Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60001 Adélka	14.7	X	26.54679	285.15541	43.15124	1.65872	0.1544134	0.17986749	3.1081426	21	10 22.8	18.6
60002 1999 TU_5	13.9	X	195.13341	351.70241	71.87822	5.45593	0.1015539	0.20924566	2.8099488	21	5 31.7	18.2
60003 1999 TM_7	16.3	X	331.54643	325.73580	34.04252	3.56685	0.1723851	0.31179647	2.1538821	21	9 15.3	17.3
60004 1999 TC_{13}	14.1	X	352.43809	285.51385	55.00119	2.09063	0.2021588	0.17489996	3.1667194	21	9 10.7	17.4
60005 1999 TW_{15}	14.4	X	76.07616	94.40139	205.70535	5.15668	0.1625657	0.18247176	3.0784985	21	11 21.9	19.1
60006 Holgermandel	13.9	X	97.39891	226.63088	23.86971	17.17189	0.1754407	0.18074895	3.0980294	21	10 16.5	18.6
60007 1999 TO_{16}	14.4	X	104.80931	143.17251	111.98273	0.45917	0.1345232	0.18121736	3.0926885	21	10 25.4	19.0
60008 Jarda	14.2	X	15.97561	174.25670	191.31749	1.52487	0.1265892	0.18188263	3.0851425	21	11 20.1	18.1
60009 1999 TL_{17}	15.5	X	154.61548	179.69732	168.18267	14.83466	0.0992045	0.24263426	2.5458607	21	1 9.0	19.3
60010 1999 TK_{18}	14.9	X	323.96237	49.43531	282.73071	6.39649	0.3468974	0.22010318	2.7167636	21	6 2.7	17.7
60011 1999 TA_{20}	15.2	X	358.61057	121.83334	131.00188	4.45701	0.0425582	0.21056022	2.7982413	21	5 23.7	18.8
60012 1999 TU_{26}	14.6	X	30.65533	205.46173	218.94212	12.75977	0.1509015	0.18845547	3.0129845	21	—	—
60013 1999 TW_{26}	14.6	X	99.66055	298.36424	17.52776	5.79232	0.1880115	0.18665524	3.0323262	21	—	—
60014 1999 TW_{27}	15.0	X	306.80076	111.82038	293.10275	1.29571	0.2074851	0.26536042	2.3983467	21	9 17.6	16.9
60015 1999 TD_{31}	14.2	X	35.47473	279.69312	354.26244	5.07803	0.0121981	0.21819549	2.7325757	21	8 12.8	17.9
60016 1999 TJ_{33}	14.4	X	8.69741	6.63432	9.60992	9.97654	0.0836108	0.18218702	3.0817052	21	11 15.0	18.5
60017 1999 TP_{36}	13.9	X	33.08724	216.30279	187.31309	9.93514	0.0465493	0.18625484	3.0366705	21	—	—
60018 1999 TN_{37}	15.6	X	237.85309	239.58519	130.44078	7.89751	0.2381446	0.25538436	2.4604045	21	4 29.5	19.8
60019 1999 TW_{38}	14.0	X	261.23097	230.97568	193.02764	9.74757	0.2146732	0.17191977	3.2032106	21	7 26.9	18.9
60020 1999 TN_{39}	15.0	X	322.63203	215.26329	112.46027	8.80111	0.1025374	0.21535548	2.7565472	21	7 4.3	18.4
60021 1999 TT_{42}	15.1	X	116.59358	21.84833	189.95532	5.38500	0.1025397	0.17826125	3.1267855	21	9 11.1	19.9
60022 1999 TX_{44}	14.5	X	285.46451	117.26672	5.24156	7.85839	0.0358282	0.18412204	3.0600759	21	12 3.9	18.7
60023 1999 TC_{45}	14.4	X	87.96528	58.64331	215.29051	10.67651	0.1972552	0.18169764	3.0872362	21	11 6.5	19.1
60024 1999 TW_{47}	15.0	X	355.09578	285.37560	134.08595	1.78065	0.1312045	0.18533347	3.0467266	21	12 26.9	18.6
60025 1999 TY_{52}	14.9	X	291.98596	343.90834	357.98650	0.80753	0.2093587	0.17402443	3.1773317	21	5 23.4	19.4
60026 1999 TC_{72}	14.5	X	62.87896	55.02269	207.07465	4.64187	0.1467166	0.17522711	3.1627766	21	9 16.7	18.8
60027 1999 TP_{80}	16.2	X	189.62018	269.93185	61.72649	2.55050	0.1352153	0.24633866	2.5202735	21	1 29.9	20.0
60028 1999 TB_{81}	15.4	X	245.61626	340.72139	164.18543	4.40131	0.0955829	0.22770591	2.6559497	21	11 12.9	18.9
60029 1999 TM_{88}	14.1	X	339.99455	328.17337	337.71619	4.77010	0.1574871	0.17397800	3.1778971	21	6 29.1	17.8
60030 1999 TE_{89}	15.2	X	248.07377	229.34770	156.97077	5.67143	0.0756116	0.21510364	2.7586983	21	6 13.9	19.2
60031 1999 TH_{89}	14.6	X	72.96271	227.82794	96.26508	2.96868	0.1563495	0.18664551	3.0324316	21	12 16.2	19.1
60032 1999 TJ_{92}	14.7	X	223.01308	232.82969	158.58237	7.46730	0.2232593	0.21133610	2.7913883	21	5 15.3	19.6
60033 1999 TV_{92}	16.4	X	351.90968	246.96435	72.88187	4.32017	0.1173065	0.31096925	2.1577001	21	8 24.2	18.0
60034 1999 TX_{92}	15.6	X	46.37968	234.91712	72.60430	5.81455	0.1564991	0.27177160	2.3604782	21	11 10.0	18.5
60035 1999 TO_{93}	15.1	X	89.53970	291.58360	54.12080	5.09949	0.1539683	0.23541254	2.5976641	21	—	—
60036 1999 TD_{94}	14.1	X	45.61601	253.37784	48.81125	5.72039	0.1528733	0.18019085	3.1044230	21	10 18.3	18.2
60037 1999 TH_{94}	16.1	X	350.23337	191.80279	136.98595	2.95000	0.2467997	0.26714906	2.3876296	21	9 1.9	17.3
60038 1999 TR_{94}	14.1	X	312.37693	299.88496	46.79759	9.45167	0.1857862	0.17302977	3.1894968	21	7 2.4	18.2
60039 1999 TS_{94}	16.2	X	7.10830	262.81283	88.69084	4.72404	0.1792513	0.27100962	2.3649007	21	11 14.3	18.3
60040 1999 TK_{96}	14.6	X	299.38526	314.50191	56.83720	6.87775	0.0456781	0.21829624	2.7317349	21	8 8.6	18.2
60041 1999 TF_{100}	13.9	X	330.51051	318.23238	34.28255	8.28885	0.0784359	0.17579905	3.1559131	21	8 24.9	18.0
60042 1999 TF_{102}	12.8	X	62.12120	244.83296	172.23707	18.16210	0.0637534	0.14683247	3.5583990	21	—	—
60043 1999 TT_{102}	14.1	X	4.44369	196.92737	118.53852	16.98135	0.2587880	0.17510969	3.1641903	21	9 10.1	17.3
60044 1999 TA_{103}	14.2	X	68.07795	211.68855	102.47204	15.56619	0.1859150	0.18332508	3.0689381	21	12 4.8	18.9
60045 1999 TD_{104}	14.6	X	174.28537	283.48206	8.18744	12.98822	0.1784793	0.23992102	2.5650186	21	—	—
60046 1999 TL_{104}	16.1	X	330.26986	146.82806	200.14988	4.57882	0.1878584	0.26477846	2.4018596	21	8 7.9	18.0
60047 1999 TQ_{104}	14.3	X	197.24696	24.87087	221.21441	9.34132	0.0453350	0.19000144	2.9966185	21	—	—
60048 1999 TS_{104}	16.1	X	239.96690	6.75299	316.65575	3.07865	0.1632727	0.29706554	2.2245109	21	2 27.8	19.4
60049 1999 TW_{105}	13.6	X	349.57966	294.80074	34.55670	21.40470	0.1181701	0.17188877	3.2035957	21	9 1.1	17.9
60050 1999 TJ_{106}	14.0	X	311.01756	126.61430	199.40951	18.83109	0.0963610	0.17368905	3.1814206	21	6 14.9	18.6
60051 1999 TN_{106}	13.9	X	340.84416	136.45782	215.96238	21.47495	0.1543177	0.17935957	3.1140077	21	8 27.2	17.9
60052 1999 TM_{107}	13.8	X	75.98270	351.57304	306.95541	8.45177	0.0734717	0.18461185	3.0546608	21	11 5.4	18.3
60053 1999 TB_{109}	13.7	X	207.59762	251.15654	236.84930	15.07151	0.0258292	0.17852107	3.1237509	21	9 1.4	18.6
60054 1999 TF_{110}	15.0	X	324.55212	339.87924	286.81703	3.91099	0.1527265	0.30247959	2.1978869	21	3 21.0	17.3
60055 1999 TB_{112}	14.6	X	269.59069	101.14219	251.95132	2.90602	0.0885928	0.21386711	2.7693215	21	5 25.4	18.6
60056 1999 TG_{116}	15.0	X	85.68259	354.09525	295.59576	1.10967	0.2184295	0.18510193	3.0492667	21	11 24.5	19.7
60057 1999 TZ_{117}	13.4	X	45.81305	314.15324	352.82215	13.20075	0.1352684	0.18031850	3.1029577	21	10 16.1	17.6
60058 1999 TE_{118}	15.2	X	203.74456	170.56036	270.21873	3.52363	0.0355993	0.21493576	2.7601346	21	7 4.9	19.2
60059 1999 TG_{118}	15.7	X	187.97144	29.64513	243.22819	4.67452	0.1493379	0.28498904	2.2869181	21	—	—
60060 1999 TS_{118}	14.7	X	311.29909	123.01953	224.19273	4.43945	0.0716335	0.21750130	2.7383869	21	7 16.5	18.1
60061 1999 TY_{118}	16.4	X	135.86726	275.54574	192.41633	2.06017	0.1157591	0.29945572	2.2126581	21	5 22.6	19.3
60062 1999 TE_{119}	14.5	X	358.60939	248.28286	76.43806	2.23974	0.1880996	0.17664711	3.1458043	21	9 1.4	17.8
60063 1999 TN_{121}	14.6	X	131.94782	144.92245	176.51832	8.45262	0.2109053	0.19292185	2.9663002	21	—	—
60064 1999 TG_{123}	14.6	X	130.12970	317.90801	131.25443	2.90139	0.0358441	0.20619617	2.8375857	21	4 18.1	18.5
60065 1999 TR_{123}	14.1	X	18.87481	96.17189	196.95602	13.44772	0.1987769	0.17551012	3.1593757	21	8 24.9	17.8
60066 1999 TM_{124}	14.6	X	65.73238	222.14490	81.16930	2.41516	0.1762522	0.18215004	3.0821224	21	11 16.0	19.0
60067 1999 TH_{126}	14.8	X	73.46838	285.04076	19.71415	4.31843	0.1652036	0.18417639	3.0594739	21	11 23.8	19.3
60068 1999 TN_{127}	14.4	X	280.20681	348.09480	120.26084	2.14130	0.1167290	0.18090545	3.0962423	21	11 1.1	18.6
60069 1999 TK_{129}	15.1	X	193.60278	105.34398	194.73168	8.77558	0.1588836	0.19937970	2.9018977	21	1 2.8	20.0
60070 1999 TY_{129}	16.7	X	54.78525	84.88867	215.54099	1.75357	0.1943027	0.27296338	2.3536025	21	11 15.9	19.7
60071 1999 TY_{131}	15.4	X	156.66332	148.12564	238.42183	1.04612	0.1000178	0.20289340	2.8682969	21	3 6.9	19.8
60072 1999 TN_{132}	16.0	X	81.10647	46.86510	224.43417	2.53075	0.1607442	0.27211884	2.3584697	21	11 3.2	19.1
60073 1999 TQ_{135}	14.9	X	347.24656	164.16090	292.42655	1.47725	0.0712443	0.18866878	3.0107130	21	—	—
60074 1999 TV_{137}	16.0	X	225.43076	322.42288	352.79925	2.05146	0.0700033	0.24759834	2.5117181	21	2 13.4	19.7
60075 1999 TZ_{142}	15.1	X	152.39902	96.35291	201.58624	13.51868	0.1579036	0.19447638	2.9504719	21	—	—
60076 1999 TC_{143}	14.9	X	133.79271	124.08346	30.79024	2.83780	0.1641494	0.26178611	2.4201279	21	7 29.3	18.5
60077 1999 TZ_{143}	14.8	X	36.97523	191.45273	204.91887	14.97794	0.1038346	0.18864996	3.0109132	21	—	—
60078 1999 TS_{146}	14.1	X	157.72779	20.79849	174.96975	10.33319	0.0385719	0.17884898	3.1199315	21	10 4.5	18.6
60079 1999 TB_{147}	14.5	X	19.94602	167.65051	169.46522	11.46783	0.0965220	0.17980453	3.1088681	21	10 19.3	18.5
60080 1999 TG_{149}	14.2	X	337.26375	118.46935	179.49401	13.12993	0.1492183	0.17113127	3.2130425	21	6 14.3	18.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60081 1999 TV_{149}	15.4	X	273.94093	356.23073	49.78307	4.13229	0.0565969	0.21865334	2.7287598	21	8 17.5	19.0
60082 1999 TL_{150}	14.8	X	12.54023	234.05413	17.36473	3.82547	0.0438080	0.21263711	2.7799906	21	6 9.9	18.3
60083 1999 TG_{151}	14.4	X	157.32908	191.69910	147.08856	4.89926	0.0810345	0.19619054	2.9332607	21	1 8.8	18.7
60084 1999 TT_{151}	14.9	X	273.85792	235.24614	123.49883	2.81923	0.0396624	0.21289809	2.7777184	21	6 15.1	18.5
60085 1999 TA_{152}	14.5	X	60.10059	140.28107	182.24675	13.10879	0.2177804	0.18355169	3.0664117	21	12 8.8	19.2
60086 1999 TC_{152}	15.8	X	34.75580	132.73261	169.48715	6.29287	0.1219436	0.26766798	2.3845427	21	10 10.6	18.4
60087 1999 TY_{152}	14.9	X	139.99497	315.36327	14.38451	10.01798	0.0979267	0.19223681	2.9733430	21	—	—
60088 1999 TR_{153}	14.5	X	311.55488	21.99263	94.18043	3.08537	0.2334276	0.18486793	3.0518393	21	12 19.8	17.5
60089 1999 TK_{154}	15.0	X	111.85007	199.72052	200.00889	8.72864	0.1508539	0.19674833	2.9277142	21	2 6.4	19.2
60090 1999 TC_{156}	16.1	X	124.22369	237.10748	173.97834	5.33546	0.1247266	0.28947712	2.2632188	21	2 17.9	18.7
60091 1999 TG_{156}	14.4	X	11.93167	215.03089	127.33432	4.15161	0.1149071	0.22255919	2.6967397	21	10 22.4	17.6
60092 1999 TJ_{157}	14.3	X	136.47084	331.86283	294.60967	1.71408	0.0587512	0.18693120	3.0293412	21	12 5.3	18.7
60093 1999 TR_{157}	14.4	X	298.51344	109.27548	212.54572	8.09571	0.0281839	0.16830463	3.2489174	21	6 2.9	19.0
60094 1999 TQ_{161}	14.8	X	185.31760	164.00021	133.40965	2.98465	0.0626124	0.19493148	2.9458778	21	—	—
60095 1999 TX_{162}	14.3	X	80.06509	193.59623	55.76512	4.16573	0.1274217	0.17664660	3.1458102	21	9 22.4	18.9
60096 1999 TG_{166}	15.6	X	147.55607	79.45844	229.23263	9.43220	0.1492804	0.28407901	2.2917995	21	—	—
60097 1999 TZ_{166}	15.4	X	113.58493	350.26920	259.65032	4.44295	0.2232644	0.27398798	2.3477312	21	11 11.4	19.4
60098 1999 TM_{170}	14.9	X	189.32511	139.12004	202.16251	11.64255	0.0774307	0.20064373	2.8896971	21	2 10.3	19.5
60099 1999 TW_{173}	14.5	X	359.05568	208.64155	142.18410	3.06441	0.1050051	0.22194474	2.7017146	21	10 10.8	17.6
60100 1999 TV_{175}	15.1	X	168.87283	168.54116	284.66589	2.90294	0.0376819	0.20997071	2.8034764	21	6 8.5	19.0
60101 1999 TJ_{176}	14.8	X	92.85767	99.10554	213.82038	1.50937	0.1068115	0.18445441	3.0563988	21	12 17.9	19.4
60102 1999 TY_{182}	16.0	X	265.03888	18.09036	296.11095	3.41266	0.2156501	0.29926516	2.2135973	21	3 7.2	19.3
60103 1999 TP_{187}	14.1	X	27.35625	53.29482	333.14139	14.54278	0.0419832	0.18491419	3.0513304	21	12 22.2	18.5
60104 1999 TZ_{194}	14.7	X	319.83337	209.64627	317.05128	1.46914	0.1012823	0.19132170	2.9828167	21	—	—
60105 1999 TJ_{197}	15.7	X	274.08476	219.80874	305.47266	2.96070	0.0926889	0.27589647	2.3368919	21	—	—
60106 1999 TT_{201}	15.1	X	241.15125	227.04505	203.07539	6.45895	0.0647190	0.21924482	2.7238498	21	8 1.4	19.1
60107 1999 TY_{201}	13.8	X	0.18975	356.09769	198.39657	13.49248	0.0523121	0.15981238	3.3630173	21	3 13.5	18.4
60108 1999 TF_{205}	14.7	X	67.79212	277.21895	28.81807	10.94037	0.0815657	0.17952271	3.1121209	21	11 6.8	19.1
60109 1999 TO_{212}	14.4	X	51.61457	45.71642	260.57661	3.60370	0.1435850	0.18021225	3.1041772	21	10 27.5	18.6
60110 1999 TB_{213}	14.8	X	114.28422	167.00044	323.48234	3.28440	0.0919837	0.20906612	2.8115573	21	5 27.2	18.7
60111 1999 TL_{213}	14.5	X	66.68820	320.68640	349.90193	10.18535	0.1056297	0.18367627	3.0650249	21	11 12.9	19.0
60112 1999 TZ_{216}	17.0	X	45.90013	295.12117	45.68256	1.91867	0.1644116	0.31920306	2.1204336	21	—	—
60113 1999 TB_{217}	14.5	X	73.76286	119.38565	204.81613	10.80652	0.1036744	0.22761888	2.6566267	21	12 18.1	18.5
60114 1999 TD_{222}	14.2	X	350.37690	149.02936	212.92312	14.11025	0.1153441	0.17946212	3.1128213	21	10 1.4	18.1
60115 1999 TK_{222}	14.2	X	97.64387	110.85553	243.20267	9.08422	0.1038724	0.19265574	2.9690311	21	—	—
60116 1999 TW_{222}	13.7	X	27.27430	332.68202	109.55332	11.18880	0.0740104	0.19014164	2.9951453	21	—	—
60117 1999 TZ_{222}	14.1	X	100.71254	303.43403	308.39501	9.29002	0.0750825	0.18117801	3.0931363	21	10 6.1	18.8
60118 1999 TQ_{223}	16.4	X	185.65594	227.57744	140.41035	4.88616	0.1388732	0.29498828	2.2349418	21	3 6.4	19.7
60119 1999 TU_{223}	15.0	X	64.13225	101.37348	168.14853	12.83688	0.2458311	0.22550359	2.6732141	21	10 21.1	18.9
60120 1999 TW_{227}	15.1	X	142.03002	262.23789	19.34680	1.31907	0.1135837	0.18646723	3.0343642	21	12 29.6	19.9
60121 1999 TE_{235}	15.6	X	131.47599	1.37857	166.67836	2.72068	0.1067376	0.26072291	2.4267027	21	8 7.5	19.0
60122 1999 TU_{239}	14.3	X	71.25239	141.05754	168.90227	10.66240	0.0875510	0.18210794	3.0825973	21	11 20.6	18.9
60123 1999 TU_{240}	14.2	X	20.12628	179.87719	128.15560	6.22915	0.1556303	0.17595310	3.1540708	21	9 17.6	17.9
60124 1999 TG_{243}	13.9	X	11.31517	261.04681	77.40318	18.91430	0.2019085	0.17721572	3.1390716	21	10 25.4	17.8
60125 1999 TW_{246}	15.3	X	352.73709	259.04410	218.91599	1.59137	0.0461728	0.19465677	2.9486487	21	—	—
60126 1999 TU_{251}	15.3	X	227.68664	168.18418	210.59109	4.45242	0.0228461	0.21255987	2.7806641	21	5 15.5	19.2
60127 1999 TQ_{254}	13.8	X	309.95053	261.69131	104.06229	14.62421	0.0878080	0.17226005	3.1989908	21	8 8.0	18.1
60128 1999 TS_{254}	13.7	X	349.30604	183.32111	115.28097	16.73750	0.0651119	0.16950784	3.2335247	21	7 9.6	17.9
60129 1999 TG_{256}	14.8	X	11.13495	138.22128	202.61149	11.26036	0.0948037	0.18056899	3.1000874	21	10 7.6	18.7
60130 1999 TP_{256}	15.1	X	18.05609	229.56228	177.97984	1.98088	0.0722462	0.18798675	3.0179906	21	—	—
60131 1999 TY_{256}	14.5	X	108.77681	9.37878	220.07149	4.75283	0.0714107	0.17967824	3.1103247	21	9 20.5	19.2
60132 1999 TN_{259}	14.3	X	351.68697	151.32658	133.54694	2.36998	0.1288347	0.17036269	3.2226989	21	6 22.9	18.2
60133 1999 TM_{266}	15.0	X	204.26681	280.72693	233.33830	13.66763	0.0484605	0.22531879	2.6746756	21	10 6.1	18.9
60134 1999 TO_{272}	14.6	X	14.76340	43.04651	1.68868	9.35741	0.0777658	0.18524303	3.0477181	21	—	—
60135 1999 TS_{279}	14.3	X	201.06857	56.42899	47.55727	1.26220	0.1187694	0.17075861	3.2177155	21	7 27.2	19.2
60136 1999 TV_{279}	14.0	X	316.74922	204.90494	98.79769	2.05013	0.1654142	0.17061893	3.2194714	21	5 16.5	17.9
60137 1999 TC_{280}	14.0	X	335.61611	236.61710	71.84102	2.54691	0.1629919	0.17334604	3.1856160	21	6 23.6	17.7
60138 1999 TV_{280}	15.9	X	87.02320	221.85380	65.40365	3.35269	0.1961586	0.27586528	2.3370680	21	12 3.2	19.3
60139 1999 TP_{285}	16.8	X	12.13994	233.03158	118.84878	4.53374	0.0999435	0.31478396	2.1402327	21	11 21.4	18.9
60140 1999 TA_{288}	14.8	X	65.57886	219.83214	161.00160	2.61534	0.0969195	0.18874573	3.0098946	21	—	—
60141 1999 TE_{290}	13.9	X	75.20488	85.03810	198.95576	15.80095	0.2234587	0.17951959	3.1121568	21	11 9.5	18.7
60142 1999 TS_{290}	13.8	X	311.79999	316.58568	79.22967	10.46780	0.0791302	0.17386534	3.1792697	21	9 23.9	18.1
60143 1999 TV_{292}	14.5	X	285.12043	199.20926	277.38571	6.80410	0.1257277	0.18142962	3.0902759	21	11 14.9	18.5
60144 1999 TN_{293}	15.3	X	192.24993	37.39380	243.36464	7.98284	0.1461382	0.23829041	2.5767068	21	—	—
60145 1999 TB_{313}	16.9	X	215.01250	110.58919	164.10283	2.18020	0.1086498	0.28406774	2.2918601	21	—	—
60146 1999 TF_{316}	15.4	X	214.69878	231.62874	40.92915	5.13009	0.1552816	0.24118297	2.5560634	21	—	—
60147 1999 TC_{320}	14.1	X	63.15137	314.76359	349.50034	8.62267	0.0991255	0.18103864	3.0947235	21	10 31.1	18.6
60148 Seanurban	15.3	X	284.86387	225.43735	337.23172	0.95962	0.0523620	0.19521147	2.9430603	21	—	—
60149 1999 UC_{2}	14.8	X	161.39341	312.65534	23.97970	2.38490	0.0701428	0.19670245	2.9281695	21	1 10.2	19.0
60150 1999 UY_{2}	16.5	X	229.47671	213.17562	190.16647	4.37130	0.1556561	0.30337331	2.1935682	21	6 4.8	19.8
60151 1999 UZ_{6}	16.3	X	219.67968	260.82240	96.70462	5.99471	0.2075035	0.29504202	2.2346704	21	3 27.9	20.0
60152 1999 UG_{13}	13.6	X	102.63303	77.67230	207.09272	9.49944	0.0633514	0.18457140	3.0551072	21	11 21.8	18.2
60153 1999 UV_{13}	13.6	X	23.96696	19.26200	269.65753	4.21948	0.1518696	0.17600867	3.1534068	21	8 24.7	17.3
60154 1999 UB_{14}	16.4	X	57.36291	238.88777	85.09537	3.36156	0.2220827	0.27403562	2.3474591	21	12 22.6	19.5
60155 1999 UJ_{17}	14.6	X	188.08928	317.55720	186.28919	5.30506	0.0634398	0.17664759	3.1457985	21	9 1.9	19.4
60156 1999 UK_{18}	15.2	X	329.97685	194.36586	133.72475	2.59086	0.0769919	0.21753414	2.7381113	21	7 19.5	18.4
60157 1999 UT_{23}	13.6	X	241.89789	262.18427	229.88837	15.19946	0.1947129	0.17830561	3.1262668	21	9 29.0	18.6
60158 1999 UH_{24}	13.6	X	341.34939	58.23920	234.93684	15.11568	0.0467041	0.16802738	3.2524903	21	6 20.6	18.1
60159 1999 UL_{24}	14.7	X	29.12420	65.50997	249.76157	9.25424	0.2215278	0.22441872	2.6818223	21	10 25.3	17.8
60160 1999 UQ_{25}	13.8	X	275.02981	154.13688	243.53883	4.00768	0.1436895	0.21569561	2.7536486	21	7 21.9	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60161 1999 UZ_{25}	16.2	X	255.62391	127.27399	252.13472	2.71324	0.1559494	0.30428367	2.1891908	21	5 31.1	19.1
60162 1999 UE_{26}	14.1	X	92.33017	62.30801	233.25728	9.92368	0.1454273	0.18424251	3.0587419	21	11 30.9	18.9
60163 1999 UE_{28}	14.7	X	16.81432	66.57442	194.46689	5.02427	0.1250772	0.17297285	3.1901964	21	7 4.1	18.6
60164 1999 UF_{28}	15.3	X	36.42238	251.74809	203.52966	1.85403	0.0534841	0.19672894	2.9279065	21	—	—
60165 1999 UZ_{30}	14.2	X	353.95602	158.01602	99.17853	2.61538	0.1711572	0.16841372	3.2475142	21	5 18.7	17.7
60166 1999 UC_{31}	15.2	X	338.46147	208.33146	79.33290	2.69436	0.1495563	0.17010390	3.2259666	21	6 1.8	19.0
60167 1999 UN_{33}	14.3	X	47.07135	4.78394	212.47803	7.09342	0.1447684	0.21108774	2.7935774	21	6 27.4	17.6
60168 1999 UV_{41}	14.9	X	303.61697	111.35307	243.81750	5.06088	0.0371109	0.21826431	2.7320012	21	7 20.5	18.5
60169 1999 UH_{44}	15.2	X	288.10176	223.79126	7.97619	7.40078	0.0515355	0.28791769	2.2713836	21	1 4.0	18.2
60170 1999 US_{45}	15.5	X	240.01866	251.09903	261.35690	6.47982	0.0410695	0.27199177	2.3592042	21	11 30.3	18.4
60171 1999 UP_{47}	14.1	X	165.39120	8.89385	277.40126	7.82591	0.0699639	0.19161864	2.9797343	21	—	—
60172 1999 UY_{48}	13.9	X	35.48244	301.96643	351.31782	15.59992	0.0712945	0.17558482	3.1584796	21	9 10.4	18.1
60173 1999 UV_{50}	14.8	X	243.29558	322.99567	77.48371	7.37337	0.0404747	0.21261913	2.7801474	21	6 30.8	18.7
60174 1999 UV_{56}	14.4	X	93.89318	187.30050	93.38339	3.04102	0.1531595	0.18157829	3.0885888	21	11 15.9	19.1
60175 1999 VQ_{1}	14.4	X	38.52230	255.98257	33.25799	16.01344	0.2127328	0.17669495	3.1452364	21	10 3.9	18.4
60176 1999 VY_{5}	15.6	X	160.75570	341.87547	66.23565	8.55693	0.1417072	0.29254111	2.2473883	21	4 5.8	18.9
60177 1999 VU_{6}	15.0	X	293.71895	135.50329	56.09632	2.36639	0.1028352	0.28287621	2.2982914	21	—	—
60178 1999 VY_{6}	15.1	X	165.43302	267.47249	118.08918	13.63325	0.2074344	0.24715373	2.5147294	21	3 23.2	19.4
60179 1999 VE_{7}	14.5	X	77.40895	258.92326	46.73430	2.57175	0.1716183	0.18276516	3.0752029	21	11 30.1	19.2
60180 1999 VK_{8}	15.1	X	24.69582	292.97711	63.84063	1.07520	0.1777861	0.18068834	3.0987221	21	11 28.4	18.9
60181 1999 VV_{9}	13.7	X	353.65895	205.16584	173.02734	17.85079	0.2085248	0.17953702	3.1119555	21	11 8.8	17.2
60182 1999 VS_{10}	14.1	X	2.73769	301.44088	107.65591	7.44808	0.1021006	0.27199485	2.3591865	21	—	—
60183 Falcone	15.0	X	193.32854	252.29365	92.34617	3.16758	0.0782137	0.19978052	2.8980149	21	2 23.2	19.4
60184 1999 VM_{16}	15.1	X	147.57138	309.41876	222.14373	12.66038	0.0687505	0.21726158	2.7404008	21	8 21.3	19.4
60185 1999 VY_{21}	15.6	X	350.13153	50.83393	175.11827	2.35103	0.0868118	0.29332989	2.2433576	21	3 17.4	17.5
60186 Las Cruces	12.9	X	237.90784	61.66190	41.19012	14.75807	0.1747788	0.17327911	3.1864363	21	9 3.1	18.1
60187 1999 VL_{23}	14.9	X	111.84292	211.59109	222.00176	23.57955	0.2646920	0.28936896	2.2637828	21	3 22.1	18.2
60188 1999 VH_{25}	15.1	X	47.23231	19.80153	21.62628	3.24029	0.1686295	0.27669875	2.3323725	21	—	—
60189 1999 VM_{27}	13.6	X	91.23851	44.23979	226.81561	13.24726	0.1211348	0.18009079	3.1055728	21	10 27.9	18.3
60190 1999 VG_{31}	13.7	X	126.45769	213.18831	63.40358	10.28355	0.0200522	0.18034849	3.1026138	21	12 3.3	18.0
60191 1999 VP_{35}	15.3	X	288.38657	115.57881	233.47393	5.92808	0.0828329	0.25602730	2.4562837	21	6 13.7	18.4
60192 1999 VU_{42}	16.2	X	197.17125	246.78259	7.16934	4.17498	0.2104182	0.28208314	2.3025971	21	—	—
60193 1999 VJ_{43}	15.5	X	21.14785	99.49741	21.14612	5.95770	0.1107908	0.28612975	2.2808359	21	—	—
60194 1999 VU_{43}	15.0	X	353.62206	309.71431	45.40401	1.35317	0.2697359	0.17841273	3.1250154	21	10 7.6	17.6
60195 1999 VM_{44}	14.8	X	14.49102	66.20576	251.98590	4.45258	0.0554748	0.22004268	2.7172615	21	9 12.3	18.4
60196 1999 VG_{52}	14.9	X	315.47154	62.83660	268.90561	3.30588	0.0755486	0.21240209	2.7820410	21	7 1.9	18.4
60197 1999 VO_{52}	14.3	X	135.65224	295.06020	72.47703	11.74780	0.1922485	0.23939136	2.5688006	21	1 28.0	18.1
60198 1999 VT_{54}	15.0	X	262.35662	214.95648	214.36693	9.59629	0.0375271	0.21857883	2.7293799	21	8 30.4	18.9
60199 1999 VF_{56}	16.0	X	14.52384	266.39354	61.58647	2.12362	0.2053748	0.26841018	2.3801449	21	10 26.9	18.1
60200 1999 VV_{56}	14.9	X	78.55925	230.88068	70.94805	2.67745	0.2915958	0.18389576	3.0625857	21	12 9.1	19.9
60201 1999 VD_{58}	14.7	X	239.49549	326.58335	49.44557	5.18600	0.1205682	0.20907391	2.8114875	21	5 16.5	18.8
60202 1999 VU_{58}	13.5	X	45.47842	67.03763	228.26411	11.32035	0.1722379	0.17549396	3.1595696	21	10 7.8	17.8
60203 1999 VK_{59}	16.6	X	120.78385	105.65235	267.61692	0.86415	0.1421477	0.28513787	2.2861223	21	—	—
60204 1999 VO_{63}	13.7	X	68.96438	223.54679	241.42363	0.89009	0.0756374	0.19755389	2.9197500	21	2 22.4	17.5
60205 1999 VS_{64}	14.4	X	190.89231	72.45042	57.36053	5.37168	0.0792910	0.16887047	3.2416558	21	8 21.1	19.4
60206 1999 VZ_{68}	16.4	X	184.68752	79.81074	230.74193	4.65005	0.1529361	0.28604544	2.2812841	21	—	—
60207 1999 VA_{69}	15.0	X	235.30747	264.07698	41.50939	2.52280	0.0522279	0.19949645	2.9007654	21	2 21.1	19.2
60208 1999 VQ_{72}	13.6	X	9.36246	65.06556	231.35221	4.51668	0.1563662	0.17447432	3.1718676	21	8 8.9	17.3
60209 1999 VR_{75}	15.9	X	135.86358	186.71808	147.95224	1.12469	0.1484791	0.23704939	2.5856922	21	—	—
60210 1999 VN_{76}	15.8	X	199.90730	126.36225	95.45083	3.08383	0.1717970	0.27348256	2.3506229	21	12 24.3	19.0
60211 1999 VX_{77}	16.2	X	86.10588	306.49286	25.84892	2.60174	0.1060718	0.27526374	2.3404716	21	—	—
60212 1999 VB_{79}	13.9	X	56.62992	268.22042	32.34792	7.96245	0.0105381	0.17697012	3.1419751	21	10 10.0	18.3
60213 1999 VE_{79}	15.7	X	152.30123	339.86002	238.53121	5.49196	0.0649075	0.26933148	2.3747139	21	11 5.4	18.9
60214 1999 VO_{81}	14.4	X	103.80774	94.14367	203.80691	13.90942	0.2278868	0.18774481	3.0205829	21	12 19.9	19.7
60215 1999 VQ_{81}	15.2	X	312.61769	265.06902	203.66539	4.33563	0.2075075	0.27459867	2.3442491	21	—	—
60216 1999 VG_{82}	16.4	X	41.59823	96.31232	216.22977	4.34006	0.3148721	0.27251665	2.3561739	21	12 3.1	19.5
60217 1999 VC_{89}	15.8	X	23.36761	109.88240	205.22165	3.25852	0.0851894	0.26537175	2.3982784	21	10 3.0	18.2
60218 1999 VP_{92}	14.3	X	26.26791	104.50235	201.15072	3.38510	0.1696665	0.17807783	3.1289322	21	9 23.9	17.9
60219 1999 VY_{93}	15.1	X	51.46754	349.14734	29.64220	3.30216	0.0618555	0.18739762	3.0243125	21	—	—
60220 1999 VA_{95}	16.0	X	228.41099	265.21972	31.42521	3.46405	0.0739697	0.24543488	2.5264567	21	1 25.3	19.8
60221 1999 VY_{96}	15.3	X	333.42148	276.96116	39.83104	2.44258	0.0942482	0.21499244	2.7596495	21	7 8.1	18.5
60222 1999 VB_{115}	13.7	X	102.83274	314.22138	336.99272	8.88568	0.0829603	0.18348789	3.0671224	21	11 28.6	18.5
60223 1999 VD_{118}	15.3	X	149.31116	12.37338	63.30133	2.89852	0.0665158	0.20688368	2.8312957	21	4 26.5	19.3
60224 1999 VE_{118}	15.7	X	173.42514	112.05275	179.68568	4.07463	0.2545181	0.24130479	2.5552030	21	—	—
60225 1999 VK_{122}	16.7	X	10.49934	230.59556	65.60409	8.01233	0.1542351	0.30713888	2.1756024	21	8 30.7	18.4
60226 1999 VF_{126}	15.7	X	89.45769	174.51548	36.73172	2.77185	0.0077357	0.21706286	2.7420732	21	7 31.3	19.4
60227 1999 VD_{133}	14.6	X	88.42891	265.61066	5.21450	11.13996	0.1482303	0.18357771	3.0661220	21	10 25.9	19.3
60228 1999 VL_{145}	14.4	X	131.13868	108.64028	198.52643	9.95277	0.1126308	0.18998059	2.9968378	21	—	—
60229 1999 VZ_{145}	16.4	X	53.55585	277.61641	184.67782	3.34028	0.0335612	0.28845640	2.2685547	21	1 3.4	19.0
60230 1999 VD_{146}	16.0	X	197.42197	110.12607	210.73469	13.35959	0.1287787	0.24465739	2.5318064	21	1 19.9	20.2
60231 1999 VK_{148}	15.2	X	119.88689	240.13249	153.94650	2.12245	0.1308735	0.19602046	2.9349573	21	2 8.8	19.3
60232 1999 VL_{148}	13.8	X	302.55090	147.55357	209.60043	8.16202	0.2135145	0.12497838	3.9619846	21	6 26.3	19.1
60233 1999 VZ_{153}	14.5	X	245.02274	338.25667	176.22407	12.15944	0.1782959	0.22267617	2.6957952	21	11 12.9	18.4
60234 1999 VK_{157}	16.4	X	61.65922	107.48969	212.29503	20.29959	0.1210936	0.36504883	1.9389595	21	12 24.9	19.2
60235 1999 VO_{163}	13.6	X	155.45701	314.65119	38.55719	10.34863	0.0971005	0.15098052	3.4929211	21	2 5.9	19.0
60236 1999 VH_{165}	15.1	X	22.30604	24.82438	17.00496	4.09639	0.0338069	0.18395436	3.0619351	21	—	—
60237 1999 VS_{167}	16.0	X	92.52864	45.62291	272.16021	4.51698	0.1327186	0.27422585	2.3463734	21	—	—
60238 1999 VQ_{174}	15.9	X	188.28209	129.91825	197.13182	11.19993	0.1366038	0.24541324	2.5266053	21	1 19.9	20.0
60239 1999 VE_{176}	16.0	X	148.15754	252.60808	146.25299	7.10424	0.1280954	0.29190737	2.2506399	21	3 5.7	19.0
60240 1999 VO_{178}	15.0	X	292.67291	244.16308	127.71076	7.57435	0.0504160	0.21591532	2.7517802	21	7 27.0	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60241 1999 VJ_{180}	15.7	X	176.14964	207.94880	111.30586	6.70268	0.2361414	0.28853258	2.2681554	21	1 1.9	19.2
60242 1999 VJ_{184}	14.9	X	53.85473	238.75814	71.31449	4.03191	0.0741422	0.22410681	2.6843100	21	11 2.8	18.3
60243 1999 VM_{184}	15.3	X	63.49384	283.87484	58.66658	5.61855	0.0763502	0.22943368	2.6425990	21	12 26.1	18.9
60244 1999 VN_{186}	16.2	X	97.19643	200.99378	202.86595	7.68373	0.1207980	0.28546262	2.2843881	21	—	—
60245 1999 VA_{190}	15.9	X	76.99030	158.01751	231.13426	6.10749	0.0609021	0.27899536	2.3195553	21	—	—
60246 1999 VP_{190}	15.7	X	61.34469	93.39031	217.43386	5.91692	0.1415205	0.26901702	2.3765642	21	11 29.8	18.9
60247 1999 VW_{193}	14.8	X	221.25674	302.89274	224.78025	12.20927	0.1097284	0.22616009	2.6680384	21	11 9.0	18.6
60248 1999 VW_{197}	15.2	X	250.14794	203.13586	182.32033	11.75767	0.2054912	0.25823172	2.4422849	21	5 31.3	19.1
60249 1999 VC_{199}	13.6	X	355.81929	223.38957	85.63329	18.17542	0.1113083	0.17090229	3.2159118	21	8 5.4	17.8
60250 1999 VO_{200}	14.3	X	353.33493	248.35247	130.17261	17.67102	0.1161180	0.17786999	3.1313691	21	11 6.2	18.5
60251 1999 VO_{202}	14.4	X	238.09503	296.45053	214.84533	15.79840	0.1803342	0.17993247	3.1073942	21	10 23.5	18.9
60252 1999 VP_{204}	16.0	X	303.58391	355.05613	251.76231	1.78781	0.1349182	0.24685916	2.5167295	21	2 7.1	19.3
60253 1999 VB_{225}	14.3	X	53.75381	192.74533	142.13373	6.51994	0.1675134	0.18207509	3.0829681	21	12 9.4	18.7
60254 1999 VO_{226}	13.9	X	338.81821	292.39780	119.45134	13.40320	0.0781664	0.17889231	3.1194278	21	11 22.1	18.1
60255 1999 WO_{4}	15.5	X	125.97043	231.19172	159.13077	4.05311	0.1542776	0.28542781	2.2845738	21	1 28.6	18.1
60256 1999 WB_{20}	14.3	X	213.97541	1.82076	150.25772	10.00476	0.0310837	0.17510036	3.1643027	21	10 17.8	18.9
60257 1999 WB_{25}	12.9	X	268.60020	36.93584	91.39716	2.27891	0.0336030	0.08626513	5.0727780	21	11 6.9	19.6
60258 1999 XL_{4}	13.9	X	359.69697	295.32589	81.74750	6.05160	0.1617557	0.17828944	3.1264559	21	11 12.4	17.4
60259 1999 XY_{5}	15.3	X	249.65016	2.83091	254.50441	3.57775	0.1862860	0.28482074	2.2878189	21	—	—
60260 1999 XO_{6}	15.7	X	270.21642	200.90464	277.59667	5.37936	0.0635742	0.26875495	2.3781089	21	11 22.2	18.4
60261 1999 XC_{14}	14.7	X	39.27184	247.10735	122.00031	10.68072	0.0749189	0.18097904	3.0954030	21	12 19.6	19.0
60262 1999 XB_{18}	13.8	X	99.96564	326.53273	26.39784	10.93552	0.1162669	0.19199892	2.9757985	21	—	—
