89.94871	140.76600	187.35821	5.31837	0.1003923	0.20969011	2.8059769	20	—	—
290277 2005 SS_{148}	16.2	X	350.85208	39.47096	189.26301	6.48740	0.1667922	0.23971982	2.5664536	20	4 8.2	18.6
290278 2005 SO_{149}	17.3	X	74.23713	2.80244	74.92102	3.31620	0.1307177	0.22329483	2.6908135	20	2 10.5	20.6
290279 2005 ST_{149}	16.6	X	235.83992	168.93995	169.48451	3.11332	0.1888376	0.17313332	3.1882249	20	3 31.7	21.9
290280 2005 SU_{149}	17.2	X	308.70900	105.24637	180.57075	5.46164	0.1807414	0.24551164	2.5259301	20	4 13.1	20.0
290281 2005 SD_{154}	17.4	X	297.86422	157.83682	280.89698	1.66597	0.1619558	0.26750574	2.3855067	20	11 17.6	19.2
290282 2005 SA_{156}	15.9	X	341.07507	318.07452	13.26788	8.78837	0.0891630	0.19054409	2.9909264	20	8 23.7	19.6
290283 2005 SR_{157}	17.9	X	41.38004	201.95927	172.08014	2.04842	0.1996531	0.27637462	2.3341958	20	—	—
290284 2005 SF_{160}	16.7	X	105.30111	143.91071	215.11052	3.61244	0.1012652	0.21975841	2.7196042	20	—	—
290285 2005 SH_{160}	17.2	X	283.70189	345.96564	271.81468	1.87458	0.1023982	0.23583579	2.5945552	20	2 14.1	20.7
290286 2005 SM_{160}	17.2	X	256.74414	180.90071	350.71819	3.89277	0.0231012	0.21234731	2.7825194	20	—	—
290287 2005 SX_{160}	17.0	X	290.10435	213.67586	228.18285	1.11728	0.0300107	0.20185837	2.8780934	20	11 3.6	20.8
290288 2005 SV_{164}	16.0	X	189.13195	275.87109	54.63286	13.42350	0.2848300	0.23057074	2.6339039	20	2 16.1	21.0
290289 2005 SU_{165}	16.6	X	83.03991	279.88293	103.85618	4.38940	0.0957204	0.21975059	2.7196688	20	—	—
290290 2005 SO_{167}	16.4	X	46.30063	247.71286	163.90546	17.76823	0.3152518	0.21366581	2.7710606	20	—	—
290291 2005 SM_{168}	15.7	X	203.78689	309.90447	330.28748	7.63855	0.0273983	0.15628309	3.4134593	20	1 2.6	20.7
290292 2005 SZ_{168}	17.4	X	202.39533	165.35844	215.40929	7.13831	0.1642069	0.24107618	2.5568182	20	4 19.5	21.6
290293 2005 SE_{169}	16.4	X	346.42270	166.86335	318.27973	4.29502	0.0652256	0.21922573	2.7240079	20	—	—
290294 2005 SV_{169}	16.5	X	218.98574	57.06259	329.05326	4.16499	0.1581686	0.17709771	3.1404660	20	5 12.1	21.5
290295 2005 SN_{170}	15.8	X	271.41428	126.85213	209.64558	9.87818	0.0910349	0.17948154	3.1125967	20	5 16.3	20.2
290296 2005 ST_{171}	16.1	X	145.13647	324.47474	324.63149	3.47642	0.0424660	0.21454363	2.7634968	20	—	—
290297 2005 SV_{175}	16.8	X	62.33876	133.88511	325.12822	4.35466	0.0945980	0.22710386	2.6606415	20	2 13.9	19.8
290298 2005 SQ_{176}	17.3	X	326.04356	138.98374	290.57976	2.42175	0.1595810	0.27057342	2.3674417	20	—	—
290299 2005 SS_{176}	17.7	X	20.81936	264.34171	224.99152	4.62603	0.1492551	0.29137577	2.2533765	20	—	—
290300 2005 SF_{178}	16.7	X	167.01984	307.05273	308.46420	3.80374	0.1126127	0.21284973	2.7781391	20	—	—
290301 2005 SE_{179}	17.6	X	43.31374	181.27247	217.51917	1.85815	0.2309003	0.28049577	2.3112762	20	—	—
290302 2005 SX_{179}	15.9	X	180.34799	218.86870	177.78620	5.47759	0.1733094	0.17215549	3.2002861	20	4 23.2	21.1
290303 2005 SA_{181}	15.2	X	259.87519	279.82351	7.52036	18.27691	0.1322607	0.16900087	3.2399882	20	3 4.9	20.2
290304 2005 SU_{181}	16.5	X	55.08399	255.45278	246.99598	3.42648	0.0848732	0.23364729	2.6107316	20	3 28.9	19.7
290305 2005 SX_{181}	16.9	X	6.79745	208.70701	228.71738	4.51319	0.0123484	0.21364932	2.7712032	20	—	—
290306 2005 SZ_{181}	16.7	X	142.46907	317.16616	332.58167	3.14787	0.0717069	0.21304460	2.7764447	20	—	—
290307 2005 SA_{182}	15.8	X	52.43508	58.88363	213.83976	9.57991	0.0638026	0.19290122	2.9665117	20	9 12.8	20.0
290308 2005 SM_{184}	16.6	X	135.68577	182.41174	345.54321	4.50595	0.0723894	0.18697600	3.0288573	20	8 15.1	21.1
290309 2005 SN_{184}	15.9	X	221.24593	107.26444	228.07410	4.35680	0.0729636	0.16909705	3.2387595	20	3 19.7	20.9
290310 2005 SM_{186}	16.3	X	81.20148	20.82307	188.06192	6.70005	0.0299025	0.18540019	3.0459955	20	7 25.3	20.6
290311 2005 SD_{190}	16.0	X	80.36948	215.08134	182.05887	10.18820	0.1737817	0.21926740	2.7236628	20	1 2.1	19.3
290312 2005 SL_{191}	16.6	X	190.94449	152.86711	171.06177	14.21509	0.2759845	0.23100423	2.6306078	20	2 2.2	21.4
290313 2005 SS_{191}	17.1	X	48.38449	254.47652	182.38794	2.60009	0.1453678	0.21826566	2.7319900	20	—	—
290314 2005 SP_{195}	15.1	X	272.92952	307.51000	330.75920	11.92037	0.0876770	0.17394012	3.1783584	20	3 5.3	19.7
290315 2005 ST_{195}	17.0	X	334.79901	52.72028	5.53906	1.72021	0.0633610	0.20546640	2.8443007	20	12 5.4	20.6
290316 2005 SV_{195}	16.7	X	67.37267	29.78981	13.94357	6.17063	0.0401884	0.22042803	2.7140937	20	—	—
290317 2005 SJ_{198}	16.8	X	330.54603	185.82236	212.77596	1.30312	0.0692093	0.20342222	2.8633238	20	11 3.7	20.4
290318 2005 SW_{202}	16.7	X	127.85451	74.82381	174.33038	2.06922	0.0415080	0.20473865	2.8510369	20	11 15.5	20.9
290319 2005 SP_{204}	16.9	X	257.03746	101.00275	183.42864	9.20633	0.1928744	0.23738393	2.5832623	20	2 8.0	21.2
290320 2005 SK_{205}	15.3	X	224.52875	98.21964	201.89916	18.00939	0.2246027	0.16910869	3.2386109	20	2 1.9	21.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290321 2005 SR_{207}	16.8	X	298.41668	160.70477	273.15835	4.40340	0.1656715	0.26529738	2.3987265	20	11 9.3	18.8
290322 2005 SH_{211}	15.9	X	335.21845	320.95367	359.30050	8.87313	0.1413646	0.18872163	3.0101509	20	7 26.2	19.4
290323 2005 SO_{211}	17.1	X	62.28671	282.62203	215.28519	2.08990	0.0435261	0.23397535	2.6082906	20	3 29.5	20.4
290324 2005 SM_{213}	15.6	X	324.63871	58.97701	212.55448	8.22695	0.0490044	0.17473174	3.1687515	20	5 9.7	19.9
290325 2005 SL_{214}	15.6	X	220.58105	188.45376	223.00087	14.68287	0.1950848	0.17820417	3.1274531	20	6 11.9	20.8
290326 2005 SY_{215}	17.6	X	34.09263	139.71563	266.39212	3.72840	0.2182447	0.27939387	2.3173491	20	—	—
290327 2005 SJ_{217}	16.0	X	64.73366	47.99097	29.01730	14.37771	0.1887893	0.21990584	2.7183886	20	2 8.3	19.3
290328 2005 SX_{217}	17.6	X	265.22715	312.41444	30.17027	2.62273	0.1082974	0.31130091	2.1561673	20	5 9.6	20.2
290329 2005 SV_{224}	16.9	X	171.36989	100.67849	193.32477	11.44179	0.0712453	0.21998070	2.7177719	20	—	—
290330 2005 SR_{225}	15.2	X	304.02869	79.02962	215.25005	9.64063	0.1320355	0.17605343	3.1528723	20	4 28.5	19.4
290331 2005 SU_{226}	15.9	X	89.79437	343.36577	146.82750	0.87116	0.1102796	0.17028277	3.2237072	20	5 9.7	20.5
290332 2005 SZ_{226}	16.9	X	246.05574	106.93610	23.10060	6.38788	0.0421168	0.20139790	2.8824786	20	11 4.4	20.9
290333 2005 SY_{227}	16.9	X	322.63221	122.84273	29.07111	2.67142	0.0162146	0.22054191	2.7131593	20	—	—
290334 2005 SP_{231}	16.7	X	331.85952	42.64992	34.85625	2.36816	0.0516868	0.20455588	2.8527348	20	12 25.2	20.4
290335 2005 SF_{235}	16.7	X	176.24292	298.01319	30.58036	1.22875	0.2791792	0.22866584	2.6485114	20	1 30.9	21.5
290336 2005 ST_{235}	17.3	X	78.74076	176.91496	292.12980	2.03368	0.1554450	0.22889327	2.6467568	20	3 30.7	20.6
290337 2005 SZ_{235}	16.7	X	154.89408	347.88838	304.97385	2.49526	0.1711815	0.21660627	2.7459252	20	—	—
290338 2005 SR_{236}	18.2	X	287.10644	82.00865	230.29974	3.61756	0.1424666	0.31205800	2.1526785	20	4 19.7	20.7
290339 2005 SC_{237}	16.5	X	31.68024	134.15211	311.38799	1.96676	0.0645602	0.21729948	2.7400822	20	—	—
290340 2005 SH_{238}	16.7	X	163.26948	359.37346	296.12821	1.53977	0.1283543	0.21709207	2.7418272	20	—	—
290341 2005 SV_{238}	16.6	X	228.50162	208.89895	198.00939	1.37103	0.1674178	0.18167081	3.0875402	20	6 16.2	21.5
290342 2005 SP_{239}	17.0	X	70.35201	220.34714	188.89015	4.77294	0.0132111	0.22231241	2.6987351	20	—	—
290343 2005 SJ_{245}	16.1	X	231.58495	186.00441	201.52218	11.02174	0.0499677	0.17881603	3.1203149	20	6 6.9	20.8
290344 2005 SO_{246}	15.9	X	205.00718	234.13764	213.18982	9.32212	0.0376003	0.18345426	3.0674973	20	7 19.7	20.6
290345 2005 SN_{247}	17.1	X	137.88038	124.18975	207.54511	4.77159	0.0851580	0.21947730	2.7219260	20	—	—
290346 2005 SB_{248}	16.7	X	7.57371	87.66297	10.69622	3.02765	0.0519168	0.21663447	2.7456869	20	—	—
290347 2005 SC_{248}	16.9	X	41.63985	42.21858	299.63629	1.06331	0.0739613	0.20319484	2.8654594	20	12 1.3	20.7
290348 2005 SZ_{248}	17.5	X	204.57095	41.62030	300.43582	0.76641	0.1025223	0.23330455	2.6132878	20	3 5.9	21.4
290349 2005 SJ_{250}	16.4	X	47.05780	204.00516	152.30024	4.26772	0.1222172	0.20847449	2.8168741	20	—	—
290350 2005 SY_{250}	16.0	X	99.11463	299.80727	59.40442	5.96397	0.1326627	0.21721563	2.7407873	20	—	—
290351 2005 SO_{251}	16.2	X	65.92005	305.18587	41.71537	4.72358	0.2132067	0.21272691	2.7792083	20	—	—
290352 2005 SY_{251}	16.0	X	82.48013	216.32031	127.57584	7.37922	0.0773593	0.21473474	2.7618569	20	—	—
290353 2005 SC_{253}	16.5	X	55.72304	269.27946	146.46515	2.79393	0.1418232	0.21725690	2.7404402	20	—	—
290354 2005 SQ_{258}	16.3	X	252.71934	210.67443	207.25473	5.14146	0.1638478	0.18797404	3.0181267	20	7 24.6	20.8
290355 2005 SJ_{259}	15.4	X	237.26022	257.44888	113.58736	10.81525	0.0940491	0.17934198	3.1142112	20	5 21.6	20.2
290356 2005 ST_{260}	16.6	X	178.98942	68.63660	14.49112	1.56108	0.1558501	0.17690822	3.1427080	20	6 15.2	21.7
290357 2005 SF_{261}	17.9	X	356.19604	271.69558	171.64413	2.20963	0.1953658	0.28217593	2.3020923	20	—	—
290358 2005 SD_{262}	15.9	X	296.08300	308.18632	32.37831	9.12623	0.0640639	0.18478845	3.0527144	20	6 26.4	20.1
290359 2005 SX_{262}	15.8	X	99.92447	164.67634	38.39959	5.35102	0.1065119	0.18769783	3.0210869	20	8 24.3	20.3
290360 2005 SV_{263}	17.5	X	306.29879	351.93065	82.77378	3.18843	0.1775400	0.26611166	2.3938308	20	11 29.4	19.2
290361 2005 SD_{264}	17.5	X	65.05051	224.53835	124.37909	3.11643	0.2505633	0.28027969	2.3124639	20	—	—
290362 2005 SK_{264}	16.4	X	182.42384	252.97179	0.95199	4.14783	0.0181638	0.21209800	2.7846995	20	—	—
290363 2005 SW_{264}	16.3	X	50.04984	92.39273	311.00773	5.16465	0.0170986	0.21565306	2.7540108	20	—	—
290364 2005 SK_{265}	17.3	X	151.58323	67.69317	298.99107	5.58773	0.2803001	0.22963658	2.6410422	20	2 23.9	21.8
290365 2005 SV_{266}	16.3	X	277.43102	345.91041	341.61648	5.06963	0.1514103	0.18099224	3.0952525	20	4 30.9	20.9
290366 2005 SS_{267}	15.7	X	298.97470	33.62676	299.52097	11.23590	0.0991106	0.18628517	3.0363408	20	6 16.1	19.8
290367 2005 SR_{269}	15.2	X	277.22326	281.38853	45.46163	11.35363	0.1141408	0.17959232	3.1113166	20	5 6.9	19.6
290368 2005 SC_{270}	16.0	X	36.13631	39.90739	230.32140	3.90214	0.2021527	0.19056886	2.9906672	20	9 8.2	19.6
290369 2005 SK_{272}	17.1	X	245.08483	102.77738	207.91691	7.87813	0.1680411	0.23953539	2.5677708	20	2 29.9	21.3
290370 2005 SS_{272}	16.5	X	33.68058	179.19873	169.99426	9.60088	0.1374310	0.20482215	2.8502619	20	12 10.9	20.5
290371 2005 SA_{275}	15.7	X	171.01209	190.60313	211.37979	1.37619	0.1836030	0.17430940	3.1738679	20	4 20.6	21.1
290372 2005 SR_{278}	16.9	X	80.57024	237.63893	198.71080	4.22593	0.1012178	0.22464716	2.6800039	20	2 10.9	20.4
290373 2005 SD_{279}	17.3	X	84.70959	41.29615	59.44111	5.46717	0.1317203	0.22934970	2.6432440	20	3 28.2	20.6
290374 2005 SR_{280}	16.1	X	44.42737	312.44461	136.98281	5.76639	0.0810757	0.21985533	2.7188049	20	1 4.6	19.3
290375 2005 SO_{283}	16.6	X	191.17013	273.31170	134.07149	10.61000	0.0591589	0.24081883	2.5586394	20	5 17.9	20.4
290376 2005 SL_{284}	16.1	X	318.21772	123.84746	163.20651	11.18819	0.0484359	0.17779220	3.1322825	20	5 22.8	20.5
290377 2005 SU_{284}	16.7	X	91.03868	250.30615	166.07433	14.58198	0.0861561	0.22340890	2.6898975	20	1 28.4	20.4
290378 2005 SG_{289}	16.1	X	280.38665	243.59068	89.24996	2.35240	0.1804336	0.18099095	3.0952672	20	5 9.7	20.6
290379 2005 SQ_{289}	15.7	X	221.85945	59.49467	198.56484	6.86730	0.0732951	0.15393051	3.4481507	20	—	—
290380 2005 SZ_{290}	16.4	X	108.91976	7.82484	316.07423	5.63413	0.0599965	0.21277982	2.7787475	20	—	—
290381 2005 SB_{291}	16.2	X	316.77236	51.11437	228.19356	2.60419	0.1562624	0.17820855	3.1274019	20	4 23.8	20.0
290382 2005 SB_{292}	16.5	X	351.99756	268.27830	172.25630	8.47037	0.1865857	0.21091852	2.7950714	20	—	—
290383 2005 SK_{292}	16.8	X	155.57073	201.31357	85.05706	0.90259	0.0366977	0.21442771	2.7644927	20	—	—
290384 2005 SN_{292}	15.7	X	260.88830	186.44982	163.80113	12.59696	0.1339449	0.17993139	3.1074066	20	5 17.5	20.5
290385 2005 SE_{293}	15.1	X	242.75701	208.77944	154.89427	20.70355	0.1953853	0.17704791	3.1410548	20	5 10.9	20.5
290386 2005 SS_{293}	15.3	X	338.59402	59.98112	239.02505	8.82121	0.0973278	0.18384774	3.0631188	20	6 30.7	19.1
290387 2005 TW_{6}	16.9	X	86.20863	87.07850	286.52554	4.95957	0.1145502	0.28423825	2.2909434	20	—	—
290388 2005 TJ_{7}	15.8	X	227.19160	44.49184	305.99572	11.20044	0.1755512	0.17326594	3.1865978	20	4 1.9	21.2
290389 2005 TH_{8}	15.3	X	167.32526	108.98502	186.79517	9.87116	0.0673250	0.15063019	3.4983348	20	—	—
290390 2005 TM_{8}	16.3	X	45.85046	129.88237	159.54212	2.51118	0.0893618	0.19484229	2.9467767	20	10 3.2	20.2
290391 2005 TF_{9}	16.8	X	17.11611	237.01565	103.93613	1.41988	0.1267821	0.19904905	2.9051104	20	11 4.0	20.4
290392 2005 TL_{16}	16.1	X	238.17852	102.31441	198.84267	6.99125	0.0296455	0.16710332	3.2644698	20	2 29.7	21.0
290393 2005 TQ_{21}	16.8	X	308.58005	147.52891	52.76982	3.40315	0.0728654	0.22697671	2.6616351	20	1 9.7	20.4
290394 2005 TW_{22}	17.3	X	19.14594	84.86648	353.57117	4.76044	0.1423582	0.28281407	2.2986281	20	—	—
290395 2005 TT_{23}	16.8	X	192.08092	286.99399	352.05798	2.94845	0.0405230	0.22195679	2.7016169	20	—	—
290396 2005 TA_{25}	17.5	X	121.80297	7.88980	48.48062	1.52858	0.0605541	0.29633317	2.2281745	20	2 27.3	20.1
290397 2005 TT_{27}	16.1	X	64.32704	310.35873	48.09791	9.29230	0.1640262	0.20989829	2.8041212	20	—	—
290398 2005 TX_{27}	15.8	X	182.08189	313.10038	36.46782	15.12611	0.1122586	0.22914130	2.6448465	20	3 1.3	20.1
290399 2005 TC_{30}	15.9	X	128.13006	210.55935	130.37006	13.67196	0.1849312	0.22230875	2.6987646	20	—	—
290400 2005 TE_{32}	16.7	X	230.82663	330.25559	169.13829	5.92761	0.0283435	0.20055664	2.8905336	20	11 1.6	20.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290401 2005 TY_{32}	16.8	X	335.83848	353.77777	27.67189	10.87531	0.0816448	0.19875589	2.9079663	20	10 19.5	20.2
290402 2005 TQ_{35}	17.4	X	353.92168	141.78327	141.57081	3.22346	0.1830037	0.25533552	2.4607182	20	7 12.3	19.2
290403 2005 TG_{36}	16.5	X	106.35656	216.06213	55.82798	2.93629	0.0272390	0.20376991	2.8600657	20	11 17.0	20.3
290404 2005 TO_{36}	16.6	X	77.98600	279.23301	19.63837	5.92705	0.1577942	0.20607376	2.8387093	20	11 30.7	20.9
290405 2005 TV_{38}	16.3	X	167.23749	103.73091	208.60474	13.59874	0.1274336	0.22464789	2.6799981	20	—	—
290406 2005 TV_{39}	16.3	X	265.58813	345.03337	107.68532	3.23205	0.0531190	0.19532175	2.9419524	20	10 13.5	20.3
290407 2005 TX_{40}	16.7	X	121.23299	110.50321	260.96959	16.77564	0.0758316	0.34592244	2.0097879	20	—	—
290408 2005 TU_{43}	17.7	X	31.16213	275.04399	76.09321	3.23976	0.2230809	0.27173729	2.3606770	20	—	—
290409 2005 TX_{47}	16.6	X	227.75640	34.21676	23.91419	3.52599	0.1068925	0.18023133	3.1039581	20	7 5.3	21.3
290410 2005 TG_{48}	16.1	X	40.00360	197.10436	238.46616	3.85072	0.0280083	0.21741961	2.7390728	20	—	—
290411 2005 TJ_{53}	18.0	X	268.79358	60.98834	348.10056	2.10712	0.1902737	0.25557821	2.4591603	20	8 5.7	21.0
290412 2005 TF_{55}	15.6	X	184.06574	250.20914	184.57374	10.45211	0.0681323	0.17846258	3.1244334	20	6 11.4	20.5
290413 2005 TC_{56}	15.4	X	235.67778	201.32443	189.99349	9.56151	0.1034463	0.17839463	3.1252267	20	6 10.7	20.2
290414 2005 TL_{57}	16.3	X	50.77165	203.14108	197.28404	5.26328	0.0691091	0.21380973	2.7698169	20	—	—
290415 2005 TF_{59}	16.8	X	239.61451	290.90203	144.53677	1.75108	0.0405288	0.18712347	3.0272657	20	8 18.3	21.1
290416 2005 TY_{60}	16.3	X	288.64330	333.37371	319.09722	5.08909	0.1083427	0.17653650	3.1471181	20	4 6.8	20.8
290417 2005 TU_{62}	17.1	X	243.23747	243.55430	92.67434	1.68141	0.1031655	0.23951873	2.5678899	20	4 8.9	20.9
290418 2005 TC_{64}	16.7	X	99.22155	44.49917	326.70204	1.77638	0.0756000	0.21955023	2.7213232	20	—	—
290419 2005 TL_{64}	16.5	X	331.23744	232.61503	84.16239	0.47908	0.1680320	0.18657312	3.0332159	20	7 8.5	19.9
290420 2005 TJ_{75}	16.7	X	48.66116	114.49057	274.13237	3.70081	0.0813179	0.21294075	2.7773473	20	—	—
290421 2005 TH_{76}	16.7	X	218.20235	213.11613	102.03171	9.09406	0.1963697	0.23626611	2.5914038	20	2 15.6	21.1
290422 2005 TK_{77}	17.3	X	340.05907	355.49638	78.46855	3.57776	0.1877909	0.27257172	2.3558566	20	—	—
290423 2005 TE_{79}	17.0	X	171.71579	200.46706	31.42463	2.50009	0.0279418	0.20507296	2.8479374	20	12 14.1	21.1
290424 2005 TK_{81}	15.9	X	26.29152	299.62250	267.83925	3.50014	0.0703790	0.17534229	3.1613914	20	5 14.5	19.9
290425 2005 TK_{82}	17.5	X	51.94192	99.89422	230.20433	3.94000	0.1249125	0.27217532	2.3581434	20	12 22.5	20.7
290426 2005 TO_{90}	15.8	X	209.11642	84.71003	331.68533	8.90424	0.1618453	0.17917841	3.1161063	20	6 9.2	21.0
290427 2005 TB_{95}	15.6	X	143.69612	289.69441	228.17121	8.72103	0.0458868	0.18650611	3.0339425	20	8 5.6	20.2
290428 2005 TE_{96}	16.7	X	51.85737	353.28541	273.93277	2.26480	0.0896229	0.19060872	2.9902502	20	9 10.2	20.7
290429 2005 TM_{96}	17.1	X	359.37826	338.66616	226.76616	6.20854	0.0799934	0.30233054	2.1986092	20	3 16.5	19.3
290430 2005 TO_{98}	16.1	X	115.40795	344.01533	7.03916	7.82389	0.1934233	0.21791044	2.7349582	20	—	—
290431 2005 TF_{100}	17.5	X	262.93910	69.85954	3.54637	4.88427	0.1126122	0.25952633	2.4341561	20	9 14.5	20.4
290432 2005 TL_{100}	16.6	X	206.13133	308.27741	339.85441	5.28451	0.2281103	0.22755910	2.6570919	20	1 5.2	21.2
290433 2005 TR_{109}	16.8	X	143.85026	0.32891	274.92400	2.41872	0.0579689	0.21190909	2.7863542	20	—	—
290434 2005 TP_{110}	16.9	X	245.40772	53.88738	230.07309	3.58305	0.1302149	0.23410622	2.6073185	20	2 2.1	20.9
290435 2005 TS_{110}	16.6	X	322.93821	213.53707	254.72297	3.61026	0.0150352	0.21302983	2.7765731	20	—	—
290436 2005 TH_{112}	16.9	X	309.89317	246.13650	249.25241	2.90471	0.1473649	0.21206702	2.7849707	20	—	—
290437 2005 TV_{114}	17.2	X	41.10441	188.93014	243.19498	2.40842	0.0529349	0.21948790	2.7218384	20	—	—
290438 2005 TT_{115}	17.6	X	290.52062	149.07531	248.18874	1.27366	0.2095450	0.25870340	2.4393154	20	8 19.8	19.8
290439 2005 TL_{116}	16.6	X	332.83211	61.16470	349.66735	5.62070	0.0627300	0.20310495	2.8663049	20	11 20.9	20.3
290440 2005 TO_{116}	17.7	X	63.43719	332.54433	326.86626	2.02295	0.2153414	0.27148838	2.3621196	20	12 5.6	21.3
290441 2005 TP_{116}	16.9	X	61.41796	157.53031	213.18787	4.21733	0.0872087	0.21294323	2.7773258	20	—	—
290442 2005 TF_{122}	16.3	X	97.67671	150.98407	130.29846	0.96596	0.1300719	0.20456396	2.8526597	20	11 27.6	20.5
290443 2005 TM_{125}	16.7	X	308.43969	72.43193	312.64991	0.78181	0.0909045	0.19206296	2.9751371	20	9 9.2	20.2
290444 2005 TX_{125}	16.4	X	348.36371	70.45535	201.39228	7.30826	0.0605750	0.17955449	3.1117536	20	6 12.2	20.5
290445 2005 TE_{132}	16.9	X	136.30843	293.52103	33.48738	2.53843	0.1515691	0.21896023	2.7262094	20	—	—
290446 2005 TK_{132}	16.8	X	10.54617	211.21094	187.14789	1.72848	0.0798349	0.20589905	2.8403148	20	—	—
290447 2005 TC_{133}	15.5	X	200.59918	237.38229	310.37111	9.91194	0.0212262	0.18801205	3.0177199	20	11 18.9	19.9
290448 2005 TW_{137}	16.3	X	247.86078	312.41315	101.64212	2.78062	0.1642988	0.18320308	3.0703004	20	7 15.5	20.9
290449 2005 TJ_{139}	17.6	X	301.45258	235.40220	98.37181	2.35083	0.1102902	0.25109729	2.4883304	20	6 20.6	20.2
290450 2005 TR_{145}	15.8	X	322.00276	198.65990	80.54334	6.08890	0.1162644	0.17796187	3.1302912	20	5 8.9	19.8
290451 2005 TW_{151}	16.1	X	177.71880	318.57134	196.00378	11.53876	0.0828072	0.19069135	2.9893864	20	9 9.9	20.7
290452 2005 TW_{152}	15.2	X	171.65065	162.24914	248.82870	9.00173	0.0873646	0.17253989	3.1955311	20	4 28.1	20.2
290453 2005 TZ_{155}	16.6	X	193.67967	314.64464	263.13733	3.02915	0.0453906	0.20903708	2.8118178	20	12 21.7	20.5
290454 2005 TT_{159}	16.7	X	30.27894	148.63003	263.03598	4.03898	0.0501210	0.21225425	2.7833327	20	—	—
290455 2005 TJ_{160}	16.4	X	22.68389	9.36465	6.91748	9.34044	0.1413804	0.20496996	2.8488914	20	12 30.8	20.3
290456 2005 TQ_{162}	15.8	X	305.15817	96.83297	226.89615	5.64207	0.0944695	0.18140839	3.0905170	20	6 12.9	19.8
290457 2005 TG_{164}	17.6	X	321.83155	185.76827	302.52872	1.60479	0.1512900	0.27785262	2.3259108	20	—	—
290458 2005 TH_{164}	16.4	X	169.38415	63.96858	240.52317	4.69241	0.0443942	0.21874014	2.7280379	20	—	—
290459 2005 TC_{167}	16.2	X	339.78778	358.16857	214.21127	11.59190	0.1355183	0.23241278	2.6199683	20	2 23.8	19.4
290460 2005 TD_{168}	16.8	X	355.31167	264.81314	255.29814	1.66188	0.0820992	0.22429094	2.6828408	20	1 20.9	20.1
290461 2005 TL_{168}	15.4	X	340.53539	238.10094	28.28861	19.73979	0.1487609	0.17812488	3.1283812	20	5 12.4	19.2
290462 2005 TR_{168}	16.0	X	184.95341	234.81010	211.88600	10.49492	0.0208318	0.17898143	3.1183921	20	6 26.7	20.6
290463 2005 TK_{169}	16.4	X	180.36233	242.38783	6.40132	3.70754	0.0524867	0.21027957	2.8007306	20	—	—
290464 2005 TS_{169}	16.4	X	48.95029	67.68019	303.41680	2.88513	0.1101426	0.21001301	2.8031000	20	—	—
290465 2005 TY_{169}	15.2	X	343.28681	86.24910	224.08964	12.09274	0.0440914	0.18514820	3.0487588	20	7 22.5	19.5
290466 2005 TH_{170}	16.0	X	206.81690	334.76649	96.62179	14.90218	0.0620158	0.23667831	2.5883942	20	7 4.2	19.6
290467 2005 TY_{172}	16.6	X	149.07873	346.07717	0.87188	4.50059	0.3004627	0.22510084	2.6764018	20	2 3.8	21.1
290468 2005 TL_{174}	16.0	X	263.66213	15.83112	209.23516	10.94884	0.0423519	0.22098527	2.7095291	20	—	—
290469 2005 TC_{181}	15.2	X	107.64799	22.68260	198.04633	8.20616	0.1210298	0.12575839	3.9455849	20	9 14.0	21.1
290470 2005 TH_{181}	15.9	X	341.86452	93.46264	135.33631	1.88387	0.0712524	0.16988632	3.2287204	20	4 7.9	20.1
290471 2005 TR_{181}	16.6	X	29.81503	71.57484	336.20637	3.65446	0.0662883	0.21034637	2.8001376	20	—	—
290472 2005 TW_{181}	16.6	X	144.61010	20.78762	241.44902	9.35239	0.1118222	0.27722382	2.3294266	20	—	—
290473 2005 TL_{186}	18.3	X	274.10416	222.76109	113.01347	1.37139	0.0425609	0.31189830	2.1534132	20	5 24.0	20.5
290474 2005 TN_{186}	17.2	X	176.56473	141.89210	130.45733	3.06562	0.0449674	0.21764871	2.7371504	20	—	—
290475 2005 TY_{188}	16.4	X	49.43802	307.10356	333.00310	3.95857	0.0827169	0.19296141	2.9658948	20	9 22.9	20.4
290476 2005 TD_{190}	16.3	X	228.80919	222.05714	180.60663	5.14027	0.1371339	0.18012941	3.1051289	20	6 14.1	21.1
290477 2005 TH_{190}	17.1	X	358.28793	152.69553	50.38680	7.00376	0.0998382	0.23082716	2.6319529	20	3 25.0	20.1
290478 2005 TG_{192}	14.7	X	278.13041	225.03176	98.00309	17.76736	0.2173754	0.17820916	3.1273948	20	4 27.7	19.6
290479 2005 TH_{192}	16.1	X	131.58874	335.26898	355.84661	7.66429	0.1184851	0.21799565	2.7342454	20	—	—
290480 2005 TB_{193}	17.2	X	301.38608	31.92056	107.95201	4.04578	0.1410265	0.21173559	2.7878761	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290481 2005 TF_{193}	16.7	X	273.39109	243.11116	189.64873	2.77601	0.0762021	0.19307468	2.9647347	20	9 22.8	20.6
290482 2005 TV_{193}	17.0	X	24.05964	358.73804	64.52761	1.40413	0.0558039	0.21264032	2.7799627	20	—	—
290483 2005 TR_{194}	16.3	X	279.74872	117.21588	220.85518	4.93421	0.1613980	0.17530721	3.1618131	20	5 18.1	20.8
290484 2005 TW_{195}	17.0	X	355.59649	286.65651	103.50276	3.24658	0.0862378	0.20184442	2.8782259	20	12 1.2	20.5
290485 2005 TU_{196}	15.7	X	218.56722	252.17237	146.15610	12.49739	0.1454055	0.17718183	3.1394719	20	5 31.3	20.9
290486 2005 UX_{1}	16.4	X	113.15367	327.67238	26.22264	2.76544	0.0748764	0.21672974	2.7448822	20	—	—
290487 2005 UH_{4}	16.0	X	76.27291	205.05519	208.49412	13.17542	0.1488905	0.21854874	2.7296304	20	1 11.9	19.6
290488 2005 UD_{6}	17.7	X	203.53089	121.34145	283.88491	2.30966	0.1498030	0.30952164	2.1644225	20	5 21.2	20.7
290489 2005 UW_{9}	15.8	X	15.80893	322.11284	42.62820	8.84915	0.0456040	0.20117925	2.8845667	20	11 21.2	19.6
290490 2005 UT_{10}	16.2	X	267.86828	221.12590	214.62566	8.59605	0.0761629	0.19180652	2.9777882	20	9 16.7	20.4
290491 2005 UC_{12}	16.3	X	0.43264	266.49786	87.52538	3.13603	0.1137143	0.19441891	2.9510532	20	10 24.3	19.8