60263 1999 XB_{20}	14.3	X	41.30777	323.23277	53.00280	13.55797	0.1934407	0.23089646	2.6314262	21	—	—
60264 1999 XX_{21}	15.1	X	38.13694	263.51819	220.81978	3.39660	0.2138075	0.23387694	2.6090222	21	1 23.9	17.3
60265 1999 XY_{22}	13.5	X	10.57717	269.67051	55.71136	6.37899	0.2132113	0.17664557	3.1458225	21	9 30.9	16.9
60266 1999 XB_{25}	13.0	X	299.42505	214.28758	63.50630	12.61126	0.0742390	0.15852591	3.3811872	21	4 9.7	17.8
60267 1999 XF_{27}	14.0	X	255.09031	152.18468	63.13138	11.07272	0.0437279	0.18958311	3.0010251	21	—	—
60268 1999 XU_{38}	13.4	X	273.56452	300.33573	39.14514	13.43880	0.0711873	0.16924227	3.2369065	21	5 16.0	18.0
60269 1999 XN_{46}	16.0	X	101.72478	129.92769	249.34670	5.59615	0.1295674	0.28241707	2.3007817	21	—	—
60270 1999 XJ_{54}	16.0	X	232.99437	202.14676	84.50297	6.89094	0.1045129	0.28666908	2.2779743	21	1 9.1	19.2
60271 1999 XN_{56}	16.3	X	219.65218	232.82015	93.35236	1.70201	0.2181909	0.29194181	2.2504629	21	2 14.5	20.1
60272 1999 XT_{64}	16.4	X	305.95670	288.81108	78.62899	2.69620	0.1920069	0.30685982	2.1769212	21	7 22.9	18.2
60273 1999 XM_{70}	15.4	X	26.24077	250.92190	236.53710	4.27945	0.1497566	0.23656647	2.5892099	21	1 4.9	18.1
60274 1999 XJ_{82}	15.6	X	338.92027	50.04343	101.49411	3.80769	0.0553817	0.23455484	2.6039929	21	—	—
60275 1999 XH_{85}	15.1	X	52.77486	102.64273	282.23403	5.56862	0.1425024	0.27371258	2.3493057	21	—	—
60276 1999 XL_{85}	15.8	X	229.62999	290.98755	90.54493	6.59139	0.1367428	0.29586122	2.2305434	21	5 9.1	19.0
60277 1999 XH_{89}	15.3	X	3.90399	39.70591	99.26386	4.29950	0.1102982	0.23332677	2.6131219	21	—	—
60278 1999 XE_{91}	15.3	X	310.69967	287.54154	256.77191	3.16910	0.1074374	0.27692754	2.3310877	21	—	—
60279 1999 XQ_{92}	15.6	X	154.70852	48.30525	117.19792	5.44182	0.1228706	0.25541112	2.4602327	21	9 1.1	19.4
60280 1999 XZ_{94}	15.0	X	4.14763	68.84913	101.66497	4.58324	0.1874238	0.23389762	2.6088685	21	1 21.9	17.6
60281 1999 XF_{95}	15.9	X	313.26362	85.53830	13.01339	2.65006	0.1391675	0.26934917	2.3746100	21	—	—
60282 1999 XK_{96}	15.4	X	222.12201	76.17226	46.64557	3.07479	0.1308406	0.26116102	2.4239881	21	9 15.9	18.7
60283 1999 XB_{101}	15.1	X	341.28750	236.66795	287.28150	5.15497	0.0464925	0.27989534	2.3145804	21	—	—
60284 1999 XY_{102}	14.6	X	329.27253	96.42198	88.52000	13.61205	0.1071805	0.23388689	2.6089482	21	—	—
60285 1999 XR_{106}	15.1	X	254.98699	164.61635	262.00040	5.45433	0.0992592	0.26234098	2.4167142	21	8 11.4	18.4
60286 1999 XG_{107}	14.4	X	333.55332	8.09596	60.16412	5.31322	0.0467903	0.18174660	3.0866817	21	12 1.1	18.6
60287 1999 XV_{111}	15.8	X	173.28621	41.46883	272.23897	3.30383	0.2300093	0.28413463	2.2915004	21	—	—
60288 1999 XW_{114}	12.7	X	34.43142	130.62409	267.53133	23.33011	0.0673371	0.18530641	3.0470231	21	—	—
60289 1999 XS_{125}	14.4	X	138.76521	260.94167	30.91761	9.87281	0.0845053	0.18457747	3.0550401	21	—	—
60290 1999 XJ_{127}	14.0	X	129.52339	265.22006	106.62886	14.37022	0.1816096	0.19451852	2.9500457	21	1 31.7	18.4
60291 1999 XV_{140}	15.7	X	316.51823	211.92270	107.02483	7.38153	0.1525627	0.25165981	2.4846209	21	6 3.7	18.5
60292 1999 XO_{143}	15.3	X	152.32873	258.87033	231.79985	8.67940	0.1897405	0.29434857	2.2381787	21	7 14.2	19.0
60293 1999 XZ_{148}	16.1	X	276.16386	291.73223	247.70481	2.94656	0.0845343	0.27724829	2.3292895	21	—	—
60294 1999 XZ_{152}	16.7	X	101.85862	204.64845	209.79238	6.26888	0.0880708	0.28425496	2.2908537	21	1 15.5	19.4
60295 1999 XL_{154}	14.8	X	253.17782	63.86033	241.97294	14.74975	0.0830446	0.24512725	2.5285701	21	2 24.3	18.9
60296 1999 XF_{156}	15.4	X	64.93728	307.46960	190.15607	3.05691	0.1145893	0.24259958	2.5461033	21	3 29.2	18.1
60297 1999 XD_{157}	15.9	X	64.36640	253.97819	126.63380	3.96940	0.0941276	0.27557975	2.3386820	21	—	—
60298 1999 XF_{168}	14.9	X	35.43334	62.76098	285.43241	5.65663	0.1426881	0.26938408	2.3744048	21	12 16.4	17.7
60299 1999 XX_{174}	15.3	X	337.19821	113.45871	21.13324	5.25334	0.1233121	0.22853232	2.6495429	21	—	—
60300 1999 XV_{176}	13.5	X	157.55857	34.40912	303.31404	22.89688	0.2071375	0.27961665	2.3161181	21	1 8.7	16.9
60301 1999 XL_{178}	15.3	X	225.71385	88.28131	82.04356	6.53256	0.0668095	0.26501361	2.4004386	21	11 30.5	18.4
60302 1999 XM_{180}	15.6	X	327.31969	7.90748	44.02621	8.62001	0.1329512	0.30900825	2.1668192	21	11 30.9	17.3
60303 1999 XW_{184}	14.1	X	17.71421	333.86079	43.88506	20.73200	0.2486891	0.18020529	3.1042572	21	12 21.9	18.1
60304 1999 XT_{189}	15.8	X	146.46907	57.93624	329.76865	5.87885	0.1305725	0.28731502	2.2745588	21	2 16.9	18.6
60305 1999 XU_{190}	15.3	X	322.46380	115.29705	3.30331	5.14432	0.1746736	0.27289301	2.3540071	21	—	—
60306 1999 XW_{190}	14.0	X	97.72489	315.21719	60.17127	11.56097	0.1066535	0.18775171	3.0205088	21	—	—
60307 1999 XR_{193}	14.4	X	63.48196	301.95058	55.07210	10.52787	0.0699250	0.18013562	3.1050575	21	—	—
60308 1999 XH_{204}	15.5	X	74.66735	197.19448	339.30410	6.78317	0.0640732	0.29270827	2.2465326	21	5 26.4	18.0
60309 1999 XZ_{206}	14.7	X	5.90851	261.34409	37.02481	6.39227	0.1941319	0.30191804	2.2006113	21	8 26.3	16.1
60310 1999 XD_{215}	14.8	X	55.04635	251.08280	113.43441	13.57947	0.1817943	0.22626270	2.6672317	21	—	—
60311 1999 XS_{216}	15.7	X	69.41640	262.74533	103.29413	7.52745	0.1266333	0.27269033	2.3551734	21	—	—
60312 1999 XM_{218}	16.3	X	5.40967	38.08041	293.48620	3.29051	0.1826921	0.30589824	2.1814808	21	10 15.6	17.9
60313 1999 XW_{218}	12.6	X	300.10001	326.97430	123.34848	3.38489	0.0772690	0.08088662	5.2952312	21	10 27.1	19.3
60314 1999 XU_{226}	14.3	X	69.47133	349.05746	329.88838	3.05237	0.1686928	0.17367837	3.1815510	21	12 5.4	19.0
60315 1999 XF_{227}	16.1	X	34.68749	325.01365	286.55581	6.04142	0.0998969	0.29635225	2.2280789	21	7 21.8	18.2
60316 1999 XU_{228}	15.4	X	115.61412	306.75093	85.08970	4.52092	0.1226912	0.23572759	2.5953490	21	1 23.9	18.8
60317 1999 XD_{234}	16.7	X	217.48759	204.92905	147.57897	5.99935	0.1945645	0.29502014	2.2347808	21	3 17.9	20.2
60318 1999 XB_{235}	13.4	X	285.86928	250.94517	121.32431	7.12967	0.2007208	0.12299168	4.0045363	21	6 25.6	18.9
60319 1999 XL_{242}	15.2	X	65.46394	99.80327	339.25244	12.41225	0.1313141	0.23472287	2.6027499	21	1 14.2	18.2
60320 1999 XG_{253}	15.0	X	120.07751	210.61110	93.95637	3.51573	0.1740651	0.18498211	3.0505834	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60321 1999 XK_{254}	16.5	X	145.91952	40.42955	282.33271	1.72239	0.1728532	0.27636242	2.3342645	21	—	—
60322 1999 XB_{257}	12.0	X	305.11181	292.97280	128.99478	10.31507	0.0240783	0.08420505	5.1551814	21	10 10.1	18.8
60323 1999 YC_{8}	15.7	X	278.10006	220.16617	103.70329	4.56430	0.1919930	0.29374815	2.2412276	21	4 9.0	18.8
60324 1999 YX_{10}	16.0	X	85.04704	187.47877	111.57821	5.03966	0.1963640	0.22549809	2.6732575	21	12 9.1	20.2
60325 1999 YQ_{12}	16.1	X	143.01697	322.28179	311.57154	1.67306	0.0578972	0.26786857	2.3833521	21	—	—
60326 1999 YB_{23}	15.5	X	1.86294	256.64897	202.51803	6.01396	0.0686942	0.27745209	2.3281487	21	—	—
60327 2000 AW_{5}	15.2	X	48.50871	218.09182	94.61287	4.05593	0.0839446	0.21660534	2.7459330	21	10 31.0	18.9
60328 2000 AH_{7}	12.1	X	274.12578	159.78598	299.68891	10.34936	0.0603907	0.08264404	5.2198940	21	10 2.9	19.2
60329 2000 AL_{11}	14.2	X	17.00381	272.51655	77.38447	10.27723	0.0921155	0.17538986	3.1608198	21	10 31.1	18.4
60330 2000 AG_{17}	15.8	X	268.26643	118.07440	32.97048	2.54477	0.1478947	0.26882784	2.3776790	21	12 23.6	18.1
60331 2000 AS_{29}	14.5	X	159.11558	151.56130	56.01244	5.98120	0.1133350	0.21457223	2.7632512	21	10 24.6	18.7
60332 2000 AJ_{35}	15.9	X	200.26323	316.27804	85.49650	5.98564	0.1332605	0.29483613	2.2357106	21	5 5.6	19.3
60333 2000 AY_{40}	15.5	X	80.46466	124.37279	17.13445	4.05297	0.1667803	0.24147920	2.5539726	21	5 6.2	18.4
60334 2000 AN_{42}	15.5	X	162.58973	228.59644	87.78423	24.56821	0.0629378	0.36273526	1.9471954	21	—	—
60335 2000 AR_{42}	16.4	X	333.15302	103.21378	111.78770	24.01525	0.0921319	0.37503718	1.9043781	21	1 13.1	18.2
60336 2000 AK_{46}	14.5	X	303.69308	129.07921	104.16942	11.49592	0.2235469	0.23612022	2.5924711	21	1 12.5	18.3
60337 2000 AF_{51}	15.1	X	290.06424	327.40343	322.38351	8.19906	0.0974164	0.24231702	2.5480822	21	3 21.4	18.6
60338 2000 AW_{56}	15.7	X	156.69265	306.98392	111.68035	3.76433	0.1591099	0.24408470	2.5357651	21	4 18.6	19.6
60339 2000 AP_{62}	14.7	X	93.76790	198.43983	121.38004	16.26051	0.0693522	0.22007164	2.7170231	21	12 30.6	18.8
60340 2000 AF_{63}	15.9	X	264.80134	348.61430	71.35090	4.06639	0.1091628	0.30205009	2.1999699	21	8 20.9	18.4
60341 2000 AQ_{64}	14.9	X	329.01173	142.51865	53.31695	4.80411	0.1208829	0.23245744	2.6196328	21	1 11.5	18.3
60342 2000 AH_{68}	15.9	X	117.84058	323.11435	90.34295	8.17460	0.1523533	0.28797825	2.2710651	21	2 21.6	18.6
60343 2000 AY_{72}	16.0	X	231.25093	343.76714	148.62226	2.95555	0.1278548	0.26340780	2.4101845	21	10 9.7	19.2
60344 2000 AS_{73}	15.7	X	254.50892	21.67488	135.80404	2.89974	0.1392497	0.26860980	2.3789655	21	12 12.1	18.2
60345 2000 AD_{76}	15.2	X	35.22158	161.37538	229.32391	6.28052	0.1178831	0.27302057	2.3532738	21	—	—
60346 2000 AB_{77}	14.8	X	22.68608	200.81276	194.38319	1.95373	0.2889574	0.18097473	3.0954521	21	—	—
60347 2000 AD_{78}	16.2	X	140.42372	282.73254	121.31246	7.18127	0.2187239	0.28845560	2.2685589	21	3 16.9	19.5
60348 2000 AT_{81}	15.5	X	137.37082	301.16359	227.29069	5.37246	0.0720137	0.25429376	2.4674342	21	8 10.3	19.1
60349 2000 AS_{83}	15.2	X	325.67900	288.40766	139.40453	2.01483	0.0709379	0.22074203	2.7115193	21	11 28.1	18.4
60350 2000 AC_{86}	15.9	X	32.85713	337.26255	237.24540	2.03699	0.1041870	0.29048500	2.2579808	21	5 19.4	17.7
60351 2000 AG_{87}	15.7	X	78.35530	134.63598	237.48904	1.68048	0.1770651	0.27437400	2.3455286	21	—	—
60352 2000 AC_{88}	15.9	X	295.63712	325.16583	151.28906	3.46225	0.1196084	0.26714181	2.3876728	21	12 25.3	18.1
60353 2000 AN_{88}	15.7	X	302.88656	201.32793	186.48786	1.71385	0.0916343	0.30344937	2.1932016	21	9 4.6	17.5
60354 2000 AP_{88}	15.6	X	243.81412	127.35766	290.94015	2.20513	0.1748992	0.25479114	2.4642220	21	7 9.1	19.1
60355 2000 AE_{91}	16.2	X	168.82241	213.75559	138.30254	5.43121	0.2644557	0.28586684	2.2822341	21	2 7.5	19.7
60356 2000 AC_{93}	15.5	X	248.05412	159.77792	83.54084	23.46443	0.0524761	0.36372283	1.9436692	21	—	—
60357 2000 AG_{96}	14.6	X	121.18797	346.98497	310.91765	14.89888	0.0619982	0.22007689	2.7169799	21	—	—
60358 2000 AR_{98}	14.6	X	60.15186	105.97679	95.80621	7.20967	0.0738428	0.25613279	2.4556093	21	6 15.6	17.3
60359 2000 AJ_{100}	13.6	X	29.68958	248.97585	111.27202	6.56119	0.1890116	0.18145829	3.0899503	21	12 12.2	17.5
60360 2000 AN_{100}	15.7	X	91.29012	301.43322	86.03211	6.89833	0.1973899	0.28290244	2.2981494	21	—	—
60361 2000 AT_{100}	14.7	X	35.73262	289.84069	97.73312	11.24981	0.1077994	0.18439953	3.0570051	21	—	—
60362 2000 AU_{103}	13.8	X	117.00064	160.22863	102.33712	13.25701	0.1357466	0.22237739	2.6982093	21	11 23.2	18.2
60363 2000 AT_{105}	14.7	X	284.23233	277.12895	242.64447	11.56420	0.1807857	0.22573487	2.6713879	21	—	—
60364 2000 AE_{108}	15.1	X	131.93890	79.86038	123.35701	4.60058	0.0315815	0.21227237	2.7831742	21	9 17.2	19.0
60365 2000 AT_{109}	15.9	X	62.58315	32.01013	259.02937	6.18758	0.0962046	0.30744641	2.1741513	21	11 2.8	18.4
60366 2000 AX_{114}	15.7	X	45.04163	57.67069	155.49407	5.26438	0.1134463	0.29207353	2.2497862	21	6 11.9	17.9
60367 2000 AN_{115}	15.1	X	204.62629	97.02147	136.92757	14.78903	0.0551236	0.22433218	2.6825119	21	—	—
60368 2000 AQ_{119}	14.5	X	337.95659	1.36110	161.58607	9.67280	0.0820847	0.18536740	3.0463548	21	—	—
60369 2000 AJ_{120}	16.1	X	285.62826	301.19091	184.25888	2.22177	0.1402864	0.26663796	2.3906797	21	12 17.9	18.4
60370 2000 AG_{126}	14.6	X	303.98484	1.66604	154.89676	9.76814	0.1358759	0.17946218	3.1128206	21	—	—
60371 2000 AN_{139}	15.0	X	36.86325	284.87622	139.47244	5.07748	0.0756594	0.28023905	2.3126875	21	—	—
60372 2000 AG_{141}	15.5	X	185.45387	148.96315	250.15162	6.18050	0.1215777	0.28950133	2.2630927	21	4 12.7	18.9
60373 2000 AC_{144}	15.0	X	241.71135	149.91222	272.63056	3.68899	0.1540669	0.29808333	2.2194443	21	7 14.9	18.1
60374 2000 AY_{144}	16.2	X	315.55395	90.37188	145.18145	24.25474	0.0455068	0.37327341	1.9103723	21	1 26.1	18.1
60375 2000 AY_{146}	14.9	X	137.18282	84.68686	269.42501	20.32323	0.1595494	0.37034083	1.9204440	21	—	—
60376 2000 AH_{150}	15.7	X	11.93172	200.64419	185.85737	7.83332	0.1235690	0.26794154	2.3829194	21	12 30.8	18.6
60377 2000 AC_{165}	12.7	X	32.37540	244.22779	38.14582	14.42503	0.1410778	0.17553490	3.1590784	21	9 7.6	16.9
60378 2000 AL_{165}	13.7	X	291.47370	325.73865	103.50373	18.00627	0.1873832	0.17428346	3.1741828	21	9 25.2	18.1
60379 2000 AL_{167}	14.0	X	127.38348	64.80517	244.00149	13.65296	0.1103343	0.17755286	3.1350966	21	—	—
60380 2000 AY_{168}	14.8	X	260.07719	281.48587	207.24383	8.86218	0.1542115	0.22158333	2.7046516	21	10 31.3	18.4
60381 2000 AX_{180}	12.7	X	53.44609	152.19640	159.49052	12.77252	0.1445389	0.12465216	3.9688941	21	11 1.8	18.3
60382 2000 AR_{182}	15.5	X	116.73859	216.15564	235.60470	6.45095	0.0541116	0.28732944	2.2744827	21	3 23.8	18.3
60383 2000 AR_{184}	11.1	X	74.55972	70.97273	248.10811	15.13319	0.0726973	0.08128887	5.2777483	21	11 14.7	18.0
60384 2000 AU_{185}	13.9	X	288.88078	311.97030	110.62195	11.15165	0.0596981	0.17518777	3.1632501	21	9 27.8	18.4
60385 2000 AC_{195}	15.5	X	53.76779	341.72623	221.33980	7.88554	0.1517293	0.29039738	2.2584349	21	6 17.7	17.6
60386 2000 AV_{202}	14.0	X	290.81144	308.27944	275.67956	14.49592	0.1902025	0.22816954	2.6523506	21	—	—
60387 2000 AM_{207}	14.7	X	158.35344	104.05235	311.33942	8.17139	0.0663969	0.19381428	2.9571876	21	4 7.6	19.2
60388 2000 AY_{217}	13.2	X	315.51691	353.92196	112.45488	1.96396	0.0580098	0.08506838	5.1202433	21	12 3.5	19.7
60389 2000 AO_{220}	16.4	X	4.22167	126.54714	311.51031	4.62024	0.1309154	0.27223121	2.3578207	21	—	—
60390 2000 AD_{223}	16.3	X	28.36534	211.01491	99.71493	2.95117	0.1800874	0.30626239	2.1797513	21	10 29.4	18.4
60391 2000 AQ_{224}	16.1	X	162.94754	152.17193	98.15857	4.51811	0.1264284	0.26995378	2.3710631	21	12 25.7	19.5
60392 2000 AK_{227}	15.9	X	172.30742	95.06591	316.48581	5.41030	0.1526285	0.28848231	2.2684189	21	4 16.6	19.3
60393 2000 AX_{232}	14.7	X	13.46579	179.20247	52.15660	4.99088	0.1360376	0.24322057	2.5417676	21	5 12.9	17.1
60394 2000 AY_{234}	15.6	X	325.73281	275.94357	268.50312	5.83512	0.0486348	0.27945100	2.3170333	21	—	—
60395 2000 AJ_{237}	13.0	X	328.24069	188.24514	300.86490	9.19017	0.0779519	0.17660546	3.1462988	21	—	—
60396 2000 AG_{243}	16.0	X	45.00275	303.93466	142.79224	26.37448	0.1690552	0.36881701	1.9257301	21	—	—
60397 2000 AH_{243}	15.0	X	26.47855	229.36521	265.98889	9.74010	0.1591649	0.23235704	2.6203873	21	1 16.2	17.6
60398 2000 AG_{251}	13.4	X	213.22516	58.70372	119.35757	1.82806	0.1483115	0.12667668	3.9264940	21	10 28.9	19.4
60399 2000 AY_{253}	12.6	X	333.66986	298.91621	119.05965	4.28808	0.1276271	0.08206172	5.2445591	21	10 31.4	19.0
60400 2000 BA_{8}	15.2	X	33.06082	7.60059	343.32454	6.40835	0.1424500	0.26614672	2.3936205	21	12 15.7	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60401 2000 BQ_{21}	11.8	X	348.60080	114.66163	313.92405	8.55310	0.0411957	0.08167621	5.2610488	21	11 30.7	18.7
60402 2000 BL_{27}	15.6	X	346.25670	31.63520	139.32122	5.15908	0.1034082	0.27759720	2.3273373	21	—	—
60403 2000 BK_{30}	15.0	X	299.44037	280.53542	140.02935	6.67848	0.0811227	0.21350051	2.7724907	21	10 9.6	18.5
60404 2000 BR_{37}	16.8	X	144.52877	292.67542	118.80846	1.46038	0.1278244	0.28692044	2.2766436	21	3 18.7	19.6
60405 2000 BV_{51}	15.6	X	129.61231	299.10498	103.57979	2.99624	0.1465810	0.23654856	2.5893406	21	2 27.7	19.1
60406 Albertosuci	15.5	X	200.10203	264.45853	142.94805	4.15402	0.1409505	0.29097436	2.2554485	21	5 12.9	18.9
60407 2000 CZ_{1}	14.4	X	147.49824	115.17858	152.85732	8.66035	0.0308690	0.17261408	3.1946153	21	12 16.8	19.2
60408 2000 CB_{6}	15.8	X	341.09928	183.03913	237.97315	5.95055	0.0852276	0.26843456	2.3800008	21	12 25.3	18.3
60409 2000 CO_{6}	15.9	X	183.17766	187.49665	168.57064	5.81857	0.1895461	0.28653665	2.2786761	21	2 19.0	19.4
60410 2000 CG_{16}	14.9	X	308.47268	27.68155	185.23890	0.72589	0.0785196	0.18740540	3.0242289	21	1 21.5	19.1
60411 2000 CP_{20}	15.3	X	203.17275	85.93378	142.51945	2.59808	0.1793322	0.26549329	2.3975464	21	—	—
60412 2000 CT_{22}	14.4	X	255.20106	92.86748	155.48208	9.79251	0.0255013	0.18438282	3.0571899	21	1 8.7	18.9
60413 2000 CQ_{23}	15.5	X	88.01320	304.85627	157.59562	8.36873	0.0825720	0.23756886	2.5819216	21	3 13.6	18.7
60414 2000 CS_{23}	14.9	X	290.93375	53.11114	193.31815	3.69240	0.1033063	0.23373513	2.6100774	21	1 28.8	18.5
60415 2000 CP_{24}	14.5	X	339.02259	45.71940	140.27545	15.25786	0.0469033	0.23301077	2.6154839	21	1 21.6	17.9
60416 2000 CZ_{25}	15.8	X	135.19557	216.55967	308.23780	3.94612	0.0950141	0.29603873	2.2296517	21	8 8.2	18.7
60417 2000 CD_{27}	15.2	X	225.43087	133.25354	156.15656	14.95936	0.0813795	0.23114222	2.6295607	21	1 13.7	19.4
60418 2000 CU_{28}	14.2	X	285.03723	37.37784	147.65630	17.91984	0.1627756	0.17834329	3.1258265	21	—	—
60419 2000 CY_{28}	15.0	X	254.89533	325.38054	157.04758	1.41819	0.1396133	0.26092213	2.4254674	21	10 24.3	17.8
60420 2000 CC_{30}	15.7	X	207.29162	85.60025	312.52876	6.07440	0.0465310	0.28982670	2.2613986	21	5 5.9	18.8
60421 2000 CZ_{31}	12.2	X	338.84348	272.38709	174.07649	6.69161	0.0321708	0.08147739	5.2696042	21	12 10.4	19.1
60422 2000 CR_{35}	15.1	X	9.37989	253.85285	172.64005	7.45647	0.2168464	0.27079012	2.3661785	21	—	—
60423 Chvojen	16.9	X	94.53890	131.85530	143.24502	23.87759	0.0647864	0.35134786	1.9890445	21	12 3.4	19.9
60424 2000 CY_{48}	16.2	X	230.09041	269.80918	184.45943	4.09447	0.1022061	0.29997176	2.2101197	21	8 20.8	19.1
60425 2000 CA_{49}	14.9	X	38.55093	164.61905	182.26295	5.16632	0.0201148	0.21470774	2.7620885	21	11 20.6	18.7
60426 2000 CJ_{49}	15.0	X	318.25414	310.42025	158.71409	13.85216	0.1353714	0.22116925	2.7080264	21	—	—
60427 2000 CV_{50}	16.2	X	285.52144	192.52255	243.93228	1.38735	0.1949380	0.25971828	2.4329567	21	9 25.6	18.6
60428 2000 CZ_{50}	15.4	X	330.60798	288.04442	162.12677	15.23224	0.0468127	0.21940192	2.7225493	21	—	—
60429 2000 CJ_{52}	15.5	X	81.76679	71.10109	196.83368	2.56536	0.1582866	0.29940629	2.2129016	21	11 3.3	18.3
60430 2000 CF_{55}	15.3	X	33.27249	99.46740	261.06809	0.92708	0.0907378	0.21835197	2.7312700	21	12 10.6	18.9
60431 2000 CO_{58}	14.5	X	189.59203	154.33053	79.30996	8.70595	0.1372350	0.26044262	2.4284436	21	12 29.5	18.1
60432 2000 CV_{61}	15.6	X	41.11643	290.24963	192.02021	6.57757	0.0596713	0.27768343	2.3268554	21	1 13.9	18.3
60433 2000 CZ_{61}	14.7	X	188.49715	70.97061	177.45157	13.81811	0.1441850	0.21798241	2.7343562	21	—	—
60434 2000 CJ_{63}	14.3	X	324.12494	238.33595	322.80436	12.15141	0.1321001	0.22961152	2.6412343	21	1 12.2	17.9
60435 2000 CH_{65}	15.2	X	118.25569	30.30911	329.76016	12.78828	0.1890190	0.22887178	2.6469225	21	—	—
60436 2000 CY_{70}	14.5	X	310.48463	308.25675	193.33678	12.09189	0.0925169	0.22189452	2.7021223	21	—	—
60437 2000 CU_{76}	16.1	X	46.06443	179.84903	36.25541	1.78187	0.1163739	0.28878462	2.2668355	21	6 18.5	18.1
60438 2000 CF_{78}	14.9	X	51.22929	19.40761	321.40752	2.48676	0.1077128	0.21523419	2.7575827	21	12 10.5	18.7
60439 2000 CS_{81}	15.8	X	154.49849	71.49516	327.74488	3.32937	0.1602498	0.28507995	2.2864319	21	3 15.8	19.1
60440 2000 CY_{82}	13.9	X	257.85082	106.51794	134.60442	7.15747	0.1421754	0.18063812	3.0992965	21	—	—
60441 2000 CB_{83}	16.0	X	235.87618	75.08978	88.90925	2.30437	0.1208460	0.26249811	2.4157497	21	11 26.6	19.0
60442 2000 CQ_{83}	14.7	X	316.90028	133.96134	359.18180	5.84164	0.0607023	0.22311493	2.6922598	21	—	—
60443 2000 CH_{85}	14.7	X	310.22991	71.93077	348.03723	8.77067	0.1420547	0.21443141	2.7644609	21	10 13.9	17.8
60444 2000 CV_{85}	13.8	X	340.33840	158.00190	118.95988	3.36908	0.0570199	0.19704323	2.9247924	21	5 28.7	17.5
60445 2000 CA_{87}	14.7	X	167.83353	242.69818	355.71624	3.08251	0.0333288	0.21634123	2.7481674	21	12 11.2	18.7
60446 2000 CA_{88}	14.3	X	249.41331	131.98145	111.04475	2.37898	0.1566370	0.17899997	3.1181769	21	—	—
60447 2000 CL_{90}	15.4	X	98.78820	240.73278	142.20661	10.19938	0.1454446	0.22960566	2.6412793	21	—	—
60448 2000 CU_{91}	15.8	X	176.69555	285.33696	154.66797	3.73338	0.1352695	0.29101130	2.2552576	21	5 31.9	19.1
60449 2000 CA_{92}	14.0	X	244.57768	48.54151	21.11588	1.87372	0.0204867	0.20377961	2.8599750	21	8 13.4	18.0
60450 2000 CG_{93}	15.1	X	172.17742	280.13240	148.50491	5.28705	0.1673530	0.28844854	2.2685959	21	5 14.3	18.6
60451 2000 CH_{93}	14.4	X	312.33637	40.27385	154.36108	18.00560	0.0866091	0.22694401	2.6618908	21	—	—
60452 2000 CV_{96}	16.2	X	358.19996	260.09545	194.81720	6.45420	0.2466088	0.27238434	2.3569369	21	—	—
60453 2000 CR_{102}	15.5	X	123.07138	229.98601	193.58976	3.31537	0.2159205	0.23825615	2.5769538	21	3 25.9	19.3
60454 2000 CH_{105}	6.4	X	302.70517	294.39647	320.42700	1.16978	0.0864802	0.00336001	44.1478164	21	3 28.7	22.6
60455 2000 CY_{106}	15.1	X	266.28501	161.98492	103.99525	5.14640	0.1969068	0.23270257	2.6177928	21	1 19.8	19.2
60456 2000 CD_{108}	14.0	X	284.87202	324.90906	203.91516	14.15558	0.1310870	0.17813475	3.1282655	21	—	—
60457 2000 CS_{108}	15.2	X	239.88338	278.60850	195.19423	13.55750	0.1598716	0.25830268	2.4418376	21	9 17.4	18.6
60458 2000 CM_{114}	6.7	X	343.92101	252.00688	312.42561	19.75092	0.4003922	0.00217287	59.0354810	21	2 27.5	22.5
60459 2000 CE_{120}	15.6	X	113.29957	196.27731	230.37612	5.36619	0.0856251	0.23852029	2.5750510	21	2 25.6	19.0
60460 2000 DJ_{2}	15.1	X	143.81045	172.72191	123.23615	5.67280	0.0930616	0.21502267	2.7593908	21	—	—
60461 2000 DH_{4}	16.0	X	118.67004	133.83591	105.83165	5.24370	0.0842508	0.30248194	2.1978755	21	11 2.8	18.9
60462 2000 DM_{4}	15.1	X	121.88373	229.99526	114.81495	8.86889	0.1265361	0.27207147	2.3587435	21	—	—
60463 2000 DC_{5}	14.3	X	219.74719	321.67793	6.15112	8.62191	0.0771370	0.18943183	3.0026226	21	3 4.4	18.9
60464 2000 DU_{6}	15.4	X	141.90975	322.72237	65.01891	6.06234	0.2638119	0.23738809	2.5832322	21	3 8.5	19.6
60465 2000 DM_{9}	14.9	X	272.07220	162.24035	151.04141	2.61972	0.0910512	0.19423489	2.9529169	21	4 9.5	19.1
60466 2000 DK_{12}	15.8	X	167.52776	178.08824	163.95229	3.04501	0.1924173	0.27231736	2.3573234	21	1 20.5	19.3
60467 2000 DB_{14}	15.2	X	169.31840	346.32030	335.82822	5.09967	0.1769589	0.27243543	2.3566422	21	—	—
60468 2000 DD_{18}	14.7	X	347.13363	80.78205	338.22930	12.33994	0.0953731	0.21907750	2.7252365	21	12 20.2	18.2
60469 2000 DF_{22}	16.5	X	189.52091	303.36962	97.40709	1.01647	0.0792038	0.28898266	2.2657998	21	4 20.8	19.5
60470 2000 DW_{23}	16.5	X	115.26097	99.73230	319.91656	5.00983	0.1460404	0.28246246	2.3005353	21	2 22.4	19.2
60471 2000 DT_{25}	15.5	X	88.05582	277.73006	349.56410	1.82708	0.1691908	0.25488533	2.4636149	21	11 3.5	19.0
60472 2000 DY_{26}	15.3	X	44.13264	25.15654	157.48682	4.81822	0.1359755	0.23968905	2.5666733	21	5 1.9	18.0
60473 2000 DY_{27}	14.1	X	94.45533	158.00447	148.93166	5.52884	0.0571907	0.17049783	3.2209957	21	12 6.0	18.8
60474 2000 DT_{32}	15.0	X	122.02871	189.98017	251.33272	0.41942	0.0681731	0.19206659	2.9750995	21	4 2.4	19.2
60475 2000 DC_{36}	14.7	X	66.47691	252.15860	156.51735	1.10022	0.0699121	0.18057340	3.1000369	21	—	—
60476 2000 DV_{36}	15.5	X	331.08481	244.11623	148.00474	4.05313	0.0818853	0.21237256	2.7822988	21	10 19.4	18.8
60477 2000 DE_{37}	14.5	X	337.00259	270.13323	149.15697	13.67426	0.0914789	0.21707860	2.7419406	21	12 6.1	18.0
60478 2000 DK_{37}	15.4	X	89.78435	198.22988	124.11898	2.98236	0.0708511	0.21749775	2.7384167	21	12 28.3	19.4
60479 2000 DX_{37}	15.7	X	136.64003	180.02728	152.96890	2.98483	0.0813159	0.22479496	2.6788290	21	—	—
60480 2000 DD_{38}	14.7	X	159.79141	85.73900	158.20893	12.66713	0.0668064	0.16961676	3.2321403	21	12 2.8	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60481 2000 DF_{42}	15.0	X	45.72471	320.35225	1.69365	1.55971	0.1474568	0.21137896	2.7910110	21	11 14.8	18.6
60482 2000 DN_{42}	16.8	X	161.91755	259.96383	153.76266	5.89727	0.1702774	0.28707579	2.2758222	21	4 15.1	20.2
60483 2000 DD_{44}	15.6	X	8.63454	296.49934	149.30516	3.68406	0.1659658	0.22502745	2.6769836	21	—	—
60484 2000 DM_{55}	16.1	X	352.18657	358.64021	136.74066	2.78269	0.1116299	0.27347612	2.3506598	21	—	—
60485 2000 DM_{63}	16.1	X	249.85203	228.42988	174.96472	7.65915	0.0886707	0.29485120	2.2356344	21	7 5.9	19.0
60486 2000 DS_{66}	15.5	X	244.46085	269.62805	140.14280	2.69473	0.0818333	0.20273614	2.8697800	21	7 9.0	19.6
60487 2000 DM_{70}	16.4	X	66.11009	317.70559	160.10052	6.04011	0.1747331	0.28131227	2.3068017	21	3 2.0	18.2
60488 2000 DF_{74}	15.0	X	44.68459	158.16449	226.61994	1.77706	0.0758273	0.21864999	2.7287876	21	—	—
60489 2000 DP_{74}	15.1	X	147.65862	138.10136	182.12455	5.85052	0.0370705	0.22251697	2.6970808	21	—	—
60490 2000 DX_{74}	14.5	X	281.18774	30.60457	328.27930	5.11269	0.0874703	0.24507965	2.5288974	21	6 16.7	17.7
60491 2000 DD_{78}	15.3	X	191.05423	287.16702	341.58381	1.99595	0.1431842	0.26611049	2.3938378	21	—	—
60492 2000 DG_{82}	15.5	X	105.06649	122.62229	355.97872	6.35837	0.0642261	0.28718414	2.2752498	21	4 16.9	18.1
60493 2000 DC_{83}	15.0	X	179.86132	341.99269	85.12832	3.77199	0.1327076	0.24541441	2.5265972	21	5 19.7	18.8
60494 2000 DE_{88}	15.7	X	3.92844	174.97820	12.30195	2.77037	0.1189546	0.23414397	2.6070382	21	2 22.5	18.6
60495 2000 DF_{88}	14.7	X	159.57833	236.86047	22.54891	2.31227	0.1830523	0.26122413	2.4235977	21	12 29.8	18.7
60496 2000 DC_{89}	16.1	X	146.63923	78.29536	286.73999	0.15099	0.0998351	0.23196877	2.6233106	21	1 24.6	19.9
60497 2000 DH_{91}	14.1	X	147.47688	155.32129	165.75385	12.06126	0.1325931	0.17644591	3.1481951	21	—	—
60498 2000 DC_{92}	14.3	X	297.76811	51.03664	178.08959	5.86898	0.0913697	0.18202426	3.0835420	21	1 26.5	18.7
60499 2000 DN_{94}	15.2	X	223.76624	179.01796	92.19748	3.06058	0.0399561	0.22830676	2.6512877	21	—	—
60500 2000 DW_{95}	16.1	X	54.13095	10.59043	107.53638	3.06933	0.1211923	0.28072801	2.3100012	21	2 1.6	18.1
60501 2000 DN_{96}	14.1	X	140.94960	3.55394	290.83813	5.98878	0.1416554	0.17492122	3.1664628	21	—	—
60502 2000 DT_{96}	16.1	X	356.57209	76.30442	326.80854	5.80846	0.0953038	0.26478070	2.4018460	21	12 26.0	18.7
60503 2000 DY_{100}	14.1	X	177.94656	201.46167	132.40474	12.48519	0.1137738	0.18315142	3.0708777	21	1 28.8	18.8
60504 2000 DL_{102}	14.3	X	157.42123	289.93086	39.70274	6.44381	0.1120754	0.22606958	2.6687504	21	—	—
60505 2000 DB_{104}	16.0	X	208.21113	31.18428	25.33186	5.20958	0.1135708	0.29179590	2.2512130	21	6 1.1	19.2
60506 2000 DH_{104}	15.2	X	184.42707	313.98875	62.23501	5.23709	0.1882440	0.28340232	2.2954462	21	3 21.1	18.8
60507 2000 DG_{106}	15.3	X	122.76374	265.58555	98.11372	6.73035	0.1314599	0.27256876	2.3558737	21	—	—
60508 2000 DJ_{107}	14.5	X	254.76349	170.25490	131.92569	11.07182	0.1155674	0.18626358	3.0365755	21	3 7.9	19.2
60509 2000 EA_{2}	15.7	X	303.69923	44.20652	30.73224	0.56579	0.1710501	0.26168019	2.4207809	21	11 2.6	17.5
60510 2000 EV_{3}	15.8	X	298.48829	205.13358	286.80019	0.72721	0.1006992	0.21927394	2.7236086	21	—	—
60511 2000 EF_{4}	16.2	X	62.11823	0.80342	42.38184	22.26297	0.0856098	0.36259621	1.9476932	21	—	—
60512 2000 EU_{8}	15.2	X	283.69309	54.13456	158.19533	11.59417	0.0223254	0.18203305	3.0834427	21	—	—
60513 2000 EK_{11}	16.3	X	163.33660	5.86758	2.54056	3.56248	0.1069887	0.27938130	2.3174186	21	2 10.6	19.4
60514 2000 EC_{12}	15.3	X	237.50703	65.18643	41.93776	4.60861	0.0587360	0.21002254	2.8030152	21	9 18.8	19.2
60515 2000 EQ_{14}	15.9	X	103.93165	283.88853	162.99276	1.76105	0.1514527	0.28190707	2.3035558	21	3 18.4	18.3
60516 2000 EX_{16}	14.2	X	318.13507	193.12422	345.62580	8.22152	0.0823976	0.17995330	3.1071544	21	—	—
60517 2000 EC_{18}	15.8	X	302.79882	171.89382	48.20985	7.53123	0.0580047	0.27675635	2.3320489	21	1 8.6	18.8
60518 2000 ET_{19}	16.0	X	33.04311	66.56483	93.79127	6.61337	0.1241346	0.28022949	2.3127401	21	2 27.9	18.1
60519 2000 EU_{25}	15.1	X	142.94247	248.17863	14.60497	2.04178	0.1740753	0.25742551	2.4473814	21	12 18.9	19.1
60520 2000 ET_{32}	14.2	X	161.17273	37.24102	359.31401	10.74047	0.1068993	0.19096602	2.9865192	21	3 25.3	18.9
60521 2000 EM_{34}	14.0	X	145.49227	184.93151	128.83112	14.57736	0.1169584	0.22068281	2.7120044	21	—	—
60522 2000 EP_{35}	14.1	X	219.61103	239.56459	44.06634	11.35026	0.1533597	0.17799188	3.1299394	21	1 11.5	19.4
60523 2000 EM_{37}	16.0	X	313.69842	235.14385	301.51144	1.70139	0.1375386	0.27134380	2.3629586	21	—	—
60524 2000 EA_{40}	14.6	X	259.84784	5.22147	79.17438	2.00962	0.0747475	0.20656638	2.8341944	21	9 14.1	18.3
60525 2000 EW_{40}	14.8	X	194.00072	0.21357	175.54347	11.96274	0.0742849	0.20909659	2.8112842	21	10 23.4	19.0
60526 2000 EU_{41}	15.3	X	278.44423	8.91576	8.88116	3.38713	0.0685430	0.24664230	2.5182046	21	7 13.5	18.6
60527 2000 EE_{43}	14.6	X	341.62189	89.83222	122.42435	2.07746	0.1011260	0.18533063	3.0467577	21	3 3.9	18.5
60528 2000 EN_{44}	15.6	X	309.68444	308.68145	288.57179	1.96564	0.0371011	0.23137459	2.6277998	21	2 19.6	19.0
60529 2000 EU_{47}	16.2	X	117.93668	43.65933	198.35026	4.18951	0.0827725	0.29901356	2.2148388	21	11 2.8	19.0
60530 2000 ED_{48}	14.8	X	202.82641	201.16374	187.65472	10.96290	0.1737157	0.23778979	2.5803220	21	4 24.5	19.1
60531 2000 EF_{50}	15.0	X	206.49406	198.96578	125.21006	11.58907	0.2115823	0.23142613	2.6274096	21	2 8.8	19.4
60532 2000 EX_{50}	14.5	X	39.04699	125.47100	63.61317	28.09571	0.0795111	0.23580064	2.5948130	21	5 4.9	17.8
60533 2000 EC_{55}	14.9	X	241.35565	217.19502	153.59589	8.49169	0.0842930	0.23814941	2.5777238	21	5 16.4	18.7
60534 2000 EB_{56}	16.2	X	41.13935	114.83302	357.30459	5.46379	0.0786200	0.27718446	2.3296471	21	1 1.3	18.7
60535 2000 EM_{56}	15.5	X	239.92429	25.11095	181.22367	1.28439	0.1278757	0.26517278	2.3994779	21	—	—
60536 2000 EE_{58}	16.3	X	341.12300	284.47586	246.15792	1.45656	0.1174184	0.27430479	2.3459232	21	—	—
60537 2000 ED_{59}	16.7	X	307.06731	306.85382	240.47423	1.55918	0.1427789	0.27106980	2.3645507	21	—	—
60538 2000 EX_{60}	14.8	X	299.86579	158.20583	194.31619	4.98390	0.2736303	0.24521632	2.5279577	21	6 4.4	18.0
60539 2000 EB_{61}	14.8	X	32.53648	145.88116	307.29898	1.37597	0.1501873	0.18047412	3.1011737	21	—	—
60540 2000 EZ_{61}	16.4	X	173.18033	276.00199	178.49070	4.92700	0.1195887	0.29075139	2.2566014	21	6 16.1	19.6
60541 2000 EN_{63}	14.6	X	111.28546	318.23302	20.45916	5.09252	0.1661370	0.21863156	2.7289410	21	—	—
60542 2000 EQ_{66}	15.5	X	184.62958	154.31352	116.08633	2.59139	0.1667767	0.26394263	2.4069276	21	—	—
60543 2000 ET_{77}	15.9	X	337.46495	190.33965	72.52505	2.30732	0.1894671	0.28500218	2.2868478	21	4 6.8	17.8
60544 2000 EP_{78}	14.9	X	49.17773	28.02108	98.44243	4.38625	0.0630653	0.23360382	2.6110554	21	2 14.9	18.1
60545 2000 ES_{83}	14.4	X	118.22417	294.47688	113.37453	11.13330	0.0555007	0.18478490	3.0527534	21	2 17.5	18.7
60546 2000 EE_{85}	14.7	X	359.16167	186.53093	286.07821	11.78308	0.1079117	0.22611139	2.6684214	21	—	—
60547 2000 EF_{86}	15.0	X	311.59320	98.77842	141.43475	6.57430	0.1759300	0.27656223	2.3331400	21	1 28.3	17.9
60548 2000 EH_{86}	15.6	X	1.25184	224.32933	215.69253	5.06339	0.1334547	0.26802926	2.3823994	21	—	—
60549 2000 EL_{87}	15.2	X	253.84253	248.80453	336.56014	4.68939	0.1749100	0.26807298	2.3821404	21	—	—
60550 2000 EX_{87}	15.3	X	339.25551	23.78192	144.80018	3.52992	0.1440090	0.22687839	2.6624040	21	—	—
60551 2000 EQ_{88}	14.6	X	150.86443	238.98280	124.91690	10.90520	0.0837893	0.18494810	3.0509573	21	2 3.7	19.2
60552 2000 EO_{89}	15.0	X	339.83073	250.71909	44.13942	2.73418	0.0368530	0.19859377	2.9095487	21	6 21.8	18.8
60553 2000 ED_{91}	14.8	X	166.06324	85.38101	217.43579	5.79521	0.1301297	0.26704994	2.3882204	21	—	—
60554 2000 EZ_{93}	14.8	X	332.32720	281.02631	216.13751	11.90748	0.1309161	0.22359882	2.6883742	21	—	—
60555 2000 EJ_{94}	15.1	X	200.87907	327.48535	277.77337	5.13626	0.0783636	0.26448833	2.4036157	21	—	—
60556 2000 EL_{95}	14.3	X	322.76658	283.17115	340.92440	13.78927	0.0908138	0.23541848	2.5976204	21	3 31.7	17.7
60557 2000 EW_{95}	16.6	X	97.16074	238.40466	43.79196	2.33620	0.1920092	0.29992500	2.2103495	21	12 9.2	20.0
60558 Echeclus	9.5	X	63.54733	163.09856	173.21967	4.34326	0.4574151	0.02808314	10.7194431	21	12 29.2	19.9
60559 2000 EN_{98}	15.3	X	176.65291	126.71687	176.12324	1.03995	0.1417425	0.18047847	3.1011239	21	—	—
60560 2000 EQ_{103}	15.5	X	308.44727	235.87497	4.64916	5.38047	0.1937508	0.27711529	2.3300347	21	1 24.5	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60561 2000 EX_{104}	16.5	X	57.30613	134.99595	99.29591	6.70902	0.1520874	0.28986928	2.2611772	21	8 14.8	18.9
60562 2000 EH_{106}	14.7	X	263.88156	87.53427	151.68734	12.14541	0.0341910	0.22540100	2.6740251	21	—	—
60563 2000 EF_{107}	16.3	X	112.37929	77.82053	118.21664	4.43061	0.1218951	0.29391642	2.2403720	21	8 28.8	19.3
60564 2000 ER_{108}	16.2	X	16.14045	106.02635	85.38304	6.81801	0.0648558	0.28358986	2.2944341	21	3 18.3	18.7
60565 2000 EB_{109}	14.7	X	122.72846	336.12586	160.39951	7.97769	0.1395942	0.24138496	2.5546373	21	6 20.0	18.5
60566 2000 EH_{109}	14.7	X	275.37127	175.59083	300.39453	11.41053	0.0548671	0.21524191	2.7575167	21	11 14.6	18.5
60567 2000 EL_{110}	14.9	X	143.29226	194.57936	63.21470	10.03788	0.1888224	0.21225401	2.7833348	21	12 6.9	19.6
60568 2000 ED_{111}	15.1	X	344.94664	336.60998	122.15817	9.97287	0.0813408	0.22029709	2.7151691	21	—	—
60569 2000 EH_{112}	15.9	X	50.62512	44.91659	326.14967	2.12927	0.2050988	0.26900168	2.3766545	21	—	—
60570 2000 ET_{113}	14.9	X	166.68721	48.01707	341.88666	3.64536	0.1522586	0.18912187	3.0059024	21	3 25.5	19.8
60571 2000 ER_{116}	15.7	X	187.72096	302.53465	340.01561	2.15225	0.1577175	0.26627573	2.3928473	21	—	—
60572 2000 EB_{117}	14.2	X	259.93557	36.45040	203.53646	12.29465	0.2213376	0.22182680	2.7026722	21	—	—
60573 2000 ED_{118}	14.4	X	54.18991	278.97077	111.27458	15.72753	0.1434859	0.22415982	2.6838868	21	—	—
60574 2000 EK_{119}	13.8	X	212.81516	174.56273	118.39122	19.18502	0.1696632	0.18076010	3.0979020	21	1 14.5	19.0
60575 2000 EY_{121}	14.7	X	256.59443	243.00246	45.99796	3.30121	0.1634789	0.23267415	2.6180059	21	2 10.9	18.8
60576 2000 EJ_{122}	14.6	X	283.19243	210.16928	116.55883	3.16097	0.1049158	0.19576891	2.9374708	21	5 8.2	18.6
60577 2000 EW_{122}	14.6	X	170.21131	105.38265	169.45940	8.56154	0.1527651	0.17168678	3.2061080	21	—	—
60578 2000 ED_{123}	15.0	X	113.57741	95.07148	37.66882	14.44434	0.1455098	0.24127949	2.5553817	21	6 2.1	18.8
60579 2000 EK_{127}	14.7	X	41.35299	232.32773	104.18522	5.85304	0.0868557	0.21090638	2.7951787	21	11 20.3	18.5
60580 2000 ER_{127}	16.1	X	329.22149	23.12185	146.21284	7.79655	0.1324147	0.27294968	2.3536813	21	—	—
60581 2000 EE_{128}	14.7	X	39.53643	302.76869	60.05507	3.52366	0.0647490	0.21444054	2.7643824	21	12 16.9	18.4
60582 2000 EB_{130}	16.1	X	26.90405	209.14340	45.55368	3.70188	0.1317595	0.28940260	2.2636073	21	7 17.2	18.0
60583 2000 EQ_{132}	16.5	X	75.05125	229.56005	2.25494	3.69220	0.0823159	0.29330666	2.2434760	21	8 25.4	19.0
60584 2000 EW_{132}	14.5	X	228.84434	340.11765	2.99076	8.88357	0.1928262	0.23494119	2.6011373	21	3 20.6	18.7
60585 2000 EZ_{132}	16.7	X	278.25562	282.37392	164.87114	1.88890	0.0537113	0.30268283	2.1969029	21	10 30.4	19.0
60586 2000 EZ_{136}	15.4	X	161.02092	3.64032	115.50512	3.30172	0.1029465	0.24525860	2.5276672	21	7 5.8	19.0
60587 2000 EL_{139}	15.4	X	84.26137	190.06822	187.66645	6.41644	0.3167686	0.22407608	2.6845555	21	—	—
60588 2000 EQ_{139}	14.7	X	150.85196	194.98247	57.45261	7.05890	0.1092418	0.25808844	2.4431887	21	12 14.5	18.3
60589 2000 EU_{139}	14.1	X	304.73805	324.49555	165.52760	25.90190	0.1364483	0.17247432	3.1963409	21	12 30.3	18.6
60590 2000 EE_{140}	14.4	X	53.44983	261.16226	109.15530	9.16600	0.0311817	0.21698440	2.7427341	21	—	—
60591 2000 EV_{141}	15.6	X	4.06417	71.31577	91.28679	8.88960	0.2015970	0.27587959	2.3369872	21	—	—
60592 2000 EE_{146}	15.2	X	94.04439	275.46236	94.31474	6.98200	0.0288271	0.22598427	2.6694220	21	—	—
60593 2000 EN_{146}	16.4	X	81.45209	129.12984	87.64400	5.25789	0.1237804	0.29399732	2.2399610	21	8 20.2	19.1
60594 2000 ER_{147}	15.3	X	92.44875	236.91977	221.86062	2.79025	0.1726694	0.23395151	2.6084678	21	3 27.7	18.4
60595 2000 EN_{150}	13.9	X	287.89196	69.63747	280.47237	11.98163	0.2005222	0.24433850	2.5340087	21	5 25.9	17.5
60596 2000 EZ_{150}	15.6	X	346.03450	209.04519	245.21445	1.71425	0.1405120	0.26682210	2.3895797	21	—	—
60597 2000 EJ_{154}	14.4	X	315.56279	60.09498	195.88244	11.77999	0.2017756	0.23241018	2.6199879	21	2 24.4	18.1
60598 2000 EX_{154}	14.6	X	61.15321	77.74599	55.86666	15.75192	0.0527385	0.23249926	2.6193186	21	3 21.9	18.2
60599 2000 EY_{154}	15.0	X	318.57556	72.40737	125.46666	11.15412	0.0867719	0.22663777	2.6642882	21	1 6.0	18.5
60600 2000 EG_{157}	15.0	X	39.71891	110.57887	120.09854	13.98913	0.1376813	0.23996182	2.5647278	21	7 3.7	17.9
60601 2000 EQ_{157}	15.2	X	213.89586	238.47985	276.52660	7.45628	0.1020008	0.25608983	2.4558839	21	10 16.7	18.8
60602 2000 EV_{161}	14.9	X	97.07758	244.67083	159.23615	15.16351	0.1391712	0.22933833	2.6433314	21	1 16.0	18.3
60603 2000 EF_{163}	15.9	X	190.54362	320.91663	322.66204	4.10055	0.2052578	0.26699676	2.3885375	21	—	—
60604 2000 EP_{164}	15.6	X	62.92587	207.75810	185.09488	6.64244	0.1105241	0.26857739	2.3791569	21	—	—
60605 2000 EZ_{167}	14.0	X	160.20601	207.52381	85.70210	10.59981	0.0619153	0.17508863	3.1644440	21	—	—
60606 2000 EC_{171}	14.6	X	84.18219	264.08884	118.20682	11.82928	0.0323190	0.22272322	2.6954155	21	—	—
60607 2000 EA_{172}	15.3	X	320.31034	332.05964	247.91269	3.90599	0.1328030	0.27680016	2.3318028	21	1 18.1	18.1
60608 2000 EE_{173}	8.5	X	14.92983	235.50096	294.19615	5.94755	0.5389717	0.00286883	49.0530302	21	5 1.1	22.7
60609 Kerryprice	14.9	X	10.62742	27.66164	133.57501	14.32440	0.0580615	0.23224461	2.6212329	21	2 2.3	18.1
60610 2000 EB_{181}	15.2	X	149.53821	294.88275	108.87102	12.74623	0.2457609	0.23906748	2.5711202	21	4 4.9	19.6
60611 2000 ED_{185}	14.3	X	236.46236	222.22323	64.63391	12.35523	0.0710163	0.18202366	3.0835488	21	2 4.2	19.1
60612 2000 EE_{190}	15.2	X	115.43753	186.51820	159.26036	11.11057	0.0830789	0.17629970	3.1499356	21	—	—
60613 2000 EO_{196}	15.6	X	39.23433	247.45277	181.03398	11.37137	0.1719107	0.22533621	2.6745377	21	—	—
60614 Tomshea	14.6	X	144.98503	4.17039	305.97223	5.96788	0.0987052	0.21950324	2.7217116	21	—	—
60615 2000 EV_{205}	14.6	X	273.87696	306.47117	47.53363	4.12008	0.2328377	0.24116320	2.5562031	21	5 10.9	18.3
60616 2000 FH_{1}	13.6	X	215.86770	272.74611	34.52102	16.03154	0.2672786	0.18013469	3.1050682	21	2 7.3	19.4
60617 2000 FM_{3}	16.0	X	78.50555	197.10231	74.38456	9.11447	0.2286879	0.29676250	2.2260250	21	11 12.8	19.2
60618 2000 FP_{3}	15.5	X	300.72485	44.96509	126.48088	7.06907	0.0619226	0.26912231	2.3759443	21	—	—
60619 2000 FZ_{4}	16.1	X	312.74761	315.78873	43.82041	0.93119	0.1277982	0.24641934	2.5197233	21	7 31.7	18.8
60620 2000 FD_{8}	6.6	X	329.14524	81.82613	184.90186	19.54161	0.2232271	0.00340238	43.7804830	21	5 1.1	22.2
60621 2000 FE_{8}	6.9	X	34.63208	143.18071	4.03613	5.88565	0.3990615	0.00240879	55.1149845	21	4 30.4	23.1
60622 Pritchet	16.5	X	92.35066	81.97774	115.29318	3.70801	0.0631026	0.29108435	2.2548802	21	7 25.9	18.9
60623 2000 FW_{13}	15.3	X	185.66148	184.90065	66.18509	8.73076	0.0688063	0.26518060	2.3994307	21	—	—
60624 2000 FT_{14}	16.5	X	275.34150	321.20619	175.13520	22.56116	0.0706261	0.35378952	1.9798824	21	—	—
60625 2000 FA_{17}	13.7	X	103.19026	151.38815	149.93145	11.79861	0.1841446	0.21189275	2.7864975	21	12 24.9	18.4
60626 2000 FU_{21}	15.1	X	299.95961	232.77808	106.85367	7.54598	0.2309831	0.28839482	2.2688777	21	5 23.2	17.8
60627 2000 FJ_{23}	15.6	X	261.60292	162.38523	122.55600	10.53323	0.2115161	0.27423996	2.3462929	21	1 31.9	19.4
60628 2000 FX_{24}	14.9	X	329.88022	185.04663	75.97350	10.18238	0.1973740	0.28057896	2.3108193	21	3 26.3	17.6
60629 2000 FX_{25}	15.9	X	59.37755	38.65663	160.13353	7.03266	0.0462966	0.28659225	2.2783813	21	6 5.6	18.5
60630 2000 FY_{25}	15.6	X	199.15812	199.38403	112.17528	4.00163	0.0957528	0.27143983	2.3624013	21	1 7.5	18.8
60631 2000 FC_{26}	14.6	X	200.00433	245.32686	25.94389	10.52564	0.1173150	0.22013966	2.7164634	21	—	—
60632 2000 FE_{27}	16.0	X	106.62489	295.30006	171.75149	6.80486	0.0626043	0.28184459	2.3038962	21	4 6.5	18.6
60633 2000 FF_{27}	16.3	X	88.03957	105.38561	22.04960	7.16256	0.0467599	0.28173903	2.3044717	21	4 5.0	19.0
60634 2000 FW_{27}	15.8	X	345.18036	223.70249	220.76943	5.34355	0.0973362	0.26394364	2.4069215	21	—	—
60635 2000 FD_{30}	15.0	X	275.58803	304.23802	47.71112	3.00224	0.1358162	0.24055986	2.5604754	21	5 23.1	18.5
60636 2000 FH_{30}	14.2	X	232.62483	165.01539	181.05630	15.33133	0.1478307	0.23383601	2.6093267	21	3 30.2	18.2
60637 2000 FX_{30}	16.2	X	189.87007	20.96673	107.17226	3.77782	0.1050214	0.29721282	2.2237759	21	8 21.9	19.3
60638 2000 FF_{31}	14.0	X	321.65984	115.68121	93.24569	10.15277	0.0881876	0.18412542	3.0600384	21	2 3.5	18.2
60639 2000 FW_{31}	15.5	X	130.39807	199.83470	87.92430	9.34251	0.1864619	0.25949713	2.4343388	21	—	—
60640 2000 FE_{34}	15.0	X	181.00241	229.39216	79.65846	3.61042	0.0488323	0.22327412	2.6909799	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60641 2000 FP_{35}	14.6	X	194.31792	173.06901	126.03287	4.97538	0.1294696	0.22220829	2.6995780	21	—	—
60642 2000 FP_{37}	15.2	X	157.37254	221.05020	70.35443	5.87761	0.2078618	0.26153627	2.4216689	21	—	—
60643 2000 FU_{37}	15.7	X	256.83582	130.47822	57.83300	7.18299	0.1987597	0.26455801	2.4031937	21	—	—
60644 2000 FY_{37}	14.9	X	289.42174	94.24357	49.26165	9.92619	0.1189215	0.21759040	2.7376393	21	—	—
60645 2000 FU_{38}	15.3	X	238.61294	180.84770	67.51405	3.26305	0.1578494	0.26748263	2.3856441	21	—	—
60646 2000 FJ_{39}	14.3	X	348.87152	120.51522	113.56497	3.00109	0.0398222	0.18839501	3.0136290	21	4 17.3	18.2
60647 2000 FA_{40}	15.7	X	236.70049	190.78635	79.30805	4.83751	0.1766935	0.26935982	2.3745474	21	—	—
60648 2000 FY_{40}	14.8	X	149.27034	143.94180	98.54059	5.12457	0.0479821	0.21025692	2.8009317	21	11 24.9	18.8
60649 2000 FZ_{41}	15.3	X	36.49860	207.86890	39.02085	6.73412	0.0520288	0.24244384	2.5471936	21	7 12.3	18.5
60650 2000 FF_{42}	15.0	X	29.96156	311.87372	154.59512	4.77015	0.1766384	0.22648639	2.6654752	21	—	—
60651 2000 FU_{42}	15.7	X	241.03623	121.87771	61.46836	3.07346	0.1488457	0.26304447	2.4124034	21	12 24.7	18.5
60652 2000 FG_{43}	15.7	X	211.82565	182.94121	79.93098	3.77366	0.1668717	0.26636133	2.3923346	21	—	—
60653 2000 FA_{45}	16.1	X	310.72550	161.64161	95.88396	6.05444	0.0499113	0.28009412	2.3134852	21	3 14.0	18.9
60654 2000 FP_{45}	14.7	X	335.16062	123.74060	148.05186	7.88063	0.1769185	0.23643609	2.5901616	21	4 27.7	17.5
60655 2000 FV_{45}	14.6	X	158.48184	208.68658	54.85523	10.00033	0.1149392	0.21379644	2.7699318	21	12 28.2	19.0
60656 2000 FF_{47}	14.6	X	300.67022	171.19554	154.20419	14.50069	0.0767887	0.24012376	2.5635746	21	6 2.7	18.2
60657 2000 FT_{47}	14.2	X	29.62690	245.28230	154.88348	13.13211	0.0327184	0.21573982	2.7532724	21	—	—
60658 2000 FG_{48}	15.5	X	309.17324	347.92645	124.01776	2.05727	0.1416689	0.26280777	2.4138517	21	—	—
60659 2000 FX_{49}	15.9	X	175.87856	359.61362	244.11651	6.01711	0.1529500	0.30459035	2.1877211	21	—	—
60660 2000 FL_{50}	15.9	X	167.26664	53.04752	270.95965	1.70726	0.1734812	0.31467370	2.1407326	21	—	—
60661 2000 FF_{57}	14.6	X	283.12223	292.83016	92.78531	3.21790	0.0889301	0.20261383	2.8709348	21	7 26.5	18.3
60662 2000 FX_{61}	16.0	X	165.44621	70.21744	66.76267	5.23662	0.0459713	0.24746870	2.5125952	21	8 4.2	19.5
60663 2000 FZ_{65}	16.1	X	33.30102	159.86138	156.64477	5.34556	0.2315667	0.29487807	2.2354986	21	11 21.1	18.7
60664 2000 FX_{72}	14.4	X	162.15955	51.04322	173.42695	9.38832	0.1218376	0.21457568	2.7632216	21	11 17.5	18.8
60665 2000 FL_{73}	15.4	X	43.38608	359.08927	338.07768	1.88640	0.2001536	0.25633414	2.4543232	21	12 17.7	18.6
60666 2000 FT_{73}	15.5	X	284.07294	332.17191	123.43565	13.91419	0.1605728	0.26043917	2.4284650	21	11 3.8	18.4
60667 2000 GQ_{1}	16.6	X	184.29979	137.67690	15.58707	2.15892	0.1258502	0.29612723	2.2292074	21	9 17.3	19.7
60668 2000 GJ_{3}	14.9	X	143.09796	28.73559	16.01668	23.58760	0.2075970	0.27849623	2.3223259	21	3 23.4	18.4
60669 Georgpick	15.4	X	80.92865	219.80841	100.29303	7.68697	0.1992207	0.30059866	2.2070459	21	—	—
60670 2000 GX_{5}	16.2	X	7.43451	35.08929	228.45761	2.73766	0.1296319	0.28749042	2.2736335	21	6 18.3	17.9
60671 2000 GP_{9}	14.7	X	127.19207	123.77715	173.86204	11.47416	0.1395842	0.21543034	2.7559085	21	—	—
60672 2000 GE_{10}	15.6	X	341.34387	31.65852	68.53517	1.45906	0.1186532	0.22074810	2.7114696	21	—	—
60673 2000 GH_{10}	15.2	X	3.89613	285.51456	171.09320	6.33164	0.0519560	0.22211966	2.7002960	21	—	—
60674 2000 GN_{10}	14.9	X	309.19212	19.83132	173.64271	6.32773	0.1102012	0.17992034	3.1075339	21	—	—
60675 2000 GA_{12}	15.9	X	279.31879	101.84027	317.58723	1.57718	0.1660487	0.25334138	2.4736142	21	8 26.4	18.7
60676 2000 GQ_{14}	15.5	X	213.05998	138.99518	151.41160	1.37009	0.0898678	0.22452603	2.6809677	21	1 4.3	19.6
60677 2000 GO_{18}	15.9	X	201.74072	78.12376	218.46416	1.43672	0.2150227	0.26809325	2.3820203	21	—	—
60678 2000 GA_{23}	15.7	X	117.00639	26.78663	41.09295	2.65591	0.2031265	0.23345716	2.6121488	21	3 24.8	19.4
60679 2000 GE_{24}	14.7	X	265.47883	25.78662	356.63331	1.39955	0.1221147	0.19796375	2.9157186	21	6 23.7	18.9
60680 2000 GW_{27}	15.1	X	273.14588	300.38736	31.29931	3.86339	0.2029412	0.23579274	2.5948710	21	4 15.6	19.1
60681 2000 GE_{31}	16.0	X	109.91143	295.55879	25.24923	4.95908	0.2236362	0.30544062	2.1836592	21	—	—
60682 2000 GU_{31}	14.5	X	136.26225	189.58593	141.87782	1.90519	0.1567050	0.17140092	3.2096718	21	—	—
60683 2000 GL_{33}	16.1	X	244.57472	11.85661	202.40526	7.12949	0.1318401	0.31154229	2.1550534	21	—	—
60684 2000 GA_{34}	16.0	X	269.01384	113.26196	202.63840	5.63619	0.1593825	0.27968173	2.3157588	21	3 21.1	19.3
60685 2000 GP_{34}	16.6	X	310.55926	86.68073	197.57162	6.33062	0.1424739	0.28105658	2.3082006	21	4 1.5	19.3
60686 2000 GN_{35}	14.9	X	189.16240	154.91733	204.32035	14.08656	0.1299193	0.22976975	2.6400216	21	3 1.7	19.2
60687 2000 GS_{35}	15.3	X	78.22262	216.71456	214.60373	5.21836	0.1708494	0.22760930	2.6567012	21	1 27.5	18.2
60688 2000 GY_{35}	14.7	X	209.82730	153.69451	252.81979	1.18867	0.1098469	0.19380889	2.9572424	21	5 25.6	19.4
60689 2000 GG_{37}	16.0	X	179.05628	159.40740	130.76119	8.43635	0.2618472	0.30936799	2.1651391	21	—	—
60690 2000 GD_{38}	15.8	X	54.78577	56.64836	189.63453	7.01024	0.1131931	0.29035337	2.2586632	21	8 17.9	18.3
60691 2000 GJ_{38}	14.6	X	266.13238	136.26380	25.33499	12.40322	0.0594333	0.16933226	3.2357595	21	12 21.5	19.3
60692 2000 GC_{40}	15.6	X	136.48884	141.16527	33.31821	1.04130	0.0588825	0.29291551	2.2454728	21	8 21.5	18.5
60693 2000 GX_{40}	14.7	X	247.28425	26.18962	13.13067	1.41526	0.0846734	0.19724443	2.9228030	21	6 28.8	18.9
60694 2000 GG_{41}	15.3	X	146.86320	243.69388	203.49742	4.88146	0.2509725	0.24004175	2.5641585	21	5 20.9	19.6
60695 2000 GM_{42}	15.5	X	56.26432	353.04597	11.17898	8.45757	0.1991886	0.30550441	2.1833552	21	—	—
60696 2000 GQ_{43}	14.5	X	248.12646	285.71903	38.60833	3.41803	0.1597075	0.23136481	2.6278739	21	3 18.2	18.5
60697 2000 GG_{45}	15.7	X	351.42700	61.60256	34.81455	6.25705	0.2471788	0.26773104	2.3841683	21	—	—
60698 2000 GB_{46}	15.7	X	56.80584	243.27171	182.14514	2.87092	0.1605606	0.22348946	2.6892511	21	—	—
60699 2000 GN_{47}	15.7	X	67.81478	263.34924	207.22595	8.39535	0.1631553	0.23126506	2.6286295	21	3 1.8	18.7
60700 2000 GL_{50}	15.8	X	53.12636	36.66153	98.69940	0.87974	0.1474069	0.27865455	2.3214462	21	2 28.5	17.6
60701 2000 GQ_{51}	15.2	X	213.02565	185.33333	150.14696	2.43551	0.0907346	0.22902612	2.6457332	21	2 27.5	19.0
60702 2000 GU_{52}	14.2	X	65.90900	29.81771	19.31485	12.21459	0.0763512	0.17436907	3.1731438	21	—	—
60703 2000 GU_{53}	14.9	X	327.67057	103.07129	194.76676	9.89238	0.0251149	0.19319646	2.9634887	21	6 10.3	19.0
60704 2000 GK_{55}	14.6	X	73.56297	311.72258	32.11970	16.20208	0.2499374	0.21008329	2.8024747	21	—	—
60705 2000 GU_{55}	14.7	X	332.61516	212.43620	39.92184	4.61307	0.1685260	0.23298686	2.6156628	21	3 26.6	17.8
60706 2000 GB_{56}	14.8	X	119.92186	145.80744	74.29543	3.21977	0.0706097	0.20272357	2.8698986	21	9 26.7	18.9
60707 2000 GP_{56}	14.8	X	99.93937	322.40925	174.03163	1.70736	0.0483213	0.19023734	2.9941408	21	5 13.0	19.0
60708 2000 GC_{57}	15.0	X	217.35277	309.76257	10.65299	2.07873	0.0878699	0.22704226	2.6611228	21	2 14.3	19.1
60709 2000 GN_{57}	15.7	X	278.73737	303.36832	24.84262	7.13658	0.1479141	0.28183638	2.3039410	21	4 19.6	18.6
60710 2000 GU_{57}	16.3	X	135.15882	325.00522	328.48794	1.39975	0.1414404	0.30520163	2.1847990	21	—	—
60711 2000 GS_{59}	14.8	X	188.31842	272.67872	48.04574	2.87024	0.0698549	0.22352406	2.6889736	21	1 15.3	18.8
60712 2000 GM_{60}	13.9	X	72.25722	51.19188	27.19974	17.14924	0.1104036	0.17950079	3.1123742	21	2 9.9	18.2
60713 2000 GK_{61}	16.5	X	48.46546	169.42165	187.90685	1.91855	0.1524193	0.30365107	2.1922303	21	—	—
60714 2000 GN_{62}	16.5	X	352.09019	80.48271	236.36872	1.06396	0.2620649	0.28803560	2.2707637	21	8 17.8	17.1
60715 2000 GX_{64}	16.4	X	68.58516	104.22960	40.90760	3.99020	0.0997225	0.28066837	2.3103285	21	4 8.4	18.6
60716 2000 GD_{65}	15.6	X	233.83029	162.25060	42.06557	3.17412	0.1041774	0.26196794	2.4190079	21	—	—
60717 2000 GZ_{66}	16.5	X	158.66891	225.71266	18.45412	6.75729	0.1065579	0.30285297	2.1960800	21	12 20.1	19.7
60718 2000 GN_{69}	16.1	X	209.26289	88.42605	57.26871	0.76006	0.1151341	0.25228550	2.4805112	21	10 1.3	19.7
60719 2000 GQ_{69}	16.9	X	274.09012	170.96860	46.67020	0.46036	0.1137284	0.31476013	2.1403407	21	—	—
60720 2000 GC_{72}	16.3	X	289.47050	164.89910	64.66246	3.27126	0.1739332	0.27102120	2.3648333	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60721 2000 GA_{73}	13.8	X	165.34735	69.82011	204.21082	9.03925	0.1637469	0.21308606	2.7760846	21	—	—
60722 2000 GE_{73}	14.9	X	284.25036	21.79209	209.65903	12.95391	0.1304216	0.22433296	2.6825057	21	1 1.0	19.1
60723 2000 GU_{73}	16.4	X	103.33576	260.83186	14.17030	4.32801	0.1786105	0.29795485	2.2200823	21	12 4.3	19.7
60724 2000 GE_{74}	16.8	X	159.74132	326.83076	206.00386	5.52926	0.0850103	0.29470425	2.2363775	21	9 15.6	19.8
60725 2000 GH_{74}	14.5	X	18.47472	302.89669	209.63660	4.27193	0.1104520	0.18134280	3.0912621	21	2 10.3	18.3
60726 2000 GE_{75}	15.7	X	290.16819	136.46037	197.20751	6.28682	0.1354625	0.28336035	2.2956728	21	5 15.8	18.6
60727 2000 GO_{75}	15.6	X	46.95693	264.63667	44.22151	5.09317	0.1675912	0.29454045	2.2372065	21	11 16.7	18.2
60728 2000 GS_{76}	15.9	X	42.36328	97.77039	215.50700	7.29887	0.2029194	0.29382841	2.2408194	21	11 23.1	18.5
60729 2000 GZ_{78}	16.1	X	202.37808	14.42260	47.21777	7.95969	0.0955520	0.28617868	2.2805759	21	6 2.4	19.3
60730 2000 GC_{79}	16.3	X	223.68119	82.48107	167.71936	0.60274	0.1324189	0.26470397	2.4023102	21	—	—
60731 2000 GQ_{79}	15.9	X	26.87028	118.57579	211.56511	6.78799	0.2037841	0.29413612	2.2392563	21	11 25.4	18.2
60732 2000 GK_{80}	14.2	X	44.58900	48.92317	40.73157	0.65116	0.1466876	0.18006131	3.1059117	21	1 6.8	17.6
60733 2000 GL_{80}	15.3	X	323.42132	299.47690	35.48052	12.30950	0.3003699	0.28825704	2.2696006	21	6 9.7	17.2
60734 2000 GT_{80}	16.6	X	227.84381	38.27049	202.27283	2.26598	0.0679012	0.31235995	2.1512910	21	—	—
60735 2000 GF_{82}	14.9	X	261.70188	277.65039	33.62130	21.73465	0.3299582	0.27449020	2.3448667	21	3 8.9	19.4
60736 2000 GJ_{82}	15.3	X	182.36467	165.98527	110.05665	2.73055	0.1651850	0.26184840	2.4197440	21	—	—
60737 2000 GB_{87}	14.9	X	163.51259	279.09623	169.90847	10.08581	0.1115567	0.24075057	2.5591231	21	5 31.9	18.9
60738 2000 GK_{87}	14.8	X	245.17717	128.64778	131.29861	4.03408	0.1340301	0.22326034	2.6910907	21	—	—
60739 2000 GR_{87}	14.6	X	254.17325	230.08922	64.32197	10.35656	0.0562727	0.18318935	3.0704538	21	3 6.8	19.3
60740 2000 GU_{89}	15.2	X	139.62567	256.48258	139.60185	4.30933	0.1167779	0.23005346	2.6378506	21	2 27.4	18.8
60741 2000 GY_{90}	14.7	X	257.25376	234.57921	100.48578	8.16452	0.1226771	0.23390845	2.6087880	21	4 15.9	18.7
60742 2000 GY_{91}	13.4	X	201.56290	123.33098	180.08465	16.58203	0.2027825	0.22036519	2.7146096	21	1 10.6	18.3
60743 2000 GU_{92}	14.9	X	290.26703	135.54574	101.65434	3.91665	0.0528056	0.22934180	2.6433047	21	1 25.3	18.6
60744 2000 GB_{93}	15.0	X	252.89006	231.72933	106.88837	7.61593	0.2381624	0.28106642	2.3081467	21	4 1.8	18.8
60745 2000 GQ_{93}	14.4	X	278.21555	60.47329	63.88018	15.38462	0.1375874	0.21380075	2.7698945	21	11 21.6	17.9
60746 2000 GA_{95}	15.5	X	123.37313	22.83201	323.04619	3.87694	0.1065079	0.31134073	2.1559834	21	—	—
60747 2000 GW_{95}	15.7	X	100.59895	268.65922	353.38422	4.32674	0.1409836	0.29655522	2.2270621	21	11 11.8	19.0
60748 2000 GC_{96}	14.2	X	35.73101	356.32877	231.84924	7.82084	0.0864765	0.23809943	2.5780845	21	6 16.2	17.1
60749 2000 GF_{96}	15.3	X	320.82638	40.31080	230.47544	7.23419	0.1557030	0.27888819	2.3201495	21	3 24.1	18.1
60750 2000 GQ_{98}	15.5	X	331.99547	156.54969	343.92412	6.32642	0.1154547	0.26881540	2.3777524	21	—	—
60751 2000 GU_{98}	15.0	X	307.21401	0.76305	207.04499	11.44812	0.1276639	0.22630257	2.6669184	21	—	—
60752 2000 GM_{99}	15.7	X	48.86360	251.38958	277.16257	2.96777	0.1711983	0.28191736	2.3034998	21	4 13.5	17.6
60753 2000 GA_{101}	15.8	X	320.63300	308.21570	326.19125	4.09328	0.1357800	0.28237193	2.3010269	21	4 1.8	18.4
60754 2000 GH_{101}	15.3	X	223.53515	266.69678	339.17470	7.36643	0.0805126	0.26674770	2.3900240	21	—	—
60755 2000 GU_{101}	14.3	X	148.20990	101.22898	345.04460	9.16032	0.0705057	0.19227105	2.9729901	21	5 5.9	18.9
60756 2000 GM_{104}	16.2	X	135.47544	356.80904	182.08203	6.83560	0.0483735	0.29276341	2.2462505	21	8 23.6	19.2
60757 2000 GK_{107}	15.2	X	124.98069	271.28130	71.08002	5.20165	0.1696170	0.30919294	2.1659562	21	—	—
60758 2000 GP_{108}	14.9	X	86.30662	188.33057	149.35258	6.13989	0.1983286	0.30329597	2.1939411	21	—	—
60759 2000 GA_{112}	14.8	X	117.14985	54.86543	187.96105	15.07063	0.0985922	0.20564922	2.8426147	21	10 24.4	19.1
60760 2000 GC_{113}	14.3	X	327.98972	318.35357	170.97437	13.35059	0.0598613	0.17475360	3.1684873	21	—	—
60761 2000 GK_{113}	15.9	X	224.93233	332.17065	317.04421	6.92021	0.1074939	0.27104323	2.3647052	21	1 7.4	19.3
60762 2000 GA_{115}	15.2	X	92.31902	246.14602	56.17022	3.04424	0.1896132	0.25660533	2.4525937	21	12 23.2	18.9
60763 2000 GN_{118}	17.0	X	286.39563	228.89292	269.25740	1.32823	0.0493178	0.31004177	2.1620011	21	—	—
60764 2000 GV_{122}	13.9	X	12.11131	80.03618	185.78313	10.87365	0.1669350	0.23850914	2.5751312	21	7 3.7	16.6
60765 2000 GE_{124}	15.6	X	239.49255	144.32915	141.85061	6.27888	0.1866716	0.26974382	2.3722933	21	1 15.5	19.6
60766 2000 GU_{124}	13.8	X	13.56201	3.17293	177.06290	13.28670	0.1064775	0.22992084	2.6388649	21	2 28.6	16.8
60767 2000 GU_{133}	15.1	X	82.86453	84.80111	56.75224	22.12091	0.2065513	0.28236692	2.3010541	21	5 15.1	17.6
60768 2000 GY_{136}	14.7	X	323.91657	310.68633	179.23759	8.81398	0.1046520	0.21741646	2.7390992	21	—	—
60769 2000 GF_{143}	15.7	X	123.13255	146.60679	146.08601	7.45764	0.1922349	0.25591585	2.4569968	21	—	—
60770 2000 GL_{143}	14.6	X	341.93833	104.88841	188.44208	20.88969	0.1610896	0.28486603	2.2875764	21	6 9.9	17.2
60771 2000 GS_{154}	15.4	X	197.23575	290.17532	284.30215	4.65465	0.0565570	0.25988099	2.4319410	21	12 22.5	18.4
60772 2000 GY_{155}	15.2	X	238.64246	175.15292	146.81736	2.85762	0.0330940	0.23193479	2.6235667	21	3 13.5	18.8
60773 2000 GD_{158}	14.5	X	232.69375	214.47185	107.96169	4.25672	0.1555271	0.18490280	3.0514556	21	3 7.4	19.4
60774 2000 GW_{159}	15.1	X	330.48069	196.82272	350.13428	10.94241	0.0658897	0.22687099	2.6624620	21	1 13.4	18.8
60775 2000 GG_{160}	14.0	X	121.68700	138.69402	296.70468	9.46187	0.1048528	0.18821711	3.0155276	21	3 25.9	18.6
60776 2000 GP_{160}	15.5	X	74.90761	336.34141	159.92919	3.84955	0.1195425	0.23489565	2.6014734	21	4 15.6	18.6
60777 2000 GS_{162}	14.6	X	119.82767	256.40616	149.03938	11.76997	0.1927745	0.22902160	2.6457680	21	2 26.6	18.2
60778 2000 GU_{162}	16.1	X	218.70669	120.32187	81.26007	3.46251	0.1181662	0.26017707	2.4300957	21	12 23.8	19.1
60779 2000 GY_{162}	14.7	X	252.28026	222.85017	81.00188	8.34225	0.1106819	0.22877197	2.6476923	21	3 3.9	18.8
60780 2000 GA_{164}	15.4	X	254.62901	118.94502	133.78463	6.99279	0.0918966	0.26827450	2.3809473	21	—	—
60781 2000 GD_{164}	15.1	X	322.12665	1.76816	183.74611	13.08265	0.1184384	0.22360119	2.6883551	21	—	—
60782 2000 GJ_{166}	15.8	X	45.79723	300.26377	70.24659	1.45510	0.0830897	0.21266674	2.7797325	21	—	—
60783 2000 GB_{171}	16.2	X	279.81145	144.37648	152.12736	3.65947	0.0514623	0.28011266	2.3133831	21	3 23.3	19.1
60784 2000 GC_{178}	15.7	X	73.16729	359.03597	260.06868	4.73556	0.1583880	0.29563363	2.2316880	21	10 9.3	18.7
60785 2000 GT_{179}	15.5	X	43.95881	235.11668	103.15471	5.50602	0.1881633	0.29857811	2.2169917	21	12 26.8	18.3
60786 2000 GP_{182}	15.6	X	295.60788	236.58961	116.71070	7.42877	0.1380699	0.28556696	2.2838316	21	6 21.1	18.1
60787 2000 GW_{183}	15.3	X	34.75599	20.97381	85.27521	15.10702	0.0612189	0.22519076	2.6756892	21	—	—
60788 2000 HW	16.3	X	317.40220	104.96413	296.21505	0.82954	0.1728685	0.29748562	2.2224162	21	10 18.0	17.7
60789 2000 HW_{1}	15.6	X	256.40975	97.76663	183.75781	6.15590	0.1021772	0.27138602	2.3627135	21	1 28.1	19.0
60790 2000 HD_{4}	15.5	X	284.92028	334.71009	210.28714	2.01596	0.1011655	0.26534746	2.3984247	21	—	—
60791 2000 HM_{6}	16.0	X	294.24153	143.37874	237.09878	2.22918	0.1879814	0.28969676	2.2620748	21	7 20.9	18.3
60792 2000 HS_{6}	15.1	X	136.84927	29.73378	8.89882	0.47195	0.1684417	0.17964898	3.1106624	21	3 11.0	19.9
60793 2000 HQ_{7}	14.6	X	14.46594	335.03937	74.39922	8.79466	0.1133974	0.21425522	2.7659762	21	—	—
60794 2000 HR_{7}	14.7	X	295.87263	93.70822	201.20076	1.31152	0.0694640	0.18732042	3.0251434	21	4 18.5	18.7
60795 2000 HO_{8}	16.7	X	133.71112	2.70525	199.06294	2.25734	0.0937137	0.29447771	2.2375243	21	9 26.6	19.7