290492 2005 UZ_{13}	16.5	X	167.80406	31.76555	189.82200	4.72673	0.0390604	0.20324751	2.8649644	20	11 26.9	20.7
290493 2005 UQ_{15}	17.4	X	214.88989	179.58907	137.33306	1.47341	0.0985819	0.22978514	2.6399037	20	2 15.3	21.3
290494 2005 UA_{16}	17.1	X	13.12686	348.94688	71.77275	2.41233	0.0671221	0.20875685	2.8143335	20	—	—
290495 2005 UW_{17}	16.3	X	52.21832	335.61800	28.73538	14.22521	0.0847884	0.20856394	2.8160686	20	—	—
290496 2005 UE_{19}	16.6	X	117.58597	288.64111	86.05558	5.24619	0.1345747	0.22258687	2.6965161	20	1 19.5	20.3
290497 2005 UQ_{20}	15.9	X	214.75702	58.73351	29.29771	26.58557	0.2394641	0.18013577	3.1050558	20	7 26.8	21.6
290498 2005 UA_{21}	15.3	X	339.72357	51.14725	223.86098	13.59130	0.1220322	0.17859713	3.1228640	20	5 30.5	19.2
290499 2005 UO_{21}	16.4	X	5.19097	90.95391	1.54266	4.27826	0.0322921	0.21357373	2.7718571	20	—	—
290500 2005 UA_{22}	15.2	X	191.95906	168.77647	222.38030	15.07063	0.0240915	0.17011913	3.2257741	20	4 26.8	19.9
290501 2005 UC_{23}	15.8	X	67.15435	121.90442	27.04782	12.33759	0.0343838	0.16768830	3.2568734	20	4 22.5	20.2
290502 2005 UZ_{24}	16.1	X	320.46915	62.53581	230.08565	7.43352	0.1013638	0.17738458	3.1370791	20	5 24.9	20.0
290503 2005 UM_{26}	17.0	X	343.35429	114.42634	262.68046	1.55665	0.1626861	0.19772677	2.9180478	20	10 28.3	19.9
290504 2005 US_{28}	15.5	X	179.95563	68.09746	39.41103	10.09763	0.0862856	0.17890960	3.1192268	20	7 19.1	20.5
290505 2005 UW_{28}	17.7	X	297.74546	36.42089	220.67140	5.38344	0.0975661	0.30048535	2.2076007	20	2 21.6	20.3
290506 2005 UE_{29}	17.6	X	232.28212	120.83573	222.10099	4.57648	0.1764906	0.30550817	2.1833373	20	3 25.3	20.9
290507 2005 UO_{29}	15.9	X	248.46211	325.95377	56.55620	3.54440	0.2102479	0.17847614	3.1242752	20	6 1.3	20.7
290508 2005 UB_{32}	17.4	X	313.92908	65.42056	42.62451	1.79229	0.1451186	0.27177825	2.3604397	20	—	—
290509 2005 UD_{33}	17.8	X	299.43160	150.35373	171.30015	0.55816	0.1294581	0.24670523	2.5177763	20	5 27.4	20.8
290510 2005 UQ_{33}	18.3	X	341.07622	93.76467	14.23695	2.50798	0.1444171	0.27624356	2.3349340	20	—	—
290511 2005 UT_{33}	15.5	X	210.97675	22.09155	47.23886	12.77623	0.1136896	0.17715191	3.1398253	20	6 30.4	20.5
290512 2005 UV_{33}	17.1	X	244.58273	83.56355	53.59661	2.87773	0.0484931	0.19699761	2.9252439	20	11 10.8	21.1
290513 2005 UY_{35}	16.1	X	112.03341	128.27882	57.38359	2.40103	0.1259657	0.18024291	3.1038252	20	8 15.7	20.8
290514 2005 UG_{37}	16.6	X	215.68880	295.84963	23.46090	5.54074	0.1138337	0.22842927	2.6503398	20	2 20.9	20.8
290515 2005 UO_{37}	16.4	X	37.84927	225.94489	218.11268	5.36101	0.0247401	0.21530583	2.7569710	20	—	—
290516 2005 UU_{37}	16.9	X	104.70255	243.47328	118.46976	1.39592	0.0854753	0.21396806	2.7684504	20	—	—
290517 2005 UW_{37}	18.1	X	177.34178	273.89200	121.50935	0.83662	0.0936331	0.30125018	2.2038626	20	4 10.5	21.2
290518 2005 UJ_{38}	16.7	X	243.72014	225.49941	58.66547	10.84015	0.1333997	0.22662226	2.6644097	20	2 6.4	21.0
290519 2005 UJ_{39}	17.1	X	236.35611	317.67126	137.52101	0.55163	0.1497599	0.18574959	3.0421746	20	8 25.4	21.7
290520 2005 UW_{41}	17.3	X	55.77204	238.37314	167.20508	3.00547	0.1636537	0.28134150	2.3066420	20	—	—
290521 2005 UC_{42}	17.7	X	17.78296	25.31969	49.05324	1.60525	0.1837702	0.27978761	2.3151745	20	—	—
290522 2005 US_{42}	15.5	X	275.35388	323.74737	40.85010	16.89088	0.1072183	0.18110153	3.0940071	20	6 21.6	20.0
290523 2005 UB_{44}	16.2	X	345.97513	232.49917	194.26727	5.79429	0.0645371	0.20411676	2.8568248	20	12 31.5	19.9
290524 2005 UH_{44}	15.8	X	12.45416	51.86260	208.28161	9.13918	0.0700620	0.17870600	3.1215955	20	7 1.8	19.9
290525 2005 UK_{44}	16.4	X	344.59955	59.15664	195.55191	6.03347	0.0584619	0.24020624	2.5629877	20	5 14.3	19.4
290526 2005 UD_{45}	16.6	X	36.80185	333.12418	141.67115	3.34239	0.0642832	0.22192906	2.7018419	20	1 25.3	19.8
290527 2005 UE_{45}	16.5	X	237.90451	47.95157	177.39633	4.76890	0.0617508	0.21396910	2.7684414	20	—	—
290528 2005 UB_{48}	16.7	X	85.11545	324.84790	58.68418	3.44855	0.1894820	0.21661969	2.7458117	20	—	—
290529 2005 UK_{51}	16.1	X	97.23512	25.21668	18.15739	13.70165	0.1662993	0.22172859	2.7034702	20	2 9.2	19.9
290530 2005 UX_{51}	15.4	X	9.92883	37.39943	254.85530	8.42054	0.0405359	0.18561157	3.0436825	20	8 6.3	19.6
290531 2005 UN_{54}	15.8	X	276.42652	294.18094	38.48763	13.57654	0.2030393	0.17847275	3.1243147	20	4 30.9	20.5
290532 2005 UA_{58}	15.9	X	7.46561	61.28134	223.58211	9.43426	0.2319397	0.18521958	3.0479754	20	8 6.7	19.2
290533 2005 UQ_{59}	17.1	X	328.92815	353.79722	85.48819	3.19255	0.0351378	0.20447394	2.8534969	20	12 22.8	20.8
290534 2005 UL_{61}	16.9	X	98.88536	287.17194	100.64764	6.34851	0.1121174	0.28548118	2.2842891	20	—	—
290535 2005 UK_{65}	16.2	X	78.24446	269.40357	80.71426	9.05780	0.1217369	0.21293288	2.7774158	20	—	—
290536 2005 UF_{67}	16.2	X	143.70146	298.16826	72.13730	14.52188	0.1543531	0.22580520	2.6708332	20	2 18.9	20.5
290537 2005 UB_{69}	15.8	X	278.35802	24.62464	233.22921	13.05275	0.1201059	0.23095427	2.6309871	20	2 2.1	19.9
290538 2005 UX_{69}	17.2	X	49.46804	123.76661	277.95847	7.94150	0.1325562	0.28129577	2.3068919	20	—	—
290539 2005 UR_{71}	16.0	X	26.07637	232.30186	244.78441	12.65779	0.1572720	0.22040479	2.7142845	20	1 8.7	19.0
290540 2005 UY_{71}	15.3	X	192.82317	181.84558	256.75625	10.21225	0.0546963	0.17841631	3.1249735	20	6 25.2	19.9
290541 2005 UL_{72}	15.4	X	320.34504	56.68501	268.24993	11.26881	0.1031772	0.18382236	3.0634008	20	7 5.9	19.2
290542 2005 UM_{77}	16.6	X	39.06895	244.39151	212.16599	7.40775	0.2016827	0.21604238	2.7507012	20	1 9.2	19.3
290543 2005 UY_{78}	16.6	X	350.25057	342.72406	71.49552	4.96888	0.2249107	0.26956466	2.3733443	20	—	—
290544 2005 UO_{82}	16.5	X	192.24856	231.06693	213.51846	2.27420	0.1250639	0.17753358	3.1353237	20	6 29.8	21.6
290545 2005 UZ_{82}	17.7	X	15.49701	42.99816	43.78478	2.76152	0.2079248	0.27977541	2.3152418	20	—	—
290546 2005 UW_{85}	16.8	X	64.05067	183.78465	188.13493	3.62084	0.1068891	0.21080036	2.7961158	20	—	—
290547 2005 UE_{89}	15.7	X	282.42901	324.71389	247.22413	12.66406	0.1421424	0.21975356	2.7196443	20	—	—
290548 2005 UM_{92}	17.6	X	50.60291	107.07299	292.35996	3.57333	0.1189001	0.27923444	2.3182311	20	—	—
290549 2005 UX_{92}	15.8	X	108.47961	259.76052	352.34475	4.67616	0.0348329	0.19494413	2.9457504	20	10 23.7	20.1
290550 2005 UD_{94}	16.3	X	349.01061	313.15037	301.86682	3.67052	0.0818443	0.17377031	3.1804287	20	5 19.9	20.4
290551 2005 UE_{96}	17.0	X	42.87870	316.99603	182.79036	4.04693	0.0651982	0.22743609	2.6580499	20	3 6.3	20.2
290552 2005 UV_{96}	15.7	X	309.76170	240.93840	95.12015	3.46700	0.0466116	0.18069738	3.0986188	20	7 11.9	19.7
290553 2005 UK_{97}	16.3	X	323.47661	233.49335	187.17428	6.13658	0.0339478	0.19869599	2.9085507	20	11 21.8	20.2
290554 2005 UG_{101}	16.5	X	70.18042	203.78127	177.60483	5.62314	0.1086957	0.21241995	2.7818851	20	—	—
290555 2005 UY_{103}	18.0	X	183.86766	290.56932	120.76778	1.84635	0.0980431	0.30541247	2.1837934	20	5 10.3	21.0
290556 2005 UG_{106}	16.3	X	13.67737	112.88750	208.44383	8.46251	0.1227737	0.19102450	2.9859097	20	9 29.8	19.9
290557 2005 UQ_{106}	15.7	X	80.99672	107.00010	69.90397	7.95947	0.0790459	0.17265953	3.1940547	20	6 21.8	20.1
290558 2005 UE_{107}	15.3	X	131.46118	32.82140	64.87713	9.60178	0.0576392	0.16777753	3.2557185	20	5 12.3	20.0
290559 2005 UV_{108}	15.4	X	324.87742	247.23218	69.08426	11.54118	0.1154104	0.18471320	3.0535434	20	7 1.1	19.1
290560 2005 UK_{109}	16.4	X	135.57199	357.41335	15.75290	5.21844	0.0084849	0.22059418	2.7127307	20	1 23.4	20.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290561 2005 UK_{110}	17.6	X	359.67593	215.22382	260.01824	3.60588	0.1628392	0.27901614	2.3194401	20	—	—
290562 2005 UN_{110}	16.2	X	165.73174	179.45272	288.12320	2.97662	0.0203828	0.17478709	3.1680825	20	6 30.7	20.6
290563 2005 UJ_{111}	16.5	X	157.31325	107.50251	252.73861	5.35858	0.0848943	0.22351553	2.6890420	20	2 6.7	20.5
290564 2005 UX_{111}	17.6	X	39.59111	320.63675	322.27198	1.37132	0.0669177	0.32198570	2.1081993	20	10 2.9	19.7
290565 2005 UT_{112}	16.4	X	334.60092	156.90064	294.57575	2.16928	0.0711050	0.20423250	2.8557453	20	—	—
290566 2005 UH_{115}	18.0	X	138.46274	88.15902	355.48131	1.99691	0.1281086	0.30318369	2.1944827	20	5 3.7	20.8
290567 2005 UM_{116}	16.5	X	136.45840	289.55757	74.56738	7.37220	0.0531800	0.22145330	2.7057102	20	1 18.4	20.3
290568 2005 UA_{117}	17.6	X	114.97019	108.75869	225.44715	9.60127	0.1244539	0.34920436	1.9971757	20	—	—
290569 2005 UK_{119}	16.7	X	220.54836	262.57954	273.18557	0.99691	0.0106786	0.20267074	2.8703973	20	12 5.2	20.7
290570 2005 UW_{119}	16.7	X	51.45602	59.02607	284.89768	0.98677	0.0729069	0.20367627	2.8609423	20	12 15.9	20.7
290571 2005 UO_{123}	16.0	X	274.01307	190.03368	34.50961	5.57584	0.1002152	0.22077668	2.7112355	20	—	—
290572 2005 UP_{124}	17.5	X	253.75961	9.49773	312.26469	1.37530	0.0546394	0.23585942	2.5943818	20	4 6.5	21.1
290573 2005 UG_{127}	16.4	X	11.49801	270.55070	41.37658	2.75524	0.1507679	0.19001644	2.9964607	20	9 19.2	19.7
290574 2005 UN_{128}	17.5	X	116.74545	323.62125	230.55039	6.91798	0.0308753	0.25206446	2.4819611	20	8 25.6	21.0
290575 2005 UO_{128}	16.9	X	266.11011	53.18719	231.59796	3.44217	0.2269302	0.23429522	2.6059161	20	2 14.6	21.1
290576 2005 UP_{136}	16.6	X	280.14340	156.21383	27.56625	1.74811	0.1628954	0.21530514	2.7569769	20	—	—
290577 2005 UB_{137}	17.5	X	182.03667	144.92871	204.66670	2.16151	0.1025015	0.23023467	2.6364664	20	2 21.2	21.4
290578 2005 UP_{138}	16.3	X	325.70863	191.81631	218.09826	9.91406	0.1013094	0.19672376	2.9279579	20	11 9.6	19.7
290579 2005 UF_{148}	16.1	X	300.95063	48.21916	0.49199	2.17555	0.0515653	0.19244930	2.9711540	20	10 3.0	20.0
290580 2005 UY_{149}	17.2	X	250.93669	287.66680	29.30885	2.75827	0.1119127	0.23774419	2.5806520	20	3 22.9	20.8
290581 2005 UZ_{152}	17.5	X	227.09095	146.74608	27.07693	2.44599	0.1268869	0.26629957	2.3927045	20	12 9.3	20.4
290582 2005 UA_{153}	16.3	X	192.97697	271.94961	38.05813	3.81885	0.0854833	0.22188442	2.7022042	20	1 17.3	20.4
290583 2005 UK_{153}	16.4	X	200.52404	34.65420	236.61955	8.02892	0.2347803	0.21744447	2.7388641	20	—	—
290584 2005 UW_{153}	17.2	X	270.35954	9.90242	238.54543	4.35989	0.1202946	0.29140715	2.2532147	20	1 8.2	20.4
290585 2005 UL_{155}	17.1	X	246.61431	210.16180	116.70570	6.49698	0.2881171	0.24247252	2.5469927	20	3 18.7	21.5
290586 2005 UU_{155}	15.4	X	39.17846	232.99516	105.64168	9.28897	0.2179677	0.20081681	2.8880365	20	12 14.9	19.5
290587 2005 UC_{156}	15.5	X	79.53768	244.70233	85.50811	14.42435	0.2719684	0.20963186	2.8064966	20	—	—
290588 2005 US_{157}	15.4	X	190.10699	244.18132	238.49168	9.10943	0.0610387	0.18901841	3.0069992	20	8 13.7	20.0
290589 2005 UU_{157}	16.5	X	124.55379	181.55861	194.49724	5.43041	0.0532829	0.22293880	2.6936776	20	1 16.5	20.2
290590 2005 UE_{163}	18.0	X	174.91474	345.20518	293.10908	1.66481	0.2236803	0.28509303	2.2863619	20	—	—
290591 2005 UC_{165}	17.2	X	11.98021	206.42926	225.67343	3.21643	0.0848837	0.21043198	2.7993781	20	—	—
290592 2005 UC_{167}	17.2	X	61.76770	279.33964	217.11836	5.84857	0.1748022	0.22928278	2.6437584	20	4 14.8	20.1
290593 2005 UC_{172}	17.1	X	42.80582	242.12977	177.08092	0.93530	0.1214555	0.21249864	2.7811982	20	—	—
290594 2005 UK_{172}	17.7	X	267.29842	301.79748	227.54702	1.71291	0.1329933	0.27341389	2.3510164	20	—	—
290595 2005 UD_{177}	17.4	X	249.45454	21.23217	325.81821	1.37310	0.1055329	0.23994445	2.5648516	20	4 28.4	21.1
290596 2005 UW_{177}	16.7	X	74.74895	95.76943	275.50348	2.66071	0.0907822	0.21086698	2.7955268	20	—	—
290597 2005 UC_{179}	16.0	X	310.70381	261.46369	76.43966	6.04301	0.1541036	0.18204858	3.0832673	20	7 2.3	19.7
290598 2005 UK_{179}	17.5	X	41.45706	100.20064	70.09908	6.37625	0.0910001	0.29870593	2.2163592	20	4 15.3	19.5
290599 2005 UP_{181}	16.2	X	260.70109	294.19932	81.40520	4.57158	0.0575098	0.17689384	3.1428784	20	6 25.7	20.6
290600 2005 UR_{191}	16.6	X	102.76626	317.09812	30.00910	3.88876	0.1007295	0.21211666	2.7845362	20	—	—
290601 2005 UL_{193}	16.8	X	97.25418	331.65322	58.21285	2.92243	0.0860515	0.22108819	2.7086882	20	1 5.4	20.2
290602 2005 UT_{194}	17.0	X	298.47416	77.91352	61.45270	12.73380	0.0860491	0.27486942	2.3427094	20	—	—
290603 2005 UC_{195}	17.4	X	180.87124	294.69469	93.96323	2.52371	0.0822872	0.23365007	2.6107109	20	4 9.9	21.3
290604 2005 UB_{197}	15.3	X	24.88706	25.16139	227.83570	18.53073	0.1341467	0.17788464	3.1311972	20	7 13.6	19.5
290605 2005 UY_{198}	16.3	X	214.06259	60.89882	82.90567	1.84988	0.1885768	0.19132918	2.9827390	20	9 28.8	20.9
290606 2005 UP_{199}	16.6	X	271.43201	208.71187	64.29057	3.36509	0.0463797	0.22954411	2.6417514	20	2 29.3	20.3
290607 2005 UX_{201}	16.3	X	268.95070	33.16815	64.27265	4.11202	0.1967735	0.19262821	2.9693140	20	10 2.6	20.2
290608 2005 UJ_{205}	16.5	X	188.31277	99.99032	82.64067	3.21768	0.1210117	0.19312246	2.9642457	20	10 26.4	21.2
290609 2005 UW_{206}	16.9	X	52.28140	192.09159	178.27408	4.44136	0.0831000	0.21018956	2.8015301	20	—	—
290610 2005 UE_{211}	16.9	X	176.03171	263.35765	118.85887	1.17416	0.1745261	0.23267324	2.6180128	20	3 30.0	21.2
290611 2005 US_{215}	16.0	X	141.77590	312.09685	52.75145	7.15941	0.0380490	0.22302659	2.6929707	20	1 24.4	19.8
290612 2005 UV_{216}	15.4	X	144.61370	25.74597	57.12183	8.26955	0.0281493	0.17031723	3.2232723	20	5 6.2	20.0
290613 2005 UB_{218}	16.3	X	169.21554	150.35790	300.92421	11.92761	0.2109987	0.23133973	2.6280638	20	6 18.5	20.9
290614 2005 UH_{220}	15.9	X	169.90468	70.90875	16.40884	9.32744	0.0510504	0.17462833	3.1700024	20	6 9.3	20.8
290615 2005 UJ_{222}	16.4	X	288.77264	74.86102	267.11139	3.64610	0.1176704	0.18031194	3.1030329	20	6 10.0	20.4
290616 2005 UO_{222}	16.7	X	170.18147	33.05304	254.26367	4.69418	0.0386540	0.21432231	2.7653989	20	—	—
290617 2005 UK_{223}	15.4	X	341.10436	222.48857	26.01405	13.34229	0.2176826	0.17433384	3.1735712	20	4 17.1	18.8
290618 2005 UB_{226}	16.4	X	19.36408	325.89638	49.00130	2.59648	0.0816571	0.20175323	2.8790932	20	12 14.2	20.2
290619 2005 UP_{226}	16.9	X	304.95038	50.80393	57.87491	2.91530	0.0172855	0.20410975	2.8568902	20	12 27.9	20.6
290620 2005 UB_{228}	15.7	X	147.75088	39.91760	68.29366	5.62954	0.1243804	0.17125110	3.2115435	20	6 15.6	20.7
290621 2005 UW_{229}	17.1	X	6.89360	357.66437	187.00069	2.83999	0.1594630	0.22767389	2.6561987	20	3 7.5	19.7
290622 2005 UC_{230}	17.0	X	40.94500	203.81216	85.35172	3.27689	0.2070352	0.26046464	2.4283067	20	10 26.9	20.1
290623 2005 US_{232}	16.1	X	172.60643	65.19007	223.06279	11.08864	0.0894658	0.21428931	2.7656829	20	—	—
290624 2005 UE_{234}	17.8	X	123.22520	228.68171	179.27377	4.22776	0.1357935	0.29389970	2.2404570	20	2 27.7	20.6
290625 2005 US_{234}	16.9	X	195.38086	235.56020	101.41204	3.90189	0.1240714	0.22858144	2.6491634	20	2 21.8	21.0
290626 2005 UD_{239}	17.0	X	171.28433	221.79381	140.42650	4.71517	0.0935924	0.22765128	2.6563746	20	2 26.9	20.9
290627 2005 UL_{240}	16.9	X	153.69996	173.57077	121.04074	5.27859	0.0436831	0.21107096	2.7937254	20	—	—
290628 2005 UB_{241}	16.9	X	85.37707	267.22001	124.93540	4.27048	0.2045368	0.21703992	2.7422664	20	1 9.4	20.1
290629 2005 UY_{241}	16.8	X	309.81941	343.85795	311.72955	3.51697	0.2118930	0.24219394	2.5489454	20	4 20.7	19.9
290630 2005 UK_{242}	17.5	X	37.44891	121.12452	297.96304	3.25782	0.1600605	0.27826705	2.3236009	20	—	—
290631 2005 UO_{243}	15.7	X	151.08727	274.25626	275.79040	6.75771	0.1114439	0.18638564	3.0352497	20	9 24.1	20.6
290632 2005 UA_{246}	15.6	X	216.47519	113.97588	254.56123	6.27059	0.1702981	0.17187531	3.2037630	20	4 17.9	20.9
290633 2005 UM_{246}	18.2	X	294.75018	103.01353	178.37359	3.84261	0.1163672	0.30404523	2.1903352	20	3 22.1	20.4
290634 2005 UH_{249}	17.0	X	207.56492	164.62171	93.86631	1.85410	0.0246280	0.21385914	2.7693903	20	—	—
290635 2005 UQ_{250}	16.1	X	306.91684	34.79369	331.10525	12.23445	0.1115257	0.18852377	3.0122566	20	8 11.1	19.8
290636 2005 UW_{250}	16.0	X	281.66916	35.67622	337.17526	10.14969	0.1424306	0.18474307	3.0532142	20	7 9.1	20.3
290637 2005 UH_{251}	15.5	X	279.38510	68.18548	290.91158	8.75635	0.0972590	0.18091881	3.0960899	20	6 23.1	19.7
290638 2005 UJ_{252}	15.3	X	153.52423	99.62316	347.47267	14.52557	0.1483001	0.17175571	3.2052501	20	5 23.9	20.7
290639 2005 UB_{257}	16.0	X	345.54243	238.64741	51.75436	7.87953	0.1470704	0.18226234	3.0808562	20	6 29.8	19.6
290640 2005 UY_{258}	16.4	X	337.32153	225.62223	61.32511	6.04492	0.1160594	0.17912338	3.1167445	20	6 11.4	20.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290641 2005 UZ_{259}	16.9	X	351.01615	255.04133	158.92212	2.34983	0.0595466	0.20355953	2.8620359	20	12 22.4	20.6
290642 2005 UG_{263}	17.1	X	113.01548	297.24117	86.82679	2.70815	0.0816236	0.22185122	2.7024739	20	1 17.9	20.7
290643 2005 UJ_{264}	16.7	X	208.82453	206.44657	54.80860	6.16172	0.0984987	0.21795633	2.7345743	20	—	—
290644 2005 UZ_{266}	15.9	X	319.53521	243.98868	64.67121	11.52874	0.1034235	0.17760014	3.1345402	20	6 12.5	19.8
290645 2005 UH_{269}	17.0	X	355.99833	15.02594	76.89041	1.63360	0.0347071	0.21291661	2.7775573	20	—	—
290646 2005 UZ_{275}	16.7	X	80.74734	13.87299	28.78204	6.90084	0.0216552	0.21839733	2.7308919	20	—	—
290647 2005 UY_{277}	16.6	X	1.22655	285.59449	25.71779	1.86240	0.1021404	0.18774928	3.0205349	20	8 26.7	20.3
290648 2005 UQ_{279}	16.8	X	108.98703	323.48882	48.66845	3.00383	0.0553690	0.21816318	2.7328455	20	—	—
290649 2005 UV_{279}	16.9	X	7.15277	198.25188	186.88359	0.92846	0.1623891	0.20186993	2.8779835	20	12 21.0	20.3
290650 2005 UF_{280}	16.3	X	22.43482	263.55104	217.90684	9.31826	0.0312155	0.22113659	2.7082930	20	1 11.8	20.1
290651 2005 UB_{284}	15.7	X	286.12626	169.26918	165.10950	4.50827	0.0901291	0.17846184	3.1244421	20	6 1.5	20.0
290652 2005 UM_{284}	16.8	X	78.93237	296.28832	63.97118	6.29974	0.0945428	0.21153452	2.7896425	20	—	—
290653 2005 UG_{286}	16.6	X	251.33902	119.03424	192.31284	9.93073	0.1658184	0.23722426	2.5844213	20	3 9.0	20.7
290654 2005 UQ_{286}	17.4	X	73.62780	188.14085	104.00102	3.23623	0.2023260	0.26903341	2.3764676	20	12 5.2	21.1
290655 2005 UN_{287}	17.3	X	153.70747	22.73301	98.49679	4.38174	0.1228260	0.24465179	2.5318450	20	7 10.5	20.9
290656 2005 UA_{293}	17.9	X	313.64640	164.39536	305.32689	1.99382	0.1595712	0.27096322	2.3651707	20	—	—
290657 2005 UZ_{293}	16.4	X	236.70000	65.99005	20.14778	5.67308	0.1572017	0.18486772	3.0518416	20	8 15.7	21.1
290658 2005 UV_{294}	16.8	X	163.59458	74.90385	289.69868	1.93372	0.0999100	0.22687118	2.6624605	20	2 21.0	20.6
290659 2005 UJ_{295}	16.8	X	118.31168	210.82962	313.84573	2.53655	0.1039880	0.24446272	2.5331503	20	7 28.3	20.5
290660 2005 UY_{297}	15.4	X	357.56224	206.07571	56.75146	10.13874	0.0398671	0.17414486	3.1758668	20	6 12.8	19.6
290661 2005 UD_{299}	16.9	X	188.09564	333.66936	147.51858	0.53462	0.1222284	0.18147478	3.0897632	20	8 10.2	21.6
290662 2005 UB_{300}	16.6	X	118.63971	196.52201	61.86650	0.91080	0.0657428	0.19713102	2.9239239	20	11 15.9	21.0
290663 2005 UV_{300}	16.2	X	289.59737	264.85699	122.57089	5.74898	0.1815086	0.18570361	3.0426768	20	7 31.9	19.9
290664 2005 UM_{305}	17.6	X	5.30564	209.35627	246.69764	3.52729	0.0987595	0.28018421	2.3129892	20	—	—
290665 2005 UO_{308}	17.6	X	217.36696	89.18857	34.40270	1.73826	0.1400032	0.25453840	2.4658529	20	9 18.9	20.9
290666 2005 UY_{310}	16.8	X	356.00692	68.25210	47.45734	5.68716	0.1235604	0.21569396	2.7536626	20	—	—
290667 2005 UN_{312}	16.5	X	237.59141	252.21847	135.39985	1.94568	0.1791062	0.17835008	3.1257472	20	5 31.6	21.3
290668 2005 UQ_{312}	17.5	X	350.26130	128.14657	287.73243	0.50367	0.1659971	0.27056074	2.3675157	20	—	—
290669 2005 UV_{314}	16.1	X	118.24045	300.61253	64.28208	9.71908	0.1991878	0.22108857	2.7086851	20	1 17.9	20.0
290670 2005 UN_{317}	16.2	X	346.90830	30.62427	271.76746	1.57305	0.1702769	0.18917104	3.0053815	20	7 19.4	19.4
290671 2005 UX_{320}	16.5	X	149.52348	161.12901	196.71891	5.71073	0.0421334	0.22193117	2.7018248	20	1 22.3	20.3
290672 2005 UR_{321}	15.4	X	359.37083	43.98820	256.71732	9.64553	0.0291680	0.18103825	3.0947281	20	8 1.6	19.7
290673 2005 UU_{325}	17.3	X	131.43246	228.05640	191.57839	5.82971	0.0476407	0.23242997	2.6198392	20	3 18.8	20.9
290674 2005 UV_{337}	16.5	X	2.58352	87.79587	173.29019	0.79454	0.1373466	0.17959277	3.1113115	20	6 20.6	19.9
290675 2005 UL_{338}	16.9	X	29.90506	195.17246	179.36789	1.91073	0.0814659	0.20495132	2.8490642	20	12 28.4	20.6
290676 2005 UO_{338}	16.9	X	115.17089	85.72764	309.98345	4.50226	0.0792501	0.22344685	2.6895930	20	2 3.2	20.4
290677 2005 UV_{341}	17.4	X	248.97089	244.07091	287.38347	5.34336	0.1568404	0.27086060	2.3657680	20	—	—
290678 2005 UT_{342}	16.5	X	69.96408	266.63471	90.00136	5.41792	0.1289668	0.20830936	2.8183625	20	—	—
290679 2005 UY_{342}	16.0	X	89.26813	196.01085	240.27809	8.83168	0.2499358	0.22217049	2.6998842	20	3 14.4	19.7
290680 2005 UV_{347}	15.6	X	299.62846	92.99611	212.25235	15.10516	0.2257010	0.17777166	3.1325237	20	4 22.0	19.6
290681 2005 UM_{350}	16.3	X	323.46761	137.43511	186.57565	15.41672	0.2254564	0.18702835	3.0282921	20	6 25.6	19.9
290682 2005 UK_{351}	16.2	X	64.63119	80.11237	12.63406	13.22836	0.0988290	0.22408767	2.6844630	20	2 16.0	19.6
290683 2005 UZ_{351}	15.1	X	106.77608	275.27129	254.81486	9.62117	0.0575563	0.17860560	3.1227652	20	7 10.9	19.6
290684 2005 US_{354}	15.4	X	238.81216	41.62889	16.32843	9.22368	0.0686666	0.18046271	3.1013044	20	7 24.5	20.0
290685 2005 UT_{354}	15.6	X	236.89483	351.21642	58.26914	18.56637	0.1917092	0.17784264	3.1316901	20	6 23.7	20.7
290686 2005 UW_{354}	15.3	X	213.38889	48.16454	14.18496	11.59454	0.0662769	0.17738532	3.1370704	20	6 28.3	20.2
290687 2005 UY_{360}	16.0	X	226.72579	69.88549	38.14304	9.14332	0.1537804	0.18835456	3.0140605	20	9 4.3	20.7
290688 2005 UX_{361}	17.0	X	4.65492	20.52772	78.03630	1.77407	0.0376769	0.21460608	2.7629607	20	—	—
290689 2005 UY_{363}	16.1	X	160.31638	99.79066	210.78584	10.67952	0.0489019	0.21608291	2.7503572	20	—	—
290690 2005 UK_{365}	17.2	X	355.42849	70.10376	116.58920	3.29199	0.0135585	0.22815166	2.6524892	20	3 2.3	20.5
290691 2005 UX_{367}	16.1	X	285.65102	110.67392	67.08238	5.49613	0.0154065	0.21258270	2.7804650	20	—	—
290692 2005 UN_{368}	16.2	X	14.21137	249.62022	75.65443	6.45809	0.0755175	0.19074603	2.9888151	20	10 5.3	20.1
290693 2005 UW_{370}	16.4	X	188.54246	199.30706	76.46913	6.49698	0.0284975	0.21352209	2.7723040	20	—	—
290694 2005 UC_{371}	17.3	X	99.00644	76.06633	36.15959	2.67904	0.0173919	0.23223898	2.6212753	20	4 11.8	20.5
290695 2005 UO_{371}	18.1	X	146.94833	151.51882	249.30764	2.04824	0.0869379	0.29630900	2.2282957	20	3 11.3	21.1
290696 2005 UA_{373}	16.6	X	188.46844	25.81043	289.73708	2.28209	0.0793201	0.22069115	2.7119360	20	1 18.4	20.6
290697 2005 UJ_{373}	16.5	X	336.96297	173.01603	256.08037	3.42742	0.1107062	0.20077902	2.8883988	20	12 23.8	19.9
290698 2005 UH_{374}	16.9	X	351.91747	147.72792	268.89596	1.03856	0.1257797	0.20186691	2.8780121	20	—	—
290699 2005 UK_{379}	16.3	X	306.99335	103.23808	191.42029	5.15212	0.1477878	0.17685758	3.1433079	20	5 1.7	20.3
290700 2005 UR_{382}	17.5	X	130.10814	308.67078	118.16277	5.90022	0.1955102	0.29969692	2.2114707	20	4 12.4	20.6
290701 2005 UF_{385}	16.9	X	101.34285	155.70142	285.08229	4.77955	0.0254645	0.22848314	2.6499231	20	3 3.4	20.4
290702 2005 UP_{387}	16.3	X	348.55088	15.11489	299.21119	2.37590	0.1079127	0.18302485	3.0722933	20	8 7.9	20.0
290703 2005 UU_{389}	18.0	X	26.10834	39.12880	194.60475	5.09809	0.1140495	0.31329972	2.1469868	20	6 28.4	19.9
290704 2005 UA_{392}	18.1	X	296.81730	115.30881	164.36421	3.45981	0.1637924	0.30754299	2.1736961	20	3 14.8	20.5
290705 2005 UB_{392}	16.9	X	265.57502	6.04790	125.87382	2.95740	0.0161835	0.20299885	2.8673035	20	12 6.7	20.9
290706 2005 UK_{393}	15.2	X	254.75014	295.92868	89.30771	11.22120	0.0511485	0.17990176	3.1077478	20	7 1.6	19.5
290707 2005 UH_{402}	15.6	X	10.57684	13.17103	238.83648	10.83502	0.2038794	0.17722831	3.1389230	20	6 25.9	19.0