60796 2000 HB_{9}	15.6	X	238.11235	128.39801	187.14789	2.79490	0.2564015	0.27198543	2.3592409	21	2 16.2	19.6
60797 2000 HR_{10}	15.9	X	141.18255	265.49169	54.78375	3.15410	0.1948220	0.30683474	2.1770398	21	—	—
60798 2000 HV_{10}	15.4	X	195.53164	218.55161	225.02917	4.20249	0.0934856	0.28691745	2.2766595	21	6 25.8	18.5
60799 2000 HV_{11}	15.4	X	49.30914	323.69361	229.24100	2.39202	0.0546155	0.23614647	2.5922790	21	5 15.2	18.6
60800 2000 HJ_{12}	16.6	X	190.95919	267.32248	43.29009	0.95171	0.1943298	0.31256965	2.1503287	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60801 2000 HA_{15}	15.1	X	123.35808	262.99907	80.24174	6.72598	0.2063696	0.26305588	2.4123336	21	—	—
60802 2000 HK_{15}	14.7	X	313.37969	143.55840	210.58293	11.05132	0.3020593	0.24048221	2.5610265	21	6 22.7	17.6
60803 2000 HF_{18}	15.2	X	104.08271	36.95780	40.24168	3.64461	0.1564499	0.22911908	2.6450174	21	3 15.6	18.7
60804 2000 HD_{23}	16.7	X	160.90181	172.41416	66.34444	5.49625	0.0702318	0.30254339	2.1975778	21	12 17.9	19.5
60805 2000 HS_{23}	15.2	X	328.03594	230.74505	76.27296	8.23037	0.2294317	0.28213925	2.3022919	21	5 21.9	17.1
60806 2000 HT_{25}	15.5	X	92.62426	123.23318	218.25619	3.93676	0.1727598	0.30454918	2.1879182	21	—	—
60807 2000 HN_{26}	14.7	X	45.77262	327.14586	47.64147	5.60759	0.1044222	0.21178547	2.7874384	21	—	—
60808 2000 HQ_{26}	14.6	X	193.73439	72.10635	195.53221	3.75273	0.1009700	0.16953641	3.2331614	21	—	—
60809 2000 HG_{28}	14.8	X	319.90330	177.85611	64.69328	25.06857	0.2015125	0.27538094	2.3398075	21	2 19.1	18.4
60810 2000 HT_{28}	15.2	X	32.36691	308.73020	32.62555	2.17164	0.0491152	0.20536418	2.8452444	21	11 6.6	18.9
60811 2000 HE_{30}	14.2	X	89.02981	338.87681	101.28543	14.79765	0.2173997	0.22933165	2.6433828	21	3 13.6	17.7
60812 2000 HL_{30}	14.5	X	291.36952	82.83961	147.30797	14.12701	0.1071538	0.22538589	2.6741447	21	1 10.8	18.5
60813 2000 HG_{31}	14.5	X	358.16614	84.46933	122.38788	15.49527	0.0996034	0.23224265	2.6212477	21	3 19.2	17.8
60814 2000 HG_{32}	16.1	X	306.96800	175.04812	21.05011	2.58212	0.1535346	0.26986929	2.3715579	21	—	—
60815 2000 HY_{32}	14.1	X	85.08078	309.06736	99.56702	22.64180	0.0560898	0.22116596	2.7080532	21	—	—
60816 2000 HO_{34}	17.0	X	263.73514	166.69873	5.10818	1.96353	0.0967761	0.30867148	2.1683949	21	—	—
60817 2000 HR_{37}	14.5	X	265.34900	310.20752	83.52398	23.16621	0.0366162	0.24183042	2.5514991	21	7 22.7	18.1
60818 2000 HM_{38}	15.5	X	302.79954	183.44111	163.66872	4.58590	0.2149732	0.23776329	2.5805137	21	6 11.5	18.6
60819 2000 HY_{38}	14.9	X	150.99293	145.75769	149.11190	4.97297	0.0440451	0.21327564	2.7744392	21	—	—
60820 2000 HZ_{39}	16.8	X	227.76757	72.78396	156.73892	2.22527	0.0930276	0.31036817	2.1604850	21	—	—
60821 2000 HD_{40}	15.2	X	186.33732	288.91799	123.80088	3.11704	0.1092431	0.23670132	2.5882264	21	5 8.4	19.1
60822 2000 HX_{42}	14.6	X	163.57560	122.70126	189.63827	5.27191	0.1277123	0.17060579	3.2196367	21	—	—
60823 2000 HB_{43}	15.5	X	272.03236	259.97911	63.40895	3.87626	0.1336522	0.23336091	2.6128670	21	4 13.4	19.3
60824 2000 HG_{43}	16.0	X	35.26529	94.09840	207.00470	7.17433	0.1694109	0.29179468	2.2512193	21	10 20.2	18.3
60825 2000 HW_{45}	15.9	X	237.91839	198.31828	48.15266	5.59750	0.0551417	0.26774974	2.3840572	21	—	—
60826 2000 HO_{46}	17.0	X	268.51964	276.09186	235.53547	3.29265	0.0697098	0.30615615	2.1802555	21	—	—
60827 2000 HW_{46}	15.0	X	241.59221	253.97791	71.49661	3.09412	0.0973931	0.22949589	2.6421214	21	3 17.9	18.8
60828 2000 HX_{46}	16.0	X	55.77630	112.88477	208.76295	6.15478	0.1670077	0.29707114	2.2244829	21	12 15.5	18.9
60829 2000 HY_{46}	16.3	X	249.66067	92.24956	59.62980	3.43819	0.1373068	0.25810288	2.4430976	21	11 25.2	19.2
60830 2000 HZ_{47}	16.6	X	221.97846	163.14534	80.14279	2.59705	0.0268562	0.31041119	2.1602854	21	—	—
60831 2000 HL_{48}	14.7	X	104.28063	100.65772	226.57330	7.38885	0.1331811	0.21100750	2.7942856	21	—	—
60832 2000 HU_{48}	15.9	X	105.74072	324.14618	46.07836	5.42078	0.0895294	0.31095912	2.1577470	21	—	—
60833 2000 HB_{49}	14.9	X	225.47516	5.15539	217.03694	8.28294	0.0919231	0.21520017	2.7578733	21	—	—
60834 2000 HL_{49}	16.5	X	107.11005	144.12137	58.20039	4.46083	0.1810070	0.29092837	2.2556861	21	9 7.4	19.7
60835 2000 HU_{49}	15.7	X	221.03073	251.76828	48.26969	1.84371	0.1881825	0.26841998	2.3800870	21	1 17.7	19.4
60836 2000 HZ_{49}	14.7	X	318.23471	316.00554	232.33906	9.70646	0.0525517	0.17616814	3.1515036	21	1 8.3	19.2
60837 2000 HU_{53}	15.9	X	82.60339	261.03144	65.06736	5.44062	0.2244193	0.29906148	2.2146022	21	—	—
60838 2000 HD_{55}	14.4	X	226.80798	205.57769	112.78695	2.16675	0.1508532	0.17759293	3.1346250	21	2 25.5	19.3
60839 2000 HB_{56}	15.5	X	245.13128	196.58291	185.99685	5.10778	0.1419874	0.28473687	2.2882681	21	5 26.7	18.7
60840 2000 HD_{57}	16.0	X	97.99323	7.90762	138.23198	4.77941	0.1652053	0.28444412	2.2898379	21	6 5.7	18.8
60841 2000 HN_{57}	14.7	X	100.05210	288.34377	58.72321	8.85060	0.1998635	0.21241224	2.7819524	21	—	—
60842 2000 HP_{61}	15.5	X	192.88795	257.38749	56.69749	10.29234	0.1708986	0.26716972	2.3875065	21	1 10.4	19.3
60843 2000 HS_{61}	15.8	X	272.69111	167.78397	211.52174	7.36131	0.1418539	0.28749099	2.2736305	21	6 24.1	18.8
60844 2000 HF_{62}	17.4	X	320.16409	63.41005	47.51662	2.60649	0.0712905	0.30745588	2.1741067	21	—	—
60845 2000 HP_{62}	15.1	X	254.24144	305.73264	81.17691	6.85996	0.1624391	0.28492031	2.2872859	21	6 9.1	18.2
60846 2000 HB_{63}	15.6	X	89.58196	196.69008	130.21684	3.10645	0.1537205	0.30327078	2.1940625	21	—	—
60847 2000 HC_{64}	15.3	X	227.82425	326.40939	261.74891	4.13899	0.0765561	0.31056489	2.1595726	21	—	—
60848 2000 HQ_{64}	15.3	X	76.61750	204.05938	345.11369	4.63265	0.1557495	0.24034007	2.5620362	21	7 6.8	18.5
60849 2000 HV_{64}	16.2	X	219.63520	310.93061	337.68642	2.38022	0.1006573	0.31569111	2.1361307	21	—	—
60850 2000 HE_{65}	15.3	X	14.44600	81.67352	105.23007	2.41293	0.0990125	0.23171373	2.6252351	21	3 14.2	18.2
60851 2000 HN_{65}	14.9	X	320.71901	272.98062	85.28522	5.49135	0.1795536	0.28901351	2.2656385	21	8 12.0	16.6
60852 2000 HU_{65}	15.5	X	144.58372	158.50938	75.70568	6.06369	0.0837739	0.25237603	2.4799180	21	11 16.0	19.0
60853 2000 HZ_{65}	16.3	X	252.25873	72.10915	203.17847	3.50411	0.1498646	0.26954636	2.3734517	21	1 14.5	20.1
60854 2000 HE_{66}	15.0	X	145.01862	239.61703	173.19626	2.10400	0.0311250	0.22868252	2.6483827	21	3 16.2	18.7
60855 2000 HU_{66}	16.2	X	300.27098	141.02949	194.50129	1.74211	0.1391495	0.28377715	2.2934244	21	6 1.3	18.7
60856 2000 HA_{68}	15.6	X	200.24658	87.62714	93.80422	7.15466	0.0791650	0.25495785	2.4631477	21	11 12.1	19.0
60857 2000 HD_{68}	15.3	X	149.18663	310.45448	138.13538	14.00005	0.1422704	0.23539131	2.5978203	21	5 21.1	19.6
60858 2000 HE_{68}	15.0	X	252.04264	172.25922	164.07778	12.73741	0.2244652	0.27622288	2.3350505	21	3 28.6	18.7
60859 2000 HF_{68}	15.7	X	97.74739	166.61322	161.48486	3.68579	0.2028588	0.30259166	2.1973442	21	—	—
60860 2000 HR_{72}	16.6	X	350.17364	211.60993	11.63437	7.43006	0.0578288	0.27919598	2.3184440	21	3 20.8	19.0
60861 2000 HJ_{73}	15.0	X	341.30315	171.61071	106.42049	12.75446	0.0237080	0.23877671	2.5732071	21	6 2.7	18.4
60862 2000 HJ_{74}	15.8	X	35.74858	233.82100	110.82413	7.53672	0.1274622	0.29713688	2.2241548	21	12 16.2	18.4
60863 2000 HK_{75}	15.6	X	190.15619	211.71422	114.92521	3.81541	0.0863023	0.22300977	2.6931061	21	1 25.0	19.7
60864 2000 HM_{75}	13.4	X	151.56894	158.12232	206.54124	18.20428	0.1497133	0.17614919	3.1517296	21	2 7.3	18.6
60865 2000 HG_{76}	16.4	X	341.38903	73.16605	165.30122	2.71002	0.1968970	0.27797243	2.3252424	21	3 6.5	18.8
60866 2000 HM_{79}	14.9	X	169.21318	177.10412	228.83430	14.47613	0.0622301	0.23270079	2.6178061	21	4 5.1	18.9
60867 2000 HD_{81}	15.4	X	326.29353	51.02874	307.48893	2.40835	0.1350687	0.29104051	2.2551067	21	8 27.6	17.1
60868 2000 HG_{81}	15.8	X	41.54932	60.71447	147.50058	23.15348	0.1571971	0.28328786	2.2960645	21	6 8.6	18.6
60869 2000 HZ_{82}	14.9	X	183.98174	113.78626	173.53766	3.00751	0.1160649	0.16981376	3.2296401	21	—	—
60870 2000 HC_{83}	16.3	X	214.07333	73.34226	47.57270	7.92250	0.0702403	0.29456608	2.2370768	21	9 16.4	19.2
60871 2000 HE_{83}	16.1	X	350.05863	312.41557	93.06137	1.32423	0.0742424	0.30139472	2.2031579	21	12 26.0	18.2
60872 2000 HE_{86}	14.7	X	102.79424	166.78418	171.68596	8.40687	0.2221061	0.21036785	2.7999469	21	—	—
60873 2000 HL_{86}	15.3	X	343.55085	261.32876	75.31073	6.83777	0.1647966	0.28924907	2.2644083	21	9 3.4	17.0
60874 2000 HT_{86}	15.1	X	232.40584	93.60349	123.71204	3.09135	0.0072257	0.21535073	2.7565877	21	—	—
60875 2000 HV_{86}	16.1	X	355.52661	345.42041	202.70669	6.74115	0.1773276	0.27531724	2.3401684	21	1 18.4	18.6
60876 2000 HD_{88}	14.0	X	230.24976	231.66959	74.56534	7.28101	0.0478477	0.17913792	3.1165758	21	2 21.6	18.7
60877 2000 HD_{89}	16.1	X	258.25937	90.43072	76.04569	2.30813	0.1341275	0.26093469	2.4253895	21	12 28.9	18.8
60878 2000 HW_{89}	16.0	X	19.80910	17.56759	56.61343	1.45533	0.0639778	0.30851550	2.1691257	21	—	—
60879 2000 HE_{90}	15.3	X	332.96969	274.81223	49.09685	3.63713	0.1400061	0.23910810	2.5708290	21	7 14.0	18.0
60880 2000 HG_{90}	15.4	X	350.98795	186.51546	175.91154	2.34859	0.1801880	0.24613558	2.5216596	21	10 22.3	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60881 2000 HE_{94}	16.5	X	278.29481	140.81996	10.70995	2.14752	0.0972575	0.30699122	2.1762999	21	—	—
60882 2000 HM_{95}	15.9	X	359.84344	269.40109	283.28739	4.24771	0.1111385	0.27700423	2.3306574	21	2 11.4	18.3
60883 2000 HK_{101}	14.6	X	143.86175	268.19084	75.89702	10.28293	0.1964456	0.21686525	2.7437387	21	1 10.5	18.8
60884 2000 JH_{6}	16.1	X	90.27843	117.40898	246.44075	1.10830	0.1321051	0.30975276	2.1633457	21	—	—
60885 2000 JX_{6}	14.5	X	249.19001	96.19953	168.34452	17.53710	0.0616888	0.17410249	3.1763820	21	1 19.1	19.5
60886 2000 JB_{10}	16.3	X	159.76603	273.76684	44.52489	5.71441	0.2426197	0.30831326	2.1700742	21	—	—
60887 2000 JS_{12}	16.1	X	191.65229	218.69744	248.01764	3.59727	0.1005603	0.29032797	2.2587949	21	7 22.8	19.3
60888 2000 JA_{14}	15.4	X	39.94784	249.36790	37.47568	5.40715	0.1221889	0.28947420	2.2632341	21	9 30.0	17.8
60889 2000 JC_{15}	16.0	X	20.84105	331.75524	220.23969	5.91521	0.1008623	0.27753966	2.3276590	21	3 20.5	18.3
60890 2000 JK_{17}	16.2	X	52.44460	176.79078	100.64462	4.67267	0.1756855	0.29080854	2.2563057	21	10 15.0	18.9
60891 2000 JL_{18}	15.8	X	282.10046	54.48270	281.32628	2.98022	0.1880594	0.28225133	2.3016823	21	4 27.8	18.8
60892 2000 JH_{19}	14.3	X	184.19178	206.07706	166.67786	15.11122	0.1364377	0.23010321	2.6374704	21	3 18.2	18.3
60893 2000 JH_{21}	14.9	X	323.55787	349.57006	311.51773	3.16045	0.0380739	0.23823141	2.5771322	21	6 4.8	18.2
60894 2000 JP_{21}	15.6	X	50.55812	337.69546	333.13547	3.11243	0.1176008	0.29586379	2.2305305	21	11 16.0	18.2
60895 2000 JM_{22}	16.1	X	124.56737	28.00208	260.47398	4.73465	0.1924325	0.30218144	2.1993323	21	—	—
60896 2000 JB_{23}	14.5	X	201.90888	322.93682	352.41110	11.49017	0.1945256	0.22226236	2.6991402	21	1 29.3	19.1
60897 2000 JP_{24}	15.6	X	128.71743	311.44822	357.43802	7.04493	0.0834540	0.30615833	2.1802452	21	—	—
60898 2000 JQ_{25}	16.1	X	2.14182	94.53369	319.39672	4.35830	0.0031828	0.30467431	2.1873192	21	—	—
60899 2000 JN_{26}	15.0	X	115.54532	337.24574	300.70580	5.55292	0.1208859	0.25348177	2.4727007	21	12 10.7	18.8
60900 2000 JR_{26}	15.5	X	314.94019	193.65552	324.03870	4.50872	0.1717081	0.26723122	2.3871401	21	—	—
60901 2000 JX_{26}	15.8	X	162.84566	250.33211	19.05599	6.29599	0.0351048	0.30606267	2.1806994	21	—	—
60902 2000 JX_{27}	13.9	X	126.14310	28.88374	317.31298	4.40536	0.1179746	0.16955587	3.2329141	21	—	—
60903 2000 JS_{28}	15.0	X	1.58439	10.78707	317.63427	4.64066	0.1059031	0.24457093	2.5324031	21	9 13.3	17.6
60904 2000 JG_{29}	16.4	X	142.96777	166.65824	5.58284	2.99741	0.1086747	0.29183152	2.2510299	21	8 29.3	19.5
60905 2000 JP_{29}	15.7	X	145.97531	213.09513	20.83266	3.77087	0.1070371	0.29915891	2.2141214	21	11 22.2	18.7
60906 2000 JG_{30}	15.5	X	327.72811	110.20548	269.65416	3.06729	0.1024555	0.29398404	2.2400285	21	10 5.8	17.4
60907 2000 JL_{30}	15.6	X	238.09410	94.51057	332.28649	1.16425	0.1178471	0.28976353	2.2617273	21	7 21.5	18.6
60908 2000 JP_{30}	15.8	X	313.08077	162.80736	10.57540	2.83240	0.1068522	0.26736961	2.3863163	21	—	—
60909 2000 JH_{31}	15.3	X	245.96440	119.80116	246.23065	6.14084	0.1250330	0.28107608	2.3080938	21	5 5.2	18.7
60910 2000 JJ_{31}	16.2	X	347.80321	177.01699	7.08149	2.62790	0.1297909	0.27315902	2.3524786	21	1 10.9	18.8
60911 2000 JO_{31}	16.3	X	58.18720	259.81399	34.61925	4.56600	0.1147950	0.29398291	2.2400342	21	11 3.6	18.8
60912 2000 JJ_{33}	15.7	X	2.48212	324.35432	295.37864	2.67366	0.1151864	0.28260557	2.2997585	21	6 1.0	17.7
60913 2000 JR_{34}	14.8	X	150.79333	8.98677	37.31311	5.17428	0.0888266	0.22932770	2.6434131	21	3 22.9	18.6
60914 2000 JL_{35}	15.9	X	144.91502	132.93465	25.17828	1.74328	0.0756229	0.24317850	2.5420608	21	8 8.0	19.4
60915 2000 JT_{35}	15.6	X	172.93922	163.75586	240.37817	5.20390	0.0856704	0.27770395	2.3267408	21	4 5.1	19.0
60916 2000 JL_{37}	14.8	X	316.75745	146.42081	243.71443	5.84211	0.1470715	0.29204314	2.2499423	21	9 25.4	16.6
60917 2000 JK_{38}	16.7	X	110.11269	23.77080	237.72623	7.94120	0.0571286	0.29740240	2.2228308	21	11 17.3	19.5
60918 2000 JZ_{38}	16.5	X	77.33436	351.52678	244.56523	3.59974	0.0808896	0.28982615	2.2614015	21	8 31.2	19.3
60919 2000 JY_{39}	15.6	X	144.36163	215.76889	343.83419	0.30112	0.0429596	0.24694957	2.5161152	21	9 29.7	19.1
60920 2000 JV_{40}	15.1	X	226.07527	285.13066	61.93451	7.01003	0.1890018	0.27506955	2.3415730	21	3 22.8	18.9
60921 2000 JY_{40}	15.8	X	69.09494	315.92006	65.68858	5.73616	0.1647706	0.30682658	2.1770784	21	—	—
60922 2000 JF_{41}	15.3	X	147.01100	284.99340	80.80236	3.52435	0.2163828	0.26699657	2.3885386	21	2 3.7	18.8
60923 2000 JR_{43}	15.6	X	134.10854	307.46938	75.18175	3.59872	0.1757101	0.26955204	2.3734184	21	2 5.8	18.7
60924 2000 JF_{44}	16.0	X	54.01011	265.08964	26.59838	2.70784	0.2746641	0.29060853	2.2573408	21	11 16.4	19.0
60925 2000 JB_{45}	15.6	X	284.55039	224.37695	90.07790	2.92042	0.1109675	0.23218515	2.6216804	21	4 19.9	19.1
60926 2000 JH_{45}	13.8	X	119.30949	134.60998	226.90767	4.43922	0.1593639	0.16953143	3.2332248	21	1 8.5	18.5
60927 2000 JQ_{45}	14.6	X	244.87973	346.99334	242.87613	3.26013	0.0363887	0.17055889	3.2202269	21	—	—
60928 2000 JR_{45}	15.9	X	22.70506	120.29150	181.46766	0.47503	0.0853122	0.28962612	2.2624426	21	9 15.7	18.0
60929 2000 JO_{46}	15.2	X	297.17150	203.17084	241.82632	6.39548	0.1316542	0.29946335	2.2126205	21	11 18.9	17.0
60930 2000 JX_{46}	14.6	X	41.78490	266.42145	13.81387	12.32790	0.2109614	0.24292892	2.5438016	21	10 1.2	17.6
60931 2000 JH_{47}	14.8	X	226.49024	293.94191	349.09818	8.64914	0.1094485	0.22188826	2.7021731	21	1 10.9	19.1
60932 2000 JY_{49}	14.9	X	1.07322	25.97648	278.58099	8.32084	0.0633091	0.24216534	2.5491461	21	8 5.1	17.9
60933 2000 JK_{51}	15.5	X	352.99608	120.79029	283.06717	5.04593	0.1151061	0.30032258	2.2083982	21	—	—
60934 2000 JL_{51}	14.3	X	59.59446	76.07723	263.41081	2.85756	0.0565164	0.16004905	3.3597012	21	12 1.7	19.1
60935 2000 JN_{51}	15.6	X	39.10256	29.36924	314.98044	3.29954	0.1796874	0.29623852	2.2286491	21	12 27.5	18.3
60936 2000 JT_{52}	14.7	X	49.44738	325.06874	353.72959	5.90327	0.1234838	0.29452993	2.2372598	21	11 25.7	17.5
60937 2000 JQ_{53}	14.6	X	194.58136	7.79366	286.95341	4.94989	0.1190175	0.21715238	2.7413195	21	—	—
60938 2000 JF_{54}	16.6	X	180.97338	356.00771	245.54404	4.55418	0.0818259	0.30485774	2.1864417	21	—	—
60939 2000 JH_{54}	16.0	X	223.01246	181.04522	79.07086	3.48119	0.1551637	0.26483048	2.4015450	21	—	—
60940 2000 JJ_{54}	15.8	X	307.25404	182.46648	69.75338	4.98102	0.1198992	0.27525752	2.3405069	21	2 18.9	18.7
60941 2000 JQ_{54}	15.7	X	310.60500	105.56441	205.79045	5.43652	0.1333238	0.28183457	2.3039508	21	5 14.1	18.2
60942 2000 JZ_{54}	15.5	X	221.01776	152.80716	153.53037	2.39683	0.1857802	0.26874501	2.3781675	21	1 24.5	19.4
60943 2000 JV_{55}	15.1	X	272.74296	272.21321	164.66135	2.82179	0.1211216	0.29486007	2.2355896	21	9 23.6	17.2
60944 2000 JB_{56}	14.9	X	213.33009	254.18092	104.81226	4.28968	0.2739916	0.27262596	2.3555441	21	3 24.7	19.1
60945 2000 JV_{56}	15.9	X	355.00471	105.07728	199.95536	5.31430	0.1535426	0.28553106	2.2840230	21	7 29.9	17.7
60946 2000 JY_{57}	15.3	X	43.70225	141.35233	82.62832	5.18121	0.1958386	0.23715196	2.5849466	21	7 10.3	17.9
60947 2000 JH_{58}	14.6	X	212.99874	176.40859	88.00237	9.53660	0.2019308	0.21590982	2.7518270	21	—	—
60948 2000 JE_{61}	15.2	X	267.68293	269.43070	48.67324	13.97358	0.2677203	0.27439399	2.3454148	21	3 21.5	19.2
60949 2000 JM_{61}	15.7	X	213.87593	342.14795	12.60765	0.66737	0.0940948	0.32060331	2.1142551	21	3 13.4	18.5
60950 2000 JP_{61}	15.0	X	220.92330	232.19120	42.50732	1.69788	0.1244198	0.31156740	2.1549376	21	—	—
60951 2000 JA_{62}	15.4	X	294.35924	201.73377	158.26534	2.40594	0.1446815	0.28552561	2.2840521	21	6 27.7	17.8
60952 2000 JM_{62}	15.2	X	4.99014	328.42474	226.93676	13.32296	0.0934315	0.23200103	2.6230674	21	3 3.4	18.6
60953 2000 JT_{62}	13.6	X	63.60064	28.22249	20.95498	18.67272	0.1476024	0.17362901	3.1821540	21	—	—
60954 2000 JF_{63}	15.4	X	143.07946	348.10047	355.13203	2.50487	0.2302888	0.26332635	2.4106815	21	1 3.9	18.8
60955 2000 JG_{65}	15.6	X	54.02914	121.49352	155.93879	7.52272	0.1312001	0.29045174	2.2581532	21	10 9.7	18.2
60956 2000 JT_{69}	15.3	X	324.62428	160.26396	108.13221	24.42528	0.1262726	0.28098372	2.3085996	21	4 18.0	18.6
60957 2000 JD_{71}	15.0	X	68.85364	315.94320	229.96220	13.49006	0.0321815	0.24059201	2.5602473	21	5 31.4	18.2
60958 2000 JD_{72}	16.8	X	126.87076	128.99509	95.69616	6.48518	0.1978891	0.29565233	2.2315940	21	10 27.2	20.4
60959 2000 JH_{73}	15.4	X	114.44202	149.68818	144.27471	7.22911	0.1237762	0.30021567	2.2089225	21	—	—
60960 2000 JC_{74}	15.1	X	309.20276	84.25019	189.71924	5.55915	0.1414468	0.27710875	2.3300714	21	3 16.5	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
60961 2000 JY_{74}	15.4	X	62.52075	182.50794	146.65173	10.01222	0.1851487	0.29786929	2.2205074	21	—	—
60962 2000 JB_{76}	16.2	X	195.29606	123.36769	116.73045	1.97384	0.1277647	0.30602242	2.1808906	21	—	—
60963 2000 JL_{76}	15.6	X	338.51308	41.98293	191.75925	2.08820	0.1661402	0.27633277	2.3344314	21	2 27.6	17.9
60964 2000 JS_{76}	15.3	X	15.71246	298.34602	346.32364	5.34470	0.1122522	0.24109772	2.5566659	21	8 8.2	17.9
60965 2000 JA_{77}	15.9	X	248.81756	343.90250	35.06041	0.70577	0.0610159	0.28460653	2.2889667	21	6 3.7	18.8
60966 2000 JH_{80}	16.5	X	321.07176	42.03478	49.77666	5.33672	0.1242333	0.30479998	2.1867179	21	—	—
60967 2000 JJ_{80}	16.0	X	143.07708	2.60055	52.98118	5.31791	0.1244837	0.27587272	2.3370260	21	3 25.2	19.2
60968 2000 JY_{82}	16.3	X	72.73589	27.30269	295.63410	1.37204	0.2217657	0.29751480	2.2222709	21	—	—
60969 2000 JO_{83}	16.4	X	260.16873	108.76546	126.68495	2.23214	0.1397369	0.26695236	2.3888023	21	—	—
60970 2000 JA_{85}	15.3	X	29.88647	300.35317	134.75574	3.93533	0.0711671	0.21910614	2.7249990	21	—	—
60971 2000 JM_{85}	16.4	X	190.51328	354.29149	178.75840	4.21473	0.0996338	0.29781076	2.2207984	21	10 23.5	19.2
60972 Matenko	14.8	X	245.87426	81.21962	221.56676	11.79935	0.1628738	0.22340567	2.6899234	21	2 13.1	19.4
60973 2000 KC_{2}	14.4	X	154.95004	339.81183	99.53932	25.61187	0.1989231	0.28608999	2.2810472	21	5 21.3	18.4
60974 2000 KC_{3}	15.6	X	221.44243	242.49016	185.12671	5.12198	0.1306234	0.28692509	2.2766190	21	6 30.9	18.9
60975 2000 KR_{3}	14.7	X	6.14314	289.55028	221.83379	13.65877	0.0414292	0.22307510	2.6925802	21	1 14.0	18.5
60976 2000 KW_{5}	15.2	X	237.90734	175.77320	198.97143	5.53292	0.1639009	0.28054034	2.3110313	21	5 6.6	18.5
60977 2000 KE_{6}	16.5	X	127.07281	90.33932	143.01328	3.21549	0.1176660	0.29569094	2.2313997	21	11 3.3	19.6
60978 2000 KP_{7}	14.4	X	208.42969	134.67493	238.08612	11.68816	0.2744724	0.22652688	2.6651575	21	4 4.6	19.4
60979 2000 KW_{7}	14.9	X	260.19087	240.24149	102.49977	8.05258	0.1471600	0.27767632	2.3268952	21	4 22.5	18.3
60980 2000 KF_{9}	15.9	X	155.65642	179.21179	167.20907	2.19350	0.2163186	0.26539027	2.3981668	21	1 17.9	19.4
60981 2000 KP_{12}	15.9	X	275.91041	340.26304	71.29968	2.59863	0.0432743	0.29164877	2.2519701	21	9 4.4	18.3
60982 2000 KO_{13}	16.0	X	176.57440	18.04049	66.98707	4.38499	0.1166467	0.28426213	2.2908152	21	6 6.5	19.1
60983 2000 KP_{13}	15.6	X	299.91488	164.75484	233.42600	5.54113	0.1534021	0.29216872	2.2492975	21	9 2.1	17.9
60984 2000 KQ_{13}	15.0	X	299.95986	106.59459	206.59964	3.24358	0.0818264	0.18819935	3.0157173	21	5 15.9	19.2
60985 2000 KW_{14}	14.3	X	127.35860	297.44382	56.17483	6.51382	0.1248068	0.16958721	3.2325158	21	1 4.8	19.1
60986 2000 KN_{17}	15.2	X	342.75013	49.78495	254.64922	2.33184	0.1772987	0.23715400	2.5849317	21	6 29.5	17.5
60987 2000 KW_{18}	14.6	X	300.42710	317.73780	247.67285	8.29694	0.0389082	0.17443621	3.1723295	21	1 9.9	19.1
60988 2000 KR_{19}	15.9	X	184.29134	355.87505	59.34769	2.85191	0.0484776	0.27963610	2.3160107	21	5 4.2	19.0
60989 2000 KJ_{22}	16.3	X	61.74381	253.06224	75.30415	2.70985	0.2017457	0.29617200	2.2289828	21	—	—
60990 2000 KU_{22}	15.5	X	308.41163	266.73530	258.25626	2.46316	0.2014282	0.26593070	2.3949166	21	—	—
60991 2000 KK_{24}	15.2	X	306.98928	151.07960	230.64424	3.42070	0.1527862	0.28895056	2.2659675	21	8 21.4	17.3
60992 2000 KO_{24}	15.4	X	81.80221	23.70944	73.32391	7.85310	0.0818988	0.27191653	2.3596394	21	2 21.2	18.1
60993 2000 KP_{24}	15.2	X	128.82936	35.66993	74.67681	7.40148	0.1017564	0.28027675	2.3124801	21	5 17.2	18.1
60994 2000 KA_{26}	15.7	X	186.57066	328.38899	252.20992	5.82599	0.0945627	0.30159748	2.2021703	21	12 21.6	18.7
60995 2000 KD_{26}	16.5	X	190.48544	205.37022	83.76129	0.79581	0.1947152	0.30857308	2.1688559	21	—	—
60996 2000 KK_{26}	16.4	X	173.80396	105.82164	69.71641	8.13193	0.1242844	0.29502690	2.2347467	21	10 9.6	19.7
60997 2000 KU_{27}	15.5	X	6.44658	158.24772	238.25463	4.47527	0.1377383	0.29917155	2.2140590	21	—	—
60998 2000 KE_{28}	15.9	X	51.00926	247.99514	161.57796	1.15779	0.0393890	0.30750944	2.1738542	21	—	—
60999 2000 KC_{30}	16.3	X	96.26490	206.90345	77.57485	7.12886	0.1862861	0.29598678	2.2299126	21	12 10.5	19.8
61000 2000 KD_{31}	15.2	X	351.94188	71.72863	239.12201	1.56646	0.1384222	0.23838242	2.5760437	21	7 31.4	17.7
61001 2000 KJ_{31}	16.1	X	289.59855	258.83246	49.51146	2.85763	0.2237242	0.27612177	2.3356206	21	3 28.6	19.2
61002 2000 KS_{32}	15.5	X	74.65766	75.22611	229.90638	1.70288	0.0821909	0.29577645	2.2309696	21	12 5.1	18.2
61003 2000 KU_{32}	16.2	X	259.16255	85.69139	61.54328	1.70971	0.0604622	0.30139265	2.2031680	21	12 24.9	18.3
61004 2000 KH_{33}	15.6	X	328.65107	185.07622	88.29675	4.72801	0.2314980	0.27761991	2.3272104	21	4 2.3	18.0
61005 2000 KA_{35}	15.6	X	234.69095	170.35165	169.50127	6.74126	0.1852031	0.27366541	2.3495757	21	3 18.5	19.2
61006 2000 KR_{35}	16.6	X	144.21293	22.20349	215.75562	3.55644	0.1268023	0.29812618	2.2192317	21	11 26.2	19.7
61007 2000 KV_{35}	16.2	X	347.69802	92.13608	165.25006	5.73686	0.0783971	0.27999293	2.3140426	21	5 5.2	18.7
61008 2000 KE_{36}	15.4	X	260.63000	71.47977	225.56207	6.55845	0.1241161	0.27210084	2.3585738	21	2 18.2	18.9
61009 2000 KH_{36}	15.6	X	71.98305	174.76840	126.48100	6.31746	0.2279917	0.29387843	2.2405651	21	12 12.7	18.9
61010 2000 KR_{36}	15.5	X	287.09849	166.13468	162.06421	10.60711	0.1447589	0.23315154	2.6144310	21	5 8.4	19.2
61011 2000 KJ_{40}	15.7	X	47.12675	341.16402	66.46678	3.33683	0.1832936	0.26122581	2.4235872	21	—	—
61012 2000 KP_{41}	15.4	X	174.55799	193.91205	171.20126	7.57488	0.1339265	0.26985233	2.3716573	21	2 20.3	18.9
61013 2000 KR_{41}	14.9	X	357.99817	42.99522	208.71604	3.99643	0.0980971	0.23390468	2.6088159	21	5 16.4	17.6
61014 2000 KV_{41}	16.0	X	280.05273	98.29703	172.28314	2.39369	0.1852292	0.27195310	2.3594279	21	2 1.5	19.6
61015 2000 KJ_{42}	15.0	X	338.28452	200.16914	142.57754	15.03525	0.1628513	0.24031033	2.5622475	21	8 21.9	17.3
61016 2000 KT_{42}	16.8	X	24.86495	200.68636	231.86264	3.95885	0.0832461	0.30994510	2.1624506	21	—	—
61017 2000 KX_{42}	15.6	X	240.98679	2.38968	57.34962	5.22993	0.1204344	0.24280588	2.5446609	21	7 14.7	19.3
61018 2000 KA_{46}	15.6	X	160.20480	179.61244	97.81217	6.28222	0.0674439	0.25827069	2.4420392	21	—	—
61019 2000 KU_{46}	15.1	X	247.41607	52.78469	164.12419	7.50347	0.0714788	0.26168706	2.4207386	21	—	—
61020 2000 KC_{47}	13.9	X	217.64238	220.25178	149.04651	10.50289	0.0680136	0.18221569	3.0813820	21	4 24.0	18.7
61021 2000 KS_{49}	15.8	X	170.59264	15.85527	55.88543	5.18412	0.1737047	0.28197189	2.3032028	21	5 15.7	19.4
61022 2000 KY_{49}	15.6	X	232.30561	176.95361	206.03406	6.18989	0.1204143	0.28090024	2.3090569	21	5 14.8	19.0
61023 2000 KV_{50}	15.4	X	290.47244	47.38269	269.37605	2.53426	0.1922589	0.27725419	2.3292564	21	4 11.7	18.5
61024 2000 KJ_{52}	13.9	X	165.06504	177.41129	207.43725	9.83613	0.1106662	0.18114057	3.0935625	21	3 15.0	18.8
61025 2000 KU_{52}	14.9	X	351.85564	258.84687	216.23725	7.42844	0.1523661	0.21902619	2.7256621	21	—	—
61026 2000 KG_{53}	15.6	X	158.38119	321.70124	259.08608	8.85500	0.0650600	0.29721026	2.2237887	21	11 19.7	18.6
61027 2000 KP_{53}	15.4	X	8.30209	51.53109	265.56964	4.03844	0.1542394	0.24108974	2.5567223	21	9 12.2	18.1
61028 2000 KR_{53}	14.8	X	147.71718	99.81422	256.17961	5.91991	0.1631391	0.26364038	2.4087669	21	1 15.3	18.2
61029 2000 KG_{55}	15.3	X	237.53806	210.35352	142.55836	4.57177	0.2673117	0.27451950	2.3446998	21	4 3.7	19.4
61030 2000 KN_{55}	16.1	X	124.78701	90.34184	148.84660	2.76257	0.1253555	0.29566461	2.2315322	21	11 8.5	19.3
61031 2000 KQ_{55}	16.2	X	80.89845	96.49151	103.88460	3.99153	0.1212697	0.28570504	2.2830957	21	7 23.6	18.9
61032 2000 KC_{56}	15.7	X	310.82356	199.83311	99.22498	5.50145	0.1529257	0.27885117	2.3203548	21	4 24.9	18.4
61033 2000 KG_{56}	15.5	X	11.79913	233.62518	85.20113	7.80514	0.1614002	0.28854682	2.2680808	21	10 8.6	17.6
61034 2000 KX_{56}	14.4	X	15.53273	103.83436	167.18025	2.55898	0.0815923	0.19079079	2.9883476	21	7 13.4	18.2
61035 2000 KN_{57}	15.7	X	295.61308	358.90603	10.43658	0.84460	0.0740889	0.19596069	2.9355540	21	7 24.1	19.6
61036 2000 KC_{59}	15.8	X	165.86262	184.43142	201.61204	5.55236	0.1180625	0.27300502	2.3533632	21	3 7.7	19.1
61037 2000 KG_{59}	15.5	X	231.28102	209.36596	107.63325	4.44466	0.0253646	0.22666691	2.6640598	21	2 28.5	19.1
61038 2000 KU_{59}	14.7	X	38.03250	10.38845	67.95858	9.98507	0.0681112	0.21857047	2.7294495	21	—	—
61039 2000 KW_{59}	14.2	X	309.12604	33.90317	137.65725	2.69744	0.1437526	0.17360028	3.1825051	21	—	—
61040 2000 KQ_{60}	14.5	X	186.14130	97.54304	205.22407	11.42940	0.0710194	0.17203079	3.2018324	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61041 2000 KR_{60}	15.2	X	338.35129	202.70694	136.81500	5.93660	0.2659611	0.24068554	2.5595840	21	8 8.6	16.7
61042 2000 KB_{61}	12.8	X	131.87922	266.93403	100.47505	9.54354	0.2685135	0.12395974	3.9836601	21	2 16.8	19.2
61043 2000 KJ_{61}	15.4	X	142.62137	227.20829	101.02058	7.41508	0.2657373	0.25952474	2.4341661	21	—	—
61044 2000 KT_{62}	14.2	X	4.91373	108.73184	112.67189	12.79372	0.0579944	0.18539341	3.0460698	21	4 27.7	18.4
61045 2000 KU_{62}	16.2	X	326.20928	154.24329	170.56530	9.27617	0.1578605	0.28444301	2.2898439	21	6 28.1	18.4
61046 2000 KB_{63}	15.3	X	197.14565	199.91689	202.32957	15.47972	0.1372366	0.23307775	2.6149828	21	5 6.4	19.5
61047 2000 KJ_{63}	16.4	X	165.86540	21.34973	178.17579	6.96324	0.0378914	0.29726464	2.2235175	21	11 3.9	19.1
61048 2000 KV_{63}	14.7	X	148.60139	175.63933	163.36023	9.14396	0.1658704	0.21721877	2.7407609	21	1 4.7	19.0
61049 2000 KF_{65}	15.6	X	73.52701	8.65738	116.20911	5.07739	0.0787324	0.22947288	2.6422981	21	3 25.0	18.9
61050 2000 KM_{72}	15.6	X	346.66051	264.47398	103.42702	1.96594	0.1228751	0.29180177	2.2511828	21	10 27.9	17.4
61051 2000 KC_{73}	15.4	X	182.78801	65.65643	152.18433	7.31815	0.0951649	0.29617449	2.2289703	21	12 13.3	18.4
61052 2000 KF_{73}	15.4	X	208.06277	224.61685	109.76200	1.70541	0.2285718	0.26468957	2.4023973	21	2 18.3	19.4
61053 2000 KQ_{73}	14.4	X	358.77615	308.22281	192.84362	17.51083	0.1307663	0.17756709	3.1349291	21	—	—
61054 2000 KR_{74}	15.0	X	260.43031	219.37693	92.04995	15.61166	0.0861150	0.22955572	2.6416624	21	3 29.1	19.1
61055 2000 KJ_{75}	15.2	X	282.62501	357.42179	205.08354	9.17363	0.1327688	0.21983958	2.7189348	21	—	—
61056 2000 KN_{75}	15.2	X	304.35079	189.73702	136.93757	10.05845	0.1596042	0.23545777	2.5973314	21	5 27.5	18.5
61057 2000 KD_{76}	15.1	X	348.21886	201.62893	161.74882	14.75250	0.1293474	0.24515228	2.5283979	21	10 17.7	17.8
61058 2000 KT_{78}	15.9	X	230.85024	172.11325	180.65776	4.83045	0.1924790	0.27483260	2.3429187	21	3 30.8	19.6
61059 2000 LX	15.0	X	241.64745	226.74869	173.63152	8.35833	0.1620283	0.27665882	2.3325969	21	6 14.1	18.6
61060 2000 LH_{1}	15.4	X	43.09355	146.74519	147.02478	5.83906	0.2123811	0.28939983	2.2636218	21	10 30.6	18.1
61061 2000 LX_{1}	14.8	X	297.39860	243.36805	99.11261	23.76529	0.2407286	0.27991194	2.3144889	21	5 27.7	17.9
61062 2000 LF_{2}	15.6	X	265.44125	240.58379	167.96708	2.06461	0.1244122	0.28753305	2.2734088	21	7 29.8	18.3
61063 2000 LN_{4}	14.5	X	216.81528	189.40376	121.61843	13.85837	0.1756726	0.21993744	2.7181282	21	2 2.8	19.1
61064 2000 LW_{4}	15.1	X	59.81664	141.53048	161.96916	5.73509	0.1873093	0.29248066	2.2476979	21	11 29.1	18.2
61065 2000 LE_{5}	16.0	X	122.19064	94.14821	149.23911	6.70847	0.1284604	0.29452696	2.2372749	21	11 12.5	19.3
61066 2000 LV_{5}	16.1	X	270.90488	217.70100	5.42999	2.22443	0.1643476	0.26624194	2.3930498	21	—	—
61067 2000 LQ_{6}	15.4	X	257.94560	316.69515	129.08936	4.58134	0.1044384	0.29295827	2.2452543	21	9 18.0	17.9
61068 2000 LR_{6}	15.8	X	135.57883	11.95000	105.79980	6.55089	0.0744715	0.28185137	2.3038593	21	6 1.8	18.8
61069 2000 LS_{7}	15.0	X	351.06413	88.21443	205.48811	6.38718	0.1491605	0.28259305	2.2998265	21	7 1.6	16.9
61070 2000 LV_{7}	14.3	X	199.06430	97.97160	208.71100	7.39253	0.2578353	0.21616228	2.7496839	21	1 14.5	19.3
61071 2000 LS_{8}	15.8	X	232.67884	88.80737	187.47878	2.47220	0.1010232	0.31281035	2.1492255	21	—	—
61072 2000 LW_{8}	15.7	X	326.82851	88.25276	237.34668	4.60371	0.1896236	0.28302102	2.2975074	21	6 25.8	17.4
61073 2000 LB_{9}	15.1	X	351.48562	192.93105	89.09111	15.51974	0.1268304	0.23535466	2.5980899	21	6 16.8	17.6
61074 2000 LR_{9}	14.2	X	352.69096	105.09610	265.42627	13.07027	0.1858100	0.24173122	2.5521972	21	11 2.7	16.7
61075 2000 LQ_{10}	14.4	X	29.48167	194.59710	174.67991	14.63331	0.1775345	0.24476648	2.5310541	21	—	—
61076 2000 LP_{14}	14.3	X	307.82149	180.76853	83.73014	14.13721	0.1219610	0.22774245	2.6556656	21	3 21.3	18.1
61077 2000 LU_{15}	16.2	X	57.80640	39.66191	176.52807	5.71307	0.0683205	0.28009994	2.3134532	21	7 1.4	18.9
61078 2000 LZ_{15}	15.5	X	289.63687	215.55450	106.50149	6.46106	0.2797354	0.27344807	2.3508205	21	4 11.2	18.9
61079 2000 LY_{17}	15.2	X	34.91137	69.08107	225.67464	5.05331	0.1841409	0.28699792	2.2762339	21	10 10.8	17.6
61080 2000 LW_{19}	15.8	X	5.92895	144.60240	154.96322	7.27695	0.2202639	0.28292458	2.2980295	21	8 24.5	16.9
61081 2000 LZ_{19}	16.0	X	332.30988	17.53421	226.17907	6.10871	0.1852629	0.27355405	2.3502133	21	2 26.9	18.7
61082 2000 LB_{20}	15.1	X	122.07463	101.62691	214.26235	6.11839	0.1345487	0.25280207	2.4771309	21	—	—
61083 2000 LE_{20}	15.2	X	226.05091	142.94788	198.37509	6.26119	0.1643608	0.26865811	2.3786803	21	3 11.9	19.0
61084 2000 LF_{20}	13.7	X	289.50001	22.18622	263.02632	14.98981	0.1569626	0.17731602	3.1378877	21	3 10.7	18.6
61085 2000 LL_{21}	15.5	X	77.73339	83.10447	187.75440	5.25749	0.2229443	0.28921690	2.2645762	21	11 9.1	18.8
61086 2000 LU_{21}	16.3	X	93.69030	87.34026	225.70063	4.90034	0.1804356	0.29547529	2.2324853	21	—	—
61087 2000 LY_{21}	13.9	X	218.62251	188.37945	240.83826	12.00306	0.1644185	0.22987124	2.6392445	21	6 27.2	18.1
61088 2000 LZ_{21}	15.1	X	157.50068	209.65894	154.17345	11.07933	0.2871987	0.25958339	2.4337994	21	2 16.9	19.0
61089 2000 LO_{22}	14.9	X	119.34447	273.34831	176.20220	9.47254	0.0689832	0.18315554	3.0708316	21	4 12.3	19.3
61090 2000 LN_{23}	14.6	X	278.19446	126.71202	211.68049	23.27389	0.2214463	0.27749775	2.3278933	21	4 24.1	17.9
61091 2000 LU_{27}	15.1	X	212.08120	38.81629	302.19803	1.77255	0.1990449	0.26482047	2.4016056	21	2 28.2	19.0
61092 2000 LV_{27}	15.0	X	203.96224	1.04948	337.69005	2.21580	0.1777779	0.26361777	2.4089045	21	2 19.2	18.8
61093 2000 LW_{27}	15.6	X	283.64001	311.77789	44.86195	2.96184	0.2486669	0.27542980	2.3395308	21	5 21.3	18.7
61094 2000 LH_{28}	14.6	X	160.57426	185.70258	141.68636	8.93052	0.2211483	0.20957877	2.8069705	21	1 8.9	19.2
61095 2000 LP_{28}	15.1	X	78.41232	206.42319	123.86748	8.49303	0.1929984	0.29358764	2.2420444	21	—	—
61096 2000 LS_{28}	15.3	X	212.13138	227.32070	98.89632	3.69511	0.1844379	0.26341324	2.4101514	21	2 11.9	19.2
61097 2000 LT_{28}	15.6	X	178.85944	171.61385	133.43979	24.57751	0.0608781	0.35621751	1.9708756	21	—	—
61098 2000 LY_{28}	14.7	X	225.91958	45.57011	282.43525	6.14305	0.1193639	0.26558505	2.3969941	21	2 23.3	18.5
61099 2000 LG_{29}	15.0	X	46.36978	181.10944	135.18945	4.52978	0.2644312	0.24141875	2.5543989	21	12 1.8	18.6
61100 2000 LJ_{29}	15.7	X	251.50991	158.61176	154.23183	0.89269	0.2109728	0.26748950	2.3856033	21	2 26.8	19.4
61101 2000 LD_{30}	16.3	X	162.20571	182.51908	96.48873	5.98445	0.1862818	0.30202024	2.2001148	21	—	—
61102 2000 LM_{30}	13.3	X	125.15012	80.78362	256.61295	15.90578	0.1302242	0.15841804	3.3827218	21	—	—
61103 2000 LP_{30}	14.6	X	208.71238	198.07636	155.12793	17.75068	0.1994110	0.22511140	2.6763180	21	3 18.6	19.2
61104 2000 LU_{30}	15.4	X	257.38288	130.52526	210.46485	5.91922	0.1490004	0.27164732	2.3611982	21	4 13.1	18.9
61105 2000 LN_{31}	15.5	X	110.77503	5.74829	21.32144	4.21758	0.1397441	0.31293692	2.1486459	21	—	—
61106 2000 LQ_{31}	15.0	X	303.70815	111.56215	229.83890	7.74133	0.0952514	0.23153553	2.6265819	21	6 23.8	18.4
61107 2000 LR_{31}	15.8	X	52.81372	117.76938	168.47821	5.99810	0.1510034	0.28716194	2.2753670	21	10 22.6	18.6
61108 2000 LT_{31}	14.6	X	321.63241	177.79549	188.64970	4.67459	0.2641015	0.23497316	2.6009014	21	8 6.1	16.7
61109 2000 LU_{31}	15.6	X	242.37956	183.28349	146.77739	6.73131	0.1641093	0.26906861	2.3762604	21	3 15.8	19.3
61110 2000 LC_{32}	15.8	X	340.45519	188.91888	134.08621	6.74488	0.1938970	0.28142894	2.3061641	21	7 24.8	17.4
61111 2000 LD_{33}	15.3	X	20.77457	180.13823	173.32983	4.11273	0.1946069	0.29486998	2.2355395	21	12 17.5	17.7
61112 2000 LO_{33}	16.1	X	349.43020	38.74635	203.46295	6.93155	0.0711461	0.27861172	2.3216841	21	4 13.9	18.6
61113 2000 LP_{33}	15.2	X	355.80567	144.94618	169.52036	24.63773	0.1958862	0.28594987	2.2817923	21	8 19.4	17.0
61114 2000 LJ_{34}	14.9	X	340.50553	171.63787	229.09962	9.59814	0.1327110	0.24227889	2.5483496	21	11 22.4	17.3
61115 2000 LQ_{34}	14.3	X	163.95637	124.21056	256.01916	12.10979	0.1560388	0.21665039	2.7455524	21	3 3.6	18.9
61116 2000 LT_{34}	15.8	X	55.07965	90.30584	160.99655	8.81870	0.1052763	0.28319899	2.2965447	21	8 25.7	18.2
61117 2000 LX_{34}	15.8	X	243.53291	153.74265	177.37402	6.03173	0.1400966	0.27660791	2.3328832	21	3 17.3	19.0
61118 2000 LV_{35}	14.9	X	336.68732	208.00423	132.06946	5.14058	0.1643806	0.28216591	2.3021468	21	8 18.2	16.4
61119 2000 LJ_{36}	15.7	X	282.94235	2.05097	195.07860	6.35236	0.1143965	0.26546425	2.3977212	21	—	—
61120 2000 LL_{36}	14.8	X	30.27690	133.76104	138.67113	9.40471	0.0627281	0.24086290	2.5583273	21	8 8.2	17.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61121 2000 MU	15.8	X	290.19640	340.42107	321.17751	1.56028	0.2189197	0.27385261	2.3485048	21	3 19.5	19.0
61122 2000 MM_1	15.6	X	77.14239	312.99751	320.91597	4.39529	0.1316831	0.28977213	2.2616825	21	10 30.2	18.7
61123 2000 MN_1	14.7	X	199.83973	250.54740	78.13165	6.45553	0.3047007	0.26242072	2.4162246	21	2 8.8	19.1
61124 2000 MX_1	15.8	X	50.80472	278.68826	311.12207	2.68516	0.1228350	0.28223728	2.3017587	21	7 20.5	18.1
61125 2000 MK_2	15.8	X	223.92253	290.79533	43.83304	2.92533	0.2164950	0.26758920	2.3850107	21	3 3.6	19.8
61126 2000 MN_4	14.3	X	255.59833	13.14090	342.03558	3.37386	0.2390325	0.22645261	2.6657402	21	4 23.6	18.7
61127 2000 MH_5	14.6	X	278.24604	184.15933	144.36444	6.18356	0.1112635	0.27212782	2.3584179	21	4 28.5	17.7
61128 2000 MB_6	15.0	X	44.59062	320.46395	282.84830	3.09393	0.1853375	0.23858978	2.5745510	21	8 7.0	17.7
61129 2000 MD_6	15.3	X	303.64776	77.46198	108.63742	3.21778	0.1513150	0.26634331	2.3924426	21	—	—
61130 2000 NK	15.8	X	103.63603	88.07234	199.27474	1.71034	0.0860348	0.29505196	2.2346201	21	12 15.6	18.7
61131 2000 NN_1	15.0	X	107.88462	232.10601	143.41274	6.66260	0.1314040	0.25696155	2.4503265	21	—	—
61132 2000 NC_2	15.6	X	241.97671	330.37766	343.55794	2.34926	0.1785825	0.26854994	2.3793190	21	2 21.5	19.4
61133 2000 NL_2	15.7	X	32.31683	66.16114	262.88693	2.92654	0.1525805	0.28933488	2.2639605	21	11 21.2	18.3
61134 2000 NP_2	15.5	X	181.64304	143.27453	137.78032	7.10492	0.1189014	0.25751153	2.4468364	21	—	—
61135 2000 NT_2	15.2	X	85.45762	199.01537	113.12269	3.19440	0.1215932	0.24726618	2.5139670	21	12 21.6	19.0
61136 2000 NC_4	14.6	X	215.21801	221.85926	236.79574	3.55522	0.2490513	0.23430685	2.6058298	21	7 26.4	19.0
61137 2000 NR_4	15.7	X	32.65654	95.53507	160.26560	3.25192	0.1366475	0.28173385	2.3044999	21	7 29.6	17.8
61138 2000 NX_4	15.8	X	66.28682	297.92932	323.73220	3.66876	0.1098015	0.28666587	2.2779913	21	9 26.4	18.5
61139 2000 NO_5	15.6	X	303.99818	196.34753	155.71741	4.74609	0.2332822	0.27604562	2.3360501	21	6 15.9	18.0
61140 2000 NR_5	14.5	X	55.68505	86.14762	256.72561	6.02962	0.2911690	0.24320346	2.5418868	21	—	—
61141 2000 NZ_5	14.1	X	18.85878	27.44114	270.23231	12.56701	0.1674506	0.23748542	2.5825262	21	8 30.5	17.1
61142 2000 NW_6	15.2	X	199.89980	133.21325	146.85998	4.72453	0.1902568	0.30643305	2.1789419	21	—	—
61143 2000 ND_7	14.7	X	286.23634	119.64517	255.83821	5.19873	0.1717082	0.18577780	3.0418667	21	7 3.5	18.9
61144 2000 NW_8	16.2	X	104.29352	130.43709	156.62590	3.95500	0.1463198	0.29441105	2.2378621	21	12 19.1	19.6
61145 2000 NX_8	14.8	X	48.12543	74.75725	305.66591	5.67107	0.1809794	0.29255950	2.2472941	21	—	—
61146 2000 NO_{10}	15.2	X	154.85735	221.16222	104.49653	1.64027	0.2156500	0.25747537	2.4470655	21	—	—
61147 2000 ND_{11}	14.8	X	139.84871	85.88489	272.57961	1.95682	0.1924661	0.25850680	2.4405520	21	1 15.2	18.2
61148 2000 NL_{11}	15.4	X	198.89719	159.01547	157.30514	0.99308	0.2125431	0.26245257	2.4160291	21	1 19.8	19.3
61149 2000 NU_{11}	15.0	X	350.74122	175.74351	169.85571	9.14791	0.1807130	0.28934215	2.2639226	21	10 5.4	16.4
61150 2000 NV_{11}	15.7	X	261.42962	207.74008	146.00514	8.11074	0.1501886	0.27945408	2.3170163	21	5 7.4	19.0
61151 2000 NV_{12}	16.1	X	36.74262	64.78961	215.95788	3.63466	0.1155763	0.28356692	2.2945578	21	9 10.0	18.5
61152 2000 NE_{13}	15.5	X	139.54770	112.01274	258.81743	3.76470	0.1959982	0.25836500	2.4414449	21	1 30.0	18.9
61153 2000 NV_{13}	15.8	X	20.28391	18.64503	298.27696	4.99718	0.1814082	0.28493423	2.2872114	21	10 16.3	18.0
61154 2000 NW_{13}	14.4	X	115.11470	106.81753	311.47374	8.04825	0.1515521	0.21361892	2.7714661	21	3 2.6	18.3
61155 2000 NH_{14}	15.0	X	175.36550	175.25336	137.05835	6.85081	0.0854044	0.25761335	2.4461916	21	—	—
61156 2000 NJ_{14}	14.3	X	252.35542	185.57106	310.45887	9.54029	0.1071667	0.24429755	2.5342919	21	11 6.0	17.8
61157 2000 NE_{15}	15.5	X	236.29786	198.64594	129.60061	6.27411	0.2488021	0.26711005	2.3878620	21	3 5.0	19.6
61158 2000 NN_{15}	15.3	X	72.37323	225.37608	99.45423	4.22411	0.1231613	0.24568775	2.5247229	21	12 23.2	18.7
61159 2000 NZ_{16}	16.1	X	297.03068	213.05385	79.07463	3.67304	0.1686245	0.27210662	2.3585403	21	3 24.7	19.2
61160 2000 NH_{18}	14.6	X	276.56933	91.52840	324.47542	10.33514	0.0157640	0.23737196	2.5833491	21	9 6.8	18.0
61161 2000 NP_{18}	16.1	X	63.69022	247.11732	95.52974	3.37952	0.1720763	0.24644846	2.5195248	21	—	—
61162 2000 NV_{18}	16.1	X	126.87770	164.61586	97.38080	4.55732	0.1452162	0.29401641	2.2398641	21	12 9.2	19.5
61163 2000 NY_{18}	16.2	X	260.82088	170.08950	117.88850	3.61495	0.1784339	0.26721987	2.3872078	21	2 7.0	19.8
61164 2000 NM_{19}	15.9	X	168.78265	128.12900	129.02399	6.10307	0.1374458	0.29877732	2.2160062	21	—	—
61165 2000 NR_{19}	14.8	X	299.98834	205.83079	134.37342	10.45284	0.2158429	0.22973845	2.6402614	21	5 30.7	18.3
61166 2000 NU_{19}	14.2	X	101.25187	215.97331	302.81565	13.02848	0.1903223	0.22898467	2.6460524	21	7 2.5	18.1
61167 2000 NJ_{20}	14.6	X	229.98445	190.09822	141.11310	5.38750	0.1423455	0.22117555	2.7079749	21	3 11.5	18.8
61168 2000 NU_{20}	15.9	X	78.76945	120.29540	126.80589	8.86917	0.1171904	0.28659802	2.2783508	21	9 29.2	18.9
61169 2000 NY_{20}	15.3	X	136.76061	21.39091	285.07012	5.71000	0.1447758	0.25339769	2.4732477	21	—	—
61170 2000 NZ_{20}	15.1	X	188.79096	202.58235	151.41632	2.69931	0.1361721	0.21777144	2.7361219	21	2 28.3	19.3
61171 2000 NA_{21}	14.5	X	164.80198	10.04779	313.22985	5.57049	0.1290650	0.25774079	2.4453852	21	—	—
61172 2000 NE_{21}	14.0	X	103.25897	329.04953	288.75056	14.41534	0.0612111	0.24031175	2.5622375	21	10 20.4	18.0
61173 2000 NB_{22}	15.9	X	313.59913	175.94580	109.23570	6.32033	0.1801546	0.27532919	2.3401007	21	4 5.8	18.8
61174 2000 NN_{22}	15.6	X	44.48298	108.05508	214.59994	5.73200	0.2140195	0.28874756	2.2670295	21	12 8.7	18.5
61175 2000 NO_{22}	14.1	X	32.82189	29.17120	286.19415	12.88317	0.1355269	0.23909465	2.5709254	21	10 15.4	17.5
61176 2000 NZ_{22}	15.9	X	34.86731	219.60626	133.90835	4.52038	0.0824995	0.29281054	2.2460095	21	12 18.9	18.5
61177 2000 NJ_{23}	15.3	X	283.34148	111.86833	328.34048	6.36286	0.1369551	0.28632073	2.2798215	21	10 8.9	17.7
61178 2000 NT_{23}	15.2	X	141.89646	229.00728	150.67303	1.74382	0.1873444	0.26103997	2.4247374	21	2 12.3	18.7
61179 2000 NL_{24}	15.5	X	165.56000	157.71105	173.95599	2.69660	0.2035228	0.25901889	2.4373343	21	1 9.1	19.2
61180 2000 NQ_{24}	15.1	X	223.43847	211.37639	129.69871	7.25503	0.1464404	0.26784369	2.3834997	21	3 13.4	18.8
61181 2000 NT_{24}	16.5	X	318.01096	138.46974	146.36460	2.55640	0.2106649	0.27539788	2.3397115	21	4 4.1	19.2
61182 2000 NJ_{25}	14.5	X	340.32127	253.72837	110.08420	7.76356	0.2056414	0.23784492	2.5799233	21	10 2.8	16.7
61183 2000 NB_{26}	16.0	X	319.22765	222.27217	139.13660	4.61994	0.1591962	0.28262298	2.2996641	21	8 14.1	17.5
61184 2000 NO_{26}	14.6	X	274.01197	142.26431	221.97348	2.24396	0.1282144	0.22950527	2.6420494	21	6 8.8	18.1
61185 2000 NS_{26}	14.6	X	353.83405	38.08669	299.05538	9.33203	0.1256703	0.18967480	3.0000578	21	9 3.5	18.1
61186 2000 NA_{27}	14.7	X	164.55783	225.36602	127.35210	8.75471	0.2176364	0.21296707	2.7771185	21	2 10.9	19.3
61187 2000 NM_{27}	14.9	X	356.41618	293.35615	93.32512	5.49130	0.3115134	0.24055677	2.5604973	21	12 27.4	17.0
61188 2000 NT_{27}	15.9	X	267.62949	89.00054	177.16874	1.28946	0.1594134	0.26614308	2.3936424	21	1 18.3	19.4
61189 Ohsadaharu	14.5	X	249.60096	79.67595	247.04110	5.49296	0.1186252	0.26772074	2.3842294	21	3 17.7	18.0
61190 Johnschutt	15.4	X	332.14891	354.30234	87.31909	5.07857	0.0676095	0.30106430	2.2047696	21	—	—
61191 2000 OA	16.0	X	208.80538	160.19263	81.89974	4.06017	0.0598932	0.30309147	2.1949278	21	—	—
61192 2000 OU	15.8	X	330.21830	357.44259	295.66904	11.73517	0.1894411	0.27735959	2.3286663	21	5 5.9	18.5
61193 2000 OQ_1	15.8	X	310.47290	250.02199	234.00618	5.36623	0.1214730	0.29686961	2.2254895	21	—	—
61194 2000 OU_1	15.8	X	351.80212	282.45889	288.77672	6.08959	0.0696840	0.26957240	2.3732989	21	3 2.2	18.6
61195 Martinoli	15.6	X	289.38615	255.69284	352.67715	3.98688	0.2136676	0.26665086	2.3906026	21	1 13.5	19.3
61196 2000 OD_3	16.3	X	311.29845	71.59152	213.06577	2.31536	0.1962178	0.27430743	2.3459081	21	3 25.9	19.3
61197 2000 OG_3	12.9	X	199.27147	101.29176	315.55832	15.72286	0.2177134	0.17583560	3.1554757	21	5 23.5	18.6
61198 2000 ON_3	15.3	X	178.05334	96.82403	162.71709	5.92323	0.1464391	0.30033433	2.2083406	21	—	—
61199 2000 OA_4	15.7	X	3.17936	85.53624	173.69458	6.21600	0.1491280	0.27712228	2.3299955	21	6 2.7	17.7
61200 2000 OC_4	15.7	X	11.12110	95.11795	166.28247	7.30013	0.1995616	0.27903349	2.3193440	21	6 26.2	17.3

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61201 2000 OK_4	15.2	X	350.16962	72.76111	236.70946	5.40259	0.1454858	0.28032411	2.3122196	21	7 25.8	17.1
61202 2000 OM_4	15.1	X	181.83070	139.45533	197.49443	5.72536	0.1310631	0.26091080	2.4255376	21	1 23.9	18.9
61203 2000 OY_4	15.1	X	173.41467	77.24630	217.90704	5.69013	0.0953033	0.25512642	2.4620626	21	—	—
61204 2000 OP_5	15.4	X	286.44611	67.35810	199.12925	5.05057	0.1922690	0.26753371	2.3853405	21	2 1.7	19.1
61205 2000 OL_6	15.2	X	285.94180	61.77092	255.49043	7.87925	0.1022656	0.27430170	2.3459408	21	4 18.9	18.3
61206 2000 OS_6	15.2	X	99.62884	327.32071	258.42430	4.58982	0.0703461	0.28589661	2.2820757	21	9 12.9	18.3
61207 2000 OZ_7	14.3	X	312.29220	39.86019	302.16289	11.36890	0.3110588	0.22959888	2.6413313	21	6 1.3	17.5
61208 Stonařov	15.6	X	345.03203	268.10051	88.52128	5.44036	0.1894970	0.28465763	2.2886928	21	10 11.8	17.2
61209 2000 OM_9	15.8	X	310.38713	199.31926	103.49397	6.11619	0.1547297	0.27579951	2.3374396	21	4 29.9	18.5
61210 2000 OU_9	15.9	X	99.13223	198.67356	114.78197	6.61985	0.2362309	0.29783084	2.2206985	21	—	—
61211 2000 OH_{10}	15.1	X	349.92809	83.56881	120.94271	6.58559	0.1817223	0.27175115	2.3605967	21	2 4.2	17.6
61212 2000 OJ_{10}	15.4	X	53.89815	247.07949	125.59093	5.72659	0.1950019	0.29664466	2.2266145	21	—	—
61213 2000 OK_{10}	16.1	X	148.52805	66.68591	271.00067	3.04831	0.2143505	0.30516805	2.1849593	21	—	—
61214 2000 OQ_{10}	15.4	X	215.52177	125.37038	185.33511	1.00710	0.1751462	0.26469223	2.4023812	21	1 25.6	19.4
61215 2000 OX_{10}	15.6	X	288.19434	68.04498	234.76387	2.66032	0.1862409	0.27371069	2.3493166	21	3 22.5	18.9
61216 2000 OA_{11}	16.1	X	159.66029	180.32309	130.29152	7.78224	0.2340323	0.30421229	2.1895332	21	—	—
61217 2000 OF_{11}	15.7	X	339.79140	9.01050	263.69364	3.52765	0.1829423	0.27761216	2.3272537	21	4 26.9	17.6
61218 2000 OH_{11}	15.1	X	136.96880	40.21754	282.70752	6.10942	0.2041374	0.25540895	2.4602466	21	—	—
61219 2000 ON_{12}	16.6	X	117.99418	174.26443	132.02108	5.22787	0.2099958	0.29829945	2.2183722	21	—	—
61220 2000 OO_{12}	16.8	X	355.88970	151.99009	163.50901	2.02501	0.2329977	0.28301060	2.2975638	21	8 26.2	17.7
61221 2000 OZ_{12}	15.7	X	149.42007	157.56071	120.47745	2.92065	0.1649527	0.25269045	2.4778604	21	—	—
61222 2000 OC_{13}	15.4	X	198.94502	312.43553	303.56412	5.99213	0.0666886	0.25602078	2.4563255	21	—	—
61223 2000 OL_{13}	15.9	X	248.66019	95.10598	262.36891	2.68248	0.1055031	0.27402512	2.3475191	21	4 29.0	19.1
61224 2000 OO_{13}	14.9	X	182.05376	110.63463	283.19256	5.73686	0.0515159	0.27047755	2.3680011	21	3 30.3	18.2
61225 2000 OP_{13}	15.0	X	303.82806	78.03696	280.87506	4.38175	0.1851772	0.23337769	2.6127418	21	7 4.9	18.1
61226 2000 OR_{13}	13.4	X	150.96851	152.38922	296.45285	21.25303	0.0327119	0.22689715	2.6622573	21	5 3.6	17.6
61227 2000 OS_{13}	16.0	X	346.76931	98.58727	143.86057	4.19818	0.1514482	0.27473661	2.3434644	21	4 1.6	18.2
61228 2000 OX_{13}	15.3	X	79.66023	247.76673	303.91528	5.83534	0.1259092	0.28005141	2.3137204	21	7 9.7	17.9
61229 2000 OA_{14}	16.1	X	310.17364	325.80456	319.28863	2.17877	0.2137568	0.27451884	2.3447036	21	3 21.9	19.0
61230 2000 OG_{14}	15.8	X	73.55578	191.97296	135.81784	6.68000	0.1364438	0.29452698	2.2372748	21	—	—
61231 2000 OA_{15}	15.8	X	283.91100	148.21664	143.91032	7.57994	0.1162389	0.27120119	2.3637869	21	3 15.7	19.0
61232 2000 OB_{15}	16.1	X	5.15266	116.60443	156.98881	3.46755	0.1297031	0.27989009	2.3146094	21	6 30.4	18.0
61233 2000 ON_{15}	15.1	X	52.13966	240.91922	120.30263	3.12247	0.1470304	0.24758787	2.5117890	21	—	—
61234 2000 OR_{15}	15.4	X	94.11311	328.28036	276.29749	1.86750	0.1651110	0.28868305	2.2673672	21	10 14.8	18.5
61235 2000 OT_{15}	14.6	X	157.46337	240.86846	146.18950	7.55682	0.1370941	0.26442407	2.4040052	21	3 5.4	18.1
61236 2000 ON_{16}	14.8	X	164.54412	351.73983	11.53294	2.43954	0.2231600	0.26119619	2.4237705	21	2 18.2	18.6
61237 2000 OP_{16}	15.8	X	209.95180	134.19520	143.33841	1.88224	0.1736139	0.25993021	2.4316340	21	—	—
61238 2000 OF_{17}	15.7	X	37.28285	190.93385	117.27692	8.85537	0.1297463	0.28693921	2.2765444	21	10 30.6	18.4
61239 2000 OP_{17}	15.9	X	54.00247	179.41130	108.44872	1.24149	0.1031840	0.28707280	2.2758380	21	10 17.7	18.5
61240 2000 OT_{17}	15.3	X	116.06140	286.12395	109.61616	3.43885	0.1940126	0.25865089	2.4396455	21	2 4.5	18.4
61241 2000 OW_{17}	15.1	X	1.33037	327.76942	334.24285	4.96028	0.1549083	0.28155102	2.3054975	21	8 11.8	16.8
61242 2000 OX_{17}	15.1	X	75.44040	220.49062	116.45963	3.84418	0.1692460	0.24763680	2.5114580	21	—	—
61243 2000 OJ_{18}	14.4	X	164.49521	63.81525	316.28695	4.45599	0.0868393	0.21711459	2.7416376	21	3 3.7	18.5
61244 2000 OM_{19}	15.3	X	130.08265	191.20412	161.58430	6.41937	0.1386353	0.25752615	2.4467438	21	—	—
61245 2000 ON_{22}	15.7	X	350.92808	161.53242	174.88419	4.03183	0.2693327	0.28009895	2.3134586	21	9 23.9	16.3
61246 2000 OX_{22}	15.6	X	3.16043	293.12152	349.57322	3.59370	0.1558006	0.28180228	2.3041268	21	7 13.3	17.4
61247 2000 OF_{23}	14.5	X	357.36006	221.03126	99.79350	11.77777	0.1679964	0.23708767	2.5854138	21	9 3.6	17.2
61248 2000 OH_{23}	15.1	X	71.10387	327.21713	343.80708	5.12412	0.1670631	0.24611915	2.5217718	21	12 9.1	18.9
61249 2000 OO_{23}	15.0	X	133.53322	225.57261	79.57589	1.29345	0.1339248	0.30084181	2.2058565	21	—	—
61250 2000 OV_{23}	14.9	X	296.76965	247.32769	110.24233	14.96280	0.1286096	0.23298037	2.6157115	21	7 1.5	18.2
61251 2000 OE_{24}	15.4	X	288.87649	227.58084	118.40319	8.59805	0.2180436	0.27726221	2.3292115	21	5 20.5	18.5
61252 2000 OK_{24}	15.0	X	59.90889	316.28076	19.95337	4.06832	0.1418405	0.24672163	2.5176648	21	12 26.1	18.5
61253 2000 OM_{24}	14.6	X	10.09894	342.88314	317.67805	6.51846	0.1331860	0.28352965	2.2947589	21	8 25.2	16.4
61254 2000 OC_{25}	15.2	X	203.26639	276.06999	104.48558	7.59813	0.1297582	0.27033121	2.3688556	21	4 14.6	18.9
61255 2000 OJ_{25}	15.6	X	320.47267	240.35509	93.07500	6.23689	0.1593793	0.28004342	2.3137644	21	6 30.7	17.6
61256 2000 OT_{25}	15.9	X	355.58248	275.01193	62.65347	4.48921	0.2909303	0.28407664	2.2918123	21	10 18.7	16.8
61257 2000 OY_{25}	16.3	X	243.49022	217.81980	105.35598	2.36837	0.2024559	0.26906762	2.3762662	21	3 5.8	20.2
61258 2000 OD_{26}	16.0	X	18.24568	235.84057	71.49515	1.17632	0.2256307	0.28518124	2.2858904	21	10 9.2	17.8
61259 2000 OG_{26}	14.8	X	297.34716	286.83500	100.85628	3.66893	0.1898875	0.23525033	2.5988580	21	8 5.1	17.6
61260 2000 OF_{27}	16.2	X	297.32052	134.88570	167.90551	2.18263	0.2102389	0.27348872	2.3505876	21	3 31.6	19.2
61261 2000 OO_{27}	15.6	X	101.82963	203.04329	76.11887	4.43807	0.1754659	0.29313281	2.2443630	21	12 7.9	19.0
61262 2000 OJ_{28}	15.7	X	322.84465	114.38134	222.33347	4.40165	0.1906278	0.28075553	2.3098503	21	7 5.3	17.5
61263 2000 OR_{28}	15.0	X	41.23562	105.58086	196.00423	6.90598	0.1886058	0.24068090	2.5596169	21	10 25.4	18.0
61264 2000 OH_{29}	14.5	X	235.26625	223.05947	158.90253	15.28450	0.1935276	0.22648241	2.6655064	21	5 17.2	19.1
61265 2000 ON_{29}	15.8	X	229.01102	194.21630	190.35077	6.22189	0.0960994	0.27418743	2.3465926	21	5 15.9	19.2
61266 2000 OY_{29}	14.2	X	296.49542	84.36493	279.27923	12.27371	0.1829711	0.23222944	2.6213471	21	6 30.4	17.3
61267 2000 OC_{30}	15.4	X	236.99701	156.78985	224.19493	5.64739	0.1113803	0.27434502	2.3456938	21	5 18.1	18.5
61268 2000 OG_{30}	14.3	X	330.78340	298.71455	283.23780	12.71274	0.1495778	0.17495737	3.1660266	21	2 17.9	18.6
61269 2000 OK_{30}	15.2	X	109.86088	149.17415	220.40341	4.26677	0.1963334	0.25513991	2.4619758	21	—	—
61270 2000 OC_{31}	16.2	X	20.07656	83.21429	198.17597	6.76042	0.1038914	0.28192005	2.3034851	21	8 8.9	18.5
61271 2000 OE_{31}	15.3	X	91.03168	54.87715	204.02367	6.19708	0.1600830	0.28939630	2.2636402	21	10 31.4	18.5
61272 2000 OR_{31}	15.6	X	185.58600	148.24263	221.33996	5.33429	0.1284409	0.26558641	2.3969859	21	3 8.2	19.2
61273 2000 OL_{32}	16.0	X	355.07175	155.23237	170.64421	6.39047	0.1493632	0.28278368	2.2987928	21	9 5.6	17.6
61274 2000 OE_{33}	16.5	X	168.69591	69.59363	228.09098	4.38491	0.1321856	0.30379741	2.1915262	21	—	—
61275 2000 OE_{34}	15.4	X	296.81880	161.99809	199.61374	5.07830	0.1746730	0.23175085	2.6249548	21	6 28.9	18.6
61276 2000 OH_{34}	15.5	X	173.34221	139.57201	202.25666	5.31070	0.1285663	0.26082875	2.4260463	21	1 21.3	19.1
61277 2000 OS_{34}	15.4	X	299.72960	226.86730	194.28380	5.43596	0.1145203	0.23923164	2.5699439	21	10 8.0	18.2
61278 2000 OU_{34}	15.3	X	334.17003	63.64755	160.49924	11.55700	0.1571647	0.26928706	2.3749751	21	2 9.6	18.1
61279 2000 OF_{35}	16.0	X	124.53145	127.69862	235.79910	2.50901	0.1018083	0.30365163	2.1922276	21	—	—
61280 2000 OH_{35}	15.2	X	89.36401	149.43556	275.99396	4.29505	0.1120533	0.30593255	2.1813177	21	1 9.2	17.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61281 2000 OK_{35}	16.4	X	47.97883	161.12183	169.97144	5.67547	0.1753200	0.28982013	2.2614328	21	12 18.7	19.4
61282 2000 OE_{36}	15.3	X	292.69496	163.67457	218.49295	5.98653	0.1134428	0.28073604	2.3099572	21	8 1.2	18.0
61283 2000 OX_{37}	14.6	X	201.00593	137.20354	203.59052	8.91207	0.1958296	0.21717022	2.7411694	21	2 21.8	19.4
61284 2000 OF_{39}	15.2	X	329.47448	149.73031	175.69406	15.16472	0.1463980	0.23208492	2.6224352	21	7 6.5	18.4
61285 2000 OL_{39}	14.8	X	180.75758	178.24780	210.88918	9.03006	0.1602048	0.21885498	2.7270834	21	4 3.8	19.3
61286 2000 OL_{41}	16.0	X	29.13943	63.86535	211.26937	7.35462	0.1091311	0.28200857	2.3030031	21	8 15.9	18.4
61287 2000 OR_{41}	14.6	X	22.92653	94.23757	227.16166	10.35874	0.0474259	0.23816308	2.5776251	21	9 29.9	18.0
61288 2000 OE_{42}	15.0	X	203.28748	85.20247	204.32475	5.26021	0.0760862	0.25804319	2.4434743	21	—	—
61289 2000 OU_{42}	16.2	X	182.48817	117.07500	232.63739	3.49399	0.1535238	0.30893869	2.1671444	21	2 4.1	19.4
61290 2000 OX_{42}	14.0	X	72.86108	152.06121	288.03053	8.24859	0.1372072	0.21002261	2.8030146	21	1 30.7	17.3
61291 2000 OA_{43}	15.0	X	247.02378	322.72071	307.19742	8.68428	0.2159832	0.26278274	2.4140050	21	1 3.7	19.1
61292 2000 OL_{43}	14.8	X	133.72512	56.94766	258.69800	5.47793	0.1457755	0.25177897	2.4838369	21	—	—
61293 2000 OZ_{43}	15.2	X	218.52810	351.13170	305.58024	10.81949	0.1554248	0.26070745	2.4267987	21	1 12.7	19.1
61294 2000 OK_{44}	15.6	X	263.15735	25.00549	296.62367	6.01347	0.1335187	0.26895171	2.3769489	21	3 23.8	19.2
61295 2000 OX_{44}	14.9	X	233.94654	146.77019	175.37369	14.48905	0.2088430	0.26509252	2.3999622	21	2 22.1	19.0
61296 2000 ON_{45}	15.9	X	72.03212	79.45019	241.04440	7.22664	0.1773343	0.29165353	2.2519456	21	12 30.7	19.3
61297 2000 OD_{46}	16.1	X	47.03133	33.28449	273.03800	8.65947	0.2008934	0.28753005	2.2734246	21	11 16.1	19.0
61298 2000 OG_{46}	14.9	X	357.36418	176.55212	165.49748	9.84562	0.1913859	0.23557325	2.5964825	21	10 5.0	17.2
61299 2000 OQ_{46}	15.1	X	14.23173	32.80081	286.69001	1.75842	0.2122168	0.28302870	2.2974658	21	10 15.7	16.9
61300 2000 OJ_{47}	15.2	X	192.74641	221.48705	135.75656	2.50746	0.2235257	0.26211866	2.4180805	21	3 5.9	19.3
61301 2000 ON_{47}	14.7	X	29.24837	213.56736	167.32528	13.89045	0.1737637	0.24256449	2.5463488	21	—	—
61302 2000 OS_{47}	15.4	X	338.21647	245.15533	156.40527	8.40367	0.2192043	0.28480984	2.2878773	21	12 11.3	17.1
61303 2000 OY_{47}	15.3	X	214.43413	204.49877	127.59566	4.24718	0.2283469	0.26260395	2.4151005	21	2 20.9	19.4
61304 2000 OJ_{48}	15.6	X	228.80761	207.93151	147.88237	2.83966	0.2060209	0.26592984	2.3949218	21	4 2.7	19.5
61305 2000 OV_{48}	15.4	X	259.85570	312.23336	35.22075	4.18938	0.2533153	0.22287744	2.6941719	21	4 18.4	19.7
61306 2000 OF_{49}	15.6	X	6.44021	284.43979	36.88191	5.96366	0.2615619	0.28196779	2.3032251	21	10 12.7	17.1
61307 2000 OJ_{49}	14.6	X	334.42176	347.69446	3.97816	15.07898	0.1344548	0.23226188	2.6211030	21	9 2.3	17.4
61308 2000 ON_{49}	15.4	X	182.75891	270.42189	95.29588	5.87897	0.2316585	0.26097873	2.4251167	21	3 10.8	19.5
61309 2000 OF_{50}	14.7	X	196.59444	306.18972	14.47963	14.69195	0.2222573	0.25857040	2.4401518	21	1 29.5	19.1
61310 2000 OQ_{50}	15.4	X	19.51205	280.68055	35.76862	3.84742	0.2074771	0.28233459	2.3012298	21	10 21.7	17.5
61311 2000 OR_{50}	15.6	X	218.92038	262.10201	82.66892	3.34875	0.2309755	0.26456282	2.4031646	21	3 12.4	19.7
61312 2000 OS_{50}	14.6	X	255.79317	186.05890	101.79571	3.64951	0.1946206	0.26358862	2.4090821	21	2 2.0	18.5
61313 2000 OF_{51}	14.6	X	278.52673	114.65037	240.58038	11.69320	0.1427396	0.22734036	2.6587960	21	5 31.3	18.2
61314 2000 OH_{51}	14.8	X	228.49051	11.83035	275.80784	12.05505	0.2249489	0.26194313	2.4191606	21	1 8.7	18.9
61315 2000 OM_{51}	15.5	X	225.98882	37.16467	277.80628	11.78322	0.1926889	0.26350135	2.4096141	21	2 5.3	19.6
61316 2000 ON_{51}	14.6	X	288.14775	42.21802	250.76337	10.70714	0.2027145	0.26980403	2.3719403	21	3 3.6	18.3
61317 2000 OO_{51}	14.4	X	238.22134	39.82304	291.23396	14.58548	0.1753779	0.21894651	2.7263234	21	3 8.6	19.1
61318 2000 OV_{51}	14.7	X	136.50616	125.09835	248.73467	10.58459	0.2628170	0.25693911	2.4504692	21	2 4.6	18.6
61319 2000 OW_{51}	14.4	X	99.30008	343.61185	321.66885	12.65472	0.1767185	0.24428486	2.5343797	21	12 31.9	18.6
61320 2000 OZ_{51}	15.0	X	0.41837	191.87907	130.71135	2.47523	0.2342161	0.27965930	2.3158826	21	9 23.5	16.2
61321 2000 OO_{54}	16.1	X	5.02538	183.41986	132.52412	6.02067	0.1884502	0.28412530	2.2915505	21	9 19.5	17.7
61322 2000 OT_{54}	16.4	X	323.94952	305.17351	281.52378	0.57724	0.1365864	0.26926004	2.3751340	21	2 2.8	19.3
61323 2000 OZ_{54}	16.0	X	180.56378	354.40860	294.26234	1.03365	0.1517099	0.25728500	2.4482724	21	—	—
61324 2000 OO_{56}	16.0	X	352.30171	197.68645	61.69505	2.92063	0.1965719	0.27666781	2.3325464	21	5 2.9	17.7
61325 2000 OV_{56}	14.6	X	22.86287	6.42811	333.60073	9.97201	0.0946462	0.19419675	2.9533035	21	10 22.1	18.6
61326 2000 OP_{57}	16.2	X	92.23833	177.21733	95.09920	2.43653	0.0935279	0.29030214	2.2589289	21	11 13.2	19.0