290708 2005 UY_{403}	17.4	X	62.04796	220.48936	200.05591	6.55017	0.0895336	0.28388834	2.2928255	20	—	—
290709 2005 UM_{407}	17.2	X	21.96622	217.72253	141.42013	2.62139	0.0772329	0.20174583	2.8791635	20	11 28.1	20.9
290710 2005 UP_{412}	16.5	X	45.92646	136.11195	220.68511	5.71580	0.1108594	0.20198533	2.8768872	20	12 29.4	20.5
290711 2005 UP_{413}	17.0	X	124.33021	142.45115	202.41731	5.74576	0.0270999	0.21609145	2.7502847	20	—	—
290712 2005 UC_{414}	15.2	X	208.17418	218.07760	55.79504	11.04133	0.0488610	0.15057842	3.4991366	20	—	—
290713 2005 UM_{414}	16.1	X	236.06179	298.10255	210.77899	10.52657	0.0450800	0.19871566	2.9083588	20	11 16.3	20.2
290714 2005 UN_{414}	17.5	X	288.07954	60.14639	74.04180	3.83771	0.1768592	0.27055058	2.3675749	20	—	—
290715 2005 UO_{417}	16.3	X	272.93442	293.77918	111.41487	3.67325	0.0813811	0.18663172	3.0325810	20	8 16.9	20.5
290716 2005 UL_{422}	17.6	X	52.84029	66.72936	37.65618	3.18425	0.1423030	0.28876466	2.2669400	20	1 29.2	19.4
290717 2005 UA_{424}	18.3	X	194.90877	153.47119	216.74457	3.74474	0.1477634	0.30311663	2.1948063	20	3 26.1	21.5
290718 2005 UJ_{427}	15.3	X	345.84676	33.41749	254.27636	8.04880	0.0547427	0.17731165	3.1379393	20	6 28.7	19.5
290719 2005 UL_{427}	15.8	X	161.03539	322.55453	38.68275	12.70824	0.0982482	0.22517060	2.6758489	20	2 21.2	20.0
290720 2005 UR_{429}	18.2	X	163.47476	10.06008	298.20040	1.14738	0.0544328	0.28291751	2.2980678	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290721 2005 UE_{430}	17.7	X	17.20167	80.84983	275.43643	2.38752	0.1413839	0.26608391	2.3939972	20	12 13.6	20.5
290722 2005 UQ_{430}	15.7	X	269.96604	78.82079	255.17250	4.40990	0.2014617	0.17546656	3.1598985	20	4 24.9	20.4
290723 2005 UZ_{437}	16.2	X	22.15714	255.93595	220.39466	7.34155	0.1505058	0.21930926	2.7233162	20	1 2.2	19.1
290724 2005 UC_{443}	15.8	X	185.99526	301.62608	249.49161	10.54916	0.0480571	0.19944789	2.9012362	20	11 7.1	20.0
290725 2005 UG_{443}	15.3	X	181.07405	31.24758	27.31166	22.58009	0.1129489	0.17113814	3.2129565	20	5 12.6	20.5
290726 2005 UM_{443}	15.8	X	337.79119	245.18795	248.54315	8.17431	0.1418699	0.21477909	2.7614767	20	—	—
290727 2005 UO_{443}	17.0	X	145.91418	59.38086	358.17434	8.79429	0.2118661	0.23267875	2.6179714	20	4 14.8	21.3
290728 2005 UY_{443}	17.1	X	35.51536	93.62541	328.27046	5.78092	0.1571290	0.27914593	2.3187211	20	—	—
290729 2005 US_{444}	17.0	X	148.37409	329.85289	41.79187	8.09927	0.2001700	0.29284224	2.2458474	20	2 20.9	20.4
290730 2005 UL_{445}	15.7	X	59.82727	211.23886	71.36726	12.08005	0.0835785	0.19133138	2.9827161	20	10 16.1	20.0
290731 2005 UV_{446}	15.4	X	355.95338	74.25909	256.50755	10.58154	0.0328453	0.18975316	2.9992319	20	9 3.8	19.7
290732 2005 UH_{447}	16.8	X	90.05562	84.80272	269.33449	6.52423	0.1331728	0.27977660	2.3152352	20	—	—
290733 2005 UJ_{447}	15.2	X	288.09646	75.62739	246.81724	14.09181	0.1657881	0.17717563	3.1395451	20	5 6.7	19.6
290734 2005 UN_{448}	16.8	X	54.06639	228.87458	285.22442	6.61967	0.0739142	0.29995007	2.2102263	20	4 2.9	19.1
290735 2005 UG_{453}	15.9	X	240.89769	100.48784	269.83334	3.79832	0.1583271	0.17654840	3.1469767	20	5 14.7	20.8
290736 2005 UM_{456}	15.9	X	240.29103	310.22799	95.13015	7.46577	0.0898883	0.18149098	3.0895793	20	7 4.8	20.4
290737 2005 UH_{457}	15.4	X	263.58682	292.72158	90.76327	10.05928	0.1319138	0.18156279	3.0887646	20	6 28.9	19.9
290738 2005 UM_{457}	15.1	X	254.10567	253.20456	88.45034	16.78625	0.2731835	0.17752929	3.1353742	20	4 20.6	20.5
290739 2005 UD_{462}	16.2	X	315.19716	326.80302	100.35464	3.13710	0.0668445	0.19962482	2.8995217	20	11 17.6	19.7
290740 2005 UZ_{465}	17.0	X	101.88173	252.73608	75.33055	6.72703	0.0308939	0.20965054	2.8063299	20	—	—
290741 2005 UZ_{466}	16.6	X	148.02908	32.49583	311.78516	4.57113	0.0826402	0.22002567	2.7174015	20	1 10.6	20.5
290742 2005 UF_{470}	14.6	X	86.76853	340.54325	271.83163	7.24938	0.1712250	0.12385329	3.9859425	20	10 2.7	20.6
290743 2005 UK_{470}	17.1	X	259.70089	205.51241	326.40606	3.17724	0.0498225	0.27432910	2.3457846	20	—	—
290744 2005 UU_{470}	16.7	X	23.82451	71.90666	25.43496	7.53295	0.1922879	0.21418517	2.7665793	20	—	—
290745 2005 UV_{472}	16.7	X	279.01408	11.35076	273.17304	4.53740	0.2750912	0.23444467	2.6048085	20	2 20.9	21.0
290746 2005 UB_{473}	16.8	X	150.16174	274.79591	27.16749	4.67865	0.0512545	0.20978226	2.8051550	20	—	—
290747 2005 UP_{479}	14.9	X	84.09619	140.80791	115.76886	4.65600	0.1364493	0.12315480	4.0009993	20	10 6.2	20.7
290748 2005 UY_{479}	16.3	X	42.32614	30.00143	76.62447	30.67681	0.2294356	0.28599374	2.2815590	20	1 7.8	18.1
290749 2005 UO_{485}	15.7	X	287.34363	257.12250	65.94749	12.51340	0.2159574	0.17920014	3.1158544	20	5 3.0	20.1
290750 2005 UC_{487}	15.5	X	191.89292	156.39204	280.15749	10.81653	0.0715017	0.18027197	3.1034917	20	6 21.7	20.1
290751 2005 UC_{488}	15.6	X	244.55118	48.82413	291.27133	13.00068	0.1539943	0.17491726	3.1665106	20	4 6.3	20.8
290752 2005 UV_{492}	16.3	X	263.55392	31.66232	280.14644	11.04929	0.1180108	0.23943482	2.5684898	20	3 22.6	20.2
290753 2005 UY_{493}	15.4	X	266.89665	91.40390	274.57494	9.88997	0.1037256	0.17851185	3.1238585	20	6 14.7	19.8
290754 2005 UH_{494}	17.1	X	345.75601	347.01072	116.21101	3.55721	0.1577454	0.27592028	2.3367575	20	—	—
290755 2005 US_{494}	15.5	X	270.06403	212.19664	174.60232	10.92915	0.1540760	0.18258243	3.0772544	20	7 7.1	20.1
290756 2005 UA_{498}	15.9	X	253.82631	284.77689	87.85572	6.31744	0.1702013	0.17899107	3.1182802	20	5 30.7	20.7
290757 2005 UE_{500}	16.0	X	252.24563	214.22013	166.76376	12.30847	0.1755161	0.17936792	3.1139111	20	6 8.6	21.0
290758 2005 UH_{502}	15.9	X	210.76634	41.13236	264.93115	12.59859	0.2552174	0.22908608	2.6452715	20	1 25.2	20.7
290759 2005 UR_{505}	17.1	X	159.73853	29.20280	334.23133	6.45603	0.1315910	0.27638525	2.3341359	20	2 13.9	20.3
290760 2005 UC_{509}	17.4	X	207.58688	264.74172	62.46430	7.70756	0.1280375	0.29520979	2.2338236	20	2 17.0	20.8
290761 2005 UW_{510}	18.1	X	294.56195	71.83221	227.22240	4.44122	0.2060992	0.30945531	2.1647317	20	3 30.7	20.8
290762 2005 US_{511}	17.7	X	350.57486	125.68151	321.37079	1.71905	0.1407492	0.27424860	2.3462436	20	—	—
290763 2005 UP_{512}	17.3	X	13.53386	44.82622	278.70929	3.03532	0.0951870	0.25700182	2.4500705	20	10 12.3	20.1
290764 2005 UL_{513}	16.6	X	341.98429	288.43586	213.16354	1.67538	0.0433335	0.21343349	2.7730711	20	—	—
290765 2005 UB_{514}	17.1	X	107.79555	25.83173	12.93961	6.02546	0.0612565	0.22306517	2.6926601	20	1 28.3	20.7
290766 2005 UH_{514}	17.1	X	103.10125	31.43834	155.47353	2.43004	0.1570694	0.25403071	2.4691373	20	8 15.5	20.7
290767 2005 UJ_{514}	16.9	X	189.19696	154.64090	143.88788	2.70159	0.0699513	0.22510523	2.6763670	20	—	—
290768 2005 UR_{515}	15.8	X	319.96994	102.73623	173.32417	16.04251	0.0530248	0.17333045	3.1858070	20	5 11.3	20.3
290769 2005 UQ_{517}	16.0	X	241.67497	209.60511	166.32946	10.56280	0.0835119	0.17759814	3.1345638	20	6 1.6	20.8
290770 2005 UG_{523}	16.2	X	303.79777	97.73888	187.67567	8.54152	0.1621720	0.17934723	3.1141505	20	4 12.9	20.2
290771 2005 UY_{526}	17.0	X	356.72206	20.27180	98.17164	1.87962	0.0272376	0.21288683	2.7778163	20	—	—
290772 2005 VC	17.6	X	223.60279	290.20779	227.97362	4.48313	0.5947025	0.32792439	2.0826689	20	9 29.7	21.4
290773 2005 VL_{3}	15.8	X	168.50291	59.12139	238.68065	7.97497	0.0859527	0.21807903	2.7335485	20	—	—
290774 2005 VM_{4}	17.4	X	156.52911	194.59838	231.90121	2.21659	0.2275161	0.23514453	2.5996375	20	5 8.0	21.8
290775 2005 VT_{11}	17.2	X	88.67883	3.96684	55.79819	6.75684	0.1906215	0.28980677	2.2615023	20	2 7.7	19.5
290776 2005 VV_{14}	16.2	X	104.11774	91.24301	92.48256	6.55549	0.0845871	0.17746104	3.1361780	20	7 30.9	20.7
290777 2005 VX_{26}	16.1	X	98.48599	349.48159	230.82785	9.95624	0.0614901	0.18805287	3.0172831	20	9 1.2	20.6
290778 2005 VP_{28}	16.5	X	110.99021	135.63867	246.08147	4.51984	0.0436658	0.22082502	2.7108399	20	1 6.2	20.1
290779 2005 VB_{32}	15.8	X	232.07556	336.20856	66.46098	6.73230	0.2220466	0.17629163	3.1500317	20	6 9.5	21.1
290780 2005 VR_{33}	15.6	X	237.76419	154.69444	224.30290	14.58438	0.1413994	0.17421314	3.1750369	20	5 24.8	20.5
290781 2005 VC_{38}	17.3	X	275.34936	302.77851	186.45139	4.02343	0.1765630	0.26530023	2.3987094	20	12 16.5	19.6
290782 2005 VU_{39}	15.1	X	216.80358	166.84562	236.57941	9.74767	0.0107749	0.17680710	3.1439063	20	6 12.4	19.5
290783 2005 VW_{39}	15.5	X	69.24694	24.55785	240.43714	7.66057	0.0487238	0.19144387	2.9815476	20	9 21.8	19.8
290784 2005 VU_{40}	16.7	X	278.06857	80.20005	142.22876	3.34778	0.0753596	0.21792735	2.7348167	20	1 1.3	20.7
290785 2005 VD_{43}	15.8	X	165.01825	288.57803	228.46563	9.21767	0.0711222	0.18650053	3.0340029	20	8 28.5	20.6
290786 2005 VA_{44}	16.3	X	263.51769	359.27227	66.13743	3.38572	0.1336720	0.19177076	2.9781584	20	8 24.2	20.4
290787 2005 VH_{46}	16.6	X	63.27458	271.24514	164.87210	4.99549	0.0838171	0.21733407	2.7397915	20	1 16.1	20.0
290788 2005 VR_{50}	15.5	X	179.69973	309.28487	176.02679	11.93805	0.2634275	0.18023606	3.1039038	20	8 2.5	21.1
290789 2005 VU_{50}	15.6	X	205.04404	347.23390	85.91698	10.28925	0.0842092	0.17885527	3.1198585	20	6 30.8	20.2
290790 2005 VE_{61}	16.1	X	238.25304	280.74043	120.71241	5.63584	0.1390008	0.17937758	3.1137992	20	6 22.1	20.8
290791 2005 VT_{62}	17.7	X	319.61705	46.41807	264.55054	1.56004	0.1942043	0.25402249	2.4691906	20	6 5.5	20.0
290792 2005 VA_{67}	16.3	X	281.43651	30.68636	67.90108	5.84799	0.0797363	0.19763061	2.9189943	20	11 7.7	19.9
290793 2005 VV_{69}	16.9	X	88.00739	335.68073	125.80648	3.49160	0.0725767	0.22698405	2.6615778	20	3 23.8	20.3
290794 2005 VX_{70}	16.8	X	114.52772	167.08342	188.09986	3.32812	0.1066930	0.21448357	2.7640126	20	—	—
290795 2005 VC_{72}	17.5	X	287.81067	290.52895	191.47806	2.16766	0.1679273	0.26648136	2.3916163	20	—	—
290796 2005 VP_{74}	17.1	X	205.40388	173.28502	215.70612	7.59674	0.0929832	0.30399950	2.1905549	20	5 3.8	19.9
290797 2005 VO_{75}	17.3	X	13.92681	24.86553	29.21204	2.76021	0.2189985	0.27261789	2.3555906	20	—	—
290798 2005 VR_{78}	15.5	X	209.60777	339.77740	87.18018	12.21088	0.1151522	0.17787588	3.1313000	20	6 25.8	20.4
290799 2005 VP_{79}	15.4	X	248.56817	32.74402	18.30729	16.62438	0.2788283	0.18083227	3.0970776	20	6 30.4	20.7
290800 2005 VE_{83}	16.4	X	146.20647	174.84694	189.74933	5.92532	0.0547516	0.22184036	2.7025620	20	1 28.2	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290801 2005 VN_{87}	18.1	X	38.96863	276.86780	183.18636	1.69442	0.1623354	0.28520238	2.2857775	20	—	—
290802 2005 VA_{89}	17.1	X	146.53150	292.84385	105.93912	4.30334	0.1994311	0.22911462	2.6450518	20	3 27.2	21.3
290803 2005 VB_{89}	17.2	X	287.79343	218.27479	97.92376	5.09452	0.1810935	0.31070660	2.1589159	20	4 23.4	19.7
290804 2005 VM_{90}	15.9	X	294.84933	341.91376	35.88884	10.91496	0.1185299	0.18362021	3.0656488	20	8 10.1	20.0
290805 2005 VR_{93}	15.8	X	116.76696	11.27078	192.25640	7.03168	0.1036761	0.18253594	3.0777769	20	9 7.5	20.6
290806 2005 VX_{93}	16.9	X	226.27761	10.81077	146.86115	3.86699	0.1314317	0.26208817	2.4182680	20	11 16.7	20.1
290807 2005 VY_{93}	15.6	X	142.66056	256.71985	219.76900	16.51840	0.1406867	0.17027879	3.2237574	20	6 20.5	20.9
290808 2005 VZ_{93}	16.5	X	76.71748	285.50200	105.17574	5.29716	0.1126657	0.21369570	2.7708022	20	—	—
290809 2005 VG_{96}	15.8	X	299.94572	126.23097	233.23714	9.46630	0.1161738	0.18410392	3.0602767	20	7 17.3	19.9
290810 2005 VW_{98}	15.9	X	150.80190	42.64943	306.86151	14.16468	0.0269691	0.22218610	2.6997577	20	1 14.4	19.6
290811 2005 VR_{101}	17.4	X	78.79259	85.85595	94.13586	5.30386	0.0301351	0.30806754	2.1712280	20	6 19.3	19.8
290812 2005 VN_{102}	15.9	X	346.80605	225.21520	190.31876	10.10290	0.0839928	0.20237944	2.8731510	20	12 20.1	19.6
290813 2005 VR_{102}	15.8	X	111.41518	354.29615	4.47129	13.15763	0.2003418	0.21811350	2.7332605	20	1 3.4	19.8
290814 2005 VA_{107}	17.2	X	132.93161	72.58427	222.60284	6.24229	0.1246617	0.27810077	2.3245270	20	—	—
290815 2005 VR_{109}	17.2	X	10.50941	224.64995	214.93297	5.15429	0.0822611	0.27815754	2.3242107	20	—	—
290816 2005 VL_{111}	17.3	X	334.11054	276.50068	272.16728	4.66839	0.0940766	0.28791005	2.2714238	20	1 13.3	19.7
290817 2005 VE_{112}	17.0	X	184.12677	46.12434	347.00582	2.27693	0.1438262	0.23355197	2.6114418	20	4 17.9	21.2
290818 2005 VK_{114}	17.5	X	356.32390	266.01367	241.62193	2.40863	0.1042378	0.28417629	2.2912765	20	—	—
290819 2005 VP_{115}	16.1	X	126.79657	23.76211	295.61259	3.29431	0.0610706	0.21062591	2.7976594	20	—	—
290820 2005 VY_{116}	15.3	X	235.03567	23.80075	22.90323	23.36859	0.1981510	0.17799991	3.1298453	20	6 16.1	20.7
290821 2005 VA_{124}	15.6	X	288.00500	273.35104	86.56896	12.77543	0.2171306	0.18034693	3.1026317	20	6 17.1	19.8
290822 2005 VA_{126}	17.3	X	57.40337	256.83333	201.24780	4.07407	0.1319922	0.22658958	2.6646659	20	2 7.5	20.3
290823 2005 VY_{127}	17.4	X	123.09594	159.42964	72.08173	3.50349	0.1361369	0.26731965	2.3866137	20	11 2.7	21.0
290824 2005 VU_{128}	16.9	X	45.04223	309.74019	67.04824	5.24885	0.0821319	0.21048065	2.7989465	20	—	—
290825 2005 VC_{129}	17.2	X	338.61939	22.62237	94.79321	3.26172	0.0529655	0.21554999	2.7548886	20	—	—
290826 2005 VF_{129}	16.9	X	156.61196	196.03064	109.75784	3.96941	0.0531187	0.21884484	2.7271676	20	—	—
290827 2005 VU_{131}	16.2	X	83.62866	67.72158	166.76251	11.18712	0.0498471	0.18964704	3.0003506	20	9 3.9	20.4
290828 2005 VX_{132}	16.5	X	213.64944	252.72060	145.86924	10.13441	0.0900860	0.17524179	3.1626000	20	5 29.8	21.5
290829 2005 VH_{133}	16.5	X	198.37290	358.34489	148.19720	11.06128	0.0549384	0.19158250	2.9801091	20	9 29.5	20.9
290830 2005 VC_{135}	15.9	X	99.01801	330.45648	281.04371	8.33020	0.0382433	0.18945338	3.0023948	20	10 8.5	20.3
290831 2005 VZ_{135}	16.0	X	109.36300	206.84886	103.57917	7.40664	0.0530335	0.20334698	2.8640300	20	—	—
290832 2005 WJ_{1}	14.9	X	247.03419	45.12603	313.11743	25.84624	0.2663372	0.17490224	3.1666919	20	4 13.1	20.7
290833 2005 WH_{2}	16.2	X	186.11516	264.88590	84.31061	14.91435	0.1427184	0.22758198	2.6569138	20	3 4.8	20.7
290834 2005 WW_{5}	15.7	X	173.89111	249.28430	89.97844	13.78843	0.2758656	0.22631045	2.6668565	20	2 13.6	20.6
290835 2005 WY_{7}	15.2	X	252.38381	304.35959	68.73463	17.54630	0.2384609	0.17643103	3.1483722	20	5 22.9	20.1
290836 2005 WT_{11}	17.7	X	288.28523	68.35087	81.08567	2.19952	0.1325513	0.27214908	2.3582950	20	—	—
290837 2005 WO_{14}	16.7	X	107.32275	276.14260	62.88232	10.31554	0.2672969	0.21340230	2.7733413	20	—	—
290838 2005 WD_{17}	16.3	X	325.74206	132.00335	240.40596	2.19742	0.1222194	0.18830117	3.0146301	20	9 16.5	19.9
290839 2005 WR_{17}	17.2	X	271.66018	102.27721	232.83548	3.85996	0.1041625	0.30799549	2.1715666	20	5 8.5	19.8
290840 2005 WF_{19}	17.2	X	33.31273	256.46313	131.61778	7.73029	0.2836327	0.27364216	2.3497088	20	—	—
290841 2005 WL_{24}	17.5	X	47.81524	94.16985	28.50977	4.56072	0.0761411	0.22211904	2.7003011	20	2 24.2	20.7
290842 2005 WJ_{25}	16.7	X	300.46526	253.04103	44.16177	4.92936	0.1047980	0.23753154	2.5821920	20	4 28.7	19.9
290843 2005 WX_{27}	15.6	X	347.54267	287.64776	62.69622	8.41172	0.1102290	0.18858861	3.0115662	20	9 29.9	19.3
290844 2005 WR_{29}	15.9	X	326.84524	62.07012	285.74563	4.29450	0.0745421	0.18324834	3.0697948	20	8 17.8	19.9
290845 2005 WJ_{30}	16.4	X	346.43532	10.25828	353.70336	2.14415	0.1147426	0.19074793	2.9887952	20	10 11.9	19.9
290846 2005 WD_{31}	16.4	X	162.85673	5.59910	294.21821	3.33659	0.0463774	0.21003589	2.8028964	20	—	—
290847 2005 WE_{31}	18.5	X	236.29981	40.90707	340.85627	1.67041	0.1629661	0.30950560	2.1644973	20	5 22.8	21.3
290848 2005 WM_{32}	16.3	X	55.43686	278.73093	259.66574	11.60520	0.1493611	0.23058191	2.6338188	20	5 30.3	19.5
290849 2005 WP_{32}	16.5	X	233.99589	169.35576	41.71681	2.56499	0.0100306	0.20584711	2.8407927	20	—	—
290850 2005 WB_{33}	15.0	X	174.29631	270.44654	257.91255	12.88018	0.1625362	0.18399664	3.0614661	20	9 16.2	20.3
290851 2005 WE_{33}	16.3	X	189.96942	338.71773	49.53075	6.07724	0.1706645	0.23491856	2.6013043	20	4 19.2	20.6
290852 2005 WZ_{33}	16.4	X	273.81352	163.71101	308.97327	2.17659	0.1294000	0.19304599	2.9650285	20	11 5.3	20.3
290853 2005 WP_{35}	16.9	X	282.55053	340.64463	244.21156	6.21883	0.0657734	0.28529380	2.2852892	20	—	—
290854 2005 WS_{37}	16.8	X	91.61747	346.66247	88.15138	3.31996	0.0963227	0.22096831	2.7096678	20	2 27.1	20.3
290855 2005 WE_{41}	16.0	X	271.37452	326.20462	24.39641	0.63363	0.1722879	0.17673902	3.1447135	20	5 21.8	20.4
290856 2005 WB_{42}	16.6	X	162.55630	103.95317	50.44532	2.66160	0.0990026	0.18270516	3.0758762	20	8 27.5	21.4
290857 2005 WM_{43}	16.2	X	210.72616	37.23054	258.30881	7.97130	0.0895401	0.21908736	2.7251548	20	1 16.1	20.4
290858 2005 WW_{44}	16.3	X	331.40071	7.00089	60.17849	9.04028	0.0340249	0.19913465	2.9042778	20	12 8.9	20.1
290859 2005 WG_{45}	16.5	X	204.28604	31.82871	254.84429	2.77454	0.0668412	0.21679423	2.7443378	20	—	—
290860 2005 WM_{47}	16.5	X	60.22576	358.28221	60.30899	3.30623	0.0628178	0.21327933	2.7744072	20	—	—
290861 2005 WD_{49}	16.3	X	138.46182	307.81966	66.32084	7.51222	0.1992917	0.22232118	2.6986641	20	2 20.7	20.6
290862 2005 WL_{49}	16.7	X	90.69988	19.22261	310.56479	1.31424	0.0561868	0.20249588	2.8720495	20	—	—
290863 2005 WW_{51}	17.0	X	46.17664	99.51585	238.86992	1.11637	0.0696332	0.19818970	2.9135021	20	12 1.1	20.9
290864 2005 WK_{52}	17.7	X	195.66186	108.18213	247.34612	2.82827	0.0605085	0.29572670	2.2312198	20	3 6.1	20.6
290865 2005 WH_{53}	16.6	X	170.77881	292.87280	62.14716	6.90018	0.0575155	0.22266924	2.6958511	20	2 18.2	20.6
290866 2005 WL_{55}	16.3	X	87.92425	263.37994	43.67650	3.45977	0.0538773	0.20252721	2.8717533	20	12 10.6	20.4
290867 2005 WT_{55}	17.2	X	107.46036	235.91600	262.76652	4.17625	0.0508003	0.30427386	2.1892379	20	6 2.7	19.6
290868 2005 WA_{56}	17.2	X	122.72633	130.18375	232.07370	1.41860	0.1801288	0.21739282	2.7392978	20	1 16.1	21.1
290869 2005 WH_{56}	17.3	X	24.21744	146.62032	290.15213	5.05214	0.2647146	0.27781332	2.3261301	20	—	—
290870 2005 WE_{57}	17.3	X	345.71661	337.30585	52.28923	0.55940	0.1492103	0.19722650	2.9229802	20	11 18.1	20.3
290871 2005 WJ_{57}	14.2	X	298.74659	160.80810	290.53098	4.10782	0.1590431	0.12540194	3.9530583	20	10 26.2	19.4
290872 2005 WQ_{57}	15.8	X	175.21411	98.50355	36.46173	17.19384	0.0624069	0.18337827	3.0683446	20	8 24.9	20.7
290873 2005 WA_{58}	17.4	X	293.27908	182.66212	252.78570	0.55256	0.1605997	0.26085014	2.4259136	20	11 1.2	19.5
290874 2005 WQ_{58}	15.4	X	184.85208	249.81857	284.86121	8.15167	0.0260236	0.18391353	3.0623884	20	10 12.8	20.0
290875 2005 WC_{60}	16.1	X	305.01085	192.76937	215.30559	9.32286	0.0687327	0.19030853	2.9933940	20	10 4.7	20.0
290876 2005 WH_{60}	16.0	X	57.11729	258.74203	171.44959	14.94329	0.0353446	0.21617146	2.7496061	20	—	—
290877 2005 WN_{66}	15.9	X	138.71344	79.03245	81.21825	2.29114	0.1253420	0.17786442	3.1314345	20	8 10.8	20.7
290878 2005 WK_{68}	16.4	X	148.69993	335.09156	171.45993	0.83855	0.0998140	0.17764355	3.1340295	20	8 1.9	21.2
290879 2005 WH_{69}	16.9	X	338.75869	177.29524	76.10550	4.39348	0.0157075	0.23581954	2.5946743	20	5 6.7	20.2
290880 2005 WZ_{71}	16.2	X	64.61972	303.52767	85.76765	4.71923	0.1016083	0.20992592	2.8038752	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290881 2005 WW_{72}	15.4	X	311.73673	13.53094	62.82752	12.76861	0.0311660	0.19548134	2.9403510	20	11 24.0	19.3
290882 2005 WG_{73}	15.2	X	285.80495	270.30710	87.03529	11.93489	0.1669614	0.17922913	3.1155184	20	6 18.5	19.5
290883 2005 WH_{73}	17.1	X	25.47909	10.17395	48.80775	3.09722	0.1924088	0.27483256	2.3429190	20	—	—
290884 2005 WK_{75}	17.9	X	118.86930	176.83562	343.50211	2.12117	0.0345509	0.31261344	2.1501279	20	7 20.7	20.2
290885 2005 WN_{75}	16.7	X	112.36465	67.44042	284.00922	3.96403	0.0904592	0.21429233	2.7656569	20	—	—
290886 2005 WD_{76}	16.4	X	23.60160	3.41849	36.75652	2.26879	0.0531556	0.20327993	2.8646597	20	—	—
290887 2005 WA_{78}	15.7	X	302.33671	244.63272	72.22795	15.47782	0.0335489	0.17112962	3.2130632	20	6 7.5	20.2
290888 2005 WG_{80}	16.3	X	131.54670	276.19051	67.28313	2.93387	0.0960953	0.21334762	2.7738151	20	—	—
290889 2005 WA_{82}	16.1	X	330.39020	90.99983	283.55884	3.58625	0.2030463	0.18989204	2.9977693	20	9 24.3	19.2
290890 2005 WY_{82}	16.4	X	100.92742	293.54080	66.31527	7.56085	0.0833476	0.21316885	2.7753657	20	—	—
290891 2005 WD_{84}	16.2	X	337.02053	312.15214	251.29375	8.31156	0.1054278	0.22438641	2.6820798	20	2 13.1	19.6
290892 2005 WL_{85}	16.6	X	257.84986	224.40796	176.46822	1.94548	0.1820113	0.18327726	3.0694719	20	7 7.4	21.2
290893 2005 WC_{86}	16.4	X	339.34907	280.41885	78.73774	4.04348	0.2494593	0.19163122	2.9796039	20	9 27.8	19.0
290894 2005 WC_{87}	17.4	X	315.13038	55.25578	75.82043	3.06182	0.1355985	0.26946610	2.3739230	20	—	—
290895 2005 WQ_{87}	16.7	X	260.72564	197.66788	230.88534	0.12935	0.2148027	0.18228065	3.0806499	20	8 10.5	21.0
290896 2005 WV_{87}	15.5	X	239.64807	121.31888	270.69654	12.45715	0.3002787	0.17439502	3.1728290	20	5 27.9	21.0
290897 2005 WQ_{94}	16.7	X	216.21883	285.15823	88.67936	4.93219	0.1994566	0.23691339	2.5866816	20	4 24.3	20.9
290898 2005 WR_{96}	17.8	X	266.91365	91.43401	111.78185	3.41708	0.1800190	0.27420545	2.3464897	20	—	—
290899 2005 WZ_{96}	16.5	X	284.17307	267.08239	243.40587	1.09174	0.0118860	0.20257938	2.8712602	20	—	—
290900 2005 WN_{97}	17.6	X	9.56634	33.00924	60.33595	3.62379	0.1240765	0.27727908	2.3291171	20	—	—
290901 2005 WV_{97}	15.9	X	339.07836	349.77306	69.67668	3.06784	0.1205740	0.19603611	2.9348011	20	12 13.8	19.3
290902 2005 WL_{98}	16.3	X	181.16522	279.89978	151.06378	1.94826	0.1736209	0.17315362	3.1879757	20	6 2.8	21.5
290903 2005 WA_{99}	16.2	X	68.12563	192.08817	82.78109	5.39662	0.0319377	0.18699054	3.0287002	20	10 5.9	20.5
290904 2005 WU_{99}	15.4	X	344.88341	131.16339	73.50192	16.51734	0.0931305	0.15705593	3.4022521	20	3 21.3	20.1
290905 2005 WJ_{100}	15.7	X	305.75160	112.10809	235.53463	9.72253	0.1260564	0.18112406	3.0937505	20	7 9.4	19.8
290906 2005 WA_{101}	17.0	X	203.22520	159.80608	219.64615	2.18201	0.1991077	0.23587292	2.5942828	20	4 18.1	21.4
290907 2005 WW_{101}	17.2	X	13.51768	208.36650	234.51137	4.70360	0.1397789	0.27622438	2.3350421	20	—	—
290908 2005 WY_{102}	16.9	X	12.69281	284.58996	105.12986	8.54874	0.2134261	0.27003915	2.3705633	20	—	—
290909 2005 WE_{104}	17.4	X	16.26479	341.92598	119.30922	3.00806	0.1666494	0.27922538	2.3182812	20	—	—
290910 2005 WV_{104}	15.2	X	148.51397	178.31004	214.68049	7.89854	0.1662787	0.15831419	3.3842010	20	3 20.1	20.7
290911 2005 WT_{105}	15.9	X	157.18918	190.38660	170.27466	13.94486	0.0476243	0.22215083	2.7000435	20	2 3.8	19.8
290912 2005 WB_{107}	17.2	X	99.82234	259.55912	173.99287	1.64688	0.0428402	0.22526962	2.6750647	20	2 26.1	20.7
290913 2005 WR_{109}	15.9	X	141.35757	61.87883	74.47003	5.67225	0.0888393	0.17318280	3.1876175	20	7 12.4	20.7
290914 2005 WY_{113}	16.8	X	191.43782	21.64307	309.47600	4.41280	0.0611736	0.22278584	2.6949104	20	2 8.3	20.8
290915 2005 WB_{114}	15.0	X	303.80425	213.09833	44.26291	6.29217	0.0683482	0.16753044	3.2589190	20	3 24.9	19.5
290916 2005 WN_{114}	16.9	X	188.64617	23.68730	359.04141	3.53868	0.2166655	0.23375915	2.6098986	20	4 9.6	21.4
290917 2005 WV_{114}	15.9	X	173.35961	223.59474	96.68019	7.09723	0.0315127	0.21185257	2.7868498	20	1 6.1	19.8
290918 2005 WQ_{117}	17.6	X	198.74531	17.55664	45.07518	7.09532	0.1097119	0.30892073	2.1672284	20	6 10.7	20.5
290919 2005 WZ_{117}	17.4	X	335.18364	72.06867	17.78321	3.87322	0.1732249	0.27043475	2.3682509	20	—	—
290920 2005 WQ_{118}	15.5	X	239.80696	153.79088	311.49124	8.96061	0.0451191	0.18919863	3.0050893	20	9 20.9	19.8
290921 2005 WU_{118}	17.6	X	2.23106	233.08205	278.41812	2.03993	0.1368407	0.28482389	2.2878020	20	—	—
290922 2005 WQ_{119}	17.2	X	143.80693	301.06352	109.34221	3.23783	0.2031917	0.22888964	2.6467848	20	4 7.7	21.5
290923 2005 WU_{123}	17.2	X	185.13714	121.72562	204.17647	1.70007	0.0867086	0.22625564	2.6672872	20	1 26.6	21.2
290924 2005 WX_{123}	17.7	X	324.36792	274.19144	216.96902	2.51116	0.1297098	0.27870888	2.3211445	20	—	—
290925 2005 WV_{125}	17.0	X	206.01532	82.98221	23.08716	0.39130	0.1403912	0.18210231	3.0826609	20	8 8.4	21.9
290926 2005 WT_{127}	16.9	X	1.72766	353.04055	236.39810	2.62292	0.1190273	0.23525943	2.5987910	20	5 3.4	19.4
290927 2005 WO_{130}	17.1	X	192.37257	186.89292	69.35734	6.63235	0.1142344	0.27631163	2.3345505	20	—	—
290928 2005 WC_{131}	16.0	X	340.01943	213.52939	64.32844	2.26183	0.1770999	0.17402799	3.1772885	20	5 30.2	19.6
290929 2005 WG_{131}	16.7	X	100.62727	114.59098	260.59923	1.98884	0.1061725	0.21465442	2.7625458	20	—	—
290930 2005 WZ_{135}	17.1	X	87.87347	28.80645	62.61966	3.71940	0.0706717	0.22397127	2.6853929	20	3 10.9	20.6
290931 2005 WG_{136}	17.3	X	342.06933	78.58912	73.75574	3.84232	0.1454892	0.28032430	2.3122186	20	—	—
290932 2005 WC_{139}	16.1	X	85.37721	288.21786	272.25932	0.95063	0.0556761	0.17499593	3.1655615	20	7 24.3	20.5
290933 2005 WK_{140}	15.6	X	239.32075	5.11817	95.09613	4.78519	0.0176391	0.18200399	3.0837710	20	9 23.5	19.9
290934 2005 WM_{140}	14.4	X	323.59538	334.21705	96.33278	8.33906	0.2403761	0.12584699	3.9437330	20	11 8.4	18.7
290935 2005 WT_{140}	16.1	X	167.27494	192.88520	280.25238	14.35477	0.0512825	0.23794157	2.5792246	20	7 12.2	19.6
290936 2005 WQ_{143}	17.5	X	232.80670	79.30645	85.84229	1.93650	0.1407619	0.26254016	2.4154917	20	12 2.6	20.5
290937 2005 WV_{145}	17.0	X	185.21033	41.28904	331.38362	1.47269	0.1057737	0.22983605	2.6395139	20	3 24.4	20.9
290938 2005 WK_{146}	16.6	X	274.12975	180.90162	50.46384	4.10923	0.1334047	0.21687530	2.7436538	20	1 2.0	20.6
290939 2005 WN_{149}	17.5	X	153.61540	17.92295	44.73510	4.86588	0.1137477	0.29937455	2.2130580	20	4 22.3	20.3
290940 2005 WS_{149}	15.4	X	75.09999	351.47952	268.66190	14.31889	0.2094388	0.18549273	3.0449824	20	10 10.1	20.3
290941 2005 WN_{150}	15.2	X	221.07530	141.90162	261.21970	10.28408	0.0661778	0.17524493	3.1625622	20	6 12.2	19.8
290942 2005 WA_{153}	16.1	X	91.82246	262.50517	63.29072	10.85155	0.0303787	0.20229562	2.8739447	20	—	—
290943 2005 WN_{154}	15.3	X	297.34432	197.21260	125.01332	10.43730	0.0811656	0.17517035	3.1634598	20	6 3.5	19.7
290944 2005 WF_{156}	16.1	X	250.26792	227.84390	203.09982	10.51859	0.2119463	0.18278851	3.0749410	20	7 30.3	20.9
290945 2005 WH_{156}	16.2	X	186.39324	140.17236	215.65757	12.14070	0.1880125	0.22871079	2.6481644	20	3 3.3	20.8
290946 2005 WE_{158}	16.3	X	158.88498	132.80232	278.08928	12.23919	0.1981181	0.22810676	2.6528373	20	4 14.7	20.9
290947 2005 WX_{159}	16.0	X	153.02512	2.09107	163.02971	1.12159	0.1140428	0.18001264	3.1064715	20	8 29.7	20.7
290948 2005 WD_{163}	17.3	X	44.40026	211.65258	224.41493	3.41533	0.1519871	0.28798450	2.2710323	20	—	—
290949 2005 WZ_{168}	15.6	X	84.42211	350.24122	243.08594	7.66157	0.0324838	0.18134836	3.0911990	20	8 27.6	20.2
290950 2005 WY_{169}	17.7	X	289.18131	69.03958	96.27332	2.99527	0.1303858	0.27315514	2.3525009	20	—	—
290951 2005 WV_{171}	17.2	X	256.25550	95.81031	84.73095	2.37080	0.1212158	0.27222823	2.3578379	20	—	—
290952 2005 WZ_{172}	16.0	X	19.26020	89.14572	239.11175	6.39347	0.0736682	0.19024316	2.9940796	20	10 10.7	19.9
290953 2005 WE_{173}	15.2	X	73.99692	97.59251	90.86858	9.98483	0.0798298	0.16795428	3.2534340	20	6 27.7	19.7
290954 2005 WO_{174}	15.0	X	199.30981	2.82251	97.47700	18.93454	0.1455834	0.17507275	3.1646354	20	7 25.9	20.2
290955 2005 WO_{178}	16.6	X	311.01575	327.85232	160.04138	2.31720	0.0259994	0.20607423	2.8387050	20	—	—
290956 2005 WS_{179}	17.6	X	167.66938	29.80695	0.35794	5.98637	0.1337229	0.29885567	2.2156189	20	3 25.3	20.6
290957 2005 WP_{180}	16.8	X	56.11231	274.96591	145.62516	6.34299	0.2653727	0.21536745	2.7564450	20	1 2.9	19.1
290958 2005 WC_{181}	15.4	X	285.61053	262.64771	71.31753	13.50484	0.1903802	0.17941042	3.1134193	20	5 17.2	19.8
290959 2005 WZ_{181}	16.0	X	305.04528	207.88482	214.02112	9.70901	0.0959906	0.19321110	2.9633390	20	10 22.2	19.6
290960 2005 WO_{185}	15.8	X	241.14868	184.81582	83.23525	12.52084	0.0730985	0.21934001	2.7230616	20	1 17.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
290961 2005 WK_{186}	17.5	X	186.21880	287.57872	113.20920	8.16338	0.2346351	0.29917945	2.2140200	20	5 2.2	21.3
290962 2005 WU_{190}	15.6	X	208.39345	158.41997	323.69301	7.79142	0.1341883	0.18437285	3.0573001	20	8 29.9	20.3
290963 2005 WE_{191}	15.9	X	319.09015	280.90941	100.91843	11.48627	0.1121637	0.19040776	2.9923539	20	9 26.4	19.7
290964 2005 WB_{193}	16.6	X	75.99764	243.43558	118.59784	5.46522	0.2141088	0.21178341	2.7874564	20	—	—
290965 2005 WQ_{197}	16.5	X	253.70809	166.47362	311.12580	2.20812	0.1842764	0.19006602	2.9959396	20	10 6.9	20.8
290966 2005 WS_{207}	17.4	X	24.83391	178.64321	311.86496	5.12065	0.2214651	0.28472118	2.2883522	20	1 5.0	18.7
290967 2005 XH	15.9	X	38.65166	312.31979	67.77977	3.08296	0.0774590	0.20283635	2.8688347	20	—	—
290968 2005 XS_1	16.9	X	199.05705	290.27539	69.08360	8.16241	0.1636777	0.29833231	2.2182093	20	3 22.0	20.4
290969 2005 XU_6	17.8	X	257.52377	141.55438	128.58503	0.72837	0.2108786	0.29115193	2.2545313	20	1 17.0	21.3
290970 2005 XE_7	16.8	X	285.71667	153.67907	282.12727	5.36527	0.1064401	0.25872445	2.4391831	20	10 21.9	19.5
290971 2005 XA_{10}	16.5	X	275.30466	302.08556	305.89985	3.79433	0.0084329	0.22144071	2.7058127	20	2 6.4	20.1
290972 2005 XD_{11}	17.0	X	122.90464	41.17734	111.43575	3.95574	0.0722806	0.30811978	2.1709825	20	7 18.0	19.7
290973 2005 XS_{16}	17.2	X	85.00281	175.98229	248.02277	3.32100	0.1632421	0.28543458	2.2845377	20	1 30.5	19.5
290974 2005 XT_{16}	17.3	X	213.35044	178.60289	104.33198	4.90378	0.1120024	0.28169714	2.3047001	20	—	—
290975 2005 XH_{17}	16.3	X	223.58920	309.83699	40.15222	10.00024	0.1636292	0.23487544	2.6016227	20	4 4.1	20.4
290976 2005 XM_{20}	15.6	X	157.90537	68.61733	25.67217	4.10758	0.1002597	0.16850969	3.2462811	20	6 7.3	20.7
290977 2005 XG_{25}	16.3	X	74.76885	355.01461	203.62387	0.72451	0.1005749	0.17182445	3.2043952	20	7 14.8	20.7
290978 2005 XH_{32}	17.2	X	318.93147	53.85530	79.22037	3.86436	0.1192808	0.27293345	2.3537746	20	—	—
290979 2005 XP_{37}	18.3	X	36.41763	64.64706	4.47220	1.23694	0.1587553	0.27612518	2.3356013	20	—	—
290980 2005 XH_{41}	16.8	X	2.96541	174.34634	35.26076	4.71736	0.1062251	0.22543580	2.6737500	20	4 8.9	19.8
290981 2005 XZ_{42}	16.6	X	163.32732	200.21550	207.98804	7.21522	0.1570395	0.23173461	2.6250774	20	4 18.3	20.8
290982 2005 XF_{45}	15.3	X	121.37505	236.10021	287.07202	7.15814	0.0967393	0.17307551	3.1889348	20	7 23.8	20.1
290983 2005 XU_{45}	16.3	X	343.65240	289.08021	39.83505	4.83827	0.1504163	0.18357553	3.0661461	20	8 22.1	19.7
290984 2005 XF_{46}	15.2	X	250.61477	117.15732	283.12583	14.40312	0.0410574	0.17554270	3.1589847	20	7 15.9	19.7
290985 2005 XH_{49}	16.9	X	348.97385	119.04504	317.03610	4.36455	0.0601974	0.26844857	2.3799180	20	—	—
290986 2005 XV_{49}	16.9	X	82.24237	170.64541	298.90610	6.99735	0.0961927	0.29133068	2.2536090	20	3 17.9	19.5
290987 2005 XP_{50}	16.5	X	148.85039	320.04428	53.76245	6.72677	0.0409334	0.21843355	2.7305899	20	2 15.2	20.4
290988 2005 XY_{50}	14.8	X	320.95403	272.58907	296.61289	14.85431	0.0787956	0.14920449	3.5205846	20	2 12.3	19.7
290989 2005 XO_{53}	17.0	X	117.42807	13.71834	301.66258	2.81116	0.0899081	0.20923381	2.8100549	20	—	—
290990 2005 XN_{60}	17.2	X	312.97096	250.88290	268.28679	4.24421	0.0569116	0.28143797	2.3061148	20	—	—
290991 2005 XZ_{62}	15.5	X	106.37098	24.22457	18.29177	1.83929	0.0752193	0.15003844	3.5075270	20	2 11.1	20.4
290992 2005 XY_{63}	16.9	X	230.26567	113.50470	33.14557	2.60280	0.1588397	0.25762219	2.4461356	20	10 31.8	20.0
290993 2005 XR_{64}	17.1	X	240.94660	192.45499	181.54401	3.95256	0.1789032	0.30941746	2.1649083	20	5 16.9	20.1
290994 2005 XB_{73}	17.5	X	120.29408	156.76806	301.47918	5.02418	0.1020525	0.29660397	2.2268181	20	4 27.4	20.4
290995 2005 XJ_{74}	16.6	X	242.98152	323.78074	348.36630	4.73134	0.1002153	0.22431949	2.6826131	20	3 9.6	20.6
290996 2005 XQ_{76}	16.9	X	264.92347	37.95353	313.95106	2.75345	0.0329095	0.24186404	2.5512627	20	6 4.3	20.2
290997 2005 XK_{82}	17.2	X	228.60926	232.90292	315.23325	1.99152	0.1232667	0.26701465	2.3884307	20	12 31.6	20.0
290998 2005 XV_{82}	16.1	X	263.69924	80.56885	303.75652	4.04188	0.1389553	0.17662490	3.1460680	20	6 29.2	20.7
290999 2005 XT_{83}	15.7	X	258.63871	12.28844	50.03238	5.86542	0.2906280	0.18035315	3.1025603	20	7 22.9	20.5
291000 2005 XC_{85}	16.9	X	42.42459	38.97215	32.79346	4.72917	0.0444375	0.21213929	2.7843381	20	—	—
291001 2005 XO_{85}	16.3	X	160.60439	141.27467	37.95896	3.87551	0.1229001	0.18159634	3.0883842	20	9 24.6	21.2
291002 2005 XG_{88}	16.4	X	257.48268	328.04027	140.34225	2.31320	0.1295406	0.18761220	3.0220061	20	10 9.6	20.4
291003 2005 XU_{90}	15.9	X	142.20413	110.40409	86.81129	4.46470	0.1273920	0.18004163	3.1061380	20	9 29.7	20.8
291004 2005 XG_{91}	18.3	X	334.44006	136.82283	34.80513	4.18953	0.1382658	0.27936317	2.3175189	20	—	—
291005 2005 XR_{92}	16.7	X	285.17675	321.10259	25.30816	6.42815	0.2376723	0.31119149	2.1566727	20	5 21.1	19.0
291006 2005 XY_{102}	18.0	X	189.74891	318.87381	303.78509	1.95192	0.1816039	0.26464219	2.4026840	20	—	—
291007 2005 XE_{112}	17.6	X	352.53882	199.21306	299.01405	4.70233	0.0728748	0.27470832	2.3436253	20	—	—
291008 2005 XK_{112}	17.1	X	351.62790	275.35234	10.97647	1.89131	0.0529581	0.22637995	2.6663106	20	7 9.1	20.4
291009 2005 XR_{112}	16.7	X	239.49578	264.64737	300.17781	1.01130	0.0098130	0.20618385	2.8376988	20	—	—
291010 2005 XN_{115}	16.9	X	156.19037	203.91719	291.81892	1.85579	0.0998886	0.24134218	2.5549391	20	7 31.2	20.5
291011 2005 YM_1	16.6	X	122.29209	35.64411	25.97770	7.30754	0.1806309	0.22553536	2.6729630	20	3 29.5	20.6
291012 2005 YA_4	16.6	X	356.69480	18.24336	351.99107	8.11960	0.0887659	0.25812532	2.4429560	20	11 18.7	19.5
291013 2005 YY_6	16.4	X	247.71951	133.34740	316.57467	0.29661	0.1534693	0.18205240	3.0832242	20	8 30.5	20.7
291014 2005 YJ_8	15.8	X	119.82818	258.16079	285.94846	12.79625	0.1071401	0.23894610	2.5719908	20	8 19.2	19.7
291015 2005 YH_9	16.7	X	28.92251	224.36456	263.72520	4.66075	0.0568655	0.21976250	2.7195705	20	1 30.2	20.2
291016 2005 YD_{11}	16.9	X	65.26178	159.50249	325.58635	1.66218	0.0416697	0.22302712	2.6929664	20	3 17.5	20.3
291017 2005 YQ_{11}	17.6	X	155.18927	47.93676	11.81346	1.74426	0.0822176	0.29708958	2.2243908	20	4 16.8	20.5
291018 2005 YL_{14}	17.7	X	309.38187	244.09092	105.78364	2.02222	0.1843633	0.31214584	2.1522746	20	7 25.1	19.0
291019 2005 YD_{15}	16.1	X	307.38684	143.77388	298.70110	8.59213	0.1386230	0.19073748	2.9889044	20	11 16.0	19.8
291020 2005 YY_{18}	16.5	X	25.59297	348.96202	88.43366	3.05720	0.0768605	0.21022512	2.8012141	20	—	—
291021 2005 YH_{23}	16.7	X	197.53882	167.58200	104.25573	7.17952	0.1119610	0.27270466	2.3550909	20	—	—
291022 2005 YR_{24}	17.0	X	225.79621	321.12206	247.19829	0.88843	0.2072052	0.26270342	2.4144908	20	—	—
291023 2005 YT_{25}	15.9	X	185.05576	38.26516	119.63965	6.06730	0.1711038	0.17865216	3.1222227	20	9 21.0	21.0
291024 2005 YG_{27}	16.6	X	259.50654	345.39948	77.27770	2.46438	0.1304331	0.17870569	3.1215991	20	8 14.0	21.0
291025 2005 YP_{27}	16.1	X	256.91686	1.75209	85.25872	3.01706	0.0548006	0.18166799	3.0875721	20	9 22.6	20.4
291026 2005 YQ_{28}	16.6	X	182.67984	99.91858	52.53459	0.64799	0.1262664	0.17847628	3.1242735	20	9 11.9	21.5
291027 2005 YM_{29}	17.9	X	351.53978	80.60503	81.13588	3.10883	0.1390979	0.27964514	2.3159608	20	—	—
291028 2005 YM_{30}	16.1	X	248.47998	21.44574	70.44585	3.12645	0.0685885	0.18473313	3.0533238	20	9 16.7	20.4
291029 2005 YX_{30}	17.7	X	206.57070	345.79362	98.54243	0.96647	0.0810182	0.30845450	2.1694117	20	7 24.7	20.3
291030 2005 YR_{32}	17.6	X	319.42697	75.04922	123.31496	6.02472	0.0978667	0.27951896	2.3166577	20	1 7.1	20.4
291031 2005 YN_{33}	17.1	X	314.79134	321.23862	276.19841	6.51179	0.1779553	0.28674528	2.2775707	20	2 7.1	19.9
291032 2005 YP_{34}	17.6	X	308.28449	351.82509	137.15204	3.71758	0.1873111	0.26591889	2.3949875	20	—	—
291033 2005 YG_{35}	17.8	X	66.11837	247.01042	235.16447	2.32130	0.0841114	0.29183118	2.2510316	20	3 11.3	20.2
291034 2005 YR_{36}	16.6	X	142.65925	59.22904	301.90178	4.92522	0.0484296	0.21149135	2.7900221	20	1 22.1	20.3
291035 2005 YE_{37}	17.6	X	247.51681	93.19437	304.45350	17.32516	0.1197834	0.37800336	1.8944026	20	7 10.9	19.4
291036 2005 YK_{39}	16.0	X	241.29943	163.08260	303.43538	10.35185	0.1816654	0.18360929	3.0657703	20	9 5.5	20.8
291037 2005 YA_{40}	17.8	X	341.74086	236.46023	101.41813	1.43396	0.1434069	0.31476422	2.1403221	20	9 27.2	19.2
291038 2005 YO_{40}	17.8	X	36.30554	276.24622	266.61967	1.52633	0.1289190	0.29158567	2.2522950	20	4 26.3	19.6
291039 2005 YU_{40}	15.8	X	328.02720	85.05258	288.10327	9.32554	0.0706407	0.18119132	3.0929849	20	9 17.9	20.1
291040 2005 YF_{42}	17.9	X	19.74114	92.77215	107.35006	7.07751	0.0266299	0.29389377	2.2404872	20	4 21.2	20.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291041 2005 YJ_{45}	17.7	X	34.70121	359.81048	122.13082	5.00959	0.1218943	0.28234461	2.3011753	20	1 19.2	19.7
291042 2005 YH_{46}	16.0	X	285.64995	4.80551	118.66532	10.62799	0.0089722	0.19370952	2.9582536	20	12 20.1	20.1
291043 2005 YB_{48}	17.5	X	320.02382	259.59741	242.35842	2.69886	0.1014966	0.27462589	2.3440942	20	—	—
291044 2005 YH_{49}	17.7	X	347.64794	259.14490	149.13126	1.72270	0.1711678	0.26197036	2.4189930	20	—	—
291045 2005 YU_{49}	15.9	X	166.17275	181.02775	294.73237	3.85105	0.0883001	0.16821624	3.2500555	20	7 12.4	20.8
291046 2005 YX_{50}	16.9	X	59.05097	321.50412	145.73982	3.74770	0.0451694	0.21655307	2.7463749	20	2 16.4	20.4
291047 2005 YK_{51}	16.9	X	272.48686	342.99097	280.32431	2.15460	0.0412828	0.21572355	2.7534108	20	2 18.1	20.8
291048 2005 YY_{52}	17.8	X	346.78045	66.94286	77.22969	3.09014	0.1553753	0.27588614	2.3369502	20	—	—
291049 2005 YC_{54}	16.5	X	293.59357	337.82321	281.73909	3.57788	0.0986039	0.21925564	2.7237602	20	3 1.0	20.4
291050 2005 YK_{54}	17.0	X	295.84653	268.42787	274.82105	7.00363	0.1116149	0.27316346	2.3524531	20	—	—
291051 2005 YD_{55}	16.4	X	316.83032	137.59563	123.55065	8.79127	0.1643126	0.22382737	2.6865438	20	3 30.3	19.8
291052 2005 YW_{57}	16.2	X	173.07526	90.52398	76.85334	2.87778	0.1080179	0.17925656	3.1152005	20	9 22.5	21.0
291053 2005 YC_{58}	16.2	X	272.72177	261.87450	133.53091	1.86680	0.1446414	0.17616435	3.1515488	20	7 23.6	20.5
291054 2005 YZ_{62}	15.3	X	315.24008	26.63227	303.79583	5.50975	0.1524853	0.17331853	3.1859532	20	6 29.7	19.3
291055 2005 YQ_{63}	17.7	X	345.27474	117.25168	332.65189	0.80970	0.1489349	0.26873265	2.3782404	20	—	—
291056 2005 YW_{64}	17.1	X	2.56025	338.53274	94.81054	4.74863	0.0956942	0.26941668	2.3742133	20	—	—
291057 2005 YO_{65}	17.2	X	189.70060	245.87184	343.66451	0.79782	0.1400358	0.26197072	2.4189908	20	—	—
291058 2005 YJ_{70}	17.8	X	34.76471	87.08787	340.65696	2.38666	0.1458226	0.27396850	2.3478425	20	—	—
291059 2005 YQ_{70}	16.2	X	56.46265	301.48541	32.29327	2.39180	0.0594181	0.19693520	2.9258618	20	12 5.9	20.4
291060 2005 YH_{77}	17.2	X	184.98741	138.81030	50.60736	1.66757	0.0508917	0.25541469	2.4602098	20	11 15.5	20.6
291061 2005 YZ_{79}	16.2	X	319.27867	250.64546	87.00351	2.56310	0.1727390	0.17464606	3.1697877	20	7 13.9	19.8
291062 2005 YK_{80}	16.5	X	88.24533	314.31428	108.92718	5.95016	0.0550228	0.21423118	2.7661831	20	2 2.0	20.0
291063 2005 YV_{86}	15.6	X	42.73537	37.95027	294.29537	4.58151	0.1317655	0.18916968	3.0053959	20	11 25.3	19.8
291064 2005 YW_{88}	16.1	X	175.36553	171.87461	216.22753	1.12832	0.0328324	0.15450385	3.4396151	20	4 5.1	21.1
291065 2005 YV_{89}	15.4	X	229.97888	312.26714	107.85663	28.09091	0.1976285	0.17353160	3.1833448	20	7 1.8	20.5
291066 2005 YY_{90}	16.0	X	103.12728	213.78336	131.44044	6.84986	0.0763115	0.20075636	2.8886162	20	—	—
291067 2005 YN_{92}	16.4	X	311.64567	94.31358	130.34179	4.27389	0.0478412	0.21607987	2.7503830	20	2 18.9	20.1
291068 2005 YS_{98}	17.4	X	141.75297	339.97305	80.17053	6.96378	0.1462134	0.29386624	2.2406271	20	4 11.7	20.6
291069 2005 YV_{103}	17.2	X	186.34546	352.87268	234.60377	0.54711	0.1393754	0.26171112	2.4205901	20	12 27.7	20.4
291070 2005 YV_{104}	16.8	X	127.53730	226.29256	286.78970	4.23019	0.0553419	0.23757324	2.5818898	20	7 18.4	20.4
291071 2005 YX_{104}	16.2	X	259.94827	280.15574	89.92549	2.06590	0.0792484	0.16968307	3.2312982	20	6 14.6	20.8
291072 2005 YD_{108}	15.8	X	52.63230	72.49247	271.52483	4.52780	0.0896582	0.19331310	2.9622965	20	12 17.4	19.8
291073 2005 YK_{113}	15.5	X	359.62650	29.89760	309.89122	10.46065	0.0817627	0.18200196	3.0837938	20	9 22.6	19.6
291074 2005 YD_{116}	17.3	X	175.84996	322.47722	81.98798	5.01592	0.1621830	0.29698646	2.2249057	20	4 25.1	20.6
291075 2005 YY_{116}	17.7	X	315.48372	243.60265	316.68740	6.34704	0.0356759	0.28006152	2.3136647	20	1 14.9	20.4
291076 2005 YF_{117}	17.4	X	59.22899	94.46565	348.51210	2.02119	0.0691967	0.21101913	2.7941829	20	1 20.1	20.9
291077 2005 YG_{120}	16.4	X	207.19646	52.64045	257.57797	3.72337	0.1046247	0.21555037	2.7548853	20	1 30.9	20.8
291078 2005 YM_{120}	15.6	X	173.12506	243.58274	276.94218	8.04095	0.0260315	0.17902768	3.1178551	20	9 10.5	20.2
291079 2005 YR_{120}	17.6	X	347.32444	355.23145	150.68004	2.34691	0.1481648	0.27655377	2.3331876	20	—	—
291080 2005 YV_{120}	15.9	X	1.54129	201.95254	168.86510	3.92503	0.1053269	0.18811962	3.0165694	20	11 14.3	19.7
291081 2005 YY_{120}	15.2	X	163.63588	62.11514	110.66347	15.71560	0.0496819	0.17836264	3.1256004	20	9 25.4	20.1
291082 2005 YB_{121}	16.7	X	355.11500	170.56011	311.52301	4.19834	0.0276118	0.20922113	2.8101685	20	—	—
291083 2005 YZ_{122}	16.8	X	16.63002	167.67790	333.18887	7.63272	0.0999303	0.28313064	2.2969143	20	1 16.4	19.0
291084 2005 YK_{123}	16.5	X	331.05224	359.00699	340.48422	4.15109	0.1237110	0.17779504	3.1322491	20	8 12.0	20.1
291085 2005 YP_{123}	16.4	X	69.00336	47.16427	64.00080	4.06286	0.0247831	0.21937345	2.7227849	20	3 5.5	20.0
291086 2005 YU_{127}	16.4	X	197.17402	171.61429	332.56096	4.05921	0.0818620	0.18127725	3.0920074	20	9 18.1	20.9
291087 2005 YT_{131}	15.9	X	165.14842	134.54608	121.12600	13.21564	0.1732009	0.19013079	2.9952592	20	12 25.6	21.0
291088 2005 YZ_{131}	16.3	X	358.78568	260.76056	124.64924	5.18421	0.1496924	0.18995843	2.9970708	20	12 3.7	19.9
291089 2005 YA_{133}	17.6	X	252.35162	187.69626	354.70470	2.82856	0.1204311	0.26580999	2.3956416	20	—	—
291090 2005 YL_{133}	17.2	X	245.54634	3.77787	47.21605	3.45393	0.0971732	0.24386806	2.5372666	20	7 21.9	20.5
291091 2005 YN_{133}	15.5	X	317.39931	320.53461	81.62146	10.50995	0.0280039	0.18692028	3.0294592	20	10 22.7	19.7
291092 2005 YS_{133}	16.9	X	257.13604	263.80126	33.15901	3.07567	0.0852174	0.22390717	2.6859054	20	3 9.0	20.8
291093 2005 YF_{134}	16.8	X	116.47191	69.48548	343.83775	5.89242	0.0180243	0.21763171	2.7372929	20	2 19.9	20.6
291094 2005 YW_{134}	17.0	X	246.81238	188.23511	67.09274	8.65107	0.0824630	0.27884770	2.3203741	20	—	—
291095 2005 YZ_{134}	17.0	X	210.89095	355.80588	312.76183	6.75508	0.1315973	0.28560519	2.2836278	20	1 25.6	20.3
291096 2005 YG_{135}	16.0	X	303.42082	118.67196	85.74070	12.75111	0.0981503	0.21150010	2.7899452	20	1 7.2	19.9
291097 2005 YW_{136}	17.4	X	265.22076	52.52788	313.12760	4.25282	0.1802109	0.30823087	2.1704608	20	6 1.3	20.0
291098 2005 YZ_{143}	16.9	X	228.83783	324.36262	324.41820	5.10705	0.2267132	0.27895574	2.3197749	20	1 17.7	20.8
291099 2005 YL_{148}	17.0	X	183.21006	221.34884	57.35924	4.20744	0.1593907	0.27083027	2.3659447	20	—	—
291100 2005 YX_{148}	16.4	X	66.73029	4.11415	56.81522	4.69061	0.0860053	0.20953322	2.8073773	20	1 4.5	19.8
291101 2005 YP_{153}	17.3	X	187.04090	65.57744	329.91759	5.17147	0.2246812	0.29933029	2.2132762	20	4 20.2	21.1
291102 2005 YK_{154}	15.9	X	257.91094	104.62780	305.23056	10.93159	0.1879483	0.17663555	3.1459415	20	7 18.6	20.6
291103 2005 YU_{160}	15.3	X	53.89865	0.07176	263.56455	10.25869	0.0414249	0.17625555	3.1504615	20	8 26.4	19.9
291104 2005 YO_{161}	15.6	X	235.70244	313.75296	124.85280	9.59278	0.2083003	0.17863295	3.1224465	20	7 28.3	20.6
291105 2005 YB_{165}	15.9	X	280.86919	61.17545	356.35320	4.02000	0.2472003	0.18377803	3.0638934	20	8 18.3	20.0
291106 2005 YL_{165}	16.6	X	13.59011	310.08587	29.07507	3.36774	0.1587526	0.19180236	2.9778313	20	10 29.1	20.0
291107 2005 YR_{166}	16.7	X	191.96098	80.55455	142.49658	5.34878	0.1862338	0.25925915	2.4358282	20	12 22.7	20.4
291108 2005 YT_{167}	15.9	X	165.02648	52.26664	126.91464	11.12202	0.1673839	0.17786992	3.1313699	20	9 30.7	21.2
291109 2005 YX_{172}	15.0	X	169.07456	217.38085	305.59325	15.86433	0.1630121	0.17951585	3.1122002	20	9 4.5	20.3
291110 2005 YW_{173}	16.0	X	106.58181	224.95594	288.54999	8.65547	0.1835983	0.22705352	2.6610348	20	7 7.8	20.1
291111 2005 YV_{174}	15.3	X	295.70044	348.40714	75.02828	17.64208	0.1060804	0.18550673	3.0448293	20	10 17.1	19.5
291112 2005 YB_{177}	17.3	X	212.00924	33.96442	292.92847	5.01910	0.1803000	0.28944195	2.2634022	20	2 16.5	20.9
291113 2005 YQ_{178}	17.7	X	85.82108	127.12798	319.38643	5.85810	0.0675318	0.28591426	2.2819818	20	2 18.9	20.3
291114 2005 YS_{179}	17.6	X	29.67549	22.18647	130.56591	6.24276	0.1853945	0.28461768	2.2889069	20	2 27.9	19.1
291115 2005 YU_{179}	17.2	X	47.78359	172.37734	103.20013	5.18360	0.1469992	0.31240063	2.1511042	20	10 19.2	19.7
291116 2005 YB_{182}	16.9	X	315.07470	40.24982	60.49924	5.93503	0.0852087	0.26323486	2.4112401	20	—	—
291117 2005 YJ_{186}	17.9	X	107.48346	130.47430	315.94942	17.77685	0.0916246	0.35738087	1.9665961	20	3 8.9	20.1
291118 2005 YS_{188}	16.4	X	133.17827	68.36291	312.90107	2.93745	0.1120808	0.21401113	2.7680790	20	2 11.9	20.2
291119 2005 YD_{194}	17.9	X	297.78147	190.04660	237.26158	1.81959	0.1765090	0.25703470	2.4498615	20	10 25.7	20.1
291120 2005 YP_{199}	17.2	X	14.24158	10.95470	116.70036	5.90971	0.0763670	0.27787332	2.3257953	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291121 2005 YB_{200}	16.3	X	201.82694	26.47777	92.90914	2.25990	0.1276457	0.17634455	3.1494014	20	8 21.7	21.1
291122 2005 YJ_{200}	16.3	X	247.06022	353.17558	91.38192	2.06136	0.2449276	0.18156342	3.0887575	20	8 12.5	21.0
291123 2005 YP_{200}	16.4	X	257.42349	58.15911	108.66920	3.22646	0.0513865	0.19559561	2.9392057	20	—	—
291124 2005 YW_{200}	17.2	X	222.93694	327.74216	300.58823	6.71452	0.0757320	0.27539853	2.3397079	20	—	—
291125 2005 YB_{201}	17.0	X	224.53846	102.31527	133.55419	1.93743	0.2426814	0.26529124	2.3987636	20	—	—
291126 2005 YF_{201}	16.0	X	118.37709	263.37314	297.38472	0.63281	0.1469087	0.17207344	3.2013033	20	9 9.2	20.9
291127 2005 YJ_{201}	16.6	X	142.49238	259.41153	117.28768	12.74719	0.2351480	0.21870873	2.7282991	20	3 1.8	21.2
291128 2005 YP_{201}	16.0	X	120.41497	220.63641	93.97182	3.15841	0.0787789	0.19885126	2.9070365	20	—	—
291129 2005 YY_{204}	16.5	X	278.48833	325.50996	108.35284	2.78028	0.0535249	0.18359663	3.0659112	20	10 4.4	20.6
291130 2005 YO_{207}	15.8	X	259.13204	353.94389	108.63472	5.23142	0.1099315	0.18395123	3.0619699	20	10 8.4	20.0
291131 2005 YR_{207}	17.5	X	311.32507	105.51574	50.63812	2.12399	0.1209583	0.27222162	2.3578760	20	—	—
291132 2005 YL_{208}	14.9	X	268.27856	337.64716	82.15369	16.55378	0.0552353	0.17993510	3.1073640	20	9 9.1	19.5
291133 2005 YD_{212}	15.5	X	307.84929	260.00855	175.50268	15.94407	0.2825194	0.19145724	2.9814087	20	10 29.7	18.4
291134 2005 YN_{214}	15.9	X	278.53893	20.53331	28.31782	13.59937	0.2853488	0.18164111	3.0878767	20	8 1.9	20.4
291135 2005 YS_{215}	16.0	X	314.08000	232.84568	113.63537	11.56740	0.0143779	0.17314924	3.1880295	20	8 3.6	20.4
291136 2005 YO_{218}	17.3	X	249.90616	117.98568	75.35865	5.35745	0.1025451	0.26623208	2.3931089	20	—	—
291137 2005 YC_{219}	17.0	X	276.17013	194.34853	307.18382	1.66538	0.1537381	0.26447009	2.4037263	20	—	—