61327 2000 OR_{57}	15.4	X	220.50877	336.93181	8.09696	2.21394	0.0893654	0.22073710	2.7115597	21	3 20.1	19.4
61328 2000 OD_{58}	14.3	X	206.22926	34.90165	327.60776	7.67996	0.0701240	0.17402342	3.1773440	21	3 28.7	19.1
61329 2000 OG_{58}	14.7	X	324.89088	59.80829	335.33732	8.98553	0.0940055	0.19235652	2.9721092	21	10 4.6	18.4
61330 2000 OT_{58}	15.7	X	158.20232	198.85171	122.53019	3.35325	0.2027330	0.25660501	2.4525957	21	—	—
61331 2000 OH_{59}	15.9	X	256.36710	228.36775	147.11257	4.32982	0.1893912	0.27483301	2.3429164	21	5 25.1	19.4
61332 2000 OL_{59}	16.2	X	343.37036	116.04055	197.27001	0.19649	0.2332979	0.28027465	2.3124917	21	7 11.4	17.4
61333 2000 OP_{59}	15.3	X	357.50658	169.55287	136.36161	3.81413	0.1063331	0.23375841	2.6099042	21	8 3.9	18.2
61334 2000 OS_{59}	15.7	X	324.99964	182.55858	181.67330	3.42275	0.1754796	0.28221822	2.3018624	21	8 29.4	17.4
61335 2000 OT_{59}	15.1	X	297.15009	233.62511	145.37323	15.27009	0.0834683	0.23383713	2.6093183	21	8 7.9	18.3
61336 2000 OT_{67}	15.5	X	210.37663	325.71657	315.44401	7.05519	0.0811801	0.26057414	2.4276263	21	—	—
61337 2000 OE_{68}	15.5	X	51.25172	208.64023	94.76259	4.96195	0.1466584	0.24182077	2.5515670	21	11 5.2	18.8
61338 2000 PK	14.3	X	180.74959	277.54952	167.35090	11.12882	0.0704050	0.17741260	3.1367488	21	6 14.1	19.3
61339 2000 PA_{1}	14.5	X	309.50718	205.62729	103.19958	7.02673	0.1563656	0.18226299	3.0808489	21	5 14.5	18.6
61340 2000 PY_{2}	14.9	X	181.76965	156.15623	212.18654	5.13659	0.1476736	0.21767597	2.7369218	21	3 9.7	19.3
61341 2000 PC_{3}	15.8	X	335.98939	298.67138	337.96852	5.97332	0.1166936	0.27566065	2.3382244	21	5 4.6	18.4
61342 Lovejoy	15.8	X	249.67519	229.01992	90.78975	3.16861	0.2100771	0.26887426	2.3774053	21	3 7.2	19.6
61343 2000 PC_{5}	15.5	X	87.93207	205.03851	116.41984	9.11745	0.2681446	0.29262542	2.2469566	21	—	—
61344 2000 PT_{5}	16.3	X	121.71004	173.89096	116.92798	4.70564	0.1197397	0.29673604	2.2261573	21	—	—
61345 2000 PU_{5}	15.6	X	224.76641	132.42511	178.95076	2.27313	0.1979716	0.26474969	2.4020336	21	2 2.9	19.6
61346 2000 PD_{8}	15.3	X	354.73958	359.27035	14.29139	5.53183	0.2854311	0.23656774	2.5892006	21	11 25.9	17.3
61347 2000 PE_{8}	14.7	X	295.12982	267.77057	93.31292	8.05854	0.2372687	0.22778658	2.6553226	21	6 15.9	17.9
61348 2000 PF_{8}	14.0	X	344.11320	174.05703	214.78664	14.65437	0.1297106	0.23715866	2.5848979	21	11 11.1	16.7
61349 2000 PD_{9}	14.6	X	274.18140	285.47625	56.60575	14.38768	0.2202182	0.22715308	2.6602572	21	4 30.9	18.6
61350 2000 PL_{9}	14.5	X	55.82487	276.70617	67.10342	15.81160	0.1358125	0.24597246	2.5227742	21	12 29.3	18.1
61351 2000 PS_{9}	15.7	X	182.01818	200.37737	143.83109	1.74373	0.1982873	0.26074941	2.4265383	21	2 7.8	19.5
61352 2000 PY_{9}	14.5	X	297.24207	293.09681	77.44188	7.31214	0.3040559	0.23038151	2.6353460	21	6 20.6	17.8
61353 2000 PE_{10}	15.3	X	118.85209	260.82152	104.90491	7.87778	0.1768926	0.25415114	2.4683572	21	—	—
61354 2000 PY_{10}	15.0	X	70.16495	244.50005	115.39377	12.74876	0.1688896	0.24699474	2.5158085	21	—	—
61355 2000 PD_{11}	14.1	X	283.53999	322.23721	86.11398	11.69582	0.1291124	0.18472680	3.0533935	21	8 23.1	18.4
61356 2000 PG_{11}	15.2	X	358.93094	241.88305	32.35325	13.42768	0.1458242	0.22912610	2.6449634	21	6 17.6	18.1
61357 2000 PZ_{11}	14.8	X	116.79945	168.27294	128.10835	18.06874	0.1825336	0.24669713	2.5178314	21	—	—
61358 2000 PK_{12}	14.9	X	38.93839	236.27560	132.74110	14.75288	0.1868280	0.24371826	2.5383062	21	—	—
61359 2000 PW_{13}	15.0	X	343.33668	160.70310	195.69456	2.14256	0.0558025	0.23946115	2.5683015	21	9 21.6	18.1
61360 2000 PB_{14}	15.1	X	124.05558	125.29162	284.06711	4.64072	0.0564830	0.21751971	2.7382324	21	2 17.3	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61361 2000 PB_{18}	15.4	X	350.18721	259.86892	112.22025	4.87063	0.2267248	0.23926243	2.5697234	21	11 8.8	17.5
61362 2000 PO_{19}	15.2	X	142.93068	287.96676	53.27744	5.59792	0.0925042	0.25622926	2.4549929	21	—	—
61363 2000 PT_{19}	15.8	X	44.61658	318.55366	9.25860	7.27061	0.1539749	0.28928268	2.2642329	21	12 5.5	18.7
61364 2000 PH_{20}	14.9	X	120.20977	161.64047	105.57198	6.68730	0.1511991	0.29283825	2.2458678	21	12 9.7	18.3
61365 2000 PW_{20}	15.2	X	314.66225	152.53848	143.15052	2.92382	0.2143976	0.27221107	2.3579370	21	4 14.7	17.9
61366 2000 PE_{21}	14.8	X	117.92465	254.59907	162.28052	4.85185	0.1060219	0.21589864	2.7519219	21	2 28.0	18.5
61367 2000 PG_{22}	14.9	X	326.40844	256.12142	86.27563	8.86404	0.1653152	0.23239430	2.6201072	21	7 27.0	17.5
61368 2000 PH_{22}	15.2	X	62.32565	245.30154	82.93582	7.77844	0.1810312	0.29105039	2.2550556	21	12 31.6	18.5
61369 2000 PO_{22}	14.3	X	214.98545	340.15265	356.84790	8.79992	0.1514868	0.21398398	2.7683131	21	3 5.3	18.8
61370 2000 PU_{22}	15.6	X	34.86417	295.04754	68.76414	3.23834	0.1723240	0.24572755	2.5244502	21	—	—
61371 2000 PO_{23}	15.3	X	228.42295	319.93744	329.37587	5.11051	0.0766019	0.26150179	2.4218818	21	1 12.9	18.8
61372 2000 PQ_{23}	16.0	X	285.25876	152.44979	155.22697	2.81581	0.2022394	0.27165391	2.3611599	21	3 25.7	19.4
61373 2000 PG_{24}	15.6	X	197.98821	188.15634	135.66623	6.60478	0.1493721	0.26045394	2.4283732	21	1 25.8	19.5
61374 2000 PA_{25}	15.3	X	13.44976	283.89252	339.50729	3.43183	0.2325236	0.27833796	2.3232062	21	7 10.7	16.5
61375 2000 PE_{25}	14.8	X	50.78801	278.24529	50.26374	4.65999	0.1971280	0.24050142	2.5608901	21	12 11.7	18.4
61376 2000 PC_{28}	15.1	X	207.96557	304.96418	65.67406	8.98379	0.1466432	0.26655230	2.3911919	21	4 7.0	18.9
61377 2000 PO_{28}	16.0	X	40.33336	57.35520	232.80467	6.07564	0.1342160	0.28477693	2.2880536	21	10 2.6	18.7
61378 2000 PU_{28}	15.5	X	177.98773	204.08688	112.74701	2.46536	0.1861853	0.26041355	2.4286243	21	1 1.3	19.2
61379 2000 PG_{29}	14.9	X	331.59071	279.11402	98.59714	8.50801	0.2096038	0.23663748	2.5886919	21	10 3.9	17.2
61380 2000 PH_{29}	15.6	X	148.44959	271.56915	92.93139	7.58343	0.1280605	0.25930215	2.4355589	21	1 25.5	19.0
61381 2000 PL_{29}	15.2	X	208.80913	286.35389	25.63678	6.26848	0.0384477	0.21453008	2.7636132	21	1 29.3	19.2
61382 2000 PR_{29}	15.2	X	51.90012	196.40821	75.62810	6.16722	0.1946326	0.28388872	2.2928235	21	10 9.5	17.9
61383 2000 QB	16.2	X	177.80818	340.58180	67.51398	2.33790	0.1752677	0.26750367	2.3855191	21	4 23.3	20.0
61384 Arturoromer	16.1	X	217.37720	150.55725	182.87599	2.23199	0.1948279	0.26383514	2.4075813	21	2 23.6	20.2
61385 2000 QG_{1}	15.4	X	36.69589	351.20706	355.80104	4.66119	0.2873189	0.24202128	2.5501576	21	—	—
61386 Namikoshi	15.6	X	252.60174	169.66545	159.83382	2.72511	0.2158519	0.26832745	2.3806341	21	3 20.3	19.3
61387 2000 QR_{2}	15.2	X	189.86598	219.90506	145.90415	6.76680	0.0913753	0.21780220	2.7358643	21	3 15.6	19.4
61388 2000 QA_{3}	15.4	X	330.51760	335.06927	0.02777	2.87238	0.1725751	0.23207754	2.6224908	21	7 22.8	18.0
61389 2000 QD_{3}	15.7	X	326.83088	136.82842	152.75741	7.03188	0.1109775	0.27400310	2.3476448	21	5 14.7	18.3
61390 2000 QR_{3}	15.8	X	14.23010	144.34474	107.43006	1.16697	0.1706430	0.27639505	2.3340807	21	6 15.7	17.2
61391 2000 QT_{3}	15.9	X	94.40813	316.71376	13.18070	2.28952	0.1590683	0.24777363	2.5105334	21	—	—
61392 2000 QC_{4}	16.1	X	316.47807	16.77707	300.16939	0.50872	0.1514917	0.27557989	2.3386812	21	5 29.1	18.3
61393 2000 QD_{4}	15.7	X	185.37686	120.68704	192.21006	1.42080	0.1748725	0.25795889	2.4440066	21	1 2.8	19.5
61394 2000 QY_{4}	16.0	X	347.54042	135.38906	171.41955	7.68088	0.1241042	0.27821234	2.3239055	21	7 16.6	18.1
61395 2000 QZ_{4}	16.1	X	202.36724	32.28205	237.91511	1.26558	0.1875073	0.25577591	2.4578929	21	—	—
61396 2000 QD_{5}	15.3	X	184.03101	350.91876	329.36060	3.40917	0.1948435	0.21084273	2.7957412	21	1 19.2	19.9
61397 2000 QF_{5}	15.1	X	183.64987	37.41078	314.74865	1.48352	0.2172759	0.26104446	2.4247096	21	2 19.6	19.1
61398 2000 QJ_{5}	15.3	X	29.08431	1.13925	315.10014	0.98780	0.1034158	0.23698230	2.5861802	21	10 11.9	18.4
61399 2000 QZ_{5}	15.9	X	4.62609	139.08183	151.14607	3.56431	0.0935725	0.27826509	2.3236117	21	7 25.4	17.9
61400 Voxandreae	15.1	X	173.64970	272.95948	214.47614	11.12103	0.1315494	0.23070745	2.6328632	21	7 26.8	19.4
61401 Schiff	15.2	X	348.53348	20.89354	350.78531	2.23755	0.1060535	0.23767537	2.5811501	21	10 22.7	18.1
61402 Franciseveritt	16.3	X	84.06080	337.34476	336.07902	1.94311	0.1660566	0.24466252	2.5317710	21	12 25.3	20.1
61403 2000 QG_{9}	14.4	X	118.35774	267.50214	130.76777	9.34187	0.1592241	0.20875730	2.8143294	21	2 14.8	18.4
61404 Očenášek	14.7	X	252.20860	137.43000	202.42220	6.61257	0.2386340	0.21963131	2.7206534	21	4 3.3	19.3
61405 2000 QT_{9}	15.7	X	292.71964	148.68090	167.25995	2.21408	0.0418210	0.22269192	2.6956680	21	5 13.6	19.3
61406 2000 QZ_{9}	15.7	X	2.58058	38.49137	309.18704	2.21643	0.0742964	0.28749119	2.2736295	21	10 18.1	18.0
61407 2000 QK_{10}	15.7	X	7.18242	168.09451	154.70702	2.66207	0.1871556	0.23755395	2.5820296	21	9 25.2	17.9
61408 2000 QR_{11}	14.8	X	139.09684	254.17297	327.89996	11.29966	0.0257405	0.24206152	2.5498750	21	10 15.9	18.5
61409 2000 QW_{11}	15.3	X	270.14537	42.64352	301.23849	1.28984	0.1092248	0.22690108	2.6622266	21	5 9.9	19.0
61410 2000 QX_{11}	16.0	X	325.11975	89.31707	164.40576	0.91406	0.1451813	0.27187462	2.3598819	21	3 12.1	18.6
61411 2000 QC_{12}	15.5	X	54.67694	279.58889	316.38109	4.83839	0.0874002	0.28042034	2.3116906	21	7 30.6	18.0
61412 2000 QF_{12}	14.7	X	204.22808	265.52392	135.77178	2.45168	0.2514205	0.17581752	3.1556921	21	5 11.9	20.2
61413 2000 QG_{12}	16.1	X	326.83653	193.08982	134.63615	2.30802	0.1637276	0.27948941	2.3168210	21	7 3.8	18.1
61414 2000 QH_{12}	15.3	X	196.55955	21.89781	352.35081	2.10668	0.2093541	0.26645602	2.3917679	21	3 28.2	19.1
61415 2000 QK_{12}	15.8	X	29.19062	190.51348	136.83161	4.44133	0.1542929	0.24048741	2.5609896	21	11 7.1	18.8
61416 2000 QL_{12}	16.1	X	122.62261	101.73983	130.42662	3.32182	0.2902087	0.29204839	2.2499153	21	11 3.0	20.0
61417 2000 QP_{13}	16.1	X	20.79528	86.36218	149.35429	9.84649	0.1671165	0.27688103	2.3313488	21	6 5.7	18.1
61418 2000 QR_{13}	14.6	X	218.31357	192.62289	154.22201	6.02982	0.1476558	0.17325776	3.1866981	21	3 24.1	19.8
61419 2000 QM_{14}	16.0	X	291.52385	267.84465	153.05556	2.92462	0.1769499	0.28481552	2.2878468	21	9 21.3	18.1
61420 2000 QN_{14}	15.3	X	299.48675	261.59082	139.01241	3.42514	0.1913105	0.23504822	2.6003476	21	8 27.3	18.0
61421 2000 QU_{14}	15.0	X	282.33551	20.54838	355.28398	1.43718	0.1473743	0.23101151	2.6305525	21	7 2.8	18.5
61422 2000 QN_{15}	15.0	X	20.61301	122.87500	291.98097	1.30364	0.0385824	0.20260023	2.8710633	21	—	—
61423 2000 QS_{15}	14.8	X	200.74785	243.12682	150.49199	1.72440	0.1887756	0.17478703	3.1680832	21	5 1.1	20.1
61424 2000 QX_{15}	16.6	X	30.30930	20.90416	354.74430	1.97410	0.1686539	0.29184964	2.2509366	21	—	—
61425 2000 QA_{16}	15.9	X	91.76590	247.64916	128.52084	3.46852	0.2202362	0.25205073	2.4820513	21	—	—
61426 2000 QP_{16}	15.5	X	306.62471	294.09323	135.32419	6.30483	0.1641652	0.28695479	2.2764620	21	11 10.7	17.4
61427 2000 QR_{16}	15.6	X	337.45009	265.74213	126.46019	4.19688	0.1947691	0.23884495	2.5727169	21	11 7.1	17.8
61428 2000 QA_{17}	16.5	X	19.58585	136.28871	177.11268	4.10162	0.1398739	0.28426328	2.2908090	21	10 6.3	18.5
61429 2000 QF_{17}	15.7	X	298.99809	185.36205	207.74164	2.65662	0.2039538	0.23345933	2.6121327	21	8 11.5	18.7
61430 2000 QJ_{17}	15.1	X	84.03507	250.53134	150.92380	7.53253	0.2120432	0.25352341	2.4724300	21	—	—
61431 2000 QY_{17}	14.5	X	197.10533	125.92980	122.82342	2.99760	0.0169114	0.20433990	2.8547446	21	—	—
61432 2000 QS_{18}	15.6	X	123.54013	48.70406	344.04323	3.86085	0.0800345	0.21192165	2.7862441	21	2 2.7	19.5
61433 2000 QY_{18}	15.9	X	288.62418	138.06514	122.28672	3.03145	0.1775518	0.26690184	2.3891037	21	1 30.6	19.3
61434 2000 QB_{19}	15.4	X	97.30034	131.50613	174.70809	1.26898	0.1189828	0.24601986	2.5224502	21	12 25.9	19.1
61435 2000 QC_{19}	15.1	X	340.20383	109.96739	159.89784	7.60171	0.0803301	0.22600844	2.6692317	21	5 16.3	18.4
61436 2000 QD_{19}	15.3	X	260.19417	175.97242	157.71304	7.24078	0.1369853	0.27021179	2.3695535	21	4 10.5	18.7
61437 2000 QQ_{19}	15.5	X	207.91251	169.39928	136.81864	3.06103	0.1221332	0.26051260	2.4280087	21	1 12.7	19.2
61438 2000 QE_{20}	14.0	X	257.84004	64.61831	341.63904	4.38560	0.1766182	0.18135990	3.0910679	21	7 8.9	18.6
61439 2000 QM_{22}	16.5	X	114.15221	172.96243	120.89538	4.84995	0.2141725	0.29531234	2.2333064	21	—	—
61440 2000 QE_{23}	14.7	X	41.76469	142.24123	184.05765	10.19847	0.1249943	0.19345118	2.9608867	21	11 10.9	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61441 2000 QW_{23}	15.2	X	177.56601	74.68963	359.73351	3.12905	0.0809098	0.22356204	2.6886690	21	5 25.3	19.3
61442 2000 QK_{24}	16.0	X	240.76201	221.23796	161.14444	6.48558	0.0774657	0.22468973	2.6796654	21	5 31.1	19.9
61443 2000 QW_{24}	15.8	X	8.06547	357.91415	286.64822	2.03836	0.2144950	0.27838959	2.3229189	21	8 1.1	17.2
61444 Katokimiko	15.4	X	89.53711	171.26855	140.29888	5.70834	0.2506382	0.24517223	2.5282608	21	—	—
61445 2000 QF_{25}	15.6	X	247.30128	40.23207	260.22565	1.69794	0.1912115	0.26421951	2.4052458	21	2 8.8	19.4
61446 2000 QH_{27}	15.2	X	90.50258	118.37658	152.51534	7.45218	0.1583285	0.24097008	2.5575687	21	11 10.7	19.1
61447 2000 QN_{27}	15.9	X	223.29417	148.53133	170.26761	3.95534	0.2096370	0.26362768	2.4088442	21	2 10.5	20.0
61448 2000 QR_{27}	15.9	X	344.25650	316.74601	346.88719	4.17778	0.1010928	0.27715036	2.3298381	21	7 8.1	18.1
61449 2000 QX_{27}	16.2	X	76.22597	216.30253	142.44847	2.84294	0.1221221	0.24776245	2.5106088	21	—	—
61450 2000 QC_{28}	15.0	X	96.18745	168.08943	163.40166	5.91465	0.2182893	0.20046575	2.8914072	21	—	—
61451 2000 QD_{29}	14.2	X	233.49520	325.37401	102.98512	2.52546	0.1909197	0.17951809	3.1121742	21	7 9.6	19.1
61452 2000 QH_{29}	15.9	X	10.80020	352.25965	8.97294	2.38912	0.1880532	0.23899793	2.5716190	21	11 26.6	18.6
61453 2000 QL_{29}	15.3	X	353.43002	299.08145	0.58099	4.48716	0.1547452	0.27803365	2.3249011	21	7 19.9	17.1
61454 2000 QE_{30}	14.7	X	80.46712	326.68089	10.35609	11.99340	0.1271719	0.24550483	2.5259768	21	—	—
61455 2000 QF_{30}	14.9	X	273.86242	182.62111	88.46293	3.55068	0.1474726	0.26379105	2.4078496	21	2 2.1	18.5
61456 2000 QH_{30}	14.3	X	39.89835	270.80091	50.04435	3.55700	0.1953328	0.23903401	2.5713602	21	11 18.0	17.5
61457 2000 QM_{30}	15.7	X	29.25507	190.99670	98.90168	4.62862	0.2004716	0.28163437	2.3050425	21	9 30.1	17.9
61458 2000 QT_{30}	15.6	X	165.86718	253.54397	145.21137	8.84332	0.1963645	0.26244579	2.4160707	21	4 4.4	19.5
61459 2000 QW_{30}	15.0	X	228.25748	129.48738	196.41438	7.28534	0.2382099	0.26561085	2.3968389	21	2 20.9	19.2
61460 2000 QX_{30}	16.0	X	357.87158	151.49345	127.01481	6.73823	0.1385369	0.27797783	2.3252123	21	6 22.8	18.0
61461 2000 QA_{31}	14.3	X	226.72130	301.31628	74.52299	7.26000	0.1139703	0.22372776	2.6873411	21	5 4.4	18.5
61462 2000 QH_{31}	14.7	X	352.96409	302.09494	39.38549	4.29843	0.1547474	0.18877466	3.0095871	21	9 14.9	17.9
61463 2000 QT_{31}	15.1	X	7.41860	324.97431	9.33301	8.17371	0.2055511	0.23733338	2.5836291	21	10 13.7	17.3
61464 2000 QC_{32}	15.2	X	304.08972	55.30154	105.18478	7.00511	0.0870961	0.25335282	2.4735397	21	—	—
61465 2000 QY_{32}	15.3	X	31.34960	331.12177	31.57087	9.78046	0.0205870	0.24324123	2.5416237	21	12 4.3	18.6
61466 2000 QZ_{32}	14.9	X	197.65934	221.62309	56.96361	9.22846	0.1107869	0.25547925	2.4597952	21	—	—
61467 2000 QD_{33}	14.4	X	209.89878	322.23194	108.25459	12.78801	0.1501281	0.17851917	3.1237730	21	6 23.3	19.5
61468 2000 QM_{33}	15.9	X	175.71397	270.48077	86.50872	7.42048	0.1345609	0.26186590	2.4196362	21	2 16.1	19.6
61469 2000 QJ_{35}	15.2	X	3.74985	9.85436	265.97245	3.11039	0.1495012	0.27717032	2.3297263	21	7 1.5	17.0
61470 2000 QK_{35}	14.8	X	6.40191	83.20083	283.46133	3.83178	0.1918477	0.23829500	2.5766737	21	11 26.8	17.4
61471 2000 QQ_{35}	15.8	X	322.35826	325.12663	317.08587	4.21596	0.2237095	0.27387355	2.3483851	21	4 1.7	18.5
61472 2000 QS_{35}	14.2	X	222.43249	261.59172	111.38035	2.48991	0.2072503	0.17385410	3.1794067	21	4 24.5	19.6
61473 2000 QT_{35}	14.6	X	342.82230	334.14986	205.19509	3.79144	0.0094536	0.21155529	2.7894599	21	1 26.7	18.3
61474 2000 QA_{36}	14.6	X	138.56093	301.88385	151.58602	13.31362	0.1419324	0.22306159	2.6926889	21	5 16.5	19.0
61475 2000 QH_{37}	14.8	X	299.86360	219.33699	179.05933	2.70288	0.2092121	0.18696043	3.0290254	21	8 16.7	18.4
61476 2000 QJ_{37}	15.2	X	228.82776	245.42945	164.53579	2.40430	0.0257621	0.22969000	2.6406327	21	6 26.3	18.7
61477 2000 QS_{37}	15.0	X	109.42082	281.36940	151.28250	7.69644	0.2150462	0.21406845	2.7675848	21	3 27.2	18.9
61478 2000 QC_{38}	15.8	X	123.47418	276.28270	327.58297	1.59989	0.1432793	0.29099303	2.2553520	21	11 11.6	19.3
61479 2000 QH_{39}	15.3	X	191.09478	89.30254	289.27125	1.77072	0.1125179	0.26666210	2.3905354	21	3 25.8	18.9
61480 2000 QY_{39}	14.4	X	8.17563	322.88336	328.33066	9.89740	0.0904119	0.18603220	3.0390929	21	7 31.5	18.2
61481 2000 QN_{40}	14.9	X	39.02260	162.29436	321.67643	3.41432	0.0203758	0.21425590	2.7659704	21	1 29.9	18.5
61482 2000 QU_{40}	15.6	X	321.36742	90.00407	174.30104	4.78426	0.0997293	0.27126490	2.3634168	21	3 29.6	18.1
61483 2000 QP_{41}	15.2	X	40.52201	314.67521	176.40638	2.75476	0.0081849	0.21532974	2.7567668	21	2 8.6	18.8
61484 2000 QY_{41}	14.8	X	337.69118	227.85386	150.52393	9.81256	0.1149507	0.19090121	2.9871951	21	10 9.1	18.4
61485 2000 QH_{42}	15.4	X	316.97859	210.18137	176.21981	1.68463	0.1553918	0.23581769	2.5946879	21	9 13.2	17.7
61486 2000 QQ_{42}	14.8	X	45.00673	163.97214	195.81470	1.50976	0.1062455	0.19789963	2.9163483	21	12 22.7	18.6
61487 2000 QB_{43}	15.7	X	38.81280	354.61354	254.94878	1.47762	0.0719220	0.23150173	2.6268376	21	7 20.5	18.8
61488 2000 QB_{45}	15.6	X	283.32676	309.59897	339.91766	7.34327	0.1135578	0.26896245	2.3768856	21	3 9.6	18.7
61489 2000 QN_{46}	15.4	X	135.37787	0.47815	323.58096	1.08925	0.0763832	0.20560278	2.8430428	21	—	—
61490 2000 QH_{47}	14.7	X	124.33074	64.24071	352.37478	4.85611	0.0052923	0.21606053	2.7505471	21	2 22.3	18.4
61491 2000 QJ_{47}	15.5	X	53.05550	288.45194	347.36739	5.39284	0.0940760	0.23659756	2.5889830	21	9 20.3	18.8
61492 2000 QL_{48}	15.2	X	234.21422	132.02583	189.83871	0.92464	0.1852179	0.26586278	2.3953245	21	2 23.9	19.2
61493 2000 QO_{48}	15.4	X	10.76794	195.97065	155.04087	8.37383	0.1859800	0.23916544	2.5704181	21	11 15.2	18.2
61494 2000 QG_{49}	15.3	X	312.63047	351.40973	343.74871	2.72947	0.1075355	0.22996571	2.6385216	21	6 27.9	18.3
61495 2000 QJ_{49}	16.2	X	344.82315	165.63151	108.20077	0.89579	0.1889929	0.27593633	2.3366668	21	5 10.8	18.0
61496 2000 QO_{49}	14.7	X	217.24213	299.73652	152.47615	10.47282	0.0867236	0.23123194	2.6288804	21	7 31.9	18.6
61497 2000 QH_{50}	15.2	X	91.81213	12.98058	2.70848	2.02948	0.0718725	0.20526933	2.8461209	21	—	—
61498 2000 QM_{50}	15.2	X	146.26288	91.05366	155.19148	15.21097	0.0564827	0.24437917	2.5337276	21	12 3.8	19.1
61499 2000 QD_{51}	15.0	X	40.41674	329.80213	19.20808	1.80879	0.0861851	0.19546954	2.9404693	21	11 29.9	19.0
61500 2000 QV_{51}	15.8	X	301.43233	14.00761	215.65324	2.11193	0.1219847	0.26443678	2.4039281	21	1 12.2	19.1
61501 2000 QB_{52}	15.9	X	345.29942	318.21109	257.17734	1.89291	0.1203774	0.26779296	2.3838007	21	2 21.2	18.5
61502 2000 QM_{53}	14.4	X	18.93280	354.15943	341.71008	10.93269	0.1521905	0.19191473	2.9766688	21	10 17.4	18.1
61503 2000 QN_{53}	15.9	X	243.43399	296.09888	353.66550	5.50313	0.1288114	0.26378407	2.4078920	21	1 27.9	19.5
61504 2000 QS_{53}	15.7	X	357.78128	302.90952	359.59777	4.08344	0.1903625	0.28051047	2.3111954	21	8 6.2	17.1
61505 2000 QX_{53}	15.7	X	13.05682	269.62548	35.44133	1.94223	0.1566821	0.28235326	2.3011284	21	9 12.9	17.7
61506 2000 QQ_{54}	15.1	X	171.90066	243.05046	88.15736	3.46137	0.2036734	0.25790316	2.4443587	21	1 15.3	19.0
61507 2000 QS_{54}	15.2	X	116.63894	215.31963	132.15197	7.50104	0.1444817	0.25170790	2.4843045	21	—	—
61508 2000 QZ_{54}	14.9	X	199.23302	188.13035	112.06081	4.60302	0.0712026	0.21107236	2.7937131	21	1 3.9	19.1
61509 2000 QC_{55}	14.8	X	95.87349	209.41491	345.89938	15.08365	0.0819000	0.23116504	2.6293876	21	8 2.8	18.6
61510 2000 QF_{55}	15.6	X	12.87332	329.68588	33.24710	3.78198	0.1944459	0.24045041	2.5612523	21	12 3.9	18.3
61511 2000 QG_{55}	14.5	X	81.44980	242.85058	350.45791	13.50205	0.0517061	0.23407541	2.6075473	21	8 28.9	17.9
61512 2000 QD_{57}	16.4	X	193.69459	198.82230	138.98678	7.27770	0.1288022	0.26202195	2.4186755	21	2 7.0	19.9
61513 2000 QP_{57}	14.8	X	88.62667	354.38265	21.25063	2.31014	0.0754208	0.20617213	2.8378063	21	—	—
61514 2000 QU_{57}	15.3	X	92.90359	295.39662	123.96685	5.62582	0.0913294	0.25910927	2.4367675	21	1 17.1	17.9
61515 2000 QY_{57}	15.5	X	20.37561	320.03964	81.45447	4.77263	0.1643598	0.24625115	2.5208705	21	—	—
61516 2000 QA_{58}	15.6	X	326.83507	37.93434	8.64256	7.20354	0.0903465	0.28829602	2.2693960	21	11 12.9	17.8
61517 2000 QC_{58}	15.3	X	248.05157	30.14350	12.94577	5.00789	0.0392677	0.23052882	2.6342232	21	7 11.7	18.9
61518 2000 QZ_{58}	14.7	X	327.57956	48.62049	39.32865	4.92142	0.0973650	0.19860575	2.9094317	21	12 21.3	18.3
61519 2000 QE_{59}	15.4	X	288.82345	228.11979	44.37369	4.66345	0.0434031	0.21961041	2.7208260	21	3 13.9	19.1
61520 2000 QH_{59}	15.1	X	128.89293	105.19070	124.40957	15.57981	0.0485771	0.24044896	2.5612627	21	10 27.0	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61521 2000 QJ_{59}	15.1	X	24.21872	235.20806	39.66343	6.99982	0.1249934	0.28070195	2.3101442	21	8 15.8	17.4
61522 2000 QL_{59}	15.0	X	251.92664	336.36051	48.15424	7.19624	0.1568332	0.22742233	2.6581571	21	6 4.9	19.1
61523 2000 QO_{60}	15.3	X	91.71046	316.93508	129.75760	5.65610	0.0911192	0.21381869	2.7697396	21	3 3.7	18.9
61524 2000 QR_{60}	15.5	X	319.07782	275.20727	5.47769	5.18961	0.1706519	0.27277556	2.3546828	21	4 5.3	18.3
61525 2000 QA_{61}	14.5	X	137.80229	336.10417	47.84882	8.08929	0.1584117	0.21181080	2.7872162	21	2 21.1	18.8
61526 2000 QL_{61}	14.7	X	32.06626	128.21536	14.96563	5.12192	0.0568818	0.21342395	2.7731537	21	2 16.2	18.1
61527 2000 QP_{61}	14.6	X	305.78518	229.94659	159.71475	7.99165	0.0981657	0.18541411	3.0458431	21	8 30.9	18.5
61528 2000 QU_{61}	15.6	X	183.19680	200.76865	134.93808	7.49686	0.1506392	0.25920836	2.4361464	21	1 26.7	19.1
61529 2000 QY_{61}	15.5	X	196.50209	202.44283	114.74832	3.74325	0.1835426	0.25972414	2.4329200	21	1 18.3	19.3
61530 2000 QJ_{62}	15.8	X	170.94723	243.34355	78.49018	5.55059	0.2075271	0.25687552	2.4508736	21	1 3.4	19.6
61531 2000 QR_{62}	14.9	X	51.93682	163.78400	16.45871	8.35172	0.0868720	0.22165033	2.7041065	21	5 4.2	18.3
61532 2000 QS_{62}	14.2	X	164.99344	309.66088	116.61725	5.82509	0.1564058	0.17166546	3.2063734	21	5 10.4	19.4
61533 2000 QC_{63}	14.3	X	141.93421	335.22288	43.16566	8.77801	0.2315428	0.21033846	2.8002077	21	2 26.5	18.9
61534 2000 QJ_{63}	15.2	X	177.57686	302.26711	80.25319	7.54405	0.0653224	0.21655890	2.7463256	21	3 24.9	19.3
61535 2000 QN_{63}	15.7	X	235.56314	263.71672	68.69775	5.87026	0.0721002	0.26577838	2.3958316	21	3 19.0	19.1
61536 2000 QR_{63}	15.0	X	179.37813	235.96265	114.75609	7.19864	0.1595984	0.26028689	2.4294121	21	2 12.4	18.8
61537 2000 QZ_{63}	15.5	X	164.75144	246.23452	67.17477	6.90335	0.1354439	0.25455470	2.4657477	21	—	—
61538 2000 QA_{64}	14.9	X	207.07417	239.38264	119.06896	9.99145	0.1208303	0.21739162	2.7393079	21	3 26.9	19.3
61539 2000 QB_{64}	15.5	X	169.46911	93.22263	96.54994	8.21529	0.0461715	0.28538958	2.2847778	21	10 26.2	18.6
61540 2000 QD_{64}	15.9	X	171.45371	247.22048	119.63215	9.47609	0.1697667	0.26074952	2.4265377	21	2 26.5	19.7
61541 2000 QF_{64}	13.6	X	231.52391	319.13044	132.04673	15.64329	0.2410412	0.18021298	3.1041688	21	7 31.3	18.7
61542 2000 QH_{64}	15.0	X	97.41396	177.16441	132.40053	13.85528	0.1485656	0.24545191	2.5263398	21	—	—
61543 2000 QM_{64}	14.6	X	146.55028	324.27265	122.13488	10.32452	0.1071385	0.21948911	2.7218284	21	5 12.9	18.8
61544 2000 QZ_{64}	15.6	X	258.44129	235.41927	85.23674	6.44744	0.2595710	0.26835380	2.3804782	21	3 14.4	19.6
61545 2000 QD_{65}	15.4	X	74.19627	260.77517	42.67842	8.67391	0.1838829	0.24199893	2.5503146	21	12 3.6	19.2
61546 2000 QT_{65}	14.7	X	298.38320	248.71540	87.73072	5.87332	0.2263422	0.27459994	2.3442419	21	5 17.2	17.4
61547 2000 QO_{66}	15.4	X	124.90287	210.91787	72.70480	5.31739	0.1069566	0.24738240	2.5131795	21	12 25.6	19.1
61548 2000 QW_{67}	14.4	X	95.60855	82.73854	132.14832	10.36796	0.0349213	0.18372681	3.0644628	21	8 15.3	18.6
61549 2000 QJ_{68}	14.2	X	131.45836	185.37858	356.12244	14.80897	0.0521414	0.23216587	2.6218256	21	8 24.9	18.0
61550 2000 QK_{70}	15.6	X	82.85208	98.91826	159.00979	22.90839	0.3044094	0.28676067	2.2774892	21	11 8.9	19.8
61551 2000 QJ_{71}	14.5	X	57.95500	94.45811	315.53757	7.58160	0.0409621	0.20601374	2.8392606	21	—	—
61552 2000 QT_{71}	15.5	X	245.80612	334.99055	274.24813	1.63801	0.1571317	0.25948312	2.4344264	21	—	—
61553 2000 QE_{72}	15.4	X	147.67507	182.84388	163.44868	6.17168	0.1456226	0.25654665	2.4529676	21	1 2.7	18.9
61554 2000 QH_{72}	16.3	X	73.06586	13.07750	284.79317	1.63673	0.1555828	0.28952856	2.2629508	21	11 30.7	19.5
61555 2000 QC_{73}	15.4	X	237.53101	153.93095	166.22822	3.76901	0.1496980	0.21853997	2.7297034	21	3 3.9	19.8
61556 2000 QY_{73}	15.5	X	53.55917	300.19196	306.60318	4.32463	0.0570275	0.23191742	2.6236977	21	8 6.0	18.6
61557 2000 QG_{74}	15.0	X	190.96185	44.88713	314.22684	4.36718	0.0775922	0.21628005	2.7486857	21	3 5.6	19.2
61558 2000 QM_{74}	15.3	X	218.75412	5.27620	295.39860	2.57242	0.0734432	0.21315122	2.7755187	21	1 24.4	19.5
61559 2000 QQ_{74}	17.0	X	315.97014	32.19550	291.67458	1.42994	0.2159494	0.27663314	2.3327413	21	5 26.9	19.1
61560 2000 QT_{74}	15.9	X	245.65806	162.98203	173.04847	2.49111	0.1855513	0.26838980	2.3802654	21	3 23.9	19.7
61561 2000 QY_{74}	15.4	X	193.90690	163.54295	166.76395	7.39768	0.1302377	0.26080984	2.4261635	21	1 28.0	19.1
61562 2000 QR_{75}	15.5	X	43.93142	167.07442	157.48523	7.73055	0.1674185	0.28799568	2.2709735	21	12 4.7	18.4
61563 2000 QU_{75}	14.9	X	95.38925	123.76603	266.26729	0.45835	0.1820425	0.20600119	2.8393760	21	1 9.1	18.3
61564 2000 QA_{76}	15.7	X	258.33011	49.40455	172.94090	8.45736	0.2136711	0.25758447	2.4463744	21	—	—
61565 2000 QB_{76}	15.2	X	70.92200	3.52411	308.02991	2.41658	0.0737248	0.24247983	2.5469415	21	11 27.7	18.7
61566 2000 QR_{76}	14.4	X	296.04913	67.25770	320.92266	2.29596	0.1720413	0.18452000	3.0556745	21	8 3.7	18.4
61567 2000 QW_{76}	14.5	X	186.24348	80.42419	337.25864	4.18829	0.1728223	0.17382733	3.1797331	21	5 15.8	19.9
61568 2000 QB_{77}	15.3	X	256.53535	155.86043	162.34278	3.15378	0.0996236	0.26753652	2.3853238	21	3 19.1	18.5
61569 2000 QL_{77}	16.1	X	260.97761	349.84191	307.18416	1.35919	0.1215652	0.26593347	2.3949000	21	2 22.2	19.6
61570 2000 QQ_{77}	15.0	X	348.45329	27.61886	194.65917	2.20022	0.0440126	0.21943792	2.7222516	21	3 26.3	18.6
61571 2000 QD_{78}	14.7	X	29.44985	65.97649	19.09250	1.97267	0.0381587	0.20554003	2.8436214	21	—	—
61572 2000 QA_{79}	15.1	X	207.65118	191.87248	142.16928	4.80999	0.0886103	0.21506784	2.7590044	21	2 22.3	19.3
61573 2000 QB_{79}	15.4	X	268.05881	255.46716	24.12256	2.46141	0.1837934	0.26546551	2.3977137	21	2 3.7	19.2
61574 2000 QE_{79}	15.2	X	71.77551	147.44358	334.58612	5.24154	0.1097159	0.26231233	2.4168902	21	3 13.1	17.8
61575 2000 QW_{79}	15.0	X	250.65324	220.85436	167.97129	8.08030	0.2010511	0.22577024	2.6711088	21	6 6.2	19.2
61576 2000 QG_{80}	14.1	X	238.46318	207.65446	188.94262	5.26195	0.1913200	0.17742128	3.1366465	21	6 5.9	19.1
61577 2000 QL_{81}	15.4	X	54.40188	145.52315	193.74768	1.48060	0.1321657	0.19614197	2.9337450	21	12 12.5	19.4
61578 2000 QU_{81}	15.2	X	160.38465	326.63027	0.50613	1.94381	0.1061633	0.20836984	2.8178172	21	—	—
61579 2000 QZ_{81}	15.2	X	46.50499	9.87237	306.68278	2.10207	0.1286017	0.23959139	2.5673707	21	11 10.5	18.6
61580 2000 QP_{82}	14.9	X	341.42518	264.43141	167.50064	11.15097	0.1104517	0.19633590	2.9318128	21	12 22.8	18.6
61581 2000 QR_{82}	16.2	X	327.28240	145.13565	153.45967	3.62180	0.1113998	0.27450742	2.3447686	21	5 27.7	18.5
61582 2000 QX_{82}	13.8	X	201.42255	232.08139	202.58342	5.13265	0.1415532	0.17666471	3.1455953	21	6 20.4	18.9
61583 2000 QH_{83}	15.7	X	327.33934	244.38574	156.80852	2.64425	0.1354274	0.28463599	2.2888088	21	11 9.0	17.6
61584 2000 QR_{83}	14.6	X	318.98083	137.41735	172.01855	12.53397	0.2438219	0.22771231	2.6558999	21	5 13.1	17.8
61585 2000 QB_{84}	15.9	X	35.09365	324.94609	12.11469	3.61170	0.1984374	0.23995795	2.5647554	21	12 2.9	19.0
61586 2000 QC_{84}	15.2	X	240.46298	161.64077	140.40840	2.73792	0.2162873	0.26382992	2.4076130	21	2 4.7	19.3
61587 2000 QJ_{84}	15.3	X	226.25269	356.71486	346.93100	3.66657	0.1039331	0.21767262	2.7369499	21	3 23.3	19.5
61588 2000 QD_{85}	15.8	X	305.46799	3.67482	218.42814	5.74478	0.0858320	0.26274655	2.4142266	21	1 11.7	19.1
61589 2000 QL_{85}	15.3	X	147.05441	238.89921	180.43117	6.08496	0.1932732	0.21686325	2.7437555	21	4 14.2	19.7