291138 2005 YH_{223}	18.1	X	7.76492	79.91432	13.26832	1.85072	0.1517998	0.27403230	2.3474781	20	—	—
291139 2005 YF_{225}	16.7	X	332.14094	357.55403	77.80718	3.16002	0.0470064	0.20078853	2.8883076	20	12 21.6	20.4
291140 2005 YK_{229}	16.9	X	20.02463	206.94713	315.29850	5.05068	0.0703999	0.28077548	2.3097409	20	2 22.1	19.1
291141 2005 YH_{230}	18.1	X	322.71336	58.42092	53.46953	3.30242	0.1459554	0.26722523	2.3871759	20	—	—
291142 2005 YS_{231}	16.2	X	301.76584	279.41182	139.21316	8.70229	0.0998514	0.18593915	3.0401067	20	10 14.9	20.1
291143 2005 YR_{236}	16.7	X	342.11037	358.20242	132.83983	2.97452	0.0146721	0.20524959	2.8463033	20	—	—
291144 2005 YK_{237}	18.5	X	205.76011	352.81584	55.78291	1.86156	0.1566404	0.30238986	2.1983216	20	5 28.2	21.8
291145 2005 YW_{237}	16.3	X	180.22421	332.87863	168.89134	3.80426	0.0897768	0.17544111	3.1602041	20	8 27.8	21.2
291146 2005 YB_{246}	16.1	X	302.59148	227.45369	126.48937	28.20464	0.1110574	0.24073990	2.5591987	20	7 21.8	19.0
291147 2005 YY_{250}	17.1	X	11.79842	224.15581	174.35942	2.24254	0.0850685	0.19516807	2.9434966	20	12 31.9	20.9
291148 2005 YN_{256}	17.9	X	162.81144	142.47316	252.60299	5.94390	0.1157520	0.29162890	2.2520724	20	3 23.2	21.1
291149 2005 YZ_{256}	15.8	X	195.77947	291.48760	273.11336	8.66982	0.0490745	0.18890878	3.0081624	20	12 3.1	20.2
291150 2005 YE_{262}	16.5	X	90.29214	218.15227	36.00443	0.97224	0.1359515	0.18042209	3.1017699	20	10 15.6	21.2
291151 2005 YS_{265}	17.5	X	128.55881	123.10786	336.32702	1.95000	0.0569153	0.22833658	2.6510569	20	5 7.8	21.2
291152 2005 YX_{273}	15.1	X	110.17896	274.49205	316.90619	18.12556	0.1762322	0.17418868	3.1753341	20	9 30.9	20.5
291153 2005 YM_{284}	16.8	X	235.61357	82.42855	72.32442	1.91237	0.1737771	0.18855180	3.0119581	20	11 3.3	21.2
291154 2005 YU_{285}	16.7	X	186.13164	155.73365	48.07008	3.38098	0.1459096	0.25711129	2.4493750	20	11 26.1	20.4
291155 2005 YD_{286}	16.2	X	78.97421	205.91620	72.83006	2.59217	0.0738288	0.18313382	3.0710745	20	10 26.7	20.7
291156 2005 YS_{286}	16.0	X	284.16405	94.63535	320.53301	5.05173	0.1303214	0.18066372	3.0990036	20	9 4.5	20.1
291157 2005 YW_{290}	17.8	X	130.89279	357.94459	41.97931	2.43176	0.2352840	0.28896727	2.2658802	20	3 11.8	21.1
291158 2005 YM_{291}	16.8	X	35.83973	140.07920	267.01965	0.92107	0.0729178	0.20154072	2.8811167	20	—	—
291159 2005 YT_{291}	16.9	X	178.30199	20.77126	303.68248	3.40513	0.0686763	0.21111309	2.7933537	20	1 19.4	21.1
291160 2006 AE	16.6	X	151.91006	213.51508	252.88867	7.93307	0.0974965	0.23422653	2.6064256	20	6 17.4	20.5
291161 2006 AV	16.0	X	257.23583	282.31471	175.36498	4.95517	0.2083329	0.18518296	3.0483771	20	9 13.1	20.3
291162 2006 AY_{6}	15.0	X	75.48808	321.42832	318.90275	12.15288	0.0272443	0.18232021	3.0802042	20	10 11.2	19.6
291163 2006 AS_{11}	15.4	X	214.03227	67.96410	123.49302	12.07259	0.0421887	0.19269027	2.9686764	20	12 11.7	19.7
291164 2006 AE_{14}	16.8	X	34.42483	243.13074	148.74714	1.71109	0.0591551	0.19532546	2.9419152	20	—	—
291165 2006 AC_{15}	17.5	X	305.00366	325.64979	297.78336	16.50054	0.0519619	0.35828225	1.9632963	20	3 4.9	19.9
291166 2006 AA_{23}	16.3	X	132.92238	5.81132	295.04862	10.96299	0.0231089	0.19774311	2.9178870	20	—	—
291167 2006 AJ_{24}	17.1	X	246.89378	193.75381	73.70352	2.34682	0.2060157	0.28116360	2.3076148	20	1 6.3	20.8
291168 2006 AM_{24}	17.9	X	202.49123	64.69498	356.10342	1.06889	0.1429448	0.30562749	2.1827690	20	6 11.2	20.8
291169 2006 AP_{25}	16.4	X	156.03661	213.86480	85.61662	3.19979	0.0412135	0.20304907	2.8668307	20	—	—
291170 2006 AU_{25}	17.8	X	36.96402	137.10910	90.36785	2.40879	0.1141237	0.30117981	2.2042058	20	7 9.1	19.9
291171 2006 AS_{28}	17.0	X	144.49866	10.00153	354.35461	4.24970	0.0877745	0.21433140	2.7653208	20	2 2.3	20.9
291172 2006 AK_{33}	15.9	X	262.08516	60.71947	15.22330	4.84600	0.1088952	0.18274333	3.0754478	20	9 7.3	20.2
291173 2006 AM_{33}	15.5	X	178.04567	237.16906	324.66731	17.86394	0.2296443	0.18292873	3.0733695	20	10 23.7	21.1
291174 2006 AV_{33}	16.1	X	220.23983	20.62271	41.63425	2.52670	0.0602460	0.16987760	3.2288309	20	7 5.9	20.9
291175 2006 AA_{37}	17.5	X	211.44493	246.21547	11.33225	1.46364	0.1460520	0.26875526	2.3781070	20	—	—
291176 2006 AY_{39}	16.4	X	295.40623	12.67033	20.21961	0.49904	0.1763774	0.17899888	3.1181895	20	8 17.4	20.3
291177 2006 AB_{40}	17.8	X	335.73256	141.27172	315.63444	1.79395	0.0521605	0.26486439	2.4013401	20	—	—
291178 2006 AD_{43}	16.1	X	261.44016	21.42451	285.69057	6.58968	0.0404083	0.22161170	2.7044207	20	3 27.8	20.0
291179 2006 AJ_{44}	16.5	X	100.72931	69.91074	340.94419	5.30091	0.0592843	0.21178653	2.7874291	20	2 3.9	20.2
291180 2006 AS_{44}	17.8	X	239.69588	143.40367	100.08334	2.36939	0.1411895	0.27103389	2.3647596	20	—	—
291181 2006 AL_{45}	17.5	X	223.61793	256.69734	149.12867	3.40005	0.1319111	0.30642057	2.1790010	20	6 15.0	20.4
291182 2006 AW_{45}	16.1	X	93.77818	139.15020	135.99659	4.20877	0.0618869	0.18470575	3.0536255	20	11 7.8	20.5
291183 2006 AP_{49}	16.5	X	139.33233	319.69274	93.90438	6.10810	0.0429336	0.22276332	2.6950920	20	3 25.1	20.3
291184 2006 AB_{50}	17.5	X	269.80837	48.13254	97.24691	2.23412	0.1318930	0.26216656	2.4177860	20	—	—
291185 2006 AC_{53}	16.8	X	43.00739	232.70057	164.50974	2.37197	0.0707689	0.19975110	2.8982995	20	—	—
291186 2006 AH_{53}	16.4	X	324.06789	238.20771	160.71012	3.10668	0.0761316	0.18532484	3.0468212	20	10 22.2	20.2
291187 2006 AG_{54}	17.5	X	217.03018	119.72230	138.09122	7.42152	0.0892382	0.27171495	2.3608063	20	—	—
291188 2006 AL_{54}	17.0	X	279.56449	15.60302	264.95820	4.59788	0.1771392	0.28780345	2.2719846	20	2 21.7	20.1
291189 2006 AR_{54}	15.2	X	96.41063	136.51949	132.74934	11.83891	0.0451561	0.18321658	3.0701496	20	11 4.7	19.8
291190 2006 AW_{57}	18.0	X	81.65413	304.18144	159.32072	2.45586	0.1740483	0.28701040	2.2761679	20	3 26.7	20.2
291191 2006 AF_{58}	17.6	X	197.76957	241.42497	214.54119	2.01667	0.1207257	0.23849999	2.5751971	20	7 22.2	21.4
291192 2006 AH_{62}	16.6	X	263.24543	231.09379	163.37761	4.15753	0.2161458	0.17458780	3.1704930	20	6 30.6	21.3
291193 2006 AP_{62}	15.8	X	77.60976	199.60437	73.38717	4.25658	0.1366135	0.18088270	3.0965020	20	10 26.2	20.4
291194 2006 AQ_{62}	17.5	X	351.74095	114.95319	20.96747	2.29506	0.1563160	0.27555980	2.3387949	20	—	—
291195 2006 AR_{63}	14.7	X	334.83625	124.63876	304.28780	8.06836	0.2619742	0.12443148	3.9735852	20	11 24.4	18.9
291196 2006 AQ_{64}	16.9	X	313.65993	29.04210	74.71299	2.90934	0.0587767	0.19537984	2.9413693	20	12 30.0	20.6
291197 2006 AU_{64}	16.6	X	126.32071	148.68537	52.51276	1.84301	0.1441178	0.17484328	3.1674037	20	9 18.3	21.5
291198 2006 AK_{69}	17.5	X	287.05482	227.43406	262.21108	2.05024	0.1469474	0.26327125	2.4110178	20	—	—
291199 2006 AF_{71}	16.9	X	57.39255	235.74512	136.06762	8.54209	0.1128562	0.26564373	2.3966411	20	—	—
291200 2006 AO_{73}	17.6	X	330.52909	60.79483	138.41476	6.42291	0.1119343	0.28074561	2.3099047	20	1 21.2	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291201 2006 AN_{74}	14.8	X	120.26385	95.48203	99.78595	20.18075	0.0521592	0.17329870	3.1861962	20	9 3.7	19.8
291202 2006 AD_{79}	15.9	X	60.79590	205.00435	131.32504	11.68828	0.1099703	0.19008468	2.9957436	20	12 20.2	20.3
291203 2006 AC_{80}	16.2	X	327.03882	30.16509	324.81715	4.78447	0.1492301	0.17652197	3.1472908	20	8 23.2	19.8
291204 2006 AE_{80}	18.0	X	57.80319	130.93712	287.01061	2.16664	0.1823264	0.27591656	2.3367784	20	—	—
291205 2006 AO_{80}	17.9	X	297.23694	213.18049	267.65755	1.49839	0.1698307	0.26194669	2.4191387	20	—	—
291206 2006 AQ_{80}	17.5	X	106.41086	163.68313	292.93343	6.98838	0.0747347	0.29010973	2.2599276	20	3 31.6	20.5
291207 2006 AB_{82}	16.7	X	186.00497	125.65037	235.27544	2.97722	0.1084328	0.22176198	2.7031988	20	3 10.4	21.0
291208 2006 AW_{82}	16.0	X	124.47845	349.35086	266.63800	8.78729	0.0889108	0.25293117	2.4762880	20	11 30.0	19.6
291209 2006 AG_{84}	15.2	X	227.52515	80.66885	356.25744	14.26207	0.0211211	0.17249678	3.1960634	20	8 11.3	19.9
291210 2006 AB_{85}	14.8	X	127.39388	128.67747	97.70223	28.33038	0.1357964	0.17551419	3.1593269	20	11 1.0	20.4
291211 2006 AZ_{89}	17.4	X	110.68800	260.86696	147.70769	3.38769	0.0791775	0.28056340	2.3109047	20	2 5.3	20.0
291212 2006 AB_{93}	15.4	X	7.93650	193.81597	104.04793	7.25506	0.1558557	0.17183090	3.2043151	20	8 23.2	19.1
291213 2006 AR_{100}	17.8	X	243.91784	299.23771	259.71096	0.61308	0.1153420	0.26318122	2.4115676	20	—	—
291214 2006 AS_{100}	18.0	X	28.26037	155.47790	292.98920	2.04151	0.1488698	0.27384504	2.3485481	20	—	—
291215 2006 AY_{101}	17.4	X	292.66130	70.34510	286.67631	2.77941	0.1761269	0.23969530	2.5666286	20	6 28.9	20.5
291216 2006 AA_{102}	15.8	X	347.15159	228.31133	146.07814	5.59528	0.1526454	0.18170870	3.0871110	20	10 29.5	19.3
291217 2006 AD_{102}	17.2	X	238.39091	243.48349	14.24808	2.61799	0.0915606	0.26766740	2.3845461	20	—	—
291218 2006 AM_{102}	17.6	X	258.43928	196.41327	42.80482	1.88298	0.1377000	0.26718830	2.3873958	20	—	—
291219 2006 AR_{104}	17.4	X	219.13808	175.74327	119.92218	2.98381	0.1729174	0.28041075	2.3117433	20	1 17.6	21.0
291220 2006 BD	16.7	X	251.94355	314.85461	148.03407	5.06145	0.2654529	0.18486825	3.0518358	20	9 6.9	21.4
291221 2006 BK_{1}	17.3	X	158.71435	57.76360	312.12199	4.13612	0.1371007	0.28493865	2.2871877	20	2 19.4	20.6
291222 2006 BL_{5}	15.8	X	137.31032	42.85208	127.79231	6.03774	0.1239769	0.17287726	3.1913722	20	8 21.8	20.7
291223 2006 BM_{5}	16.8	X	274.16674	346.83193	134.18628	10.12000	0.1079988	0.25865628	2.4396116	20	12 10.1	19.6
291224 2006 BX_{6}	17.2	X	313.11333	76.86927	128.44184	3.25951	0.1674933	0.27674295	2.3321242	20	—	—
291225 2006 BJ_{8}	16.0	X	58.91681	248.76464	330.74339	12.59108	0.0498579	0.22938154	2.6429995	20	7 20.0	19.5
291226 2006 BZ_{10}	17.3	X	196.79090	315.08056	312.73262	7.25661	0.1198388	0.26746678	2.3857384	20	—	—
291227 2006 BW_{16}	16.2	X	262.90606	160.26516	132.72410	7.00437	0.1191551	0.21856310	2.7295108	20	3 7.8	20.2
291228 2006 BU_{19}	17.0	X	333.17679	292.19010	142.14561	5.15901	0.1659301	0.26127787	2.4232653	20	—	—
291229 2006 BH_{20}	17.5	X	93.80417	352.17080	114.64305	3.49040	0.0974157	0.29006276	2.2601715	20	4 7.2	20.0
291230 2006 BR_{22}	17.5	X	343.58290	126.03051	119.85499	2.66243	0.1311159	0.29080313	2.2563337	20	4 20.2	19.5
291231 2006 BW_{23}	15.6	X	258.44702	209.56945	290.68252	7.86577	0.0845112	0.18917057	3.0053865	20	11 24.1	19.8
291232 2006 BA_{25}	16.9	X	75.69043	336.19769	135.89834	5.60716	0.0767435	0.21868816	2.7284701	20	3 22.7	20.4
291233 2006 BO_{29}	17.1	X	308.92478	104.73624	330.31276	6.98400	0.0531704	0.25544222	2.4600330	20	12 1.8	20.1
291234 2006 BK_{30}	15.9	X	294.68763	104.09421	334.00050	5.91474	0.0730217	0.18456620	3.0551645	20	10 25.7	20.0
291235 2006 BP_{30}	17.6	X	167.26976	324.36808	89.24199	3.02972	0.1371676	0.29438161	2.2380112	20	4 27.1	20.8
291236 2006 BG_{31}	15.5	X	211.44678	182.17424	319.02112	8.67457	0.0399630	0.17920377	3.1158123	20	9 30.8	20.1
291237 2006 BG_{33}	16.6	X	195.64673	341.50511	355.23782	6.87558	0.2003756	0.27833921	2.3231992	20	2 18.9	20.4
291238 2006 BU_{34}	16.6	X	156.83317	117.56573	34.89556	1.78356	0.0487173	0.17204683	3.2016333	20	8 16.9	21.4
291239 2006 BY_{36}	15.3	X	332.59604	36.72657	344.46491	8.90062	0.1173806	0.18047573	3.1011553	20	10 6.7	19.2
291240 2006 BE_{39}	15.7	X	179.24726	223.35300	327.31208	4.85629	0.1041292	0.18171222	3.0870711	20	10 23.2	20.6
291241 2006 BQ_{41}	17.2	X	188.87465	219.21600	152.22723	7.62736	0.1099792	0.28532016	2.2851484	20	3 25.1	20.4
291242 2006 BW_{42}	15.3	X	105.04732	155.32588	111.78372	11.42211	0.0690723	0.18189744	3.0849751	20	11 13.1	20.0
291243 2006 BV_{43}	17.5	X	283.01406	124.77585	26.51908	2.53686	0.1511614	0.26175468	2.4203216	20	—	—
291244 2006 BZ_{44}	16.2	X	217.99496	191.09065	154.34521	10.96484	0.0762816	0.21624841	2.7489537	20	3 29.0	20.3
291245 2006 BG_{45}	17.7	X	344.92634	354.44055	148.86339	1.74928	0.1159040	0.27143658	2.3624201	20	—	—
291246 2006 BM_{51}	16.8	X	144.26581	357.56497	18.65947	1.23602	0.0880483	0.21264391	2.7799314	20	2 16.1	20.8
291247 2006 BE_{52}	16.3	X	216.39377	358.16796	99.77905	2.39985	0.1133061	0.17349533	3.1837884	20	8 10.8	21.0
291248 2006 BT_{52}	16.5	X	83.78239	114.34048	117.23433	3.41270	0.0906774	0.16993186	3.2281435	20	9 5.2	21.2
291249 2006 BJ_{53}	16.4	X	47.19401	298.90026	334.47442	4.04776	0.1316565	0.23723613	2.5843352	20	9 25.5	19.7
291250 2006 BB_{54}	16.1	X	222.01692	29.75671	146.12492	4.84930	0.1819638	0.18291634	3.0735083	20	11 13.6	20.9
291251 2006 BM_{54}	13.8	X	5.52060	260.41104	342.12437	10.72321	0.0955922	0.08295149	5.2069883	20	5 28.2	20.4
291252 2006 BP_{54}	16.8	X	221.90681	274.03736	334.51556	6.31574	0.3637621	0.25968574	2.4331599	20	—	—
291253 2006 BT_{54}	16.0	X	312.54529	248.01474	151.75036	13.00548	0.1315922	0.17794001	3.1305475	20	10 2.5	19.8
291254 2006 BU_{54}	16.8	X	312.49845	107.43982	130.50874	4.89663	0.1352950	0.28059052	2.3107558	20	2 15.1	19.4
291255 2006 BZ_{55}	12.9	X	42.96238	27.54985	155.50750	20.82236	0.0447877	0.08167355	5.2611631	20	5 13.0	19.9
291256 2006 BR_{56}	18.0	X	329.60147	106.17841	139.71403	2.68313	0.1110226	0.28897432	2.2658433	20	3 27.7	20.2
291257 2006 BK_{57}	17.4	X	297.20287	95.92072	4.87558	2.35821	0.1680218	0.25922612	2.4360351	20	12 16.9	19.6
291258 2006 BM_{60}	15.4	X	210.94655	125.76065	326.99973	16.38153	0.1590646	0.16935120	3.2355183	20	7 28.8	20.7
291259 2006 BV_{69}	17.0	X	288.27086	169.60500	55.58776	4.51637	0.1558960	0.27508416	2.3414901	20	—	—
291260 2006 BE_{73}	13.8	X	336.12181	269.14918	345.65712	8.34232	0.0873441	0.08476644	5.1323951	20	5 1.0	20.3
291261 2006 BW_{73}	16.3	X	358.64797	335.75248	25.00931	4.44195	0.0757972	0.18135584	3.0911139	20	10 22.7	20.2
291262 2006 BS_{75}	16.9	X	199.41629	39.00706	356.42272	4.16977	0.1596851	0.22896099	2.6462348	20	5 4.5	21.2
291263 2006 BC_{76}	17.2	X	264.00777	263.69910	333.46462	8.27026	0.1656833	0.27256119	2.3559173	20	—	—
291264 2006 BB_{81}	16.3	X	163.38698	271.58849	66.53938	3.05916	0.0709723	0.20338307	2.8636912	20	1 21.6	20.6
291265 2006 BB_{82}	17.6	X	300.41246	226.30546	99.34598	3.31271	0.0713628	0.29655542	2.2270611	20	6 14.1	19.8
291266 2006 BT_{82}	14.6	X	293.42037	252.67480	106.00917	27.12478	0.2164492	0.17811349	3.1285145	20	6 24.9	18.8
291267 2006 BA_{85}	16.6	X	95.55350	165.35826	115.70949	5.77026	0.1091755	0.25129632	2.4870163	20	12 2.9	20.3
291268 2006 BJ_{87}	15.8	X	92.45065	185.97738	117.39275	10.46850	0.1744951	0.18514136	3.0488338	20	12 18.8	20.7
291269 2006 BB_{88}	17.1	X	70.83109	104.60547	121.57522	5.52366	0.1722396	0.23309252	2.6148724	20	9 1.4	20.7
291270 2006 BQ_{89}	16.2	X	283.95131	167.70250	120.04457	6.20761	0.0812551	0.21917889	2.7243960	20	4 1.2	19.9
291271 2006 BR_{90}	16.9	X	2.16754	57.56387	134.07620	5.14625	0.0908477	0.28212890	2.3023482	20	3 6.9	19.1
291272 2006 BM_{91}	17.8	X	63.24510	204.39935	276.25593	1.15110	0.1501039	0.28385892	2.2929839	20	3 15.1	19.8
291273 2006 BE_{92}	17.2	X	324.84401	220.68561	321.12195	4.42295	0.1026275	0.27712880	2.3299590	20	—	—
291274 2006 BA_{97}	17.2	X	225.12037	313.60266	145.14172	4.66869	0.2434312	0.24225916	2.5484879	20	8 12.9	21.2
291275 2006 BF_{97}	17.2	X	139.13990	105.34484	135.34851	3.75369	0.1368332	0.24690287	2.5164325	20	11 26.1	21.2
291276 2006 BE_{98}	13.1	X	298.09615	138.46148	150.98611	31.30540	0.0605002	0.08200238	5.2470888	20	5 5.7	20.3
291277 2006 BJ_{100}	17.4	X	167.71804	86.42891	341.93786	18.58525	0.1190356	0.36464829	1.9403791	20	5 4.6	20.4
291278 2006 BL_{102}	17.6	X	258.42441	74.24564	185.10181	1.96116	0.1712003	0.27476834	2.3432840	20	1 8.7	21.2
291279 2006 BQ_{113}	17.5	X	336.76629	179.70605	88.96876	2.29060	0.2013585	0.29229264	2.2486617	20	5 2.9	18.9
291280 2006 BG_{115}	17.8	X	325.76054	201.20005	235.40694	1.67768	0.1719962	0.25918947	2.4362647	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291281 2006 BQ_{117}	17.9	X	168.34171	335.39603	33.71527	2.11989	0.1101761	0.28626117	2.2801378	20	2 28.0	21.1
291282 2006 BU_{118}	17.5	X	276.42872	223.61424	187.53902	2.04746	0.1049440	0.24282849	2.5445029	20	8 31.8	20.4
291283 2006 BA_{119}	17.3	X	217.71712	282.04582	342.63162	2.48874	0.1707844	0.27148948	2.3621132	20	—	—
291284 2006 BO_{120}	17.6	X	303.96018	20.58730	184.67291	3.44519	0.1317938	0.27365891	2.3496129	20	—	—
291285 2006 BQ_{122}	17.3	X	124.31428	14.19461	204.03148	0.40407	0.0800539	0.24176332	2.5519712	20	10 11.2	20.9
291286 2006 BU_{125}	16.4	X	166.82441	314.88949	341.19863	10.16276	0.0930713	0.19475806	2.9476263	20	—	—
291287 2006 BP_{126}	16.4	X	194.58015	20.77934	331.91578	5.79562	0.0313620	0.21312761	2.7757237	20	3 9.4	20.4
291288 2006 BA_{127}	17.3	X	132.56818	299.37080	322.99797	6.06619	0.1218078	0.25054488	2.4919865	20	12 16.0	21.3
291289 2006 BK_{127}	17.2	X	142.05666	357.60343	323.36819	5.85408	0.0936833	0.26548670	2.3975860	20	—	—
291290 2006 BW_{129}	18.3	X	47.55516	81.36123	165.94501	4.67869	0.1289697	0.29979001	2.2110129	20	8 29.7	20.5
291291 2006 BH_{130}	15.5	X	122.96334	68.96434	158.79785	5.69716	0.1226448	0.17256338	3.1952410	20	10 15.9	20.5
291292 2006 BO_{130}	17.6	X	342.97215	182.75070	311.29615	2.48364	0.1437938	0.26930586	2.3748646	20	—	—
291293 2006 BT_{130}	16.8	X	102.90273	154.02603	159.65560	1.20530	0.1690618	0.25449625	2.4661252	20	—	—
291294 2006 BZ_{132}	17.4	X	286.61608	22.80596	208.26968	1.71521	0.1711532	0.27260206	2.3556818	20	1 1.6	20.9
291295 2006 BF_{135}	17.8	X	150.71940	268.24054	115.23704	3.60248	0.0418365	0.28353963	2.2947050	20	2 19.6	20.7
291296 2006 BA_{137}	17.2	X	298.66413	177.81485	330.30730	4.80760	0.0904650	0.26513768	2.3996897	20	—	—
291297 2006 BS_{138}	12.8	X	266.18406	350.05625	332.87037	18.33058	0.1064963	0.08232997	5.2331609	20	4 15.7	20.1
291298 2006 BE_{139}	16.4	X	187.43689	29.68949	313.09539	3.46983	0.0818685	0.20896574	2.8124577	20	2 20.2	20.7
291299 2006 BV_{140}	15.0	X	233.41692	303.26050	155.57783	27.41594	0.1745880	0.17721777	3.1390473	20	8 22.8	19.8
291300 2006 BZ_{141}	17.1	X	165.64855	14.82410	345.10052	4.79044	0.0761598	0.21445840	2.7642289	20	2 18.4	21.2
291301 2006 BC_{142}	13.0	X	19.08929	254.87329	323.98681	18.08848	0.0265874	0.08443146	5.1459612	20	5 13.2	20.0
291302 2006 BE_{142}	15.7	X	250.83048	301.78003	170.37577	7.22854	0.0863853	0.18029772	3.1031962	20	10 11.4	20.0
291303 2006 BF_{145}	17.5	X	10.08310	305.40507	197.55132	4.19586	0.1710638	0.27786680	2.3258316	20	—	—
291304 2006 BF_{147}	16.7	X	272.54734	57.70712	73.76439	0.88415	0.1513599	0.18800252	3.0178218	20	11 23.8	20.6
291305 2006 BS_{149}	16.7	X	290.82097	71.82247	45.51808	6.83365	0.1048572	0.26065408	2.4271300	20	—	—
291306 2006 BT_{151}	16.9	X	75.86238	356.70153	46.99927	2.45340	0.0717360	0.20409090	2.8570661	20	—	—
291307 2006 BE_{152}	16.7	X	166.96330	202.88333	74.45056	3.40325	0.2053657	0.26074082	2.4265916	20	—	—
291308 2006 BS_{153}	16.3	X	354.17685	27.87975	358.93759	2.91929	0.0795510	0.18500922	3.0502854	20	11 18.7	20.1
291309 2006 BF_{154}	17.1	X	62.15597	194.19217	16.08124	2.07029	0.1562443	0.22722325	2.6597095	20	7 26.5	20.5
291310 2006 BO_{156}	16.4	X	309.19040	334.42006	356.02807	5.22163	0.1478817	0.22949131	2.6421566	20	6 22.3	19.4
291311 2006 BV_{156}	18.0	X	322.96372	78.09545	33.03186	1.84017	0.1435545	0.26213544	2.4179773	20	—	—
291312 2006 BE_{158}	17.4	X	108.01154	235.59905	144.67461	6.73635	0.1417601	0.27232126	2.3573009	20	1 5.1	20.1
291313 2006 BV_{158}	16.6	X	317.61703	333.50916	115.21842	3.91335	0.0599823	0.18802688	3.0175612	20	12 14.9	20.6
291314 2006 BC_{163}	16.3	X	34.81136	226.75385	137.40000	2.21024	0.0923917	0.18858770	3.0115758	20	12 19.3	20.3
291315 2006 BA_{165}	17.2	X	46.21924	221.33146	156.37247	6.05690	0.1110147	0.26004478	2.4309197	20	—	—
291316 2006 BE_{167}	13.3	X	313.50166	131.94202	149.33928	25.43078	0.0810233	0.08324521	5.1947329	20	5 12.1	20.3
291317 2006 BT_{168}	17.7	X	39.92895	221.68131	349.97796	2.30431	0.1015377	0.29248428	2.2476794	20	6 16.1	19.9
291318 2006 BQ_{169}	17.6	X	249.65936	318.25331	332.57649	1.73454	0.2087963	0.27699587	2.3307044	20	2 6.4	21.3
291319 2006 BV_{170}	17.1	X	221.77364	173.72391	130.20238	7.43127	0.1293662	0.28125088	2.3071374	20	1 30.6	20.6
291320 2006 BT_{171}	17.7	X	44.17690	128.35417	260.20481	0.40196	0.1888578	0.26801440	2.3824875	20	—	—
291321 2006 BB_{176}	17.3	X	358.29426	68.52087	82.74469	4.04615	0.1185623	0.27689205	2.3312869	20	—	—
291322 2006 BM_{182}	16.3	X	237.78900	220.16844	17.53671	1.95931	0.0472794	0.19915294	2.9041000	20	—	—
291323 2006 BQ_{183}	17.1	X	279.87269	158.37407	44.53638	2.91384	0.1583468	0.27038746	2.3685270	20	—	—
291324 2006 BL_{186}	16.2	X	85.04626	267.29540	317.39244	10.75812	0.1364972	0.23357895	2.6112408	20	9 6.5	20.1
291325 de Tyard	17.1	X	106.31112	63.34030	143.14189	5.25334	0.1368985	0.23580847	2.5947556	20	9 11.2	20.9
291326 2006 BR_{191}	17.6	X	276.22127	146.80484	41.50521	1.59417	0.1310518	0.26765256	2.3846343	20	—	—
291327 2006 BQ_{194}	13.5	X	313.69546	345.97563	294.67888	5.56910	0.1127519	0.08402424	5.1625742	20	4 29.4	20.1
291328 2006 BZ_{195}	16.6	X	321.87979	344.41227	296.50239	4.00993	0.1562380	0.22218880	2.6997358	20	4 30.4	19.9
291329 2006 BW_{197}	17.3	X	8.61075	168.27937	240.93095	2.65157	0.1593752	0.26203442	2.4185988	20	—	—
291330 2006 BW_{199}	16.4	X	247.19244	10.84126	130.37244	2.63142	0.1142206	0.18256400	3.0774614	20	11 7.7	20.6
291331 2006 BX_{203}	17.9	X	7.54528	291.60473	252.23221	2.13160	0.0908234	0.28554343	2.2839571	20	3 1.4	20.2
291332 2006 BA_{205}	17.2	X	217.03705	164.06714	124.73352	3.15890	0.1933707	0.27219015	2.3580578	20	1 8.4	21.1
291333 2006 BL_{205}	17.2	X	152.14322	182.56103	124.32289	3.44472	0.1951752	0.26426877	2.4049469	20	—	—
291334 2006 BG_{214}	16.8	X	349.09180	272.04036	285.02925	6.82815	0.0968914	0.28131739	2.3067737	20	2 16.4	19.3
291335 2006 BQ_{214}	17.3	X	43.76621	161.98394	304.58699	11.81200	0.1913481	0.27755294	2.3275847	20	1 17.8	18.8
291336 2006 BE_{215}	15.6	X	210.68621	6.15326	127.74809	10.36858	0.0999281	0.17844644	3.1246218	20	9 22.6	20.4
291337 2006 BS_{216}	15.4	X	217.76393	86.25379	343.75113	8.03879	0.0638914	0.16773627	3.2562524	20	7 13.7	20.3
291338 2006 BC_{217}	15.7	X	319.48662	333.74264	78.94004	7.32936	0.0811762	0.18681601	3.0305863	20	11 3.4	19.5
291339 2006 BU_{217}	16.1	X	66.36480	305.37296	266.20853	10.71975	0.2375230	0.22844371	2.6502281	20	8 10.4	19.9
291340 2006 BR_{218}	16.6	X	196.53560	196.05216	95.25543	3.78807	0.1662352	0.27269770	2.3551310	20	—	—
291341 2006 BQ_{219}	15.4	X	274.42901	52.99202	105.94675	9.72924	0.1034602	0.18984135	2.9983029	20	—	—
291342 2006 BE_{221}	17.6	X	186.55316	161.07313	111.16851	1.94217	0.1870110	0.26454663	2.4032626	20	—	—
291343 2006 BH_{223}	17.7	X	202.18009	109.00170	311.07654	2.43617	0.2226943	0.23401079	2.6080273	20	6 5.9	22.1
291344 2006 BO_{223}	15.6	X	353.87347	110.90894	314.31193	1.34229	0.2616339	0.12627885	3.9347363	20	—	—
291345 2006 BW_{228}	17.9	X	353.10336	16.67353	63.05486	2.39254	0.1446375	0.26629160	2.3927523	20	—	—
291346 2006 BH_{230}	15.3	X	151.56334	108.21218	117.89427	14.38104	0.1649119	0.18065466	3.0991072	20	11 13.9	20.6
291347 2006 BP_{238}	16.9	X	177.16243	347.08806	355.20635	4.07290	0.0829652	0.21180884	2.7872333	20	2 10.3	21.2
291348 2006 BH_{242}	13.5	X	295.56796	279.75236	12.32709	4.56194	0.0623170	0.08414361	5.1576907	20	4 27.4	20.3
291349 2006 BA_{248}	16.3	X	30.40034	325.61304	119.56455	3.15234	0.0407593	0.20109736	2.8853498	20	—	—
291350 2006 BV_{248}	16.0	X	161.73976	122.08914	63.40834	2.14318	0.1063239	0.17472338	3.1688526	20	10 2.1	20.9
291351 2006 BH_{249}	16.4	X	278.76083	19.79675	39.57111	2.19648	0.0608602	0.17543271	3.1603050	20	9 13.6	20.7
291352 2006 BP_{249}	15.1	X	274.15974	263.02184	140.10844	12.48992	0.0342054	0.17370356	3.1812435	20	8 21.1	19.4
291353 2006 BZ_{252}	17.5	X	186.32429	292.04817	291.56289	1.88992	0.1340058	0.25428421	2.4674960	20	12 21.8	21.0
291354 2006 BT_{254}	17.7	X	357.03280	77.94878	149.04100	2.84334	0.0841394	0.28893285	2.2660601	20	4 20.4	19.9
291355 2006 BT_{257}	17.8	X	15.38498	77.26110	14.31615	3.00378	0.1396108	0.26974103	2.3723097	20	—	—
291356 2006 BW_{258}	18.1	X	12.25057	9.04427	101.80773	2.17373	0.1431121	0.27205899	2.3588156	20	—	—
291357 2006 BE_{259}	16.9	X	35.24430	192.21183	118.31103	3.33560	0.0743959	0.24285597	2.5443110	20	10 23.9	20.1
291358 2006 BX_{259}	16.7	X	80.08277	314.46004	279.37237	3.47072	0.1493964	0.23545593	2.5973449	20	9 16.1	20.5
291359 2006 BB_{260}	17.4	X	159.23984	63.16067	338.91782	7.86808	0.1294602	0.28811685	2.2703367	20	3 30.1	20.8
291360 2006 BV_{261}	16.5	X	49.44511	179.75323	111.95283	2.57506	0.0952073	0.24167376	2.5526016	20	10 20.8	19.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291361 2006 BW_{261}	16.4	X	280.33201	190.76765	146.59147	14.34665	0.1733638	0.22727501	2.6593056	20	5 19.2	20.3
291362 2006 BJ_{262}	18.2	X	50.47056	150.14667	109.00256	2.55135	0.1163539	0.30355417	2.1926968	20	9 21.1	20.5
291363 2006 BD_{263}	17.9	X	125.07293	105.40635	120.44770	4.00169	0.1466458	0.24124278	2.5556409	20	10 26.1	22.0
291364 2006 BP_{263}	16.0	X	143.75485	130.42861	139.53247	8.32997	0.0114926	0.18639669	3.0351297	20	12 24.1	20.4
291365 2006 BB_{264}	16.8	X	191.42104	140.57358	128.21944	6.05815	0.1641737	0.26131081	2.4230617	20	—	—
291366 2006 BQ_{265}	16.3	X	117.25089	157.89569	149.42055	7.60875	0.1564659	0.25653350	2.4530515	20	—	—
291367 2006 BR_{265}	17.9	X	295.93386	203.24780	334.83536	2.05116	0.1395680	0.26690510	2.3890843	20	—	—
291368 2006 BG_{268}	15.2	X	248.67326	140.18544	347.72777	27.33873	0.1201203	0.18226739	3.0807993	20	10 9.5	19.9
291369 2006 BA_{274}	17.6	X	94.91669	63.64123	337.45814	5.45900	0.1611888	0.27480272	2.3430885	20	1 18.3	20.1
291370 2006 BV_{274}	17.4	X	145.00352	170.22002	339.45274	2.00583	0.1185362	0.23202390	2.6228950	20	8 6.9	21.4
291371 2006 BJ_{275}	16.9	X	284.33937	53.20527	163.86745	6.28013	0.0527264	0.27433435	2.3457547	20	—	—
291372 2006 BA_{276}	16.5	X	98.00919	350.09303	335.54454	6.70078	0.1867451	0.25449231	2.4661507	20	—	—
291373 2006 BD_{276}	16.5	X	180.01031	60.53603	156.30480	1.59348	0.1222555	0.18208686	3.0828352	20	11 25.1	21.4
291374 2006 BQ_{276}	18.8	X	144.13755	275.51126	321.18896	2.67614	0.0559695	0.31735223	2.1286700	20	12 11.7	21.4
291375 2006 BG_{281}	16.3	X	200.90754	215.81475	144.39361	10.62506	0.2521639	0.21740679	2.7391804	20	3 27.4	21.2
291376 2006 BX_{281}	16.2	X	93.77907	108.90373	157.07645	10.17044	0.0619694	0.17441213	3.1726215	20	10 27.6	21.0
291377 2006 BN_{282}	16.6	X	44.83780	336.80916	75.91963	3.14626	0.0729855	0.19864545	2.9090441	20	—	—
291378 2006 CV_{7}	16.2	X	330.94964	351.78598	323.79789	11.23229	0.0565188	0.23133536	2.6280969	20	7 20.1	19.4
291379 2006 CU_{12}	15.4	X	75.66097	116.72572	137.99261	18.77201	0.1223578	0.17200330	3.2021736	20	10 2.8	20.3
291380 2006 CW_{12}	17.1	X	291.29234	168.96888	137.82885	4.56534	0.1272764	0.29389835	2.2404639	20	4 24.2	19.6
291381 2006 CJ_{13}	15.8	X	252.08369	269.50826	142.58065	5.88856	0.1583328	0.17174277	3.2054111	20	7 17.3	20.6
291382 2006 CY_{20}	17.0	X	303.49976	320.65012	287.92026	4.37170	0.1098703	0.28416613	2.2913311	20	2 18.7	19.9
291383 2006 CO_{28}	15.6	X	39.91242	211.95826	136.26864	11.73957	0.1173992	0.18775250	3.0205004	20	12 11.3	19.9
291384 2006 CF_{29}	17.5	X	282.59332	240.31298	302.59079	4.10526	0.1470342	0.26654216	2.3912525	20	—	—
291385 2006 CZ_{32}	12.8	X	304.05951	356.33526	289.49571	9.18926	0.0724516	0.08347303	5.1852764	20	4 26.9	19.6
291386 2006 CF_{33}	17.0	X	330.86746	167.18524	343.70108	5.99657	0.0519649	0.27371132	2.3493130	20	—	—
291387 2006 CN_{36}	17.4	X	256.38688	136.10437	117.19834	4.67126	0.1205983	0.27438282	2.3454784	20	1 2.8	20.6
291388 2006 CM_{38}	15.9	X	55.33256	269.80243	324.16067	11.21603	0.1037074	0.23001963	2.6381093	20	8 10.4	19.1
291389 2006 CO_{42}	16.4	X	117.62870	14.35069	299.27477	5.92345	0.1404845	0.25707805	2.4495862	20	—	—
291390 2006 CG_{43}	13.7	X	149.85081	237.21932	198.81541	8.95494	0.0193848	0.08154032	5.2668924	20	5 6.3	20.7
291391 2006 CN_{45}	17.1	X	224.54646	149.13879	118.23252	6.64090	0.0761344	0.27353060	2.3503476	20	—	—
291392 2006 CJ_{46}	17.5	X	199.54975	304.38608	354.79162	2.72380	0.1682614	0.27462589	2.3440942	20	1 5.7	21.1
291393 2006 CP_{46}	18.1	X	16.69069	6.06400	51.82049	2.19803	0.1731222	0.26713545	2.3877106	20	—	—
291394 2006 CG_{47}	18.2	X	297.18726	167.79809	29.98653	1.72380	0.1280923	0.27230369	2.3574023	20	—	—
291395 2006 CX_{47}	18.0	X	264.58089	5.83872	183.64776	1.39059	0.0540875	0.26549391	2.3975427	20	—	—
291396 2006 CT_{49}	17.4	X	306.77553	257.57427	318.36640	4.60294	0.0967158	0.27808483	2.3246158	20	1 15.1	20.2
291397 2006 CM_{56}	15.3	X	242.82879	148.52132	160.48873	5.69956	0.0242227	0.14697326	3.5561262	20	3 20.3	20.5
291398 2006 CH_{57}	18.2	X	168.30835	178.72562	314.87308	0.80344	0.1207690	0.30488279	2.1863219	20	8 15.4	21.3
291399 2006 CD_{60}	17.7	X	123.71995	238.64755	189.10497	5.88227	0.1004275	0.28663743	2.2781419	20	3 22.5	20.3
291400 2006 CN_{60}	15.7	X	277.41199	85.98935	54.33515	12.24176	0.0503677	0.19289406	2.9665851	20	12 24.9	19.8
291401 2006 CB_{61}	16.3	X	169.99740	264.31977	154.39080	17.33697	0.2668417	0.22879744	2.6474958	20	5 14.9	21.3
291402 2006 CU_{61}	16.8	X	295.84264	162.81873	49.74363	4.17203	0.1887098	0.27197958	2.3592747	20	—	—
291403 2006 CL_{65}	17.3	X	358.60777	258.15070	177.73121	6.41544	0.1140960	0.26209624	2.4182184	20	—	—
291404 2006 CV_{65}	16.9	X	163.84230	80.13675	77.69066	4.32469	0.2116213	0.23571958	2.5954078	20	9 6.8	21.4
291405 2006 CH_{68}	16.6	X	277.94603	290.12451	304.16368	20.46181	0.1966062	0.27705072	2.3303967	20	—	—
291406 2006 DP_{1}	17.1	X	209.82472	79.76689	37.63839	3.71663	0.1452128	0.24242867	2.5472998	20	9 1.8	20.9
291407 2006 DY_{2}	16.3	X	270.87297	21.81511	335.25144	13.54561	0.2674794	0.23087744	2.6315707	20	5 11.1	20.5
291408 2006 DK_{3}	16.4	X	72.56801	270.85939	315.94413	4.86245	0.1620293	0.23212105	2.6221631	20	8 31.1	19.9
291409 2006 DP_{3}	17.7	X	271.96620	41.58081	174.00352	5.16471	0.1737342	0.26792895	2.3829941	20	—	—
291410 2006 DG_{4}	15.3	X	237.61423	326.32404	162.08420	10.45015	0.0926126	0.17809497	3.1287313	20	10 15.5	19.9
291411 2006 DZ_{5}	17.4	X	321.24172	158.76681	42.51359	3.43725	0.1421682	0.27549471	2.3391633	20	1 8.0	20.2
291412 2006 DC_{6}	15.2	X	247.30077	329.60908	134.49829	16.06570	0.0455703	0.17685629	3.1433233	20	10 6.5	19.9
291413 2006 DK_{7}	16.8	X	184.28352	39.09923	177.16783	0.99836	0.0936512	0.18141539	3.0904375	20	11 29.9	21.4
291414 2006 DG_{8}	15.7	X	210.86626	334.33211	176.07356	10.68234	0.1786868	0.17563435	3.1578857	20	10 2.8	20.7
291415 2006 DA_{9}	16.7	X	217.28709	123.90606	77.26398	7.91584	0.0676353	0.25614372	2.4555394	20	—	—
291416 2006 DX_{9}	16.2	X	97.48460	178.64650	0.03849	12.31765	0.0281781	0.22943090	2.6426204	20	7 13.8	20.0
291417 2006 DV_{11}	17.1	X	284.61114	323.52472	162.36223	5.01597	0.0605043	0.26039166	2.4287604	20	—	—
291418 2006 DD_{12}	15.9	X	240.48358	301.00362	145.73774	4.78408	0.0883898	0.17508005	3.1645475	20	8 26.3	20.5
291419 2006 DL_{12}	15.6	X	164.67663	68.98361	153.42126	10.35669	0.1895372	0.17707736	3.1407065	20	11 17.3	21.0
291420 2006 DN_{12}	16.5	X	24.10733	262.19994	345.70918	10.90607	0.1668009	0.22399758	2.6851826	20	7 21.8	19.5
291421 2006 DP_{12}	17.4	X	67.83788	312.97806	157.74981	4.25032	0.1613803	0.28188534	2.3036742	20	3 11.9	19.6
291422 2006 DN_{14}	17.0	X	46.10167	37.09013	125.08395	4.49628	0.1153764	0.28419977	2.2911502	20	4 14.8	19.1
291423 2006 DM_{15}	17.2	X	216.48321	160.69208	120.47540	4.73623	0.1697167	0.27056422	2.3674954	20	—	—
291424 2006 DZ_{22}	16.9	X	134.85552	222.44313	68.79286	2.16642	0.1694983	0.25445480	2.4663930	20	—	—
291425 2006 DX_{23}	16.5	X	26.57496	338.17755	134.37118	2.94921	0.0194264	0.20286575	2.8685576	20	1 11.4	20.5
291426 2006 DL_{25}	16.5	X	186.44367	144.65747	136.12686	2.77026	0.0349336	0.19619259	2.9332404	20	—	—
291427 2006 DH_{26}	17.1	X	192.00800	260.48485	5.74120	5.17923	0.1450928	0.26293442	2.4130765	20	—	—
291428 2006 DC_{27}	17.6	X	268.98142	353.92973	156.25932	2.92315	0.1455763	0.25645369	2.4535604	20	—	—
291429 2006 DD_{27}	13.5	X	262.85533	331.90609	3.36202	5.00978	0.0266485	0.08072358	5.3023585	20	5 13.1	20.5
291430 2006 DO_{27}	17.1	X	20.73155	330.35609	158.27205	5.80939	0.1652193	0.27498072	2.3420773	20	—	—
291431 2006 DT_{27}	17.4	X	218.43955	326.41006	157.02677	5.25583	0.2038299	0.24367200	2.5386274	20	9 11.6	21.2
291432 2006 DV_{28}	16.9	X	214.62179	207.91553	153.29244	7.36426	0.1200314	0.28526290	2.2854542	20	4 8.3	20.3
291433 2006 DY_{29}	16.5	X	62.27043	209.15749	172.98703	10.70364	0.0972281	0.19133242	2.9827053	20	—	—
291434 2006 DG_{30}	17.4	X	127.86772	194.79717	181.33188	2.42278	0.0754603	0.27237524	2.3569894	20	1 16.2	20.3
291435 2006 DV_{31}	16.8	X	259.29727	340.47031	174.10891	0.97897	0.2599378	0.18676246	3.0311656	20	11 18.2	20.7
291436 2006 DX_{31}	15.6	X	152.23727	63.10488	168.52252	10.04565	0.0982766	0.17749934	3.1357268	20	11 17.8	20.6
291437 2006 DO_{32}	13.4	X	308.87080	300.60212	353.20312	4.23900	0.0362816	0.08093071	5.2933078	20	5 18.0	20.3
291438 2006 DQ_{32}	16.9	X	110.23408	190.22982	344.44091	4.46040	0.1680573	0.22909134	2.6452310	20	8 7.4	21.0
291439 2006 DP_{33}	17.2	X	30.70067	290.93769	170.24595	6.81869	0.0685635	0.26987368	2.3715322	20	—	—
291440 2006 DQ_{33}	16.5	X	63.88679	254.99967	0.11716	5.00710	0.0641703	0.23372085	2.6101838	20	9 14.2	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291441 2006 DG_{34}	17.4	X	206.75260	102.13318	167.55623	9.03885	0.2137424	0.26058662	2.4275488	20	—	—
291442 2006 DK_{34}	16.1	X	24.94503	257.19075	168.98824	10.93687	0.0549973	0.19172924	2.9785884	20	—	—
291443 2006 DQ_{35}	17.0	X	235.17192	166.91542	179.08359	6.47183	0.1781225	0.28421948	2.2910443	20	4 4.4	20.4
291444 2006 DW_{35}	17.4	X	150.71107	158.40466	358.36890	4.35980	0.0964232	0.23322093	2.6139124	20	8 22.4	21.2
291445 2006 DK_{36}	17.6	X	8.04860	275.21002	358.02891	4.27986	0.1420856	0.29383128	2.2408048	20	8 1.1	19.3
291446 2006 DY_{37}	17.5	X	108.48551	207.65212	355.15598	5.10557	0.1931298	0.30091847	2.2054818	20	9 18.8	20.6
291447 2006 DH_{40}	16.2	X	169.40567	215.51802	296.74191	12.56611	0.1393768	0.23879348	2.5730866	20	8 29.7	20.4
291448 2006 DU_{40}	17.1	X	98.46209	5.03980	158.59571	5.25858	0.0999963	0.29429773	2.2384365	20	7 4.0	19.9
291449 2006 DF_{42}	16.8	X	99.40723	268.19241	142.84577	5.07659	0.0709627	0.21228474	2.7830661	20	2 2.8	20.4
291450 2006 DB_{45}	17.5	X	330.67244	59.11236	82.26566	2.39734	0.1276845	0.26753160	2.3853530	20	—	—
291451 2006 DD_{46}	16.7	X	39.75310	241.15672	2.16753	4.75365	0.1575057	0.22560979	2.6723751	20	8 8.9	19.9
291452 2006 DG_{47}	18.0	X	329.75437	275.75219	171.54599	2.59672	0.1638176	0.26078972	2.4262883	20	—	—
291453 2006 DC_{48}	17.0	X	6.82806	98.02278	300.91246	0.49865	0.0659216	0.18739102	3.0243835	20	12 21.5	20.9
291454 2006 DE_{48}	17.5	X	327.93612	145.15582	332.05074	4.20440	0.1854769	0.26503357	2.4003181	20	—	—
291455 2006 DV_{50}	17.6	X	240.88676	34.22254	200.16175	3.13560	0.1464427	0.26926719	2.3750919	20	—	—
291456 2006 DE_{51}	16.6	X	341.92744	45.70794	160.78562	6.87850	0.0516699	0.28015608	2.3131441	20	2 27.1	19.2
291457 2006 DJ_{52}	16.1	X	177.55138	243.88871	71.97103	3.00460	0.0572290	0.20098488	2.8864262	20	1 9.2	20.4
291458 2006 DY_{52}	17.7	X	293.22338	31.25164	207.20335	1.79956	0.1653666	0.27448862	2.3448757	20	1 18.2	20.9
291459 2006 DP_{54}	17.9	X	298.39921	231.79075	153.29966	2.88151	0.0618800	0.30679026	2.1772502	20	9 16.1	20.0
291460 2006 DL_{58}	17.3	X	12.72887	86.61374	178.30741	4.66587	0.1064339	0.29454144	2.2372015	20	7 20.9	19.3
291461 2006 DY_{59}	17.5	X	273.71489	263.14687	335.66199	1.28716	0.1410207	0.26901217	2.3765927	20	1 1.8	21.1
291462 2006 DY_{60}	17.9	X	323.88708	12.34790	170.77168	2.86593	0.1079021	0.27056830	2.3674716	20	—	—
291463 2006 DA_{61}	16.0	X	308.39235	295.80064	185.83987	10.04404	0.0965888	0.18775648	3.0204577	20	—	—
291464 2006 DH_{64}	16.1	X	201.19478	56.61388	35.79282	12.74948	0.1389585	0.23601471	2.5932438	20	7 24.0	20.3
291465 2006 DF_{66}	15.4	X	198.07594	165.09460	43.79542	9.87545	0.0783158	0.18523785	3.0477750	20	12 6.2	20.1
291466 2006 DE_{69}	16.8	X	288.48587	178.79895	54.24140	8.60243	0.0624499	0.27712046	2.3300058	20	1 20.9	19.9
291467 2006 DS_{73}	17.2	X	135.89292	290.20895	153.35566	6.56131	0.1684955	0.29058014	2.2574879	20	5 7.9	20.5
291468 2006 DG_{75}	17.2	X	107.51449	163.39831	130.73741	5.48840	0.2152980	0.25217017	2.4812674	20	—	—
291469 2006 DR_{81}	16.2	X	102.09740	172.89771	171.19166	11.08613	0.0354311	0.19111411	2.9849763	20	—	—
291470 2006 DE_{83}	16.8	X	320.61394	93.55142	302.48136	1.18322	0.0018156	0.24333787	2.5409507	20	10 25.3	20.1
291471 2006 DY_{83}	13.7	X	182.06312	232.71598	184.49080	7.55511	0.0461953	0.08245826	5.2277314	20	5 20.2	20.9
291472 2006 DV_{85}	16.1	X	55.41634	150.23314	167.77423	12.88351	0.0395165	0.17650783	3.1474588	20	11 11.8	20.7
291473 2006 DF_{86}	17.4	X	178.24442	197.68315	121.10059	2.26858	0.1984953	0.26718917	2.3873906	20	1 12.7	21.0
291474 2006 DR_{87}	16.9	X	279.69614	212.91561	23.33575	4.33955	0.2173485	0.26972642	2.3723953	20	—	—
291475 2006 DW_{88}	17.7	X	195.16770	249.93707	23.77147	1.63013	0.1645981	0.26099120	2.4250395	20	—	—
291476 2006 DU_{89}	16.6	X	7.02880	282.35953	311.60568	2.02137	0.0161395	0.22209627	2.7004857	20	5 18.8	20.2
291477 2006 DC_{90}	17.0	X	22.98515	131.31240	162.58951	3.28134	0.1517845	0.23166659	2.6255912	20	9 21.1	19.8
291478 2006 DP_{92}	16.5	X	115.84317	54.45428	218.81551	0.68907	0.0369050	0.17911278	3.1168675	20	11 25.4	21.1
291479 2006 DB_{93}	17.3	X	74.97577	111.98251	172.67414	5.71733	0.2164530	0.23793587	2.5792658	20	11 24.2	21.4
291480 2006 DU_{93}	15.8	X	29.17985	244.51747	0.60333	11.19061	0.0314826	0.22463574	2.6800948	20	7 9.1	19.5
291481 2006 DX_{93}	18.0	X	64.75077	77.62882	169.53572	4.10667	0.0768540	0.30080731	2.2060251	20	9 15.7	20.6
291482 2006 DJ_{96}	16.4	X	177.96903	40.02671	169.71826	1.10290	0.1310914	0.17610786	3.1522227	20	11 13.5	21.4
291483 2006 DJ_{99}	16.6	X	186.45268	72.96153	174.55804	3.55258	0.1321287	0.18841273	3.0134400	20	—	—
291484 2006 DK_{102}	15.5	X	168.48625	68.48903	121.70677	2.67188	0.1685176	0.17419333	3.1752776	20	10 13.1	20.7
291485 2006 DU_{103}	13.3	X	227.36797	3.40252	2.73171	6.64416	0.0426971	0.08126305	5.2788661	20	5 6.9	20.4
291486 2006 DP_{107}	15.9	X	291.15953	266.00888	172.72198	10.08755	0.0964246	0.17814065	3.1281965	20	10 22.3	20.0
291487 2006 DF_{109}	17.4	X	134.83852	113.82005	209.11405	2.13651	0.0928147	0.26089943	2.4256081	20	—	—
291488 2006 DJ_{109}	17.2	X	327.08641	270.43896	334.57993	6.29145	0.0771689	0.28269354	2.2992814	20	3 24.6	19.7
291489 2006 DQ_{109}	16.9	X	183.46374	15.38883	272.42866	1.79050	0.1172069	0.26246780	2.4159357	20	—	—
291490 2006 DS_{117}	16.8	X	104.48813	168.71889	97.55428	2.16326	0.0754763	0.24238329	2.5476177	20	11 19.5	20.3
291491 2006 DA_{118}	16.9	X	338.53561	57.76584	6.15332	6.02921	0.1036374	0.25238633	2.4798505	20	—	—
291492 2006 DU_{119}	16.3	X	147.32628	192.99150	49.02355	9.74825	0.0621682	0.25188244	2.4831567	20	12 6.5	19.9
291493 2006 DH_{120}	16.9	X	320.76277	60.11084	143.61081	7.58354	0.0529701	0.27580641	2.3374006	20	1 23.5	19.6
291494 2006 DQ_{120}	14.7	X	207.88735	75.17099	32.13202	18.79748	0.1100215	0.16874855	3.2432171	20	8 22.4	20.0
291495 2006 DA_{131}	13.4	X	255.01987	223.86621	111.88105	7.81670	0.0787503	0.08100169	5.2902150	20	5 2.9	20.5
291496 2006 DA_{139}	16.5	X	307.75475	206.71315	25.81039	5.73861	0.0687819	0.27802051	2.3249743	20	2 14.2	19.3
291497 2006 DH_{140}	15.9	X	355.05497	294.28295	143.50781	10.67077	0.0701986	0.19047886	2.9916092	20	—	—
291498 2006 DT_{142}	16.0	X	341.59811	27.87274	17.78352	5.18500	0.1578396	0.18400339	3.0613913	20	11 27.4	19.4
291499 2006 DU_{143}	17.1	X	292.22473	254.97601	149.10149	4.41318	0.1484264	0.24349803	2.5398364	20	9 11.4	19.7
291500 2006 DR_{147}	17.7	X	220.15062	334.04116	312.14024	1.42497	0.1644392	0.26818970	2.3814492	20	1 8.6	21.5
291501 2006 DL_{154}	16.9	X	121.16692	127.00603	197.10606	5.62644	0.1333109	0.25699802	2.4500947	20	—	—
291502 2006 DC_{155}	17.3	X	186.83553	301.67627	195.62630	7.29764	0.1259580	0.23768460	2.5810833	20	8 31.8	21.3
291503 2006 DX_{155}	16.7	X	249.81079	37.32585	109.30008	3.14120	0.1248023	0.18463131	3.0544462	20	11 16.3	21.0
291504 2006 DN_{156}	16.9	X	98.09651	307.42411	35.07185	1.85071	0.2007748	0.25944316	2.4346763	20	—	—
291505 2006 DE_{174}	16.3	X	205.90983	86.22367	69.70164	2.24152	0.1071129	0.17582294	3.1556272	20	10 10.5	21.0
291506 2006 DM_{174}	17.3	X	283.41283	177.90536	48.20685	1.86480	0.1382811	0.27040155	2.3684448	20	—	—
291507 2006 DE_{178}	17.3	X	320.29107	152.35209	137.16418	3.61195	0.1701489	0.28919729	2.2646786	20	5 8.5	19.4
291508 2006 DK_{186}	16.0	X	213.02611	314.31402	11.04787	16.19840	0.2564687	0.20355224	2.8621043	20	2 28.6	21.2
291509 2006 DM_{191}	17.0	X	70.19739	269.05524	22.18653	10.01264	0.1993903	0.23787889	2.5796777	20	11 22.6	21.0
291510 2006 DJ_{192}	16.9	X	66.60069	196.13494	47.05002	4.21748	0.2436532	0.22785626	2.6547812	20	9 27.7	20.8
291511 2006 DS_{195}	15.0	X	249.85548	58.10123	357.15757	18.34071	0.1305626	0.16954432	3.2330609	20	7 29.3	20.0
291512 2006 DL_{198}	17.6	X	207.11330	121.47952	127.31792	3.15713	0.1759244	0.26114085	2.4241129	20	—	—
291513 2006 DY_{200}	15.9	X	47.96371	225.25486	31.94872	13.82866	0.2245492	0.22718694	2.6599929	20	9 24.6	19.5
291514 2006 DA_{208}	17.0	X	113.52845	43.81351	263.43409	2.05240	0.1213482	0.25107132	2.4885019	20	—	—
291515 2006 DO_{209}	17.3	X	304.13444	309.86106	337.14879	1.71666	0.2232142	0.28340752	2.2954181	20	3 27.1	20.0
291516 2006 DT_{209}	15.9	X	158.65698	73.48184	154.86985	9.29225	0.0554122	0.18187620	3.0852152	20	11 21.8	20.6
291517 2006 DS_{211}	17.1	X	91.05246	219.28715	182.20771	6.20567	0.0870765	0.26834221	2.3805468	20	1 1.2	19.9
291518 2006 DW_{213}	16.9	X	64.61342	180.98877	267.77856	18.40825	0.0386821	0.34717246	2.0049607	20	1 2.7	18.6
291519 2006 DF_{214}	13.3	X	275.01474	165.03769	163.47570	16.08838	0.0902620	0.08434282	5.1495659	20	5 15.6	20.3
291520 2006 EZ	17.5	X	223.23535	38.94034	303.68806	17.29698	0.0621751	0.35584645	1.9722454	20	3 7.7	20.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291521 2006 EM_2	16.7	X	121.45455	132.97160	18.01362	6.12341	0.1592670	0.22740120	2.6583218	20	7 19.1	20.9
291522 2006 EB_7	16.1	X	301.02637	301.07581	150.21548	1.49116	0.0634902	0.18245725	3.0786617	20	11 23.4	20.1
291523 2006 EW_8	17.1	X	236.30345	356.91893	32.40575	1.83346	0.1992711	0.22836240	2.6508571	20	5 30.0	21.4
291524 2006 EY_8	17.4	X	193.56963	75.44152	22.01927	2.77840	0.1643496	0.23349110	2.6118957	20	7 18.7	21.6
291525 2006 EA_{10}	17.2	X	86.58362	107.31894	161.58409	7.72622	0.1802133	0.23883312	2.5728019	20	11 13.8	21.3
291526 2006 EL_{10}	17.0	X	258.94335	224.16613	13.71215	5.06340	0.1010467	0.26797948	2.3826944	20	—	—
291527 2006 EW_{13}	17.2	X	80.13929	277.52180	350.82665	12.40197	0.1544847	0.23832563	2.5764530	20	10 28.1	21.2
291528 2006 EX_{13}	16.6	X	131.04017	293.39336	165.63376	2.46934	0.0097797	0.21901318	2.7257701	20	5 6.6	20.3
291529 2006 ET_{15}	16.9	X	207.41189	51.33835	21.76405	3.89207	0.1590642	0.23061603	2.6335590	20	6 30.6	21.0
291530 2006 EY_{15}	18.0	X	43.60659	276.87445	4.87772	6.26242	0.1140494	0.30306389	2.1950610	20	10 11.3	20.4
291531 2006 EV_{20}	16.4	X	125.54608	128.14757	337.13052	11.20874	0.1120389	0.22503063	2.6769584	20	5 14.9	20.6
291532 2006 EA_{22}	18.0	X	90.96764	101.21507	152.66787	4.22300	0.1722052	0.30838434	2.1697407	20	11 8.7	21.1
291533 2006 EL_{26}	17.6	X	259.14392	64.87960	182.38668	2.57772	0.1770201	0.27472149	2.3435504	20	—	—
291534 2006 EE_{31}	15.5	X	242.07952	336.48655	157.18017	11.66506	0.0660465	0.17846306	3.1244277	20	10 31.8	20.1
291535 2006 EJ_{36}	16.5	X	249.96003	272.46563	31.34610	4.78007	0.0493841	0.21211542	2.7845470	20	3 14.8	20.4
291536 2006 EJ_{40}	17.5	X	86.88896	2.86727	220.81586	2.20741	0.0904669	0.23262119	2.6184033	20	9 3.9	21.1
291537 2006 EK_{40}	16.8	X	284.11639	262.99698	223.64599	3.68647	0.0901068	0.18548333	3.0450853	20	12 11.6	20.7
291538 2006 ER_{40}	17.7	X	269.92570	298.20161	226.81746	2.27027	0.0360037	0.25811177	2.4430415	20	—	—
291539 2006 EZ_{41}	16.3	X	73.91965	286.96436	238.17969	8.14698	0.1909690	0.22018424	2.7160967	20	6 15.2	19.9
291540 2006 EY_{42}	16.2	X	242.71512	10.64902	301.22434	3.34025	0.0527635	0.20989001	2.8041949	20	3 13.1	20.2
291541 2006 EC_{44}	16.9	X	116.09211	219.26768	97.85767	2.56558	0.2021139	0.25620413	2.4551534	20	—	—
291542 2006 EK_{47}	17.0	X	180.24572	26.53884	349.71349	22.62584	0.3069191	0.28824301	2.2696743	20	3 21.8	21.3
291543 2006 EW_{49}	16.1	X	25.57622	267.78811	101.06607	4.16537	0.0667316	0.18246902	3.0785292	20	12 8.5	20.1
291544 2006 EX_{51}	17.1	X	232.42382	67.53779	176.89605	6.69349	0.0736603	0.26452965	2.4033654	20	—	—
291545 2006 EA_{52}	17.0	X	64.33275	43.65489	179.03348	5.76528	0.1922978	0.22631301	2.6668363	20	8 18.9	20.7
291546 2006 EO_{54}	16.3	X	288.27662	98.62449	332.91374	13.64485	0.2204269	0.18446787	3.0562501	20	9 16.3	20.2
291547 2006 EP_{54}	16.7	X	84.38501	37.48291	156.94108	4.05189	0.1438069	0.22852449	2.6496035	20	7 31.0	20.3
291548 2006 EG_{55}	17.5	X	0.79230	221.53660	249.58763	1.67557	0.1478772	0.26898144	2.3767737	20	—	—
291549 2006 EG_{63}	16.7	X	337.46988	358.59389	195.44197	8.65718	0.2387306	0.20477774	2.8506740	20	1 18.6	20.2
291550 2006 EA_{64}	16.6	X	71.79272	282.17750	340.58440	11.02054	0.1856912	0.23349778	2.6118459	20	10 15.3	20.6
291551 2006 EA_{72}	17.8	X	78.18262	33.76212	190.39443	5.47965	0.1264529	0.30012262	2.2093790	20	9 6.5	20.7
291552 2006 EK_{72}	17.0	X	85.22293	53.20730	190.85823	6.29459	0.0893250	0.23699768	2.5860683	20	9 29.9	20.5
291553 2006 EW_{72}	17.1	X	106.37284	229.41196	171.44794	7.31900	0.1654695	0.27098201	2.3650613	20	2 2.8	19.9
291554 2006 EC_{73}	16.8	X	243.53956	273.56694	237.30891	0.44851	0.0107185	0.17930221	3.1146718	20	11 27.7	21.0
291555 2006 EE_{73}	16.5	X	53.26766	288.72049	13.26853	13.21966	0.1067409	0.23931884	2.5693196	20	11 4.4	20.1
291556 2006 FT_1	17.0	X	92.08919	151.43418	39.53531	5.41322	0.0783622	0.29667274	2.2264740	20	8 4.2	19.8
291557 2006 FC_2	13.0	X	296.31799	143.18652	156.72930	24.29030	0.0686239	0.08411769	5.1587503	20	5 12.6	20.0
291558 2006 FM_3	17.4	X	186.49420	40.66750	133.38977	0.96979	0.1074991	0.24158568	2.5532221	20	10 21.5	21.1
291559 2006 FH_5	17.3	X	83.88597	61.58459	103.87956	3.14962	0.0965710	0.28882337	2.2666328	20	6 16.0	19.9
291560 2006 FB_9	16.3	X	217.61590	116.22419	105.22105	1.98139	0.2270244	0.18317153	3.0706530	20	12 25.9	21.2
291561 2006 FQ_{10}	17.6	X	231.91559	138.33416	157.11052	2.54511	0.2007219	0.27157172	2.3616363	20	1 28.4	21.5
291562 2006 FV_{18}	17.1	X	71.32191	59.64259	16.22294	6.62380	0.1007325	0.27042299	2.3683196	20	1 21.9	19.7
291563 2006 FH_{26}	17.2	X	75.96749	247.66503	26.06232	4.29961	0.1838830	0.23454003	2.6041025	20	11 6.3	21.2
291564 2006 FJ_{28}	16.4	X	160.84374	117.24023	190.78093	6.11905	0.1624575	0.18545683	3.0453753	20	—	—
291565 2006 FF_{29}	16.6	X	300.17037	82.52403	22.80251	1.77344	0.1549547	0.18533758	3.0466815	20	12 2.5	20.1
291566 2006 FS_{29}	16.7	X	90.55061	201.74299	195.17440	6.15825	0.1141991	0.26293858	2.4130511	20	—	—
291567 2006 FR_{31}	15.7	X	124.81737	132.11132	197.73699	10.68156	0.1266499	0.18403886	3.0609979	20	—	—
291568 2006 FS_{31}	17.6	X	355.73642	169.24665	63.43203	1.86763	0.1563219	0.28169358	2.3047195	20	4 21.9	19.1
291569 2006 FW_{31}	17.4	X	118.86482	207.66407	61.08504	3.08842	0.1202965	0.24171350	2.5523219	20	12 8.9	21.2