61590 2000 QR_{85}	14.8	X	119.98482	179.81304	280.57458	4.04650	0.0801213	0.22039247	2.7143857	21	4 21.5	18.6
61591 2000 QS_{86}	14.5	X	14.80481	164.39344	183.82614	11.11865	0.1190260	0.19221828	2.9735341	21	10 29.8	18.2
61592 2000 QT_{86}	16.0	X	57.72381	76.50723	216.74528	4.90754	0.1181182	0.28666941	2.2779725	21	10 31.9	18.8
61593 2000 QZ_{87}	15.4	X	237.59415	102.85358	239.96707	3.38075	0.1451344	0.22085886	2.7105630	21	3 30.2	19.6
61594 2000 QB_{88}	14.8	X	75.80321	120.12689	182.63026	5.85467	0.2628721	0.24389069	2.5371096	21	12 13.6	18.9
61595 2000 QT_{89}	14.0	X	220.24929	201.33413	205.62689	4.53845	0.1440493	0.17756470	3.1349573	21	6 4.7	19.1
61596 2000 QV_{89}	15.7	X	98.63178	78.49315	207.95288	4.45000	0.1569690	0.29135376	2.2534900	21	12 12.9	19.0
61597 2000 QW_{90}	16.3	X	315.80822	42.67445	246.88738	3.99717	0.1795234	0.27294385	2.3537148	21	4 10.6	19.0
61598 2000 QJ_{91}	15.2	X	95.28273	3.94004	301.83650	3.79531	0.1609027	0.24528314	2.5274986	21	12 26.5	19.1
61599 2000 QR_{91}	14.6	X	322.24054	61.66003	284.60234	2.67969	0.1321789	0.23132836	2.6281499	21	7 27.0	17.3
61600 2000 QS_{91}	15.5	X	21.86447	81.98293	188.98607	4.51471	0.1434619	0.27865610	2.3214376	21	8 1.3	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61601 2000 QW_{91}	15.5	X	223.93101	90.66124	273.91639	5.69494	0.0531992	0.22167205	2.7039298	21	4 16.5	19.4
61602 2000 QB_{92}	14.2	X	295.25638	162.70555	188.04482	10.25623	0.1079275	0.18104795	3.0946175	21	6 23.3	18.6
61603 2000 QL_{92}	14.9	X	176.97938	11.83536	330.12837	9.54863	0.2507294	0.21165888	2.7885497	21	2 10.3	19.7
61604 2000 QO_{92}	14.6	X	138.79385	195.94065	183.63937	9.38343	0.1633798	0.21024695	2.8010203	21	2 11.8	18.9
61605 2000 QQ_{92}	15.0	X	172.83447	39.00282	299.09061	3.35706	0.0747188	0.21046455	2.7990893	21	1 21.8	19.1
61606 2000 QR_{92}	15.2	X	75.40814	5.47693	269.20385	2.51606	0.1767646	0.23912975	2.5706738	21	10 29.1	18.9
61607 2000 QD_{93}	14.9	X	254.21366	191.16614	180.17880	13.37827	0.1934615	0.22452893	2.6809446	21	5 20.5	19.2
61608 2000 QQ_{93}	15.2	X	157.40905	115.28356	216.59478	3.08983	0.1089163	0.20944736	2.8081446	21	1 1.0	19.3
61609 2000 QQ_{94}	16.1	X	284.25736	170.42066	107.86238	3.49376	0.1583830	0.26843270	2.3800118	21	2 20.5	19.4
61610 2000 QK_{95}	12.3	X	233.62561	32.62019	354.43986	12.23916	0.0960159	0.08157168	5.2655425	21	5 28.9	19.7
61611 2000 QR_{96}	15.2	X	254.01504	260.84700	103.68135	2.86890	0.2195973	0.22423354	2.6832986	21	5 7.8	19.4
61612 2000 QC_{97}	15.1	X	195.59709	8.51846	21.82869	5.45110	0.1243547	0.21923462	2.7239342	21	4 19.2	19.3
61613 2000 QY_{97}	14.4	X	266.57574	273.36504	77.68049	3.50636	0.0902505	0.22432015	2.6826079	21	5 18.6	18.0
61614 2000 QC_{98}	14.0	X	273.21195	42.54891	12.10877	9.84700	0.1313163	0.18341859	3.0678950	21	8 16.7	18.3
61615 2000 QE_{98}	15.8	X	6.70811	163.42701	120.02047	3.38465	0.1319900	0.27756032	2.3275434	21	7 20.8	17.7
61616 2000 QH_{98}	14.3	X	217.61252	22.32452	24.96650	5.67118	0.1463942	0.17600291	3.1534757	21	6 1.2	19.4
61617 2000 QJ_{98}	15.4	X	228.81060	18.73089	25.59742	2.57802	0.2115051	0.27147073	2.3622220	21	6 1.6	19.2
61618 2000 QT_{98}	15.0	X	212.28474	187.53328	145.28716	8.01599	0.0925223	0.21481028	2.7612094	21	2 25.8	19.1
61619 2000 QA_{99}	14.4	X	292.90107	214.37802	151.78824	12.00226	0.1828493	0.18166022	3.0876601	21	6 29.1	18.7
61620 2000 QW_{100}	15.3	X	173.50441	357.29123	47.91180	6.24578	0.0438225	0.21805832	2.7337216	21	4 13.9	19.2
61621 2000 QY_{100}	15.7	X	107.17882	195.98443	107.41716	5.47131	0.1233948	0.24524287	2.5277752	21	—	—
61622 2000 QD_{101}	14.1	X	338.55729	266.59423	139.84353	12.00657	0.0955041	0.19173550	2.9785235	21	11 17.5	18.0
61623 2000 QP_{101}	15.6	X	141.00773	263.90527	88.99497	4.65588	0.1996630	0.25484152	2.4638973	21	1 11.5	19.0
61624 2000 QQ_{101}	14.8	X	294.52098	331.11309	76.72258	5.12210	0.0573443	0.23373852	2.6100522	21	9 20.7	18.1
61625 2000 QW_{101}	14.4	X	279.41492	235.30504	16.95773	13.40040	0.0267511	0.21234484	2.7825410	21	2 12.0	18.5
61626 2000 QA_{102}	15.0	X	7.85562	172.47809	148.55645	14.76393	0.1691820	0.23422186	2.6064602	21	9 24.1	17.7
61627 2000 QD_{102}	13.9	X	359.81226	178.26474	137.49441	10.93008	0.0727910	0.18402998	3.0610963	21	8 18.4	17.7
61628 2000 QF_{102}	15.2	X	96.87421	99.67761	46.53003	8.97159	0.0623000	0.26832859	2.3806273	21	5 17.7	18.0
61629 2000 QK_{102}	15.6	X	319.80545	159.56115	127.94602	7.24147	0.1017945	0.27090034	2.3655367	21	5 2.5	18.4
61630 2000 QP_{102}	15.0	X	316.36419	256.40102	91.73395	4.47476	0.1261481	0.22975184	2.6401588	21	7 20.8	17.9
61631 2000 QX_{102}	14.8	X	352.06142	279.02291	115.59357	8.40990	0.1662417	0.23897321	2.5717963	21	12 8.5	17.4
61632 2000 QZ_{102}	14.7	X	277.38048	252.05368	68.97104	7.22187	0.0682663	0.22143577	2.7058530	21	4 27.5	18.4
61633 2000 QG_{103}	15.5	X	243.43378	251.49317	48.17682	6.97448	0.1538624	0.26269029	2.4145713	21	2 9.7	19.3
61634 2000 QY_{103}	14.4	X	151.17289	67.24128	35.58319	5.60676	0.1727294	0.17309492	3.1886964	21	6 9.1	19.6
61635 2000 QA_{104}	15.3	X	238.27453	126.61530	137.72605	9.58450	0.1617839	0.25843922	2.4409775	21	—	—
61636 2000 QD_{104}	15.6	X	114.51673	46.52671	75.07639	5.34078	0.0745828	0.26742448	2.3859899	21	5 11.2	18.6
61637 2000 QJ_{104}	15.5	X	330.69196	294.50136	65.90506	3.98806	0.1111356	0.23303966	2.6152677	21	9 6.6	18.3
61638 2000 QO_{104}	15.4	X	246.72558	178.84760	107.36243	7.56297	0.1136697	0.26086938	2.4257943	21	1 27.1	18.9
61639 2000 QX_{104}	14.8	X	291.32081	181.44325	151.44703	12.94153	0.1727364	0.22495019	2.6775965	21	5 17.3	18.6
61640 2000 QT_{105}	13.4	X	137.05603	135.94806	55.94363	14.36556	0.1940123	0.23213267	2.6220755	21	9 24.7	18.0
61641 2000 QS_{106}	15.7	X	15.04187	92.43417	137.21283	6.87868	0.0778181	0.27269511	2.3551459	21	5 13.0	18.2
61642 2000 QE_{107}	14.1	X	174.22410	207.31280	247.63935	4.17255	0.1509835	0.17741220	3.1367535	21	6 20.0	19.2
61643 2000 QN_{108}	16.0	X	336.99329	238.12683	82.00935	3.12574	0.2570850	0.27926359	2.3180698	21	7 1.5	17.2
61644 2000 QE_{109}	14.9	X	156.66743	209.30815	6.57359	13.31993	0.0944109	0.24169343	2.5524632	21	10 30.3	18.9
61645 2000 QT_{109}	15.5	X	335.74410	127.63238	214.33055	3.17920	0.1454590	0.23182389	2.6244034	21	8 13.4	18.3
61646 2000 QC_{110}	16.4	X	352.08484	100.79675	195.80266	2.21391	0.0921447	0.27833016	2.3232496	21	7 11.2	18.6
61647 2000 QJ_{110}	15.1	X	17.01862	229.14797	315.73847	4.10783	0.0482978	0.21893775	2.7263961	21	3 16.4	18.7
61648 2000 QK_{111}	15.7	X	253.41178	115.37033	146.57412	2.94425	0.1342768	0.26108191	2.4244777	21	1 1.9	19.4
61649 2000 QO_{111}	15.0	X	45.08408	231.31529	159.63739	5.55812	0.1211832	0.19979293	2.8978949	21	—	—
61650 2000 QQ_{111}	15.7	X	275.42039	341.65321	291.78944	2.28496	0.1491060	0.26528431	2.3988053	21	2 4.9	19.3
61651 2000 QW_{111}	14.2	X	189.05774	288.71096	161.08030	15.03968	0.2706563	0.17573765	3.1566481	21	6 26.2	20.0
61652 2000 QO_{112}	14.8	X	222.05133	204.30016	227.46590	1.34714	0.0245566	0.22881429	2.6473658	21	7 17.0	18.3
61653 2000 QU_{112}	15.4	X	292.22765	145.09252	147.43549	4.20065	0.0574337	0.22099433	2.7094552	21	4 10.5	19.0
61654 2000 QB_{113}	14.6	X	322.34865	84.72283	324.41850	7.83572	0.0960821	0.19201395	2.9756432	21	10 18.5	18.4
61655 2000 QF_{113}	14.9	X	72.34873	130.74134	170.70397	10.29409	0.0105481	0.19372065	2.9581403	21	11 3.0	19.1
61656 2000 QR_{113}	15.3	X	10.09015	139.93303	156.15371	4.03594	0.0272443	0.23152742	2.6266433	21	8 6.9	18.5
61657 2000 QZ_{113}	15.2	X	67.29580	242.39803	173.05002	2.25714	0.0839588	0.20549687	2.8440196	21	—	—
61658 2000 QJ_{114}	15.9	X	313.69455	106.00713	144.80706	3.07772	0.1284365	0.26692819	2.3889465	21	2 23.6	18.9
61659 2000 QK_{114}	15.9	X	217.48372	357.41208	304.95003	0.48398	0.1426232	0.26042914	2.4285273	21	1 17.8	19.5
61660 2000 QP_{114}	14.3	X	233.60515	112.33428	353.52737	10.61935	0.0731376	0.18580186	3.0416041	21	9 7.8	18.7
61661 2000 QC_{115}	15.9	X	32.85003	144.21108	165.00789	5.80849	0.1879853	0.28406461	2.2918770	21	11 1.1	18.4
61662 2000 QQ_{115}	15.1	X	22.53202	125.73901	246.94603	3.53994	0.1553044	0.24173915	2.5521413	21	12 26.4	18.1
61663 2000 QB_{116}	15.3	X	196.28568	320.68554	106.04012	9.71977	0.0907051	0.27187714	2.3598673	21	6 5.3	18.7
61664 2000 QE_{116}	14.8	X	235.64084	354.34069	10.08204	6.01989	0.0420207	0.22247351	2.6974321	21	5 2.0	18.6
61665 2000 QZ_{116}	15.4	X	23.40326	311.24572	275.08665	4.19122	0.0923290	0.27498774	2.3420374	21	5 19.9	17.6
61666 2000 QS_{117}	13.8	X	284.00152	91.88827	297.19494	8.33826	0.1146711	0.18172408	3.0869367	21	7 26.9	17.9
61667 2000 QD_{118}	14.2	X	150.70345	256.61137	304.06630	8.10957	0.1471502	0.23780749	2.5801940	21	10 4.9	18.4
61668 2000 QF_{118}	14.3	X	235.84206	240.77336	206.95102	10.03286	0.1127739	0.18285493	3.0741963	21	8 9.4	19.1
61669 2000 QR_{118}	14.5	X	323.06206	91.39473	320.55293	9.75993	0.0685223	0.19116318	2.9844654	21	10 23.5	18.5
61670 2000 QA_{119}	15.4	X	338.88456	64.05010	247.96121	3.18197	0.1168793	0.22951688	2.6419603	21	7 8.2	18.2
61671 2000 QH_{119}	15.5	X	32.27878	73.86508	243.23185	4.35921	0.1428324	0.23730195	2.5838572	21	10 23.5	18.4
61672 2000 QQ_{120}	14.1	X	3.91994	126.79998	239.79900	5.00328	0.1029183	0.19074478	2.9888281	21	11 1.2	17.9
61673 2000 QN_{121}	15.0	X	324.95204	119.98698	258.73109	2.73625	0.1021372	0.23409215	2.6074229	21	9 19.5	17.9
61674 2000 QX_{121}	14.0	X	343.97593	222.31368	277.92513	6.52551	0.1191837	0.20425596	2.8555267	21	—	—
61675 2000 QQ_{122}	15.4	X	146.22396	61.97389	322.69202	5.94222	0.0834151	0.30591805	2.1813866	21	2 2.8	18.0
61676 2000 QM_{123}	13.9	X	222.47660	297.76168	197.57422	21.77411	0.0433257	0.23469824	2.6029320	21	10 9.3	17.4
61677 2000 QC_{124}	14.7	X	279.47800	254.23029	193.63157	9.67822	0.0583393	0.18953097	3.0015754	21	10 14.3	18.6
61678 2000 QE_{124}	14.1	X	292.99042	189.74088	186.89216	9.25199	0.1118699	0.18213181	3.0823280	21	7 21.9	18.4
61679 2000 QH_{124}	14.7	X	176.24746	273.38187	150.66450	6.52776	0.1418027	0.17382318	3.1797838	21	5 17.3	19.9
61680 2000 QJ_{124}	15.5	X	132.96429	46.05399	225.42705	3.11734	0.1196902	0.24475684	2.5311205	21	12 18.5	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61681 2000 QO_{124}	14.9	X	55.29435	297.27215	61.27111	2.94691	0.0876164	0.19899371	2.9056490	21	12 31.4	19.0
61682 2000 QV_{124}	14.9	X	99.40355	217.68152	189.11879	6.19102	0.1173202	0.25843998	2.4409727	21	1 12.7	17.8
61683 2000 QX_{125}	15.4	X	260.17697	282.68874	207.27853	2.39556	0.0532637	0.24160262	2.5531028	21	11 20.6	18.7
61684 2000 QB_{126}	14.4	X	208.80131	344.45579	350.69394	4.82388	0.0521511	0.21448225	2.7640240	21	2 25.2	18.3
61685 2000 QJ_{126}	15.9	X	265.28434	197.08681	113.45152	3.09851	0.2077737	0.26731051	2.3866681	21	3 9.7	19.5
61686 2000 QV_{126}	15.0	X	349.46214	3.06755	3.60886	2.02338	0.1033570	0.18993910	2.9972741	21	10 9.5	18.6
61687 2000 QY_{126}	14.1	X	332.91163	165.99093	162.01889	22.54981	0.0798134	0.18227914	3.0806669	21	7 21.8	18.4
61688 2000 QC_{127}	15.0	X	187.83918	343.08090	337.57312	6.19146	0.1396243	0.25784646	2.4447171	21	1 13.6	18.8
61689 2000 QH_{127}	14.5	X	300.08187	184.08715	185.87931	13.02739	0.1966722	0.22888541	2.6468174	21	7 10.8	18.0
61690 2000 QV_{127}	14.7	X	323.16716	339.45479	5.59903	9.08784	0.2176776	0.22954786	2.6417226	21	7 18.2	17.4
61691 2000 QV_{128}	14.3	X	26.42282	310.48156	207.04602	12.11476	0.0753411	0.21345254	2.7729061	21	2 20.5	17.9
61692 2000 QE_{129}	15.2	X	199.31860	223.67345	287.51000	4.87097	0.0600993	0.23951872	2.5678899	21	9 27.7	18.9
61693 2000 QT_{130}	14.1	X	290.74807	227.79991	123.22909	14.97237	0.2361381	0.23228805	2.6209062	21	5 30.8	17.9
61694 2000 QB_{132}	14.9	X	243.40961	134.96490	102.19852	3.35431	0.0092642	0.20590772	2.8402351	21	—	—
61695 2000 QD_{132}	16.4	X	70.71759	295.46095	5.49736	3.79887	0.1576079	0.29096340	2.2555051	21	12 2.1	19.4
61696 2000 QL_{132}	15.9	X	243.37029	266.03621	95.11896	3.67912	0.1817988	0.27180461	2.3602871	21	4 24.2	19.6
61697 2000 QR_{132}	16.4	X	220.76951	310.62513	21.57473	3.98216	0.2077718	0.26595692	2.3947592	21	2 26.5	20.3
61698 2000 QU_{132}	16.0	X	340.98842	194.13640	101.87170	4.51217	0.1737743	0.27852989	2.3221388	21	6 10.7	17.8
61699 2000 QV_{132}	16.5	X	224.39349	241.04253	42.48593	1.69673	0.1905083	0.26205310	2.4184838	21	1 1.4	20.5
61700 2000 QG_{133}	14.5	X	340.19374	288.42001	23.56832	5.42868	0.1307918	0.18570279	3.0426857	21	7 10.6	18.1
61701 2000 QH_{133}	14.9	X	312.05018	15.13435	36.94551	4.19635	0.0427226	0.24085274	2.5583992	21	10 22.3	18.1
61702 2000 QL_{133}	15.2	X	164.33340	240.86938	123.20192	6.32486	0.0861345	0.26210062	2.4181915	21	2 6.2	18.4
61703 2000 QW_{133}	15.6	X	257.67438	221.22248	66.71147	3.12508	0.2057060	0.26674863	2.3900185	21	2 3.1	19.5
61704 2000 QN_{134}	15.7	X	322.18285	251.71805	104.18888	2.78244	0.1828483	0.23374420	2.6100099	21	8 5.1	18.0
61705 2000 QZ_{134}	15.7	X	284.38085	216.88916	36.39755	4.31864	0.1092771	0.26513832	2.3996858	21	1 26.1	19.0
61706 2000 QD_{136}	15.7	X	159.86840	244.86782	102.07486	4.70539	0.1156833	0.25722292	2.4486663	21	1 14.2	19.2
61707 2000 QU_{137}	16.2	X	292.13841	159.68900	156.54341	6.69013	0.1485457	0.27133299	2.3630214	21	4 23.9	19.3
61708 2000 QF_{138}	14.6	X	343.06062	304.86259	82.86108	2.66085	0.1463307	0.18959592	3.0008899	21	10 28.8	17.9
61709 2000 QM_{138}	15.5	X	313.93659	124.04136	162.27219	4.38436	0.0894628	0.26994796	2.3710972	21	4 21.8	18.2
61710 2000 QQ_{138}	14.5	X	115.40562	288.92006	147.40245	2.50957	0.0706157	0.21364606	2.7712314	21	3 17.6	18.1
61711 2000 QR_{139}	15.4	X	342.35476	221.07034	163.79812	12.11403	0.1012944	0.23715395	2.5849321	21	11 3.9	18.4
61712 2000 QT_{139}	15.6	X	43.63073	226.17663	79.56275	2.79576	0.2046934	0.23786547	2.5797747	21	11 5.3	18.8
61713 2000 QJ_{141}	15.3	X	174.63846	243.58669	65.96542	2.96592	0.1697254	0.25484376	2.4638828	21	—	—
61714 2000 QW_{141}	15.7	X	261.72069	211.11012	96.12080	2.29864	0.1938008	0.26633866	2.3924704	21	3 3.3	19.4
61715 2000 QX_{141}	15.1	X	48.28100	305.97043	15.90214	8.72913	0.1824960	0.23963461	2.5670620	21	11 26.4	18.6
61716 2000 QC_{142}	14.3	X	309.88253	274.23070	167.71473	9.81394	0.0651586	0.19199272	2.9758626	21	11 19.2	18.3
61717 2000 QU_{142}	14.9	X	267.83378	294.75798	119.43336	3.28083	0.0941560	0.22991118	2.6389388	21	8 13.5	18.5
61718 2000 QY_{142}	14.4	X	72.85110	341.51249	115.16878	5.46193	0.0313678	0.21066743	2.7972919	21	2 11.3	18.1
61719 2000 QK_{143}	16.1	X	341.23434	265.46251	7.36236	1.84514	0.2408810	0.27389647	2.3482541	21	4 21.4	17.9
61720 2000 QM_{143}	14.7	X	251.86160	246.97234	159.95154	3.00494	0.0793228	0.22746644	2.6578134	21	7 14.7	18.5
61721 2000 QT_{144}	15.1	X	268.26028	142.59334	157.65878	8.41528	0.0905913	0.21835335	2.7312585	21	3 17.3	18.9
61722 2000 QY_{144}	14.2	X	202.43099	49.54249	17.18790	9.81966	0.1188261	0.17608912	3.1524463	21	6 11.3	19.3
61723 2000 QJ_{145}	15.2	X	110.80432	132.82323	130.45622	5.86584	0.2019789	0.24199529	2.5503401	21	11 22.8	19.4
61724 2000 QL_{145}	15.4	X	77.08632	353.11634	99.26719	3.56069	0.1667118	0.25693207	2.4505139	21	2 19.3	17.8
61725 2000 QY_{145}	14.3	X	67.86875	346.98745	152.61241	9.85936	0.0988023	0.21571542	2.7534799	21	4 10.8	17.8
61726 2000 QK_{146}	14.7	X	120.42992	281.23774	20.08317	13.16561	0.1012616	0.19870632	2.9084499	21	—	—
61727 2000 QU_{146}	14.7	X	312.58262	34.47129	24.33217	9.20428	0.0886390	0.19032567	2.9932142	21	10 19.9	18.5
61728 2000 QT_{147}	14.6	X	122.02322	222.98461	176.21082	25.44072	0.1442934	0.21113415	2.7931680	21	2 14.6	18.9
61729 2000 QX_{147}	14.8	X	304.80572	88.58048	335.22262	21.77781	0.0815924	0.23799713	2.5788232	21	10 10.5	18.4
61730 2000 QJ_{148}	15.6	X	268.10144	288.34188	328.49183	7.66215	0.1796658	0.26197601	2.4189582	21	1 8.0	19.4
61731 2000 QV_{148}	14.4	X	132.81404	291.17283	64.40866	16.32451	0.1862976	0.20940140	2.8085554	21	1 13.7	18.7
61732 2000 QB_{150}	14.5	X	216.97076	217.45482	315.17685	9.11199	0.0342016	0.19360233	2.9593454	21	11 11.2	19.0
61733 2000 QU_{150}	14.1	X	76.24953	111.34957	208.31810	13.05279	0.1961280	0.24183151	2.5514915	21	12 26.4	18.3
61734 2000 QA_{151}	15.3	X	320.29440	92.85483	283.94665	6.10337	0.1339767	0.27833827	2.3232045	21	9 9.3	17.5
61735 2000 QQ_{151}	16.4	X	55.21528	134.83296	186.92476	3.14456	0.1259142	0.29096015	2.2555218	21	12 8.6	19.3
61736 2000 QL_{152}	14.8	X	141.31481	185.06882	179.43163	6.79778	0.1703516	0.26018842	2.4300250	21	1 20.2	18.2
61737 2000 QQ_{152}	14.5	X	51.77398	5.72564	275.31503	8.78186	0.0842578	0.19178870	2.9779727	21	9 14.8	18.6
61738 2000 QS_{152}	16.5	X	74.85673	141.61330	200.72148	4.75545	0.1941635	0.29503489	2.2347064	21	—	—
61739 2000 QT_{152}	15.9	X	151.39172	71.64624	183.58732	3.81341	0.1385988	0.29660805	2.2267977	21	12 24.4	19.1
61740 2000 QD_{153}	15.0	X	154.13590	132.99654	251.95533	4.37270	0.0724589	0.21631656	2.7483764	21	2 24.1	19.1
61741 2000 QK_{153}	16.0	X	353.63876	67.98420	197.28174	5.67917	0.0912663	0.27601472	2.3362244	21	5 26.5	18.3
61742 2000 QM_{153}	15.8	X	26.59256	56.33485	192.47238	4.90035	0.0573640	0.27773934	2.3265432	21	6 27.8	18.3
61743 2000 QV_{153}	15.1	X	211.08381	127.76321	180.20506	6.21245	0.0532458	0.21440218	2.7647121	21	1 23.6	19.3
61744 2000 QD_{154}	14.4	X	306.27632	74.32588	249.90003	9.91054	0.0346024	0.18184505	3.0855675	21	6 14.4	18.7
61745 2000 QF_{154}	14.7	X	334.52208	196.73613	190.29870	10.19132	0.2218586	0.23937734	2.5689010	21	10 22.7	16.7
61746 2000 QB_{155}	14.9	X	63.18014	28.23889	185.76512	16.82249	0.0856476	0.23020751	2.6366737	21	7 7.7	18.6
61747 2000 QJ_{155}	14.6	X	292.60548	123.02707	245.03776	10.40789	0.0608620	0.18610225	3.0383301	21	7 17.1	18.8
61748 2000 QY_{155}	14.5	X	3.88016	262.87920	243.26835	7.79935	0.0989067	0.21199278	2.7856208	21	1 3.9	18.0
61749 2000 QU_{156}	15.1	X	52.66167	65.64904	189.52473	14.19189	0.0386980	0.23320316	2.6140452	21	8 10.4	18.8
61750 2000 QD_{157}	15.3	X	156.13870	317.92457	211.92564	8.32148	0.0244271	0.23485675	2.6017607	21	8 31.0	19.0
61751 2000 QN_{157}	15.1	X	96.90204	44.12392	195.84277	8.48580	0.1558766	0.23873023	2.5735411	21	10 6.5	18.8
61752 2000 QT_{157}	16.0	X	241.20517	92.61504	213.93615	6.65856	0.2027316	0.26549733	2.3975221	21	2 8.6	20.0
61753 2000 QD_{159}	14.4	X	217.93125	204.04443	183.33052	16.08016	0.1094302	0.17621531	3.1509411	21	5 13.5	19.5
61754 2000 QP_{159}	14.8	X	149.07874	317.69217	189.65167	9.60838	0.1231644	0.23026154	2.6362613	21	7 28.5	19.0
61755 2000 QE_{160}	15.4	X	329.64140	354.41390	291.82467	8.75298	0.0960946	0.22661663	2.6644538	21	5 15.9	18.8
61756 2000 QJ_{160}	15.6	X	345.84847	89.07303	220.99404	6.02250	0.2104282	0.27938997	2.3173707	21	7 12.9	17.2
61757 2000 QS_{160}	15.5	X	330.54505	7.47816	233.10974	6.49772	0.0680339	0.26982935	2.3717919	21	3 11.2	18.4
61758 2000 QA_{164}	14.3	X	235.78387	134.17854	286.98714	12.37392	0.1026676	0.23077872	2.6323212	21	7 11.5	18.1
61759 2000 QB_{164}	14.7	X	164.14555	168.06983	262.27347	8.18054	0.0664699	0.22342267	2.6897870	21	5 3.2	18.7
61760 2000 QG_{165}	14.7	X	164.33763	97.77891	309.62923	7.78598	0.0649401	0.21859553	2.7292409	21	4 1.9	18.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61761 2000 QS_{165}	14.9	X	91.03801	344.45930	199.23815	9.13882	0.0662664	0.22797088	2.6538913	21	7 2.9	18.7
61762 2000 QT_{165}	15.2	X	125.00509	158.38836	217.14838	6.00857	0.0307208	0.20960335	2.8067511	21	1 5.9	19.2
61763 2000 QF_{166}	15.0	X	283.43332	160.75450	297.74342	8.32394	0.0719306	0.19311289	2.9643436	21	10 27.7	19.1
61764 2000 QT_{166}	14.9	X	216.76131	64.98562	269.60609	4.33461	0.0692243	0.21671622	2.7449964	21	3 1.9	19.0
61765 2000 QA_{167}	15.0	X	272.94464	307.19002	267.61850	3.67456	0.0473361	0.20872641	2.8146071	21	—	—
61766 2000 QX_{167}	15.3	X	59.70292	56.44372	232.40891	5.10814	0.2509778	0.23991710	2.5650465	21	11 9.0	19.0
61767 2000 QB_{168}	14.8	X	167.48988	70.08824	321.67644	12.99188	0.0285413	0.21696586	2.7428904	21	3 13.3	18.8
61768 2000 QK_{168}	15.3	X	299.31711	217.38755	214.55862	5.38079	0.0966584	0.23835187	2.5762638	21	10 24.3	18.0
61769 2000 QM_{168}	14.5	X	252.95712	200.56052	182.56922	13.86009	0.1027379	0.17943781	3.1131024	21	6 13.3	19.4
61770 2000 QE_{170}	14.4	X	318.26226	75.30146	323.37099	8.19987	0.0729755	0.18932413	3.0037612	21	9 29.9	18.4
61771 2000 QJ_{170}	16.1	X	56.39891	36.15115	258.26203	1.95940	0.1567189	0.28627475	2.2800657	21	11 6.1	18.9
61772 2000 QL_{170}	15.9	X	87.25461	246.12655	187.82768	4.65663	0.0837984	0.25828692	2.4419369	21	1 26.5	18.7
61773 2000 QJ_{171}	15.1	X	146.42287	308.80000	329.42642	10.14609	0.0242844	0.19945194	2.9011969	21	—	—
61774 2000 QV_{171}	14.3	X	250.62401	25.10313	339.84497	8.62686	0.1476782	0.17642502	3.1484437	21	5 10.6	19.3
61775 2000 QK_{172}	15.4	X	54.62728	110.44850	191.83142	9.22546	0.0701267	0.24045200	2.5612410	21	10 26.7	18.6
61776 2000 QP_{172}	15.0	X	171.84133	304.32842	255.55820	6.29691	0.1207955	0.24333461	2.5409734	21	10 27.8	18.9
61777 2000 QW_{172}	15.2	X	3.55338	76.71714	284.42696	5.99254	0.0708245	0.24029963	2.5623236	21	10 28.7	18.3
61778 2000 QA_{174}	15.9	X	2.33341	157.04046	269.77802	4.68653	0.1401834	0.29401283	2.2398823	21	—	—
61779 2000 QV_{174}	14.7	X	208.24382	283.59569	189.47717	11.11003	0.0550434	0.18513097	3.0489479	21	8 16.5	19.3
61780 2000 QQ_{175}	15.0	X	229.37422	263.29297	260.56704	4.72663	0.0466401	0.24401339	2.5362590	21	11 24.9	18.2
61781 2000 QH_{177}	14.7	X	131.48046	225.02848	180.69221	9.31786	0.1602498	0.21287757	2.7778968	21	3 8.4	18.7
61782 2000 QN_{177}	15.6	X	15.55900	16.13998	238.53062	3.23047	0.0387224	0.22638464	2.6662738	21	6 18.9	18.8
61783 2000 QU_{177}	15.6	X	155.07020	235.42530	180.78911	7.21689	0.1091968	0.26502162	2.4003902	21	4 6.8	18.8
61784 2000 QL_{178}	15.0	X	227.22825	230.90528	219.86334	7.07543	0.1251264	0.23236524	2.6203257	21	8 5.0	19.0
61785 2000 QM_{178}	14.4	X	245.90978	246.65308	189.97104	10.87365	0.2115464	0.18359049	3.0659796	21	7 27.3	19.4
61786 2000 QZ_{178}	14.6	X	86.35385	303.50485	175.17279	12.89340	0.1659600	0.21721693	2.7407764	21	4 19.3	18.2
61787 2000 QK_{179}	14.8	X	265.39600	284.48847	152.30266	1.60701	0.0723340	0.18623286	3.0369094	21	9 9.1	19.0
61788 2000 QP_{181}	14.3	X	150.05735	179.93868	253.68259	12.80955	0.1454488	0.25877060	2.4388931	21	4 24.4	18.2
61789 2000 QM_{182}	13.9	X	179.84375	234.68461	241.21196	4.09071	0.1416183	0.17060136	3.2196924	21	7 19.7	19.1
61790 2000 QO_{182}	15.0	X	343.80103	237.06603	266.53831	5.49668	0.1755099	0.24357838	2.5392779	21	—	—
61791 2000 QV_{182}	14.5	X	295.22822	278.56405	32.93082	9.66342	0.2091474	0.21721002	2.7408345	21	4 16.1	18.1
61792 2000 QA_{183}	15.2	X	122.39875	65.58974	347.11719	4.15278	0.0616069	0.21281430	2.7784474	21	2 23.1	19.1
61793 2000 QB_{183}	14.8	X	300.97020	280.20001	148.03238	10.59715	0.0905681	0.18898455	3.0073584	21	10 18.3	18.8
61794 2000 QD_{183}	15.4	X	87.07950	286.57784	140.35458	7.48145	0.0968613	0.26056006	2.4277138	21	1 18.5	18.0
61795 2000 QF_{183}	15.5	X	296.65862	180.24453	173.52953	1.23123	0.1071659	0.23113932	2.6295827	21	6 29.1	18.7
61796 2000 QM_{183}	14.7	X	2.34183	230.29585	171.35150	10.25258	0.0581965	0.19547407	2.9404239	21	12 12.1	18.7
61797 2000 QO_{183}	15.6	X	353.24836	339.43397	30.55593	3.77574	0.2265856	0.28550576	2.2841580	21	11 24.3	17.1
61798 2000 QY_{183}	15.3	X	182.30403	345.66174	17.73144	3.27051	0.0765684	0.21740448	2.7391999	21	3 3.7	19.4
61799 2000 QC_{184}	15.5	X	268.17384	273.64445	77.96537	3.41065	0.3001244	0.27314513	2.3525584	21	4 24.2	19.3
61800 2000 QU_{184}	14.8	X	186.43798	308.16855	127.69463	13.89999	0.1524767	0.22526235	2.6751223	21	6 9.0	19.3
61801 2000 QV_{184}	15.3	X	320.03278	337.74215	57.48703	3.69267	0.1449759	0.28489463	2.2874233	21	10 14.8	17.0
61802 2000 QA_{185}	14.7	X	333.13814	240.28396	129.42760	9.63062	0.1048316	0.18943301	3.0026102	21	9 20.1	18.4
61803 2000 QL_{185}	15.3	X	78.22810	281.47552	125.18200	13.02641	0.1611513	0.25430054	2.4673903	21	—	—
61804 2000 QO_{185}	15.0	X	336.29876	166.75958	99.46363	7.12353	0.0842357	0.27328617	2.3517489	21	4 30.3	17.6
61805 2000 QR_{185}	16.0	X	168.72746	246.44595	79.16258	5.75229	0.1180407	0.25792071	2.4442478	21	—	—
61806 2000 QZ_{185}	15.5	X	345.70929	323.73110	15.64624	3.56637	0.1854157	0.23503539	2.6004422	21	9 2.3	17.8
61807 2000 QC_{186}	15.3	X	24.69812	208.02123	88.29567	3.20308	0.0418630	0.23494496	2.6011095	21	9 1.6	18.6
61808 2000 QD_{187}	15.7	X	304.84914	160.46135	87.81496	7.32126	0.1972833	0.26809506	2.3820096	21	1 31.5	19.0
61809 2000 QG_{187}	15.3	X	154.08096	305.37546	44.64982	6.71588	0.1466702	0.25816161	2.4427271	21	1 16.2	18.8
61810 2000 QM_{187}	15.8	X	332.99247	266.86007	81.78642	6.14651	0.1728153	0.28129137	2.3069160	21	8 26.6	17.5
61811 2000 QQ_{187}	15.0	X	343.39856	99.04841	116.70659	7.13177	0.0630906	0.26655833	2.3911558	21	3 2.7	17.8
61812 2000 QP_{189}	15.6	X	233.39871	168.78422	84.06929	7.22186	0.0721007	0.25687969	2.4508470	21	—	—
61813 2000 QQ_{189}	15.0	X	339.50757	261.50159	129.94685	14.89269	0.1383377	0.23903754	2.5713349	21	11 12.6	18.0
61814 2000 QX_{189}	15.2	X	230.86672	256.64475	95.80986	5.30869	0.0918602	0.26843667	2.3799883	21	4 7.3	18.6
61815 2000 QZ_{189}	15.3	X	202.94713	314.84280	102.14348	5.94458	0.2180772	0.27057512	2.3674318	21	5 27.4	19.2
61816 2000 QR_{190}	15.3	X	16.47882	271.97852	43.12601	5.70999	0.2218865	0.28390101	2.2927573	21	10 17.7	17.1
61817 2000 QV_{190}	15.3	X	188.68374	202.35683	84.60630	6.92912	0.1086316	0.25551561	2.4595619	21	—	—
61818 2000 QW_{190}	15.8	X	67.68833	264.40839	69.08139	5.48463	0.1796773	0.29213971	2.2494464	21	—	—
61819 2000 QT_{191}	15.9	X	69.53970	196.83316	114.98005	8.07477	0.1503636	0.29017230	2.2596027	21	12 15.3	19.0
61820 2000 QV_{191}	13.8	X	52.38816	249.79410	106.34902	11.15184	0.0975232	0.15081979	3.4954023	21	12 17.1	18.7
61821 2000 QW_{191}	15.0	X	164.16787	291.59500	118.61646	11.30083	0.0247268	0.26691724	2.3890118	21	4 6.4	18.3
61822 2000 QF_{192}	14.4	X	261.54472	333.77238	43.87350	9.83647	0.1405754	0.18028472	3.1033453	21	6 9.8	19.1
61823 2000 QF_{193}	14.6	X	197.20813	345.94862	59.79100	2.84623	0.1812544	0.17500078	3.1655030	21	5 12.1	19.9
61824 2000 QU_{193}	14.7	X	206.72531	316.71180	105.23726	4.45042	0.2336576	0.22406319	2.6846584	21	6 6.0	19.2
61825 2000 QV_{193}	14.9	X	62.93517	353.40641	94.31247	4.97194	0.0680136	0.21076032	2.7964699	21	1 20.2	18.3
61826 2000 QC_{194}	15.6	X	109.95101	321.39084	101.47359	3.66710	0.1495936	0.26050454	2.4280587	21	2 26.3	18.5
61827 2000 QZ_{194}	15.4	X	132.11905	168.02874	106.55057	3.05551	0.0280025	0.24762059	2.5115676	21	12 20.8	18.9
61828 2000 QC_{195}	15.5	X	39.94557	240.45751	354.47173	6.44870	0.1665915	0.27897568	2.3196644	21	7 17.4	17.7
61829 2000 QL_{195}	15.8	X	262.77814	271.12586	80.13650	3.04012	0.0867257	0.22502920	2.6769698	21	5 14.7	19.6
61830 2000 QA_{196}	14.9	X	14.31779	312.04342	109.62995	4.55173	0.1019183	0.19925831	2.9030761	21	—	—
61831 2000 QB_{196}	15.0	X	64.42630	210.82883	47.84416	5.16172	0.1180592	0.23509894	2.5999736	21	9 19.6	18.4
61832 2000 QL_{196}	15.0	X	175.11212	233.58205	317.88475	4.67748	0.0685214	0.24192688	2.5508209	21	10 22.0	18.8
61833 2000 QM_{196}	15.4	X	89.77441	48.47995	146.42107	6.74960	0.0732784	0.27828181	2.3235187	21	7 19.2	18.2
61834 2000 QS_{196}	16.0	X	29.25657	347.06482	31.63104	1.72584	0.2208997	0.24393100	2.5368301	21	—	—
61835 2000 QX_{196}	15.2	X	22.48692	54.41117	332.63420	1.20259	0.0848680	0.19781516	2.9171785	21	12 24.1	18.9
61836 2000 QA_{197}	15.2	X	157.00144	63.18452	357.53724	5.23242	0.1448293	0.26629766	2.3927160	21	4 15.5	18.9
61837 2000 QC_{197}	15.7	X	263.06498	225.48042	35.64453	2.62983	0.1589494	0.26335778	2.4104897	21	1 8.9	19.3
61838 2000 QL_{197}	15.3	X	343.93544	54.43685	120.91021	0.60130	0.0117515	0.21312816	2.7757190	21	1 23.7	19.1
61839 2000 QA_{198}	15.8	X	244.25918	183.24900	78.53759	2.53903	0.1610694	0.26087815	2.4257399	21	—	—
61840 2000 QL_{198}	15.1	X	260.81692	262.41910	157.02356	5.03034	0.0862696	0.23241688	2.6199375	21	8 11.4	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61841 2000 QW_{199}	14.9	X	145.66679	175.95151	355.13534	10.69410	0.0559158	0.23339354	2.6126235	21	8 26.7	18.6
61842 2000 QE_{200}	15.4	X	134.74151	29.11162	47.30115	4.18954	0.0949259	0.21819210	2.7326040	21	4 13.0	19.3
61843 2000 QT_{200}	15.8	X	211.73373	253.93035	124.94676	3.47985	0.0901186	0.22132817	2.7067299	21	4 23.5	19.9
61844 2000 QU_{200}	14.6	X	179.43347	242.88410	145.68269	10.06834	0.0955856	0.17099984	3.2146886	21	4 8.3	19.6
61845 2000 QW_{200}	14.8	X	275.34629	357.04057	10.57824	5.40325	0.1326179	0.18096332	3.0955823	21	6 15.1	19.2
61846 2000 QH_{201}	14.9	X	122.47184	11.53260	36.90904	5.53994	0.0587329	0.21320834	2.7750230	21	2 19.5	18.7
61847 2000 QW_{201}	15.7	X	301.07956	131.32778	124.40512	3.41232	0.1331951	0.26670070	2.3903048	21	2 13.5	18.9
61848 2000 QG_{202}	14.5	X	303.89571	274.85303	97.63957	2.54243	0.1035351	0.18463179	3.0544409	21	8 5.1	18.3
61849 2000 QP_{202}	15.5	X	246.66935	197.51520	68.89275	3.09309	0.1751934	0.26117828	2.4238813	21	—	—