291570 2006 FJ_{32}	15.3	X	150.08993	253.52251	19.26177	13.50781	0.2530331	0.17647469	3.1478529	20	12 29.5	21.0
291571 2006 FO_{32}	17.4	X	31.44222	83.12405	193.08662	7.85964	0.1688397	0.22499220	2.6772632	20	9 9.4	20.5
291572 2006 FC_{34}	15.7	X	205.62518	301.64780	204.04812	9.62364	0.1993358	0.17529696	3.1619364	20	9 18.3	20.9
291573 2006 FL_{35}	17.2	X	6.05612	98.85417	126.64571	2.81342	0.1715546	0.28378715	2.2933706	20	5 4.6	18.7
291574 2006 FY_{36}	16.5	X	331.60302	203.38170	35.85850	21.45282	0.0419645	0.28137965	2.3064334	20	4 6.8	19.3
291575 2006 FK_{39}	15.7	X	73.68458	257.56851	19.69919	7.71011	0.0292586	0.17055915	3.2202236	20	10 10.1	20.1
291576 2006 FW_{41}	17.7	X	145.78883	116.77154	138.12695	2.19489	0.1331606	0.24461348	2.5321093	20	12 18.4	21.5
291577 2006 FF_{42}	17.2	X	29.72264	110.70152	178.35216	4.18629	0.2071965	0.22613743	2.6682166	20	10 3.1	20.2
291578 2006 FP_{42}	17.4	X	178.16274	234.28108	168.64441	4.63158	0.1079456	0.28348258	2.2950129	20	4 23.9	20.6
291579 2006 FG_{47}	16.3	X	68.23472	240.64753	50.33812	13.63612	0.1576309	0.23786090	2.5798078	20	11 17.3	19.9
291580 2006 FZ_{49}	16.9	X	204.39219	163.65292	105.86906	4.54935	0.2152953	0.26045724	2.4283527	20	—	—
291581 2006 FZ_{52}	18.5	X	146.56905	177.08751	32.35253	2.14594	0.0895138	0.30771407	2.1728904	20	11 4.1	21.4
291582 2006 FL_{53}	17.3	X	253.76576	307.10682	311.05994	1.75482	0.1640280	0.26518585	2.3993991	20	1 5.1	20.9
291583 2006 GN_1	15.5	X	268.44017	251.64302	137.14401	14.30102	0.0812593	0.17333162	3.1857927	20	7 18.4	20.1
291584 2006 GG_4	18.6	X	75.87501	58.47695	186.53784	0.89005	0.1424939	0.30336539	2.1936064	20	10 6.7	21.5
291585 2006 GD_6	16.6	X	143.37575	19.94275	113.40704	5.31002	0.0834197	0.22615913	2.6680459	20	7 12.4	20.4
291586 2006 GF_8	17.5	X	1.32768	85.63571	169.95633	8.98388	0.0714706	0.28921476	2.2645874	20	6 12.8	19.9
291587 2006 GZ_9	17.5	X	43.45888	165.74449	71.91482	2.91232	0.1326224	0.29372370	2.2413519	20	8 9.7	19.7
291588 2006 GD_{12}	17.6	X	131.64905	205.81632	54.99076	5.11488	0.2531946	0.24215834	2.5491952	20	12 11.7	22.1
291589 2006 GQ_{13}	16.8	X	216.33897	182.13487	49.53574	7.36477	0.1131086	0.25551317	2.4595776	20	—	—
291590 2006 GH_{14}	17.0	X	46.61185	85.73542	138.39742	3.48632	0.0493425	0.22139036	2.7062230	20	7 4.9	20.4
291591 2006 GQ_{16}	17.4	X	208.22259	308.02781	166.57651	4.02896	0.1284656	0.23520899	2.5991625	20	8 26.1	21.3
291592 2006 GD_{19}	16.0	X	18.46678	187.84524	191.81440	14.53627	0.1213966	0.24588647	2.5233624	20	—	—
291593 2006 GY_{19}	16.2	X	203.57141	169.75507	46.61037	8.45983	0.1414605	0.18008731	3.1056128	20	12 14.0	21.1
291594 2006 GD_{20}	18.3	X	65.56958	227.49606	52.28545	4.85453	0.1839638	0.30221333	2.1991776	20	11 15.3	21.4
291595 2006 GY_{20}	15.6	X	278.73748	106.03858	44.56533	10.40966	0.0695404	0.18349055	3.0670928	20	—	—
291596 2006 GJ_{22}	16.9	X	190.59735	259.57345	53.27132	6.92206	0.1068188	0.26400122	2.4065715	20	1 13.5	20.5
291597 2006 GD_{23}	17.3	X	65.06081	330.26902	106.00823	2.45988	0.1582072	0.26876561	2.3780460	20	1 16.3	19.3
291598 2006 GS_{29}	17.4	X	189.11538	148.20646	58.79097	1.89359	0.0521843	0.24533665	2.5271311	20	12 10.6	20.8
291599 2006 GA_{30}	16.8	X	84.96049	93.33283	189.83726	9.07577	0.1975521	0.23668647	2.5883346	20	11 29.6	21.0
291600 2006 GH_{30}	17.8	X	304.46910	208.40644	81.57432	3.21029	0.2190685	0.27968612	2.3157345	20	4 4.2	20.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291601 2006 GD_{31}	16.5	X	170.06963	125.55093	56.88328	3.71489	0.0628340	0.23617446	2.5920742	20	10 16.8	20.3
291602 2006 GG_{31}	17.5	X	186.92956	65.71464	180.45352	3.55835	0.1008159	0.24990385	2.4962462	20	—	—
291603 2006 GE_{34}	16.3	X	169.64598	127.36814	89.72401	3.74624	0.0914903	0.17392388	3.1785563	20	11 15.9	21.3
291604 2006 GQ_{35}	16.4	X	59.18501	217.81600	52.86057	3.28588	0.2714882	0.22962540	2.6411279	20	10 26.9	20.4
291605 2006 GV_{35}	15.9	X	60.38301	198.05004	22.61241	13.53905	0.1158480	0.22407781	2.6845416	20	8 5.9	19.7
291606 2006 GF_{36}	16.5	X	109.90274	40.23826	173.67542	14.51643	0.1094736	0.23178848	2.6246707	20	9 21.0	20.3
291607 2006 GM_{38}	15.3	X	170.09205	109.31960	123.70925	14.34326	0.2558928	0.17488488	3.1669013	20	12 1.5	21.0
291608 2006 GG_{39}	17.7	X	40.82265	107.95785	151.18758	3.08806	0.1580869	0.29536586	2.2330366	20	9 11.5	19.9
291609 2006 GL_{42}	16.2	X	117.02850	130.50702	119.99820	13.58196	0.2356590	0.23492165	2.6012815	20	11 21.9	20.9
291610 2006 GQ_{43}	15.8	X	223.68947	325.38386	180.69965	12.89349	0.1405908	0.17832629	3.1260251	20	10 14.7	20.5
291611 2006 GN_{46}	17.0	X	153.40879	46.68114	57.32322	7.67433	0.0650580	0.28802505	2.2708191	20	6 14.9	20.0
291612 2006 GW_{46}	17.1	X	247.65994	162.99686	90.47224	2.38638	0.1501387	0.26495289	2.4008053	20	—	—
291613 2006 GX_{46}	17.2	X	159.32023	85.89401	40.91468	5.24784	0.0706664	0.29615993	2.2290434	20	7 27.9	20.2
291614 2006 GE_{48}	18.4	X	26.12096	38.40747	199.45579	0.83807	0.1028474	0.28862891	2.2676507	20	7 2.7	20.4
291615 2006 GD_{54}	17.0	X	330.08520	255.61442	43.73972	9.68001	0.2975992	0.21349455	2.7725423	20	5 22.5	19.3
291616 2006 HC_{1}	15.1	X	209.55721	328.19361	209.13739	26.96751	0.1311767	0.17561877	3.1580725	20	11 6.0	20.0
291617 2006 HF_{1}	15.3	X	203.05873	346.26033	213.84065	10.51818	0.0492038	0.17711941	3.1402094	20	12 4.2	20.0
291618 2006 HV_{1}	16.6	X	172.19198	188.20102	62.59350	8.65110	0.0924465	0.24997119	2.4957979	20	—	—
291619 2006 HP_{2}	17.3	X	240.71655	322.59254	153.65872	4.54540	0.0838703	0.24340962	2.5404514	20	10 15.2	20.6
291620 2006 HN_{4}	15.8	X	226.67854	308.29842	198.73795	16.04889	0.2208269	0.17522119	3.1628478	20	10 8.3	20.6
291621 2006 HP_{5}	16.6	X	204.33086	179.41191	91.38836	7.53474	0.1084652	0.25982280	2.4323041	20	—	—
291622 2006 HW_{6}	14.1	X	231.73647	117.85638	133.53104	9.39459	0.0805772	0.12416610	3.9792452	20	—	—
291623 2006 HM_{7}	17.1	X	0.22778	25.55687	224.56729	6.12234	0.1884714	0.28611868	2.2808947	20	6 1.8	18.4
291624 2006 HM_{9}	15.2	X	151.99514	21.41015	204.30822	17.03467	0.1428403	0.17298581	3.1900370	20	11 8.9	20.4
291625 2006 HV_{10}	17.0	X	305.65864	347.47151	153.60247	6.14896	0.0673599	0.25643975	2.4536493	20	—	—
291626 2006 HO_{11}	16.7	X	239.91207	236.03948	140.03772	7.63562	0.0669061	0.21733924	2.7397480	20	6 1.4	20.7
291627 2006 HF_{12}	15.5	X	163.04457	43.39488	188.65563	13.64819	0.1615067	0.17345683	3.1842595	20	11 25.8	20.9
291628 2006 HL_{12}	16.9	X	182.33396	148.57609	150.10898	6.41976	0.1301514	0.25834081	2.4415973	20	—	—
291629 2006 HM_{13}	16.8	X	230.65743	17.39689	226.53752	5.59893	0.1585332	0.26126358	2.4233537	20	—	—
291630 2006 HS_{14}	16.4	X	308.07761	16.13369	32.27230	11.41904	0.1234704	0.23878668	2.5731355	20	10 18.9	18.9
291631 2006 HG_{15}	17.7	X	92.38446	216.75489	36.41654	7.72182	0.1126474	0.30398944	2.1906032	20	11 2.4	20.6
291632 2006 HG_{16}	17.5	X	52.84271	205.82421	70.98943	6.02202	0.1349527	0.29800523	2.2198321	20	10 22.7	20.2
291633 Heyun	16.2	X	144.64237	84.96735	195.49564	12.66953	0.1491222	0.17951464	3.1122141	20	—	—
291634 2006 HU_{21}	17.0	X	341.92387	57.62649	65.80533	7.18659	0.0748654	0.26011456	2.4304850	20	—	—
291635 2006 HY_{21}	16.7	X	92.47703	174.45242	145.41096	5.24531	0.2502136	0.24225760	2.5484989	20	—	—
291636 2006 HM_{23}	17.6	X	302.41141	55.53370	87.70763	2.98980	0.1406348	0.25765692	2.4459158	20	—	—
291637 2006 HU_{25}	16.5	X	260.29657	193.21468	54.09354	13.25334	0.1804945	0.26333578	2.4106239	20	—	—
291638 2006 HR_{26}	17.0	X	60.19523	34.30404	158.49617	8.83285	0.1314413	0.21588678	2.7520227	20	6 24.2	20.6
291639 2006 HU_{27}	17.1	X	264.69066	223.93222	110.06882	7.44955	0.2253844	0.27686742	2.3314252	20	4 17.1	20.6
291640 2006 HY_{28}	16.7	X	207.72373	45.14745	94.07067	5.54688	0.1367703	0.23614721	2.5922736	20	9 29.1	20.6
291641 2006 HL_{31}	16.8	X	354.54146	18.40971	199.16148	4.41451	0.0799890	0.28012010	2.3133421	20	3 31.7	19.3
291642 2006 HD_{37}	17.0	X	259.43224	19.47373	224.65451	4.33250	0.1236063	0.26751853	2.3854307	20	—	—
291643 2006 HT_{38}	17.3	X	56.32107	120.36153	88.17254	4.84148	0.0953516	0.28858371	2.2678875	20	7 8.7	19.8
291644 2006 HH_{39}	17.9	X	268.45074	178.69880	122.15440	3.28275	0.2084482	0.27285330	2.3542355	20	3 8.6	21.4
291645 2006 HR_{41}	16.4	X	54.13878	123.07448	149.31124	9.33839	0.1348736	0.22721474	2.6597759	20	10 6.5	20.0
291646 2006 HY_{43}	16.5	X	217.57804	313.77152	106.54296	4.22761	0.0668009	0.22004069	2.7172779	20	7 1.4	20.2
291647 2006 HA_{46}	16.6	X	253.23906	52.09598	102.64748	2.24453	0.1262446	0.18204797	3.0832742	20	11 29.1	20.7
291648 2006 HM_{47}	15.9	X	142.63292	124.96748	196.23385	13.02486	0.0922633	0.18629883	3.0361924	20	—	—
291649 2006 HB_{49}	16.3	X	173.22845	52.03056	25.62787	12.89706	0.1354201	0.22242122	2.6978548	20	5 31.8	20.7
291650 2006 HY_{49}	17.2	X	35.19421	255.32613	190.54363	6.23769	0.0668657	0.26523744	2.3990879	20	—	—
291651 2006 HR_{50}	16.8	X	26.02836	233.95980	11.67277	1.72159	0.0229078	0.22281806	2.6946506	20	7 2.1	20.2
291652 2006 HE_{51}	17.4	X	142.69486	246.06894	325.45339	5.11227	0.0818691	0.30716846	2.1754627	20	10 31.4	20.3
291653 2006 HK_{52}	16.5	X	223.57687	215.06783	261.38290	3.69826	0.2241851	0.24082659	2.5585845	20	9 2.9	20.5
291654 2006 HF_{53}	17.4	X	163.92759	74.55811	78.33481	23.90477	0.0962868	0.37296614	1.9114214	20	10 3.0	20.4
291655 2006 HQ_{54}	15.2	X	130.06848	64.91377	205.98308	20.42418	0.1526958	0.17532542	3.1615942	20	12 10.5	20.6
291656 2006 HK_{55}	16.4	X	253.12891	44.83294	115.89637	7.00601	0.1238270	0.25169524	2.4843878	20	12 25.5	19.4
291657 2006 HF_{56}	17.4	X	32.54889	189.74326	54.97361	5.85830	0.1298173	0.29032842	2.2587926	20	8 1.8	19.6
291658 2006 HR_{61}	17.0	X	49.83447	162.72598	53.80229	4.35222	0.1096674	0.22091981	2.7100644	20	7 8.7	20.4
291659 2006 HX_{62}	17.4	X	287.81411	43.53529	79.18861	2.62080	0.0389763	0.24742918	2.5128628	20	—	—
291660 2006 HL_{65}	16.0	X	49.52655	106.43497	213.56856	8.83800	0.1420568	0.23472696	2.6027197	20	12 1.2	19.6
291661 2006 HZ_{66}	17.6	X	285.92717	105.81915	165.40131	1.51949	0.1651507	0.27239891	2.3568529	20	2 21.9	20.6
291662 2006 HF_{67}	16.2	X	4.53536	92.97025	214.54771	9.75985	0.2117972	0.22266318	2.6959000	20	9 8.6	18.9
291663 2006 HL_{67}	17.4	X	54.57699	316.62386	191.43146	2.49580	0.1018468	0.27826179	2.3236301	20	4 4.7	19.6
291664 2006 HE_{69}	16.0	X	261.33900	335.10703	52.36791	15.26859	0.0521160	0.22079669	2.7110718	20	7 17.3	19.9
291665 2006 HN_{69}	16.3	X	242.48312	317.40116	220.76492	13.28907	0.1371002	0.17906344	3.1174400	20	12 11.5	20.8
291666 2006 HS_{69}	17.4	X	310.71786	186.67501	81.10916	6.02364	0.2136346	0.27655349	2.3331892	20	3 15.9	20.1
291667 2006 HU_{69}	15.6	X	100.86203	261.39388	71.77970	19.37077	0.1402727	0.17636848	3.1491165	20	—	—
291668 2006 HV_{73}	15.8	X	194.10792	105.04850	110.43279	4.89729	0.1417185	0.17581217	3.1557561	20	12 4.5	20.8
291669 2006 HV_{74}	16.7	X	94.38447	345.36402	76.60124	7.87003	0.0912542	0.26706366	2.3881385	20	2 7.4	19.6
291670 2006 HV_{75}	16.3	X	95.04768	138.44051	123.25024	8.29085	0.1644235	0.23339392	2.6126207	20	11 11.7	20.5
291671 2006 HB_{79}	16.7	X	77.53992	163.94248	230.24133	4.84046	0.1951491	0.25703194	2.4498791	20	—	—
291672 2006 HJ_{79}	16.5	X	146.37826	345.57366	44.48377	7.62231	0.1109502	0.26973671	2.3723350	20	3 6.7	19.9
291673 2006 HU_{79}	17.0	X	33.83210	123.70977	214.11230	4.09033	0.1612699	0.23466214	2.6031990	20	12 6.9	20.5
291674 2006 HG_{80}	16.8	X	278.61600	243.92599	222.81540	7.22453	0.0641235	0.24189722	2.5510294	20	11 26.4	19.9
291675 2006 HX_{82}	17.4	X	358.60518	232.44299	43.07447	3.88311	0.1320173	0.21701967	2.7424369	20	7 6.2	20.3
291676 2006 HF_{83}	14.7	X	270.01278	19.42568	227.17791	7.76068	0.1954221	0.12483188	3.9650839	20	1 19.6	20.8
291677 2006 HM_{84}	17.5	X	17.02867	352.73305	184.24329	4.71618	0.0320974	0.27327610	2.3518067	20	3 11.7	20.3
291678 2006 HW_{84}	16.1	X	356.61232	170.17946	71.50165	9.67871	0.0931088	0.21093979	2.7948835	20	5 15.2	19.3
291679 2006 HF_{89}	15.1	X	110.13745	200.42396	70.20927	15.87826	0.0740348	0.17011055	3.2258826	20	11 18.9	19.9
291680 2006 HK_{91}	17.5	X	163.83210	339.35616	169.46927	5.83973	0.0746089	0.29824563	2.2186391	20	8 31.6	20.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291681 2006 HT_{92}	17.3	X	263.09324	225.55782	104.14712	4.14369	0.1568186	0.27772582	2.3266187	20	4 16.0	20.5
291682 2006 HW_{95}	16.9	X	9.30198	204.43861	34.63146	0.61990	0.0097028	0.21441894	2.7645681	20	5 29.3	20.6
291683 2006 HM_{96}	17.1	X	200.03629	245.90877	55.30252	2.83217	0.2026964	0.25926974	2.4357619	20	1 11.4	21.2
291684 2006 HK_{97}	16.7	X	278.52132	237.36146	17.83233	1.98163	0.0217996	0.19968605	2.8989289	20	2 21.4	20.6
291685 2006 HD_{98}	16.6	X	163.33646	32.80054	32.71016	5.06357	0.0547930	0.21138235	2.7909811	20	5 5.6	20.6
291686 2006 HM_{99}	17.1	X	20.17408	88.49257	184.46472	1.66571	0.0252903	0.22179163	2.7029579	20	7 30.9	20.4
291687 2006 HT_{99}	16.6	X	156.16352	40.76225	54.94792	5.06966	0.0340911	0.21464968	2.7625865	20	6 4.5	20.4
291688 2006 HC_{100}	17.9	X	289.53959	286.77623	222.35368	1.40105	0.1636274	0.25451411	2.4660098	20	—	—
291689 2006 HA_{103}	17.5	X	83.81560	76.50737	111.31584	3.02701	0.0963532	0.28948660	2.2631695	20	7 19.1	20.3
291690 2006 HK_{104}	16.4	X	23.72893	223.07378	120.48160	13.47903	0.3057272	0.22934006	2.6433182	20	12 22.1	20.0
291691 2006 HT_{105}	17.5	X	11.66330	333.02610	221.05636	4.50886	0.1890853	0.27885006	2.3203610	20	3 21.4	19.3
291692 2006 HZ_{107}	16.3	X	10.48720	250.88660	64.61336	11.88580	0.2025300	0.22614687	2.6681424	20	10 12.3	19.3
291693 2006 HB_{108}	16.7	X	78.23818	3.76818	144.82925	4.19819	0.0339759	0.21175927	2.7876683	20	5 7.1	20.4
291694 2006 HF_{110}	16.0	X	37.75861	312.37742	259.66015	23.94809	0.1518551	0.28708962	2.2757492	20	6 19.5	18.1
291695 2006 HL_{111}	16.6	X	61.64551	299.23628	303.55443	6.30749	0.1888977	0.22391740	2.6858236	20	9 9.0	20.3
291696 2006 HK_{116}	16.8	X	59.12373	137.33902	37.41596	4.19773	0.0316081	0.21211486	2.7845519	20	5 13.5	20.4
291697 2006 HP_{116}	17.1	X	147.63976	328.06959	131.91819	0.89253	0.0268475	0.21436523	2.7650298	20	5 30.5	21.0
291698 2006 HR_{116}	17.7	X	4.94662	70.65988	86.45030	2.50473	0.1273322	0.26979367	2.3720011	20	1 18.5	20.0
291699 2006 HP_{117}	16.7	X	248.16963	162.84040	96.59488	6.10100	0.0787307	0.26371383	2.4083195	20	1 6.3	20.0
291700 2006 HV_{152}	18.0	X	121.79617	184.59043	95.17900	3.59324	0.1278053	0.31130995	2.1561256	20	—	—
291701 2006 HA_{154}	17.2	X	210.01517	193.10777	215.09332	4.74316	0.1153319	0.28802536	2.2708175	20	6 3.9	20.3
291702 2006 JM_{2}	16.6	X	80.18360	22.90408	146.66620	4.95020	0.0416362	0.21455070	2.7634361	20	6 7.1	20.4
291703 2006 JQ_{4}	16.0	X	330.75192	280.66339	55.79272	10.29916	0.3258449	0.21970482	2.7200464	20	7 28.0	17.9
291704 2006 JG_{6}	17.4	X	181.26445	43.63946	167.58264	2.58266	0.1635950	0.24304022	2.5430249	20	11 27.3	21.2
291705 2006 JE_{7}	16.4	X	31.29405	286.81709	55.62749	14.40183	0.1322331	0.23637431	2.5906129	20	12 3.9	19.8
291706 2006 JK_{7}	16.0	X	21.22855	158.74117	57.65943	13.98941	0.0907221	0.21266173	2.7797761	20	5 19.7	19.3
291707 2006 JN_{11}	15.3	X	110.97560	80.11948	224.84607	13.99335	0.1890739	0.17340055	3.1849484	20	—	—
291708 2006 JT_{11}	16.8	X	296.25450	194.26256	93.72014	7.27157	0.1100679	0.27708418	2.3302091	20	4 10.3	19.7
291709 2006 JF_{13}	16.9	X	25.47953	24.41004	169.97946	5.17343	0.0896506	0.20912257	2.8110513	20	4 27.9	20.3
291710 2006 JH_{15}	16.3	X	201.54538	252.60243	206.96005	13.26531	0.1562710	0.23007160	2.6377120	20	7 25.0	20.8
291711 2006 JY_{16}	17.7	X	284.13684	215.72307	66.66925	6.08206	0.1601960	0.27320886	2.3521925	20	3 9.7	20.9
291712 2006 JZ_{17}	17.5	X	234.60017	253.19011	69.79066	5.81744	0.2561107	0.26838581	2.3802889	20	3 5.3	21.6
291713 2006 JZ_{18}	16.6	X	354.42274	292.63104	64.52365	13.84821	0.2817983	0.22807833	2.6530577	20	11 17.8	18.7
291714 2006 JL_{20}	15.4	X	80.22293	250.07856	84.36585	16.46847	0.0670792	0.17403134	3.1772477	20	12 29.4	20.0
291715 2006 JL_{23}	16.7	X	294.72754	265.34221	227.74942	6.95960	0.0804286	0.25188339	2.4831504	20	—	—
291716 2006 JQ_{23}	16.9	X	21.79539	246.56922	68.93434	2.56305	0.1444587	0.22944368	2.6425222	20	10 18.2	19.9
291717 2006 JR_{23}	17.6	X	51.06883	81.01596	240.95114	1.51015	0.1652845	0.23569427	2.5955936	20	12 8.2	21.0
291718 2006 JN_{26}	16.3	X	73.37844	335.93327	251.71737	9.58778	0.1971731	0.22464287	2.6800380	20	9 2.1	20.4
291719 2006 JK_{27}	16.5	X	300.56003	208.99460	230.51748	8.79905	0.1063085	0.24035947	2.5618983	20	11 19.6	19.1
291720 2006 JT_{28}	17.6	X	38.45755	172.04480	101.03463	3.08874	0.0696574	0.29638565	2.2279115	20	9 14.8	20.0
291721 2006 JJ_{29}	17.3	X	348.97642	67.86387	191.78824	5.81627	0.0678165	0.28416055	2.2913610	20	5 27.8	19.7
291722 2006 JP_{29}	16.6	X	311.05617	238.59197	67.63399	5.31084	0.0594711	0.21562566	2.7542440	20	6 2.9	20.0
291723 2006 JM_{32}	16.4	X	264.40485	276.50565	173.69579	12.75588	0.1634084	0.23690450	2.5867463	20	9 28.5	19.5
291724 2006 JZ_{33}	17.2	X	18.73048	92.28418	208.93559	4.21389	0.1129606	0.22554308	2.6729021	20	9 15.8	20.4
291725 2006 JQ_{34}	17.1	X	75.94280	87.80414	51.46234	6.07427	0.1007810	0.27979238	2.3151482	20	4 27.7	19.6
291726 2006 JX_{34}	17.0	X	149.02482	53.25460	232.25804	5.15174	0.1030864	0.24835378	2.5066221	20	—	—
291727 2006 JX_{37}	17.6	X	62.50271	89.02135	188.17543	5.73524	0.1603553	0.29998889	2.2100356	20	11 6.6	20.6
291728 2006 JD_{38}	16.4	X	59.55163	70.61762	206.73538	11.49601	0.1365135	0.23105660	2.6302103	20	10 17.6	20.1
291729 2006 JP_{40}	16.5	X	33.62932	216.48912	196.44040	8.44392	0.2038997	0.25433932	2.4671395	20	—	—
291730 2006 JU_{40}	16.5	X	201.73695	54.39131	152.06180	3.65261	0.0569736	0.17608154	3.1525368	20	12 9.1	21.1
291731 2006 JP_{41}	16.0	X	11.45550	86.00031	113.18339	11.61911	0.0657925	0.20635659	2.8361149	20	4 16.0	19.8
291732 2006 JV_{42}	18.1	X	289.09011	133.35677	111.12533	2.06395	0.1446492	0.26887380	2.3774080	20	1 25.3	21.2
291733 2006 JY_{44}	17.8	X	321.64045	99.23427	121.19261	3.16419	0.1453211	0.27277723	2.3546732	20	2 3.3	20.4
291734 2006 JQ_{47}	16.1	X	115.53002	190.25867	65.81554	6.51784	0.1070655	0.23667664	2.5884063	20	11 19.2	19.9
291735 2006 JZ_{47}	15.9	X	22.19996	242.26525	57.25639	15.54161	0.1113638	0.22743061	2.6580926	20	9 29.7	19.4
291736 2006 JR_{49}	15.9	X	24.02449	274.66503	43.73845	13.08818	0.2765475	0.22755401	2.6571315	20	11 13.4	19.1
291737 2006 JT_{49}	17.4	X	355.61978	334.03538	235.78213	3.72941	0.1666519	0.27741711	2.3283444	20	3 11.8	19.6
291738 2006 JF_{50}	16.1	X	75.59040	316.23458	41.44126	2.47045	0.1555590	0.17878981	3.1206200	20	—	—
291739 2006 JC_{51}	17.0	X	202.13837	273.41815	82.88628	3.10623	0.2290093	0.27164795	2.3611945	20	3 19.7	21.0
291740 2006 JZ_{52}	16.8	X	359.48380	125.70310	217.22784	5.26233	0.2209747	0.22877784	2.6476469	20	10 27.7	19.4
291741 2006 JC_{55}	18.1	X	349.14284	48.93544	215.89226	2.17132	0.1772451	0.28263954	2.2995742	20	5 30.1	19.7
291742 2006 JN_{56}	17.1	X	128.89034	77.80043	123.31890	5.41557	0.0720357	0.30098563	2.2051537	20	10 5.0	20.0
291743 2006 JM_{64}	17.6	X	302.19269	13.36778	189.69005	3.44392	0.1356014	0.27129136	2.3632631	20	—	—
291744 2006 JU_{81}	16.6	X	192.40130	234.29471	181.01884	5.11873	0.0704911	0.21338273	2.7735109	20	5 27.3	20.7
291745 2006 KH_{1}	16.0	X	176.50069	319.09899	228.98333	14.84418	0.0815467	0.23667721	2.5884022	20	10 28.0	19.7
291746 2006 KZ_{1}	16.1	X	334.28591	182.78993	40.09549	8.73305	0.2245055	0.20387467	2.8590859	20	2 29.5	19.5
291747 2006 KZ_{2}	16.6	X	141.13501	81.12801	183.95949	7.21985	0.1349731	0.24180987	2.5516437	20	12 25.4	20.8
291748 2006 KD_{3}	15.9	X	140.46011	75.52298	205.52820	8.96510	0.2146246	0.17704659	3.1410704	20	12 30.7	21.4
291749 2006 KM_{3}	17.2	X	100.04585	134.21783	176.43693	3.06274	0.0593847	0.24800898	2.5089448	20	—	—
291750 2006 KC_{4}	15.3	X	99.34785	217.57174	85.40730	14.82814	0.2294520	0.16931642	3.2359614	20	12 24.3	20.7
291751 2006 KF_{5}	16.8	X	33.46880	71.42949	229.29659	3.61470	0.0838597	0.22831821	2.6511992	20	10 4.1	20.2
291752 2006 KV_{5}	17.1	X	324.00752	121.73282	185.88319	0.93897	0.0695843	0.21621293	2.7492545	20	6 23.6	20.4
291753 2006 KZ_{5}	15.0	X	280.37352	168.68974	55.56054	6.44571	0.1755844	0.12327254	3.9984514	20	1 9.6	20.9
291754 2006 KG_{6}	16.8	X	290.32823	94.70019	237.39220	2.87068	0.0746762	0.21431840	2.7654326	20	6 6.1	20.4
291755 2006 KF_{8}	16.3	X	303.05088	248.34017	67.54667	5.46125	0.0978952	0.21276235	2.7788997	20	5 29.8	19.9
291756 2006 KZ_{9}	17.3	X	12.35656	224.17673	71.68521	4.74010	0.1370223	0.29261136	2.2470286	20	9 17.4	19.4
291757 2006 KM_{10}	16.8	X	170.27957	188.35205	61.96688	7.97276	0.0695844	0.24649356	2.5192175	20	—	—
291758 2006 KJ_{13}	16.7	X	100.34898	172.75172	103.16535	13.61979	0.1018765	0.23852608	2.5750093	20	11 30.3	20.6
291759 2006 KC_{15}	15.8	X	40.91957	34.16232	211.38265	12.34902	0.1373181	0.21925621	2.7237555	20	8 3.8	19.4
291760 2006 KA_{16}	16.4	X	96.42014	230.45842	86.77091	11.78339	0.1376359	0.24221359	2.5488076	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291761 2006 KE_{16}	17.0	X	304.25148	213.39840	101.09087	7.46767	0.1354489	0.28182842	2.3039843	20	5 24.9	19.4
291762 2006 KM_{16}	17.2	X	327.77262	57.76548	203.40248	7.25904	0.1480262	0.28164798	2.3049683	20	4 10.3	19.5
291763 2006 KC_{18}	16.1	X	296.27128	24.40212	120.22001	10.98497	0.1033033	0.18519283	3.0482689	20	—	—
291764 2006 KC_{19}	15.6	X	168.20018	235.80239	119.03168	16.20135	0.2258692	0.19548941	2.9402701	20	2 27.2	20.7
291765 2006 KE_{19}	17.5	X	287.64191	153.95238	127.14174	8.70952	0.2031409	0.27424823	2.3462457	20	3 5.2	20.7
291766 2006 KG_{19}	16.5	X	138.82516	55.58650	176.40358	8.28720	0.1891595	0.23676395	2.5877700	20	11 14.7	20.9
291767 2006 KT_{19}	17.0	X	239.03930	74.73204	198.58967	2.09125	0.1734042	0.26287236	2.4134563	20	1 9.7	20.9
291768 2006 KK_{22}	16.8	X	172.13900	24.23551	178.57924	5.68523	0.0929403	0.23930186	2.5694411	20	11 12.8	20.6
291769 2006 KP_{25}	17.7	X	317.33295	277.12804	40.70540	0.46415	0.2556980	0.28287472	2.2982995	20	5 31.6	19.1
291770 2006 KX_{27}	17.2	X	60.77203	256.10871	58.73785	3.87106	0.0027142	0.23852767	2.5749979	20	11 19.2	20.4
291771 2006 KS_{28}	17.9	X	183.12468	54.15591	64.71523	3.91493	0.1232001	0.29646514	2.2275132	20	8 12.3	21.0
291772 2006 KT_{28}	17.1	X	268.86073	123.66977	228.72055	4.84428	0.1900308	0.28211172	2.3024416	20	5 17.5	20.1
291773 2006 KC_{29}	16.6	X	28.44702	232.71708	149.89112	1.36735	0.1724974	0.17283699	3.1918679	20	—	—
291774 2006 KV_{31}	17.3	X	25.36841	291.43480	354.71026	0.45457	0.1710507	0.22342939	2.6897331	20	9 15.1	20.3
291775 2006 KP_{34}	17.0	X	20.26040	193.85552	172.28569	2.53346	0.1924195	0.23561349	2.5961869	20	12 30.0	20.2
291776 2006 KY_{34}	16.9	X	344.41815	211.94529	223.92709	2.37109	0.0718647	0.24652523	2.5190017	20	—	—
291777 2006 KB_{35}	17.5	X	54.14787	83.28370	79.85627	3.30951	0.0933402	0.27869656	2.3212129	20	4 26.8	19.9
291778 2006 KD_{35}	17.4	X	79.73379	7.89879	71.42630	2.24910	0.1710531	0.26700198	2.3885063	20	2 20.0	19.9
291779 2006 KJ_{35}	16.7	X	77.56373	119.83268	66.06418	4.78008	0.0275514	0.21617084	2.7496113	20	6 22.7	20.3
291780 2006 KO_{38}	17.2	X	63.31095	302.72365	234.42432	19.58968	0.0695847	0.35371510	1.9801601	20	5 27.8	18.8
291781 2006 KE_{39}	17.1	X	256.97690	177.15136	100.71641	4.24019	0.2263314	0.26534037	2.3984674	20	1 28.4	21.0
291782 2006 KP_{41}	16.7	X	72.60598	138.23495	95.09747	13.24191	0.1104011	0.22297766	2.6933646	20	9 7.5	20.6
291783 2006 KF_{42}	17.6	X	118.82245	351.83929	232.44590	5.52721	0.1239121	0.30248591	2.1978562	20	10 23.3	20.7
291784 2006 KW_{43}	16.8	X	146.46581	128.56657	59.89133	6.60665	0.2389242	0.23300159	2.6155526	20	9 30.9	21.4
291785 2006 KY_{46}	16.8	X	349.42490	295.38535	90.78036	5.02882	0.1102111	0.23605951	2.5929156	20	11 28.6	19.6
291786 2006 KR_{48}	17.1	X	278.72906	271.46596	89.64916	6.57941	0.1580333	0.28605609	2.2812274	20	6 17.9	19.8
291787 2006 KQ_{50}	16.7	X	76.79373	158.28808	82.12848	3.31901	0.0485293	0.22672159	2.6636314	20	9 9.6	20.2
291788 2006 KM_{53}	16.4	X	46.81099	144.73265	86.41405	9.61124	0.0849360	0.21802836	2.7339720	20	7 21.0	19.9
291789 2006 KR_{53}	17.2	X	47.30786	301.34695	154.77501	5.03565	0.1924159	0.26451444	2.4034575	20	1 12.2	18.9
291790 2006 KK_{54}	17.7	X	230.80294	271.99432	161.89275	2.83147	0.0505784	0.29363988	2.2417785	20	8 13.4	20.3
291791 2006 KL_{55}	16.4	X	106.92676	234.45432	110.54382	13.28283	0.3211999	0.24359811	2.5391408	20	—	—
291792 2006 KU_{57}	16.9	X	96.53364	8.43887	144.76940	4.98029	0.0213870	0.21294774	2.7772865	20	6 4.1	20.7
291793 2006 KA_{60}	16.7	X	322.34422	79.27055	125.51567	6.44580	0.0584458	0.26733019	2.3865510	20	1 28.4	19.6
291794 2006 KG_{64}	17.0	X	29.49951	176.96543	177.59670	7.47050	0.1857086	0.23600457	2.5933180	20	12 26.2	20.6
291795 2006 KC_{65}	17.1	X	349.24715	204.47266	102.14727	5.99844	0.1734548	0.28320258	2.2965254	20	8 16.7	18.7
291796 2006 KE_{65}	17.6	X	96.09317	47.31217	252.31896	2.70715	0.1075009	0.30355142	2.1927100	20	—	—
291797 2006 KG_{66}	16.8	X	60.27110	138.30932	74.73806	5.73658	0.0339430	0.21993385	2.7181578	20	7 7.4	20.4
291798 2006 KA_{68}	15.9	X	3.83500	175.44528	81.55339	14.73624	0.2362554	0.21294005	2.7773534	20	6 22.1	18.1
291799 2006 KL_{69}	17.1	X	327.98178	45.49362	196.73666	6.11515	0.0891171	0.27610777	2.3356995	20	3 22.3	19.5
291800 2006 KR_{71}	17.5	X	190.96176	36.61489	128.60764	6.03483	0.0955430	0.30542385	2.1837391	20	10 29.1	20.3
291801 2006 KZ_{71}	16.0	X	283.53815	232.55617	226.04278	21.30228	0.0619237	0.23839578	2.5759475	20	11 21.8	19.1
291802 2006 KJ_{74}	16.6	X	28.64950	276.21881	110.73962	12.91881	0.2075707	0.24086764	2.5582938	20	—	—
291803 2006 KH_{75}	15.2	X	152.84930	29.61069	218.32611	20.51832	0.1674724	0.17443129	3.1723891	20	12 3.7	20.6
291804 2006 KE_{76}	16.8	X	125.33710	79.36327	218.06412	3.38710	0.2594788	0.24202614	2.5501234	20	—	—
291805 2006 KX_{80}	17.6	X	350.11112	105.92933	174.82207	5.49761	0.1332141	0.28501866	2.2867596	20	6 30.5	19.5
291806 2006 KV_{83}	16.5	X	66.00268	197.51881	218.58134	8.53889	0.2065866	0.25804380	2.4434705	20	—	—
291807 2006 KG_{89}	12.8	X	268.89052	333.34156	350.02600	23.88631	0.0938361	0.08282287	5.2123777	20	4 18.6	20.0
291808 2006 KK_{90}	16.6	X	54.48546	228.80516	31.85251	9.02642	0.1025235	0.22538312	2.6741666	20	9 17.1	20.2
291809 2006 KH_{91}	16.7	X	77.25001	186.07001	121.42562	9.95919	0.1612016	0.23871274	2.5736668	20	12 18.5	20.6
291810 2006 KN_{91}	14.8	X	4.49768	284.32173	91.81814	22.74575	0.2478080	0.16974902	3.2304612	20	12 9.1	18.5
291811 2006 KK_{94}	16.5	X	243.06054	241.58293	146.83062	4.99302	0.0869446	0.21526777	2.7572959	20	6 17.8	20.5
291812 2006 KC_{95}	17.3	X	155.92113	355.35092	148.25349	2.92535	0.1475279	0.22548504	2.6733607	20	8 9.8	21.4
291813 2006 KD_{97}	17.0	X	221.60081	81.28809	216.71238	1.93757	0.2058960	0.25627017	2.4547316	20	1 24.3	21.0
291814 2006 KB_{98}	16.4	X	318.52257	284.85577	93.41159	14.60966	0.0959752	0.22776843	2.6554636	20	10 1.4	19.8
291815 2006 KP_{99}	16.6	X	120.94541	164.74394	103.32811	5.84395	0.1768494	0.23756067	2.5819809	20	12 11.0	20.8
291816 2006 KS_{99}	17.0	X	132.24701	64.31787	213.91536	6.21413	0.2318154	0.24120652	2.5558971	20	12 31.8	21.5
291817 2006 KP_{100}	16.6	X	36.06661	269.52475	153.86285	14.71047	0.0506939	0.25721898	2.4486913	20	—	—
291818 2006 KY_{104}	15.8	X	12.44807	290.27265	155.79244	15.74757	0.0919808	0.18318912	3.0704563	20	—	—
291819 2006 KO_{116}	17.8	X	274.31188	123.01969	122.26664	1.98927	0.1548055	0.26564890	2.3966100	20	1 9.6	21.4
291820 2006 KN_{117}	17.2	X	78.59187	74.69136	175.87282	12.72380	0.2341673	0.22700134	2.6614426	20	10 18.1	21.4
291821 2006 KU_{118}	17.2	X	330.48122	134.96865	186.34802	2.49453	0.1790221	0.28169721	2.3046997	20	7 21.9	18.7
291822 2006 KB_{121}	16.1	X	107.10992	77.76891	122.24660	13.26902	0.2085087	0.22570536	2.6716207	20	9 11.6	20.5
291823 2006 KH_{121}	16.1	X	108.14061	303.72221	296.00342	11.87151	0.1911920	0.23302507	2.6153769	20	10 21.5	20.6
291824 2006 KH_{133}	16.8	X	250.32552	204.45356	64.80594	6.72597	0.0420049	0.26403618	2.4063590	20	1 25.4	20.0
291825 2006 KL_{143}	17.8	X	1.67063	211.97304	147.08230	4.81138	0.1795719	0.30171095	2.2016182	20	12 11.4	19.9
291826 2006 KZ_{143}	17.6	X	331.77361	90.92138	230.21590	4.48638	0.1653991	0.28836333	2.2690428	20	7 25.7	19.3
291827 2006 LE	16.6	X	162.79315	76.70711	184.82887	27.98891	0.1452958	0.23488665	2.6015399	20	—	—
291828 2006 LF_{2}	16.1	X	140.39427	35.40853	169.21191	14.85733	0.0452354	0.23279000	2.6171373	20	10 12.1	19.8
291829 2006 LO_{2}	17.5	X	302.47316	36.40800	247.73041	5.85583	0.2098910	0.27464925	2.3439613	20	3 21.3	20.6
291830 2006 LP_{2}	15.5	X	35.17050	186.89481	73.99910	15.55945	0.1670141	0.21935919	2.7229029	20	9 2.9	19.1
291831 2006 LX_{3}	16.9	X	43.79768	42.09248	220.06109	9.37337	0.1744262	0.22173289	2.7034352	20	9 7.3	20.5
291832 2006 LO_{4}	15.1	X	345.49483	25.56095	282.97630	21.85265	0.2526382	0.21108407	2.7936098	20	7 22.3	17.4
291833 2006 LP_{4}	15.7	X	59.82486	320.70117	278.21938	15.58137	0.2460459	0.21693602	2.7431419	20	9 2.9	19.9
291834 2006 LQ_{4}	17.4	X	350.98305	140.79490	131.09764	8.54840	0.2051007	0.28368068	2.2939444	20	6 16.8	18.9
291835 2006 LC_{5}	17.2	X	242.84968	196.44529	118.79162	3.35610	0.2206660	0.26335395	2.4105131	20	3 2.8	21.0
291836 2006 LD_{7}	17.3	X	275.81403	210.70744	115.73464	6.73684	0.2375334	0.27178596	2.3603951	20	4 17.5	20.7
291837 2006 MH_{2}	17.4	X	54.48230	144.38856	153.62482	6.22006	0.1054742	0.30091351	2.2055061	20	11 18.9	20.2
291838 2006 MV_{2}	16.8	X	115.49497	186.80604	132.86214	11.07267	0.1845803	0.24384879	2.5374003	20	—	—
291839 2006 MJ_{4}	17.7	X	319.82139	145.65412	152.89421	7.56282	0.2348966	0.28016062	2.3131190	20	5 12.1	19.8
291840 2006 MK_{5}	16.7	X	311.04253	269.94138	190.34390	14.43601	0.0484387	0.24333149	2.5409952	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291841 2006 MQ_7	15.6	X	182.01375	252.28145	117.66506	9.76038	0.1074312	0.19053411	2.9910308	20	3 25.2	20.4
291842 2006 MY_7	16.7	X	29.02559	199.21155	130.08974	3.00576	0.0822331	0.22427618	2.6829584	20	11 6.1	20.2
291843 2006 MZ_8	17.5	X	141.51621	62.04925	135.15584	8.14727	0.0709272	0.29289923	2.2455560	20	10 14.4	20.6
291844 2006 ME_{13}	16.9	X	206.14323	18.40996	281.87007	5.35846	0.0926003	0.25412936	2.4684982	20	1 13.5	20.4
291845 2006 MW_{13}	15.7	X	94.93852	206.34851	76.41222	34.17212	0.1791342	0.23100423	2.6306078	20	12 5.7	20.0
291846 2006 MD_{14}	15.8	X	138.02704	224.96007	48.11726	13.24872	0.1602043	0.23805976	2.5783709	20	12 31.2	20.1
291847 Ladoix	17.1	X	268.36056	359.23979	314.24052	4.56482	0.2877222	0.26681857	2.3896007	20	3 14.2	20.9
291848 2006 OY_1	15.6	X	350.51563	335.43456	307.89233	16.45992	0.2030855	0.20988278	2.8042593	20	7 2.6	18.3
291849 Orchestralondon	16.4	X	316.10767	260.28738	121.61048	7.87531	0.2069153	0.21555350	2.7548587	20	9 15.0	19.1
291850 2006 OV_4	17.4	X	233.67550	90.54280	248.83064	1.50062	0.2436608	0.26183428	2.4198310	20	3 21.7	21.6
291851 2006 OZ_5	16.8	X	6.73924	310.63884	310.23352	9.26525	0.1784473	0.28113648	2.3077632	20	7 9.4	18.5
291852 2006 OW_8	17.3	X	159.65246	221.31738	48.14771	1.90448	0.2068795	0.31125057	2.1563998	20	—	—
291853 2006 OM_9	17.9	X	311.71320	359.80900	342.93574	5.44998	0.1880856	0.27833931	2.3231987	20	7 14.6	19.8
291854 2006 OM_{13}	15.0	X	146.59553	16.09291	307.91369	16.68414	0.1411877	0.17253134	3.1956366	20	—	—
291855 Calabr`ocorrado	17.2	X	265.83742	55.21352	285.95226	1.23348	0.2255020	0.26941111	2.3742460	20	4 23.7	20.5
291856 2006 OV_{14}	16.3	X	40.06727	352.23482	323.79133	9.85716	0.2527646	0.22338700	2.6900734	20	11 25.1	20.2
291857 2006 OY_{15}	17.2	X	251.27508	284.53171	15.71886	3.60923	0.2353960	0.26288291	2.4133917	20	2 19.9	21.2
291858 2006 OQ_{16}	16.9	X	260.37133	126.20195	134.99084	7.42396	0.1848149	0.25958549	2.4337863	20	1 13.8	20.6
291859 2006 OG_{18}	15.2	X	140.23933	358.85223	321.18625	14.38766	0.2442776	0.17277542	3.1926263	20	—	—
291860 2006 OZ_{20}	16.3	X	132.93778	276.13334	75.96040	13.60198	0.2091491	0.24197244	2.5505007	20	1 15.8	20.1
291861 2006 PG	15.9	X	289.29949	56.05324	289.57158	10.61236	0.1646489	0.20387528	2.8590802	20	6 8.6	19.8
291862 2006 PX	16.4	X	58.18191	195.66638	131.90817	4.87021	0.1776367	0.22683791	2.6627208	20	12 22.4	20.3
291863 2006 PL_3	16.2	X	344.71100	338.47762	327.41763	9.58303	0.1133382	0.20994526	2.8037030	20	7 25.3	19.4
291864 2006 PH_4	17.4	X	46.39883	215.81740	110.07177	7.04774	0.2103139	0.29529931	2.2333721	20	12 26.5	20.6
291865 2006 PX_4	16.5	X	65.30448	322.81734	320.65037	12.60461	0.2628600	0.22495359	2.6775696	20	11 10.8	20.9
291866 2006 PF_5	17.5	X	280.30999	161.27208	154.57402	2.62368	0.2206358	0.26983811	2.3717406	20	4 8.3	20.8
291867 2006 PT_5	16.8	X	335.50998	200.96293	113.26594	7.78489	0.1506604	0.28026553	2.3125418	20	7 24.6	18.5
291868 2006 PT_7	17.3	X	250.72487	350.18723	351.04319	3.47033	0.1952854	0.26690416	2.3890899	20	4 11.2	20.8
291869 2006 PO_9	18.1	X	262.24980	193.34459	146.50888	2.63069	0.2349066	0.26841958	2.3800893	20	4 18.9	21.7
291870 2006 PA_{10}	17.1	X	261.50183	190.07610	151.25816	6.01395	0.1818954	0.26858276	2.3791252	20	4 27.3	20.5
291871 2006 PT_{11}	17.7	X	59.67569	174.39294	133.18639	5.30323	0.1255401	0.29466067	2.2365980	20	12 8.1	20.6
291872 2006 PE_{12}	17.2	X	282.31311	173.33738	233.86920	2.01923	0.2186309	0.28103435	2.3083223	20	8 21.2	19.3
291873 2006 PF_{12}	17.5	X	277.31537	58.80809	310.11041	4.91965	0.1507674	0.27523929	2.3406102	20	6 28.6	20.3
291874 2006 PL_{12}	16.8	X	77.79331	241.79252	155.08574	14.85275	0.1741721	0.23967461	2.5667763	20	—	—
291875 2006 PW_{15}	17.4	X	67.69697	217.73063	113.65485	5.75227	0.2012631	0.30002454	2.2098605	20	—	—
291876 2006 PO_{17}	16.7	X	133.25191	148.77908	157.96879	8.45043	0.1947761	0.23709188	2.5853832	20	—	—
291877 2006 PB_{18}	17.3	X	36.29134	177.85532	139.96974	4.27876	0.2707997	0.29207779	2.2497643	20	12 12.5	20.4
291878 2006 PU_{18}	17.4	X	224.51717	351.81164	355.52417	2.24853	0.2205456	0.26301272	2.4125975	20	3 25.5	21.3
291879 2006 PW_{19}	17.2	X	272.48340	199.45652	133.12514	3.31848	0.2264625	0.26925112	2.3751864	20	4 21.6	20.5
291880 2006 PQ_{20}	17.6	X	304.12926	13.90937	329.82160	3.89308	0.2115833	0.27860310	2.3217320	20	6 24.7	19.7
291881 2006 PJ_{22}	17.1	X	257.81844	43.39445	250.00045	1.95948	0.1933182	0.26141797	2.4223994	20	2 18.4	20.9
291882 2006 PZ_{22}	16.1	X	64.22929	201.67755	101.26182	15.24225	0.2416693	0.22349052	2.6892426	20	12 6.9	20.4
291883 2006 PF_{23}	17.2	X	273.91192	244.56062	109.90581	3.37236	0.1853730	0.27373901	2.3491545	20	5 28.2	20.2
291884 2006 PC_{24}	17.2	X	261.80049	189.71751	106.05052	4.15938	0.2284792	0.26330535	2.4108097	20	2 24.2	20.9
291885 2006 PE_{25}	17.4	X	231.19793	180.59654	155.80322	1.97427	0.2014275	0.26204716	2.4185203	20	3 19.2	21.3
291886 2006 PG_{26}	17.6	X	289.12119	344.63255	315.24557	1.54160	0.2050064	0.26861636	2.3789268	20	3 28.9	20.8
291887 2006 PM_{26}	17.4	X	287.59855	232.84932	60.93716	2.94712	0.2125803	0.26709228	2.3879679	20	3 20.3	20.7
291888 2006 PC_{29}	16.8	X	45.68886	212.80645	114.37860	7.06993	0.2117270	0.29241471	2.2480359	20	12 26.9	20.0
291889 2006 PQ_{30}	15.9	X	294.25948	243.66481	129.49317	10.09697	0.1826051	0.20831947	2.8182714	20	7 21.1	19.2
291890 2006 PD_{31}	15.8	X	139.24410	193.12029	149.03370	4.31150	0.1368010	0.17325489	3.1867333	20	1 10.9	20.7
291891 2006 PW_{34}	17.2	X	331.86130	121.84796	201.15903	4.23537	0.2543395	0.28137120	2.3064796	20	7 21.1	18.2
291892 2006 PN_{35}	17.2	X	219.53885	21.83452	296.41087	2.70128	0.1955832	0.25812188	2.4429777	20	2 15.7	21.2
291893 2006 PO_{36}	16.7	X	148.84339	239.53756	68.20011	9.19783	0.1785046	0.24244414	2.5471915	20	—	—
291894 2006 PN_{42}	17.1	X	99.09451	210.72209	154.82120	5.15016	0.1739239	0.24079041	2.5588408	20	—	—
291895 2006 QP_1	17.2	X	312.03701	262.91370	79.15888	4.96252	0.1939081	0.27795489	2.3253402	20	7 12.2	19.0
291896 2006 QW_3	16.4	X	22.33497	188.91090	160.65014	2.99552	0.2435556	0.21997531	2.7178162	20	12 15.4	19.9
291897 2006 QY_3	16.4	X	138.23589	343.15562	144.99227	2.69609	0.0153857	0.19920641	2.9035803	20	6 23.4	20.4
291898 2006 QN_4	16.8	X	287.05129	65.28084	272.04148	7.72723	0.2422196	0.27140141	2.3626242	20	5 10.3	20.0
291899 2006 QS_4	18.1	X	178.23958	305.26622	87.25968	2.59500	0.1878537	0.25909983	2.4368266	20	4 13.4	22.0
291900 2006 QU_4	15.9	X	102.43632	77.86891	351.91274	12.88679	0.2927874	0.17553911	3.1590279	20	3 31.1	20.9
291901 2006 QB_8	17.8	X	345.48203	305.42315	17.91438	0.65038	0.2300168	0.28212115	2.3023904	20	9 8.4	18.7
291902 2006 QG_8	17.0	X	22.14489	310.64208	340.37549	6.27533	0.1203553	0.28370919	2.2937906	20	9 18.5	19.2
291903 2006 QM_8	16.2	X	59.95848	174.02373	152.69095	6.57936	0.0225386	0.22534181	2.6744934	20	12 4.3	19.9
291904 2006 QT_9	15.6	X	15.86894	320.13429	346.17429	12.63030	0.2461203	0.21259377	2.7803685	20	10 2.5	18.6
291905 2006 QU_9	15.4	X	183.22781	210.59901	173.95243	24.50218	0.1892218	0.18397491	3.0617072	20	4 12.6	20.7
291906 2006 QK_{10}	16.5	X	101.00875	242.13959	116.56490	14.41519	0.1917947	0.23792492	2.5793449	20	—	—
291907 2006 QU_{10}	18.4	X	111.91779	178.92350	168.93205	7.42685	0.2312090	0.31125633	2.1563732	20	—	—
291908 2006 QM_{11}	15.5	X	161.43550	219.96250	127.56118	11.83930	0.0326792	0.17995690	3.1071129	20	1 30.2	20.0
291909 2006 QP_{11}	17.1	X	289.47279	241.80649	34.01417	2.86764	0.1781941	0.26539268	2.3981523	20	3 3.5	20.2
291910 2006 QU_{11}	15.9	X	23.94292	284.76515	331.39938	19.58339	0.1888335	0.21005275	2.8027464	20	8 5.7	19.0
291911 2006 QV_{11}	15.4	X	134.91831	357.36335	8.87910	5.41767	0.0725775	0.17779765	3.1322184	20	1 28.8	20.0
291912 2006 QK_{15}	16.6	X	66.16429	202.53718	202.99613	4.36679	0.1585422	0.24026797	2.5625487	20	—	—
291913 2006 QL_{15}	16.1	X	300.65535	95.37952	300.16961	8.83606	0.1544279	0.21354982	2.7720639	20	9 3.0	19.4
291914 2006 QD_{17}	17.2	X	15.59432	278.95750	357.95028	6.15749	0.1856292	0.28226118	2.3016288	20	8 28.7	19.2
291915 2006 QQ_{17}	17.0	X	289.16125	301.96885	66.42485	3.68523	0.1883696	0.27773316	2.3265777	20	7 10.5	19.3
291916 2006 QW_{17}	17.1	X	311.89892	290.93748	73.93034	5.75527	0.1939186	0.28157533	2.3053647	20	8 24.3	18.8
291917 2006 QS_{18}	16.4	X	29.90536	1.62994	351.90668	5.73506	0.1955136	0.22321856	2.6914265	20	12 23.9	20.0
291918 2006 QB_{19}	17.2	X	20.28043	347.51915	353.65411	7.55294	0.1647079	0.29131334	2.2536984	20	12 6.6	20.0
291919 2006 QU_{20}	17.0	X	59.57286	201.86498	174.65577	6.43901	0.2635673	0.30155281	2.2023878	20	—	—
291920 2006 QY_{22}	17.4	X	52.07921	19.63849	352.36726	6.08609	0.2470623	0.29910025	2.2144108	20	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
291921 2006 QL_{23}	17.0	X	339.01000	187.55865	175.08340	6.49642	0.1258559	0.28493034	2.2872322	20	10 23.4	18.9
291922 2006 QM_{23}	16.9	X	3.72765	61.41353	316.42556	3.97845	0.1742643	0.22087727	2.7104123	20	12 13.6	20.0
291923 Kuzmaskryabin	17.5	X	266.86895	4.39486	315.47974	1.74981	0.1989926	0.26658458	2.3909988	20	3 30.9	21.1
291924 2006 QJ_{25}	16.0	X	344.70764	186.24568	168.10784	12.75536	0.2157285	0.21363374	2.7713379	20	10 9.4	18.5
291925 2006 QD_{26}	16.9	X	85.50716	34.79474	303.12658	2.95156	0.1097753	0.23180519	2.6245446	20	—	—
291926 2006 QM_{26}	16.4	X	43.82733	165.66080	171.14761	5.07931	0.0548626	0.22302022	2.6930219	20	11 30.7	20.0
291927 2006 QH_{27}	16.6	X	14.96696	273.06804	51.93859	6.34161	0.1381383	0.28523455	2.2856056	20	11 1.6	18.9
291928 2006 QS_{27}	16.6	X	137.48149	340.33447	300.89289	4.24258	0.2356278	0.23416857	2.6068556	20	—	—
291929 2006 QG_{28}	16.4	X	78.95220	196.75424	129.40512	6.65192	0.1542069	0.22665310	2.6641680	20	—	—
291930 2006 QQ_{28}	17.9	X	300.11228	339.23779	338.38360	0.72833	0.1917155	0.27206155	2.3588008	20	5 10.9	20.7
291931 2006 QD_{29}	17.3	X	114.72766	299.28914	7.77336	2.00518	0.1982969	0.23365619	2.6106653	20	—	—
291932 2006 QJ_{29}	17.3	X	209.77846	298.72622	30.71378	2.86609	0.2167029	0.25698385	2.4501847	20	2 22.9	21.3
291933 2006 QE_{30}	17.2	X	305.16946	293.87826	79.81454	3.16776	0.2172711	0.28247132	2.3004872	20	8 17.8	18.9
291934 2006 QN_{30}	17.7	X	347.72802	18.64975	356.47819	1.38253	0.2387698	0.28927740	2.2642605	20	12 15.9	19.6
291935 2006 QS_{30}	15.4	X	341.28425	331.28133	358.58436	9.11937	0.1652572	0.21005866	2.8026938	20	8 23.5	18.2
291936 2006 QU_{30}	15.2	X	190.88264	10.42994	349.84348	18.99150	0.2257481	0.18347892	3.0672224	20	3 17.2	20.5
291937 2006 QD_{31}	15.2	X	147.29942	334.71776	15.79338	17.66060	0.2158640	0.17592120	3.1544520	20	2 11.1	20.6
291938 2006 QN_{32}	15.0	X	237.31524	65.09332	316.26463	10.72037	0.3121647	0.12368543	3.9895480	20	5 10.5	21.8
291939 2006 QX_{32}	16.0	X	42.47085	327.40978	317.81968	13.07792	0.1833198	0.21580531	2.7527153	20	10 3.2	19.8
291940 2006 QN_{33}	16.2	X	266.20207	217.13680	153.05458	11.23094	0.1164552	0.20019666	2.8939976	20	6 18.6	20.5
291941 2006 QW_{33}	16.9	X	112.55989	87.85628	219.12006	2.55785	0.2453721	0.23372052	2.6101862	20	—	—
291942 2006 QD_{34}	16.2	X	350.68242	85.23350	253.23623	7.85323	0.1627406	0.21438319	2.7648754	20	9 18.0	19.2
291943 2006 QB_{36}	16.6	X	30.31594	154.74671	196.80133	6.24728	0.2207233	0.22250055	2.6972135	20	12 24.9	20.3
291944 2006 QG_{36}	16.5	X	106.27705	310.37832	358.53919	4.57430	0.2958203	0.23246902	2.6195458	20	—	—
291945 2006 QL_{36}	17.2	X	31.76623	212.14206	78.78130	3.63064	0.1633140	0.28789996	2.2714769	20	10 15.3	19.7
291946 2006 QB_{37}	17.3	X	331.99476	254.37274	25.42094	4.12077	0.1697275	0.27387783	2.3483606	20	5 14.9	19.3
291947 2006 QZ_{38}	16.1	X	59.26003	181.95088	150.41459	9.29590	0.2781081	0.22444732	2.6815945	20	—	—
291948 2006 QV_{40}	18.0	X	6.04325	173.69453	155.87020	4.47422	0.1711441	0.28840847	2.2688061	20	10 31.6	20.1
291949 2006 QG_{41}	17.1	X	284.75369	245.05124	32.56937	3.70171	0.1733325	0.26381335	2.4077138	20	3 1.6	20.5
291950 2006 QM_{41}	17.5	X	207.19622	102.70767	222.93976	6.24038	0.1953545	0.25498673	2.4629617	20	2 12.9	21.7
291951 2006 QP_{41}	15.9	X	10.27908	296.86172	168.83545	27.67175	0.1328135	0.24044680	2.5612780	20	—	—
291952 2006 QL_{42}	17.7	X	219.38413	286.56669	64.83521	2.81339	0.1852092	0.26090569	2.4255692	20	3 29.1	21.6
291953 2006 QX_{42}	16.4	X	113.27295	342.88209	338.64598	10.51678	0.1906064	0.23380854	2.6095310	20	—	—
291954 2006 QC_{43}	17.3	X	80.67924	182.25031	121.71490	3.03833	0.2413191	0.29658190	2.2269285	20	—	—
291955 2006 QR_{43}	16.4	X	40.31317	23.42057	354.27327	11.19436	0.1906438	0.22675459	2.6633730	20	—	—
291956 2006 QM_{45}	17.5	X	152.85310	87.21093	200.72819	2.88890	0.1914902	0.30998471	2.1622664	20	—	—
291957 2006 QT_{46}	16.2	X	307.46214	57.36172	352.81275	10.30425	0.1344409	0.21762413	2.7373564	20	10 9.9	19.2
291958 2006 QL_{47}	16.9	X	122.74959	194.06768	136.43390	11.56884	0.1065163	0.23789249	2.5795794	20	—	—
291959 2006 QJ_{51}	16.8	X	245.30210	179.73104	93.47521	5.69906	0.1771297	0.25665457	2.4522799	20	1 16.3	20.7
291960 2006 QM_{51}	17.3	X	16.99387	113.10888	215.08974	6.16554	0.1652999	0.28986216	2.2612142	20	11 15.0	19.7
291961 2006 QW_{51}	15.8	X	217.96681	340.18161	30.07729	3.57775	0.0962864	0.19355406	2.9598375	20	4 26.2	20.3
291962 2006 QN_{52}	17.2	X	311.44497	176.11951	86.65105	3.24523	0.2042610	0.26682786	2.3895453	20	3 10.9	20.1
291963 2006 QO_{54}	17.5	X	272.62361	322.36501	6.19889	5.26420	0.1665065	0.26776828	2.3839472	20	4 21.5	20.6
291964 2006 QH_{58}	16.7	X	281.18009	72.23197	262.86604	8.27470	0.2575739	0.27037693	2.3685886	20	4 26.8	20.1
291965 2006 QY_{59}	17.0	X	311.22446	199.60675	147.08645	5.15720	0.2648277	0.27594706	2.3366063	20	7 3.9	18.8
291966 2006 QV_{60}	17.4	X	319.15053	232.80555	140.34344	1.95062	0.2250124	0.28328615	2.2960737	20	9 23.3	18.5
291967 2006 QO_{61}	16.6	X	298.41202	319.05631	310.00559	5.12642	0.0842007	0.26247847	2.4158701	20	3 16.7	19.7
291968 2006 QX_{63}	15.7	X	206.15395	8.25134	344.24120	10.73371	0.1096325	0.18394318	3.0620592	20	3 21.8	20.7
291969 2006 QX_{64}	16.7	X	42.93972	207.96306	155.58195	9.34964	0.1361546	0.22766968	2.6562315	20	—	—
291970 2006 QC_{66}	17.3	X	213.57666	280.08675	162.82633	7.06127	0.0633197	0.27700593	2.3306479	20	7 29.9	20.5
291971 2006 QC_{77}	15.4	X	126.96138	138.59645	329.73781	10.61288	0.1293209	0.19109260	2.9852002	20	5 23.8	20.1
291972 2006 QU_{77}	16.0	X	119.96943	224.24862	153.71391	5.60669	0.1963405	0.17295879	3.1903693	20	2 8.4	20.9
291973 2006 QD_{78}	17.1	X	20.94583	184.14568	152.29996	7.31169	0.1083657	0.28971782	2.2619652	20	11 24.7	19.8
291974 2006 QH_{78}	17.4	X	249.33588	247.43316	128.14268	1.92516	0.2004095	0.26854766	2.3793325	20	5 25.8	20.8
291975 2006 QJ_{78}	17.8	X	227.29156	344.01651	355.44528	1.94004	0.2358638	0.25940722	2.4349012	20	3 17.9	21.9
291976 2006 QR_{78}	15.3	X	164.17829	332.09895	21.40487	13.43377	0.2370258	0.17610962	3.1522017	20	2 26.9	20.8
291977 2006 QR_{79}	15.8	X	174.10104	40.44129	306.78446	5.14543	0.1425790	0.17992125	3.1075234	20	2 17.2	20.8
291978 2006 QJ_{83}	17.8	X	279.94968	89.97630	265.25323	0.73519	0.1620777	0.27329925	2.3516738	20	6 9.9	20.7
291979 2006 QT_{83}	16.4	X	129.48895	261.93658	339.18053	6.30971	0.1405396	0.22514798	2.6760281	20	11 11.2	20.7
291980 2006 QM_{86}	16.8	X	73.64300	102.88871	153.49811	8.61205	0.2412723	0.21965466	2.7204606	20	10 21.0	21.1
291981 2006 QH_{88}	16.0	X	6.46972	305.54845	355.42536	3.77089	0.0901694	0.20880172	2.8139303	20	8 23.4	19.3
291982 2006 QN_{88}	17.6	X	253.43688	262.43955	127.70502	2.12512	0.1913043	0.27166600	2.3610899	20	6 20.1	20.6
291983 2006 QN_{95}	17.3	X	306.33720	256.96461	98.60698	4.68057	0.1546001	0.27809074	2.3245829	20	7 29.3	19.5
291984 2006 QC_{96}	16.9	X	283.71049	295.73859	68.06499	7.75935	0.1823681	0.27483913	2.3428816	20	6 24.8	19.5
291985 2006 QZ_{96}	16.9	X	310.50826	145.86431	167.34671	6.73797	0.1181726	0.27148965	2.3621122	20	6 5.3	19.5
291986 2006 QJ_{97}	16.2	X	269.36514	190.36541	202.49322	5.75846	0.0878342	0.20403327	2.8576041	20	7 24.9	20.2
291987 2006 QK_{97}	17.7	X	341.37931	33.79062	266.54254	2.11258	0.1883661	0.27670374	2.3323445	20	7 11.9	19.0
291988 2006 QO_{99}	15.7	X	330.32625	346.13290	34.09423	10.15169	0.1302063	0.21520289	2.7578500	20	10 14.1	18.7
291989 2006 QQ_{100}	17.7	X	145.45651	7.37879	309.73898	3.66673	0.1338043	0.31117618	2.1567434	20	—	—
291990 2006 QO_{104}	17.1	X	263.84963	330.37549	335.36233	5.36506	0.1855269	0.26393196	2.4069925	20	3 11.2	20.8
291991 2006 QR_{105}	16.7	X	168.95737	138.35310	175.02421	8.97570	0.0655000	0.24477315	2.5310081	20	—	—
291992 2006 QB_{107}	17.3	X	290.04264	340.18297	320.88936	11.86986	0.2725525	0.26880289	2.3778261	20	3 17.8	20.9
291993 2006 QY_{107}	17.9	X	343.89620	185.22763	205.14203	2.58297	0.1679647	0.29056122	2.2575859	20	12 20.4	19.8
291994 2006 QO_{108}	17.6	X	285.47639	74.77554	238.10746	1.68365	0.2291602	0.26798849	2.3826411	20	4 7.8	20.9
291995 2006 QX_{111}	17.1	X	296.94419	146.56877	216.95321	6.61590	0.1411568	0.27808409	2.3246199	20	7 22.8	19.5
291996 2006 QO_{112}	17.1	X	292.06884	327.61596	61.49849	6.23566	0.1683267	0.28014457	2.3132074	20	8 25.2	19.3
291997 2006 QJ_{113}	17.0	X	246.06473	98.39155	277.19959	2.54947	0.2021878	0.26861277	2.3789480	20	5 21.3	20.4
291998 2006 QW_{114}	16.1	X	136.65004	353.53730	292.29607	11.46668	0.1945371	0.23423764	2.6063431	20	—	—
291999 2006 QX_{115}	16.2	X	356.63772	86.21499	245.26496	5.09581	0.1456954	0.21292875	2.7774517	20	9 19.7	19.2
292000 2006 QF_{117}	17.0	X	119.36788	190.25674	168.22865	14.99376	0.1749659	0.24083885	2.5584977	20	1 2.7	20.7