61850 2000 QZ_{202}	15.4	X	320.81114	323.05297	48.62453	4.03733	0.0774628	0.23424626	2.6062792	21	9 8.1	18.4
61851 2000 QA_{204}	16.4	X	179.85300	349.94668	40.16261	3.25162	0.1218820	0.31218483	2.1520954	21	3 26.7	19.4
61852 2000 QB_{204}	14.8	X	52.37111	307.02415	74.12440	3.09048	0.0795605	0.19982976	2.8975389	21	—	—
61853 2000 QO_{204}	15.5	X	358.42663	24.59343	233.17111	6.05722	0.1222315	0.27432028	2.3458349	21	5 21.2	17.5
61854 2000 QQ_{204}	14.5	X	237.89899	250.87257	193.55366	9.53135	0.1623896	0.18280470	3.0747595	21	8 2.9	19.5
61855 2000 QE_{205}	15.1	X	134.54795	60.61138	288.64154	0.75052	0.0995503	0.20653250	2.8345043	21	—	—
61856 2000 QJ_{205}	14.9	X	139.49432	93.17485	314.79511	1.10944	0.0900846	0.21377612	2.7701073	21	3 12.2	18.9
61857 2000 QL_{205}	14.9	X	163.04387	124.06010	191.95320	1.73752	0.0697921	0.20634649	2.8362075	21	—	—
61858 2000 QM_{205}	16.1	X	236.79893	147.89372	167.47165	2.12477	0.1862134	0.26452589	2.4033882	21	2 18.4	19.9
61859 2000 QS_{205}	14.8	X	302.08664	334.74828	54.84549	0.91235	0.1750821	0.18441852	3.0567953	21	8 14.7	18.4
61860 2000 QT_{205}	15.9	X	58.30086	294.46856	10.73387	1.77267	0.1877896	0.24014351	2.5634340	21	11 19.6	19.5
61861 2000 QA_{207}	15.3	X	315.99528	310.95341	355.60517	14.35629	0.0901477	0.22545219	2.6736204	21	5 21.0	19.0
61862 2000 QA_{208}	14.9	X	338.15754	30.03325	4.79513	10.29714	0.1150479	0.19009097	2.9956775	21	10 25.5	18.5
61863 2000 QJ_{208}	16.0	X	160.51526	34.39578	0.56293	0.82915	0.1910124	0.26112784	2.4241934	21	3 22.4	19.7
61864 2000 QL_{208}	14.9	X	337.11857	326.74047	26.28398	8.36288	0.0687111	0.18496538	3.0507673	21	9 5.5	18.8
61865 2000 QO_{210}	15.1	X	137.77681	141.24770	151.70417	2.77217	0.0435543	0.20128214	2.8835837	21	—	—
61866 2000 QE_{211}	16.5	X	283.46835	273.20092	19.05927	1.16554	0.1252937	0.26825810	2.3810444	21	3 13.0	19.7
61867 2000 QQ_{211}	14.9	X	237.03120	320.51571	116.58980	3.35185	0.0250989	0.22953078	2.6418537	21	8 13.9	18.5
61868 2000 QN_{212}	15.4	X	53.67833	0.95750	23.66066	1.85219	0.0970136	0.20014415	2.8945037	21	—	—
61869 2000 QO_{212}	15.1	X	91.39642	252.62442	155.50563	2.27053	0.0668963	0.20819387	2.8194047	21	1 9.5	18.7
61870 2000 QV_{212}	15.6	X	180.71661	218.22406	163.04130	3.35002	0.1056322	0.21660809	2.7459098	21	3 25.0	19.8
61871 2000 QE_{213}	15.7	X	147.43356	285.97393	142.78171	4.98493	0.0660915	0.26577887	2.3958286	21	4 11.1	18.9
61872 2000 QH_{213}	14.8	X	19.71845	351.48038	88.61601	3.14524	0.0505597	0.20311528	2.8662076	21	—	—
61873 2000 QN_{213}	14.8	X	53.20807	40.14884	12.29677	5.97221	0.0741651	0.20355840	2.8620466	21	—	—
61874 2000 QX_{213}	14.7	X	330.36902	152.88650	156.04165	11.26136	0.1307178	0.18171240	3.0870690	21	6 19.0	18.6
61875 2000 QS_{214}	15.8	X	335.47382	114.80009	148.39786	3.47825	0.1219315	0.27105143	2.3646575	21	4 17.4	18.1
61876 2000 QN_{215}	14.9	X	157.14671	292.87423	24.63358	2.37157	0.0494199	0.20553126	2.8437023	21	—	—
61877 2000 QU_{215}	14.9	X	332.05027	233.28660	108.56335	2.89320	0.1043681	0.18404084	3.0609759	21	8 8.2	18.6
61878 2000 QD_{216}	14.8	X	325.10079	31.94992	21.50615	9.80533	0.0641920	0.19112451	2.9848680	21	10 31.8	18.7
61879 2000 QQ_{216}	14.7	X	35.00727	256.54752	111.15658	1.89634	0.0298394	0.19595188	2.9356420	21	12 8.9	18.7
61880 2000 QC_{217}	14.7	X	258.20558	27.35703	30.25728	10.01965	0.1021952	0.18181962	3.0858553	21	8 5.8	19.3
61881 2000 QS_{217}	14.0	X	304.12357	316.46569	44.46449	10.73638	0.1261523	0.17531608	3.1617065	21	7 19.3	18.3
61882 2000 QA_{218}	13.9	X	37.10132	342.75349	52.49281	9.29294	0.0270854	0.19046453	2.9917592	21	—	—
61883 2000 QU_{218}	15.3	X	327.56437	87.65789	121.32371	7.74785	0.1004085	0.26639394	2.3921394	21	1 21.4	18.2
61884 2000 QJ_{219}	14.8	X	214.61328	323.87695	61.47796	1.95590	0.1956523	0.17620182	3.1511019	21	5 2.2	20.1
61885 2000 QN_{219}	15.2	X	285.12167	268.94698	70.16719	2.70507	0.0466809	0.22845987	2.6501031	21	6 1.9	18.7
61886 2000 QV_{219}	16.0	X	303.99317	342.50072	30.72210	3.84589	0.1929991	0.23339418	2.6126187	21	7 26.4	18.8
61887 2000 QF_{220}	15.3	X	199.57102	150.55763	297.74140	2.82869	0.1340749	0.22906965	2.6453979	21	7 5.8	19.2
61888 2000 QO_{220}	15.1	X	171.95909	138.20111	320.59863	1.79302	0.0327958	0.22800800	2.6536033	21	6 19.2	18.7
61889 2000 QL_{221}	15.9	X	294.99267	278.02678	25.03185	5.40769	0.1747452	0.27272971	2.3549467	21	4 3.6	19.0
61890 2000 QZ_{221}	15.7	X	124.05337	155.48322	95.23211	7.98762	0.1160999	0.29092464	2.2557054	21	11 22.3	18.9
61891 2000 QO_{222}	15.4	X	292.19073	208.47677	85.40837	10.10404	0.1486689	0.27109710	2.3643919	21	3 27.9	18.7
61892 2000 QQ_{222}	14.8	X	252.13105	238.38354	75.00090	10.14856	0.1576797	0.26774742	2.3840710	21	3 8.7	18.6
61893 2000 QX_{222}	15.4	X	229.97064	249.99494	84.81517	7.48346	0.1146175	0.26663507	2.3906970	21	3 14.8	19.0
61894 2000 QT_{224}	14.4	X	22.76911	322.51602	66.11329	10.26310	0.0481586	0.24353297	2.5395935	21	—	—
61895 2000 QV_{224}	13.8	X	257.65166	44.72834	58.44213	10.11343	0.0455070	0.23634515	2.5908261	21	10 16.5	17.2
61896 2000 QG_{227}	12.7	X	270.38211	116.31923	245.67476	6.23986	0.0625193	0.08418717	5.1559112	21	6 14.7	19.6
61897 2000 QY_{227}	16.1	X	61.70756	345.49397	0.20210	2.68308	0.1455841	0.24374365	2.5381299	21	—	—
61898 2000 QZ_{227}	15.6	X	309.97296	27.37757	200.28244	6.43312	0.0676157	0.26463667	2.4027174	21	1 26.2	18.7
61899 2000 QN_{228}	15.6	X	269.90138	34.89646	286.88535	2.78841	0.0764842	0.22245336	2.6975950	21	4 14.4	19.5
61900 2000 QQ_{228}	15.3	X	98.69318	291.05196	215.85068	1.34195	0.1526923	0.22312704	2.6921623	21	6 7.4	18.9
61901 2000 QX_{228}	15.4	X	190.22665	49.70267	58.29254	1.63011	0.0206041	0.23004560	2.6379107	21	7 25.8	18.8
61902 2000 QH_{229}	14.9	X	287.26718	114.69998	331.51609	10.21820	0.0511150	0.19215196	2.9742183	21	10 18.6	19.1
61903 2000 QA_{230}	15.3	X	300.51834	55.06415	50.78097	6.83888	0.0058988	0.24348786	2.5399072	21	12 18.4	18.6
61904 2000 QD_{230}	15.6	X	249.59005	267.38591	74.48730	4.50328	0.0841031	0.22033319	2.7148725	21	4 18.7	19.5
61905 2000 QF_{230}	15.0	X	192.26600	322.89466	35.85891	10.56462	0.0626365	0.21418441	2.7665858	21	3 12.4	19.2
61906 2000 QJ_{230}	14.9	X	262.89335	144.67239	131.00174	7.19722	0.0198239	0.21249469	2.7812327	21	2 16.8	18.6
61907 2000 QK_{230}	14.7	X	330.02071	236.89494	143.31785	9.85723	0.0777489	0.18675173	3.0312817	21	9 29.7	18.6
61908 2000 QT_{230}	15.3	X	108.02311	175.98191	145.22832	2.49302	0.1245803	0.20027878	2.8932064	21	—	—
61909 2000 QR_{231}	15.4	X	292.02713	261.92835	184.18106	4.65497	0.1594452	0.24072549	2.5593008	21	10 25.5	18.0
61910 2000 QW_{243}	15.0	X	176.63733	287.15167	137.60265	8.12044	0.1802619	0.22192623	2.7018649	21	5 17.8	19.6
61911 2000 QP_{244}	16.4	X	327.86000	308.58821	315.79716	1.99126	0.1384952	0.27326270	2.3518835	21	3 31.6	18.9
61912 Storrs	15.1	X	147.79315	281.74223	146.42240	9.01336	0.0481892	0.21882007	2.7273735	21	4 14.9	19.1
61913 Lanning	15.7	X	304.94683	359.88145	313.58941	1.62537	0.0581555	0.22705576	2.6610173	21	5 23.5	19.2
61914 2000 RK	14.7	X	336.91567	166.24104	231.27934	14.24340	0.1280976	0.24079388	2.5588162	21	11 9.9	17.3
61915 2000 RO	14.4	X	224.62476	168.91119	270.92556	12.04809	0.0878549	0.18317416	3.0706235	21	7 21.7	19.1
61916 2000 RB_1	15.5	X	171.96526	111.98373	179.53265	4.91254	0.1393225	0.25210590	2.4816891	21	—	—
61917 2000 RH_1	16.1	X	273.97453	335.65384	342.21546	1.98864	0.2064557	0.26920974	2.3754298	21	3 25.6	19.7
61918 2000 RR_1	14.8	X	353.70391	305.07255	274.74093	10.98983	0.1174717	0.22085243	2.7106156	21	3 17.3	18.2
61919 2000 RU_1	15.7	X	324.93981	291.83170	341.92151	2.19821	0.1527707	0.27051524	2.3677811	21	4 7.8	18.1
61920 2000 RV_1	16.0	X	213.12410	341.65462	335.80247	2.04329	0.1742408	0.26071683	2.4267405	21	2 1.8	19.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
61921 2000 RW_1	16.3	X	95.30834	328.81702	355.58177	4.80523	0.1513458	0.29325396	2.2437448	21	—	—
61922 2000 RA_2	14.2	X	106.00121	274.21701	9.40746	8.85365	0.0191317	0.24047191	2.5610997	21	11 26.3	17.8
61923 2000 RF_2	16.1	X	75.43438	322.71548	346.76333	3.09292	0.1490010	0.28883801	2.2665562	21	12 17.5	19.3
61924 2000 RL_2	13.6	X	188.57559	66.06396	1.84158	4.14830	0.1516282	0.17293782	3.1906272	21	5 30.6	18.8
61925 2000 RA_3	14.1	X	246.50017	208.98444	190.17081	21.56276	0.0562450	0.17775831	3.1326805	21	6 29.4	19.1
61926 2000 RN_3	13.8	X	305.16956	200.46274	191.32250	9.53733	0.0871551	0.18388791	3.0626728	21	8 31.9	17.9
61927 2000 RZ_3	14.5	X	288.96241	73.82418	191.84598	8.63004	0.1130732	0.21499960	2.7595882	21	2 20.3	18.5
61928 2000 RP_4	14.6	X	312.81616	320.25932	43.07086	13.24416	0.3067474	0.22940391	2.6428276	21	7 6.6	17.5
61929 2000 RB_5	15.4	X	230.25666	138.60051	178.68521	5.85712	0.1251797	0.26182274	2.4199021	21	2 15.9	19.0
61930 2000 RP_5	14.0	X	335.80473	131.39310	202.45028	14.09578	0.1810903	0.18220841	3.0814641	21	7 24.0	17.8
61931 2000 RS_5	15.4	X	225.67284	15.73250	30.34773	2.65109	0.2179421	0.26957749	2.3732690	21	5 31.7	19.2
61932 2000 RN_6	16.6	X	53.75421	219.08228	129.42031	0.66491	0.1839287	0.28924815	2.2644131	21	—	—
61933 2000 RR_6	14.9	X	196.15738	152.20248	184.83432	11.74283	0.1929058	0.21124022	2.7922329	21	2 14.5	19.8
61934 2000 RA_7	15.7	X	302.29688	296.91019	20.61340	4.13777	0.2493812	0.27160042	2.3614700	21	4 20.6	18.6
61935 2000 RT_7	13.5	X	197.74289	325.12662	121.31094	5.98191	0.1366437	0.17280128	3.1923077	21	7 1.5	18.6
61936 2000 RZ_7	15.5	X	64.10733	278.93066	61.52112	2.00426	0.2554981	0.24199903	2.5503139	21	—	—
61937 2000 RK_9	14.6	X	286.77013	295.07546	79.80108	8.29015	0.2892939	0.22523761	2.6753182	21	6 15.1	18.0
61938 2000 RT_9	15.4	X	220.54611	327.56528	69.68757	7.02712	0.0929439	0.26447863	2.4036745	21	5 23.2	18.8
61939 2000 RA_{11}	15.3	X	343.89814	314.75935	85.39170	3.12540	0.1627847	0.23319791	2.6140844	21	11 27.6	17.8
61940 2000 RB_{11}	14.4	X	20.00367	327.88899	101.25811	3.39202	0.1351753	0.19317434	2.9637149	21	—	—
61941 2000 RE_{11}	14.8	X	123.91225	269.88905	207.88942	4.34586	0.0414065	0.30802017	2.1714505	21	5 10.0	17.2
61942 2000 RP_{12}	15.6	X	166.76579	275.22984	36.34886	5.70594	0.1698865	0.29912833	2.2142723	21	—	—
61943 2000 RT_{12}	14.9	X	255.82122	146.39465	217.44928	6.92921	0.1478295	0.27229048	2.3574785	21	5 12.8	18.2
61944 2000 RM_{13}	15.2	X	284.21749	352.87799	261.18687	7.31018	0.1768270	0.26500747	2.4004756	21	1 17.1	18.8
61945 2000 RO_{13}	14.5	X	322.74553	160.49414	248.75645	10.10677	0.0905520	0.19180998	2.9777524	21	10 20.8	18.4
61946 2000 RQ_{13}	15.1	X	242.23756	271.25600	202.36765	12.80357	0.1397857	0.23663844	2.5886849	21	9 20.4	18.9
61947 2000 RG_{14}	14.3	X	279.96814	223.26481	230.17471	9.73746	0.0780526	0.19190581	2.9767610	21	10 17.5	18.3
61948 2000 RA_{15}	14.0	X	174.46091	247.92094	200.50528	14.08859	0.1674824	0.17583165	3.1555230	21	6 12.7	19.4
61949 2000 RL_{16}	15.1	X	163.22784	162.38755	206.31998	8.71938	0.1424631	0.26009615	2.4305996	21	2 13.3	18.9
61950 2000 RQ_{16}	14.1	X	211.56015	89.27863	313.55566	11.28638	0.1476543	0.17530486	3.1618414	21	5 19.4	19.4
61951 2000 RE_{17}	15.0	X	280.95305	155.06278	207.67810	12.47760	0.0087752	0.22794179	2.6541171	21	7 2.8	18.8
61952 2000 RG_{17}	15.1	X	359.06064	165.69519	199.66608	12.20361	0.1942903	0.23799710	2.5788234	21	11 13.3	17.6
61953 2000 RK_{17}	14.2	X	143.28804	222.95185	278.81252	8.57071	0.0587651	0.17992361	3.1074963	21	7 12.0	18.8
61954 2000 RB_{18}	14.9	X	311.90923	153.01902	208.12973	8.53104	0.0520587	0.18391191	3.0624063	21	8 4.7	19.1
61955 2000 RK_{18}	14.5	X	98.20805	254.44031	328.37598	14.78303	0.0781199	0.23328744	2.6134156	21	9 3.7	18.1
61956 2000 RS_{18}	15.3	X	280.47632	260.22483	330.69029	18.99845	0.2231791	0.26064351	2.4271956	21	—	—
61957 2000 RE_{19}	13.8	X	178.51014	225.52283	201.64323	16.95443	0.1122934	0.17406737	3.1768092	21	5 21.9	18.9
61958 2000 RR_{19}	13.9	X	309.82671	42.57172	301.94288	8.87356	0.0244743	0.22906416	2.6454402	21	7 18.2	17.2
61959 2000 RS_{19}	14.2	X	157.29958	269.09397	208.75818	12.86863	0.1913141	0.17618982	3.1512450	21	7 2.3	19.7
61960 2000 RV_{19}	13.8	X	279.97747	177.11546	232.95023	7.66584	0.1171437	0.18419638	3.0592525	21	8 14.5	18.1
61961 2000 RC_{20}	13.9	X	259.69334	145.38569	319.81823	9.70590	0.0643149	0.18975906	2.9991697	21	10 4.4	18.2
61962 2000 RV_{20}	15.1	X	237.34345	6.40443	253.74459	6.07344	0.0740872	0.25661176	2.4525527	21	—	—
61963 2000 RY_{20}	14.8	X	274.79602	23.85795	247.82899	5.51890	0.0436503	0.21530369	2.7569893	21	2 19.5	18.7
61964 2000 RQ_{21}	14.5	X	223.14115	194.52712	194.70031	7.20033	0.1707581	0.22219767	2.6996640	21	5 13.9	18.9
61965 2000 RS_{22}	14.1	X	301.04218	125.19374	331.56817	9.87411	0.0579424	0.19345785	2.9608186	21	11 21.1	18.2
61966 2000 RU_{22}	16.1	X	345.13695	151.46795	225.08560	4.22302	0.2299145	0.23617192	2.5920928	21	10 31.1	18.1
61967 2000 RV_{23}	14.8	X	137.35843	67.69596	309.84650	4.87962	0.0615262	0.20909355	2.8113114	21	1 28.7	18.6
61968 2000 RW_{23}	16.1	X	235.47959	42.62241	260.13283	2.75383	0.2515996	0.26313740	2.4118354	21	1 31.2	20.3
61969 2000 RG_{24}	15.2	X	113.51531	19.34714	224.31794	8.23622	0.1549577	0.24034894	2.5619731	21	10 27.4	19.2
61970 2000 RV_{24}	14.6	X	62.69820	357.47805	255.31706	8.51665	0.0405091	0.18466227	3.0541048	21	8 17.9	19.0
61971 2000 RW_{24}	16.5	X	337.01962	209.72088	266.90737	7.09138	0.0748090	0.29647183	2.2274797	21	—	—
61972 2000 RB_{26}	15.1	X	50.66856	255.13021	206.14511	5.90817	0.1343248	0.25494964	2.4632006	21	1 7.8	17.5
61973 2000 RY_{26}	14.2	X	327.88173	129.73713	277.07494	8.63505	0.0885190	0.19058615	2.9904864	21	10 24.7	18.0
61974 2000 RC_{27}	14.8	X	321.64103	30.94343	202.33334	8.58947	0.1013279	0.21592111	2.7517310	21	2 21.5	18.6
61975 2000 RJ_{27}	14.1	X	130.64000	351.46588	243.12658	8.71506	0.0249745	0.19087703	2.9874474	21	10 18.5	18.5
61976 2000 RS_{27}	15.1	X	90.23148	94.19641	186.43626	16.79713	0.2544727	0.24154976	2.5534752	21	11 29.7	19.6
61977 2000 RK_{28}	15.5	X	274.54515	331.81705	321.67549	3.71277	0.2246663	0.26682333	2.3895723	21	2 21.9	19.3
61978 2000 RN_{28}	15.0	X	303.44960	86.68129	209.08794	4.94990	0.0431706	0.22081126	2.7109525	21	4 30.8	18.5
61979 2000 RO_{28}	15.5	X	346.19749	161.53941	190.59196	5.44665	0.1746514	0.28138172	2.3064221	21	10 1.1	17.1
61980 2000 RZ_{29}	14.8	X	312.21073	357.64713	242.70850	6.90953	0.0849127	0.21588506	2.7520373	21	2 19.8	18.6
61981 2000 RB_{30}	14.1	X	283.12480	201.17772	322.88110	10.10206	0.0740213	0.20037598	2.8922707	21	—	—
61982 2000 RL_{30}	13.7	X	229.54178	95.39692	327.81070	15.34258	0.0931665	0.17866486	3.1220747	21	7 10.9	18.6
61983 2000 RN_{30}	14.5	X	122.85639	291.25531	279.06469	7.47607	0.0738953	0.23330331	2.6132971	21	9 14.7	18.4
61984 2000 RR_{30}	14.6	X	240.45336	66.04292	331.20882	12.49685	0.1044155	0.17749643	3.1357611	21	6 16.4	19.5
61985 2000 RW_{30}	14.4	X	81.88306	345.22826	308.93465	8.07599	0.1016740	0.24015085	2.5633818	21	11 19.9	18.2
61986 2000 RY_{30}	14.5	X	294.50952	18.36948	261.44254	5.93325	0.1026305	0.26636449	2.3923158	21	3 9.8	17.7
61987 2000 RD_{31}	13.7	X	150.45988	206.79499	298.23745	8.28332	0.1617918	0.17723777	3.1388113	21	7 29.3	18.8
61988 2000 RN_{32}	14.5	X	266.23755	349.76353	335.34260	10.16150	0.0528510	0.21979646	2.7192903	21	4 14.3	18.5
61989 2000 RP_{32}	14.7	X	167.54599	155.66147	202.89684	12.79701	0.1372624	0.21085625	2.7956217	21	2 10.9	19.3
61990 2000 RG_{33}	14.4	X	6.42039	348.69527	348.84256	10.73814	0.1517954	0.18736390	3.0246754	21	9 29.7	17.9
61991 2000 RL_{33}	14.9	X	185.87468	50.90368	272.28154	4.12581	0.1194870	0.25656649	2.4528412	21	1 12.1	18.5
61992 2000 RN_{33}	14.7	X	204.04620	41.28589	336.43342	8.75712	0.1439431	0.21729506	2.7401193	21	4 8.6	19.2
61993 2000 RR_{33}	14.6	X	265.82424	339.33437	337.34640	4.76097	0.0565649	0.21827859	2.7318821	21	4 5.5	18.6
61994 2000 RT_{33}	14.9	X	213.92116	231.82206	193.93674	11.29151	0.1770258	0.22318973	2.6916582	21	6 18.7	19.5
61995 2000 RG_{34}	15.8	X	256.83985	83.91798	284.77199	5.60548	0.1371674	0.27168948	2.3609539	21	5 20.4	19.1
61996 2000 RO_{34}	15.3	X	93.49735	108.86385	223.35280	7.98602	0.1358799	0.24595128	2.5229191	21	—	—
61997 2000 RR_{34}	15.3	X	133.07577	318.70337	308.23777	5.02991	0.2250226	0.24466764	2.5317357	21	12 14.2	19.6
61998 2000 RT_{34}	15.3	X	68.78321	81.03018	327.95873	5.25962	0.0324628	0.25103570	2.4887373	21	—	—
61999 2000 RT_{35}	15.3	X	307.22693	135.55201	201.62681	13.68115	0.1137198	0.22674023	2.6634854	21	6 20.3	18.9
62000 2000 RA_{36}	14.4	X	179.22723	272.58603	180.98609	10.94701	0.1130384	0.17452961	3.1711976	21	6 22.6	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62001 2000 RK_{36}	15.5	X	305.20582	164.34723	155.37658	3.69552	0.0741719	0.22394815	2.6855778	21	5 31.4	18.9
62002 2000 RT_{37}	14.5	X	202.78029	342.13633	336.49912	26.70539	0.1707088	0.21491815	2.7602854	21	2 6.8	19.2
62003 2000 RB_{38}	14.9	X	167.99622	353.68487	13.25079	7.16363	0.1043719	0.21169838	2.7882028	21	2 25.0	19.1
62004 2000 RG_{38}	15.5	X	359.38305	294.71144	39.34181	2.41952	0.1426257	0.23359098	2.6111511	21	9 21.6	18.1
62005 2000 RP_{38}	14.7	X	328.54082	336.85828	49.22359	6.55479	0.1130984	0.27768548	2.3268440	21	10 17.9	16.8
62006 2000 RQ_{38}	15.1	X	215.10612	4.90076	53.86218	10.83440	0.2526720	0.26793379	2.3829653	21	6 5.7	19.1
62007 2000 RP_{39}	15.8	X	282.32528	285.42857	31.74910	2.80578	0.2118620	0.26812065	2.3818580	21	4 2.9	19.2
62008 2000 RR_{39}	13.4	X	189.63998	86.98035	52.14432	6.35393	0.1050560	0.17510438	3.1642543	21	8 31.2	18.4
62009 2000 RX_{39}	13.7	X	269.24746	189.50989	209.91058	28.44559	0.1923081	0.17729562	3.1381284	21	7 4.7	18.9
62010 2000 RX_{40}	13.9	X	53.22589	64.56811	262.75692	8.78518	0.0723533	0.19212829	2.9744626	21	11 16.3	18.0
62011 2000 RG_{41}	14.5	X	126.01453	153.66713	242.60249	8.15576	0.0793625	0.20937202	2.8088182	21	2 6.3	18.5
62012 2000 RJ_{41}	14.2	X	343.13639	6.89499	314.76844	8.91702	0.0855821	0.18194717	3.0844129	21	7 30.9	18.0
62013 2000 RM_{41}	15.3	X	308.17095	38.68147	267.21169	6.94276	0.1691637	0.27184209	2.3600702	21	4 23.5	18.3
62014 2000 RJ_{42}	14.2	X	45.02456	75.20090	260.63400	8.41811	0.1443168	0.19210195	2.9747345	21	11 27.3	18.2
62015 2000 RN_{42}	14.0	X	325.80380	55.30464	270.10926	8.37577	0.0439309	0.17923356	3.1154671	21	7 11.3	18.2
62016 2000 RP_{42}	14.0	X	38.73246	95.84651	251.00922	9.09713	0.1199781	0.19205901	2.9751778	21	11 29.5	18.0
62017 2000 RR_{42}	14.2	X	299.52961	353.45433	339.52486	13.50981	0.1438115	0.17817373	3.1278093	21	5 28.9	18.7
62018 2000 RV_{42}	14.0	X	22.90370	141.73155	229.13733	9.47917	0.1040397	0.19238640	2.9718016	21	12 6.0	17.8
62019 2000 RQ_{44}	13.9	X	155.89002	217.32111	238.30956	10.14786	0.0777467	0.17272931	3.1931944	21	5 31.3	18.7
62020 2000 RT_{45}	15.4	X	159.65669	115.74380	236.30295	3.54905	0.1406882	0.30274331	2.1966103	21	1 13.7	18.3
62021 2000 RL_{46}	15.6	X	0.46882	84.86286	270.34375	1.83826	0.1819097	0.28193277	2.3034158	21	11 8.2	17.5
62022 2000 RA_{48}	13.4	X	253.52349	60.88488	339.18897	12.04693	0.2274368	0.17644519	3.1482037	21	6 20.9	18.6
62023 2000 RQ_{48}	14.8	X	31.34932	119.39061	237.90101	13.78443	0.1573566	0.23777336	2.5804409	21	12 17.5	18.1
62024 2000 RF_{50}	14.5	X	49.42707	302.23708	37.26232	13.15686	0.1572930	0.23832309	2.5764713	21	12 16.9	18.2
62025 2000 RQ_{50}	13.5	X	240.65392	63.28530	39.34157	7.36107	0.1003273	0.17998641	3.1067734	21	9 10.5	18.1
62026 2000 RZ_{50}	14.0	X	336.43569	328.51653	40.02709	17.51966	0.2094401	0.18364276	3.0653978	21	9 25.2	17.4
62027 2000 RW_{52}	15.1	X	121.41029	19.64646	77.26070	7.42117	0.1100321	0.25793463	2.4441599	21	4 23.9	18.4
62028 2000 RE_{53}	15.1	X	154.60571	344.47165	94.12991	6.25850	0.0228995	0.22160854	2.7044465	21	5 3.2	18.9
62029 2000 RD_{55}	13.5	X	300.04066	44.35290	304.34893	10.33522	0.2275670	0.17809560	3.1287240	21	6 8.9	17.7
62030 2000 RK_{56}	14.0	X	38.39501	310.07050	345.17608	11.76418	0.2119668	0.23319892	2.6140769	21	10 9.9	17.3
62031 2000 RS_{56}	15.3	X	22.53619	65.59849	126.00206	4.27568	0.0186561	0.21561720	2.7543161	21	4 6.4	18.9
62032 2000 RG_{58}	15.2	X	190.81126	286.70782	358.06971	12.61893	0.0522188	0.20392706	2.8585962	21	—	—
62033 2000 RC_{59}	15.8	X	3.05386	125.10168	211.87881	3.31358	0.2287691	0.28220932	2.3019107	21	10 23.6	17.1
62034 2000 RE_{60}	15.8	X	260.29249	153.49271	180.64981	2.11609	0.1900728	0.26843659	2.3799887	21	4 4.2	19.5
62035 2000 RC_{62}	14.7	X	224.80373	114.60482	233.89218	12.65925	0.2054475	0.21257278	2.7805515	21	3 20.7	19.6
62036 2000 RJ_{62}	13.1	X	12.45536	228.76099	65.83667	17.43835	0.0913745	0.17494554	3.1661693	21	8 16.7	17.5
62037 2000 RQ_{62}	14.4	X	138.69589	131.58178	134.23833	4.92864	0.2132284	0.28483394	2.2877482	21	12 22.7	18.1
62038 2000 RX_{63}	14.1	X	204.63666	236.24323	233.86387	4.03158	0.1221057	0.17931194	3.1145591	21	8 5.5	19.0
62039 2000 RZ_{63}	14.1	X	320.90332	107.69136	256.09888	5.18404	0.1919289	0.18357893	3.0661084	21	8 7.1	17.6
62040 2000 RA_{64}	15.5	X	190.92956	116.81516	323.23223	4.55841	0.1948428	0.26812674	2.3818220	21	6 14.9	19.5
62041 2000 RD_{65}	15.2	X	63.40013	49.13043	285.28959	1.42815	0.0289347	0.24213683	2.5493462	21	12 11.8	18.7
62042 2000 RF_{65}	15.5	X	355.62898	254.53528	0.74121	23.80903	0.2961487	0.27371008	2.3493201	21	4 8.1	17.2
62043 2000 RH_{65}	13.9	X	175.31185	246.27468	170.30194	8.72910	0.0950772	0.17038978	3.2223572	21	5 6.7	18.9
62044 2000 RU_{65}	14.7	X	47.06711	197.16494	181.41860	10.50291	0.1554848	0.19563580	2.9388031	21	—	—
62045 2000 RV_{65}	15.7	X	240.58316	159.76155	170.39295	6.67120	0.1349917	0.26406605	2.4061776	21	3 15.1	19.4
62046 2000 RA_{66}	15.4	X	336.94024	170.74925	161.34041	8.14438	0.2437796	0.27774687	2.3265011	21	7 25.0	16.7
62047 2000 RE_{66}	15.9	X	236.22277	214.49407	113.26038	4.33977	0.3391490	0.26494350	2.4008620	21	3 1.8	20.4
62048 2000 RC_{67}	15.6	X	228.82059	22.42973	7.64571	2.63016	0.1724010	0.26824624	2.3811146	21	5 16.3	19.1
62049 2000 RH_{67}	15.8	X	199.75574	254.82213	129.52191	2.95335	0.2088680	0.26367120	2.4085791	21	4 14.3	19.9
62050 2000 RM_{67}	15.1	X	18.46792	290.85607	69.92484	5.47869	0.2203043	0.23742837	2.5829400	21	12 13.7	17.9
62051 2000 RV_{68}	14.3	X	274.96491	14.13302	13.54406	9.67149	0.0834607	0.18122714	3.0925772	21	7 20.9	18.8
62052 2000 RA_{69}	15.3	X	83.18518	232.52958	163.28131	1.22063	0.1049800	0.25100032	2.4889711	21	—	—
62053 2000 RB_{69}	13.9	X	195.11052	216.52982	194.23483	4.78295	0.1590381	0.17204610	3.2016425	21	5 17.4	19.1
62054 2000 RD_{69}	14.1	X	217.24820	9.63474	356.45396	5.16642	0.1522368	0.17098336	3.2148952	21	4 12.2	19.3
62055 2000 RF_{69}	14.9	X	215.93882	135.94407	192.43596	7.22219	0.1769946	0.21417541	2.7666633	21	2 20.7	19.6
62056 2000 RS_{69}	14.2	X	323.70682	163.84566	183.81298	9.52384	0.0832160	0.18180619	3.0860073	21	8 1.6	18.3
62057 2000 RY_{69}	15.2	X	93.94412	260.55991	55.42429	1.80940	0.2051343	0.24468269	2.5316319	21	—	—
62058 2000 RN_{70}	14.9	X	117.53932	27.69867	45.09046	4.15259	0.0844562	0.21278942	2.7786639	21	3 18.9	18.7
62059 2000 RO_{70}	15.9	X	61.87218	260.42508	39.55446	2.81143	0.1898067	0.23913400	2.5706434	21	11 17.3	19.5
62060 2000 RB_{71}	15.9	X	242.16068	184.28062	155.71399	9.68365	0.2311313	0.26677758	2.3898455	21	3 25.1	19.9
62061 2000 RU_{71}	15.3	X	43.93219	199.50210	147.03025	5.37932	0.1938027	0.24077460	2.5589528	21	12 26.3	18.8
62062 2000 RV_{71}	15.0	X	47.56780	312.08715	20.97391	13.41440	0.1534419	0.23970758	2.5665410	21	12 4.9	18.6
62063 2000 RA_{72}	16.0	X	176.59173	297.91036	5.30501	6.14041	0.1843153	0.29972865	2.2113147	21	—	—
62064 2000 RA_{73}	15.2	X	244.10674	137.16637	307.24946	0.91285	0.2226536	0.27620050	2.3351767	21	8 8.5	18.5
62065 2000 RH_{73}	14.4	X	162.28867	300.66448	178.55711	2.89762	0.0467543	0.22537142	2.6742591	21	7 4.8	18.3
62066 2000 RM_{73}	14.8	X	280.30610	202.90740	125.49883	3.04362	0.0479855	0.22294123	2.6936580	21	5 13.1	18.4
62067 2000 RG_{74}	13.8	X	97.48010	197.41640	36.61323	15.16695	0.0553539	0.23162189	2.6259290	21	9 24.3	17.6
62068 2000 RF_{75}	15.3	X	155.39579	19.49746	0.54354	4.90905	0.0718506	0.21294037	2.7773507	21	2 23.2	19.4
62069 2000 RK_{76}	14.9	X	181.96794	304.70186	145.38374	28.08365	0.1262621	0.22841538	2.6504472	21	6 24.2	19.6
62070 2000 RC_{77}	13.5	X	104.69844	187.70839	68.89854	10.42085	0.0248618	0.18286368	3.0740982	21	10 20.1	18.0
62071 Voegtli	15.0	X	56.97501	195.24038	159.03948	12.97359	0.2018629	0.24293731	2.5437430	21	—	—
62072 2000 RD_{78}	14.9	X	28.99386	103.01335	218.79191	7.98196	0.2125134	0.23694892	2.5864230	21	11 6.3	17.8
62073 2000 RX_{78}	15.0	X	268.24454	69.54356	242.70801	5.31581	0.1405003	0.26646406	2.3917197	21	3 17.4	18.4
62074 2000 RL_{79}	13.7	X	74.94156	336.59115	334.69369	21.71272	0.0463661	0.23712126	2.5851697	21	11 21.6	17.8
62075 2000 RO_{79}	14.0	X	293.32058	99.79999	223.26724	11.66181	0.2764388	0.22692064	2.6620735	21	4 16.5	17.7
62076 2000 RH_{80}	14.0	X	177.09279	229.97244	226.61062	12.00946	0.1417529	0.17708894	3.1405696	21	6 23.6	19.2
62077 2000 RE_{81}	15.0	X	80.58635	0.73842	242.21717	14.14166	0.0659417	0.23484185	2.6018708	21	9 2.1	18.9
62078 2000 RS_{81}	14.4	X	184.06955	288.24999	218.26670	12.63726	0.0938689	0.23352720	2.6116265	21	8 30.8	18.6
62079 2000 RX_{81}	13.4	X	208.83923	62.80020	294.21040	14.01246	0.0728242	0.17051207	3.2208163	21	3 20.6	18.6
62080 2000 RG_{82}	14.5	X	167.84583	212.54303	229.11463	11.92554	0.0519931	0.22272106	2.6954329	21	5 23.6	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62081 2000 RS_{82}	14.5	X	229.84530	183.97511	216.03623	11.51892	0.1843913	0.22412121	2.6841951	21	6 1.2	18.9
62082 2000 RZ_{82}	15.0	X	277.63350	192.28128	222.57236	13.71495	0.1353052	0.23288369	2.6164353	21	8 15.4	18.7
62083 2000 RF_{84}	15.7	X	109.50153	252.99919	128.34099	6.17987	0.2225351	0.25595368	2.4567547	21	1 11.6	18.5
62084 2000 RA_{86}	14.2	X	281.03452	324.27670	18.90171	9.25147	0.0850799	0.17585570	3.1552353	21	5 27.4	18.7
62085 2000 RO_{87}	15.2	X	354.95420	357.06602	181.51097	2.73862	0.1227469	0.25954462	2.4340418	21	1 17.9	17.8
62086 2000 RY_{87}	14.6	X	199.52483	31.28038	288.97755	4.49600	0.0418305	0.21126485	2.7920159	21	1 26.9	18.5
62087 2000 RC_{88}	14.3	X	223.28355	86.08653	270.60602	11.15576	0.0165910	0.21926452	2.7236867	21	4 5.0	18.4
62088 2000 RY_{88}	14.4	X	236.85660	240.83108	256.63109	8.53971	0.1290868	0.19165147	2.9793941	21	10 9.9	19.0
62089 2000 RM_{89}	15.4	X	121.99137	69.47278	217.06035	7.42790	0.0827904	0.24518891	2.5281461	21	12 24.8	19.2
62090 2000 RR_{91}	15.4	X	223.82707	132.79875	206.57127	8.66886	0.1987427	0.21663554	2.7456778	21	3 11.0	20.1
62091 2000 RW_{91}	16.0	X	310.14992	48.41668	223.37553	2.54377	0.1619564	0.26792766	2.3830017	21	3 12.5	19.0
62092 2000 RM_{92}	15.4	X	327.34684	127.80567	241.25731	5.38509	0.1394216	0.27916581	2.3186110	21	9 11.9	17.6
62093 2000 RQ_{92}	15.6	X	59.71398	263.33970	45.10969	5.77784	0.1579274	0.23928140	2.5695876	21	11 21.1	19.2
62094 2000 RU_{92}	14.7	X	275.89316	74.57047	230.93669	4.63919	0.0505690	0.21809459	2.7334184	21	4 4.8	18.6
62095 2000 RW_{92}	14.5	X	285.49770	321.16424	59.12695	1.46297	0.1688098	0.18047044	3.1012158	21	7 9.7	18.7
62096 2000 RF_{94}	14.4	X	247.26334	335.70918	296.74615	3.28203	0.0264014	0.20957365	2.8070163	21	1 24.1	18.4
62097 2000 RJ_{94}	15.4	X	111.24392	133.41986	182.04120	3.39034	0.1742945	0.24638158	2.5199808	21	—	—
62098 2000 RO_{94}	15.9	X	185.86846	184.30860	220.81109	1.68657	0.1046475	0.26559738	2.3969199	21	4 24.6	19.5
62099 2000 RP_{94}	16.1	X	253.28134	101.97350	186.93790	2.18247	0.1882649	0.26290372	2.4132643	21	1 31.3	20.0
62100 2000 RA_{95}	15.3	X	54.84340	233.19093	53.31356	4.25708	0.2545130	0.23713066	2.5851014	21	11 1.4	18.9
62101 2000 RC_{95}	13.9	X	224.81853	61.76613	27.30624	11.44520	0.2108492	0.17802625	3.1295365	21	7 29.0	19.2
62102 2000 RE_{95}	15.1	X	88.04477	48.64177	57.97087	2.86923	0.1556420	0.25933301	2.4353657	21	3 27.8	17.7
62103 2000 RS_{95}	15.1	X	122.12991	297.65984	115.69067	4.99701	0.0980718	0.21064879	2.7974569	21	3 2.2	19.0
62104 2000 RZ_{95}	17.0	X	318.13561	184.05982	145.78991	2.72594	0.2249098	0.27619976	2.3351808	21	6 8.7	19.1
62105 2000 RN_{96}	14.4	X	25.41444	357.55033	314.35553	13.56774	0.1950967	0.23598104	2.5934904	21	10 6.0	17.5
62106 2000 RC_{97}	14.6	X	84.40289	72.52590	200.14538	22.47893	0.2216770	0.28840327	2.2688333	21	11 17.8	18.3
62107 2000 RF_{97}	13.3	X	262.24046	126.62243	285.22564	20.99510	0.1039497	0.18311334	3.0713034	21	7 26.3	17.8
62108 2000 RS_{97}	13.7	X	8.63145	337.93496	247.12704	22.06628	0.0798245	0.17371199	3.1811405	21	4 30.9	18.0
62109 2000 RT_{97}	14.4	X	186.25332	209.92071	227.22994	20.90140	0.0458197	0.22355013	2.6887645	21	6 7.4	18.4
62110 2000 RX_{97}	13.8	X	64.13716	357.97160	272.68323	15.11881	0.0901990	0.23432839	2.6056702	21	9 19.3	17.7
62111 2000 RG_{99}	14.0	X	140.32794	259.35699	250.90630	12.70756	0.1234157	0.22700640	2.6614030	21	7 21.8	18.3
62112 2000 RM_{99}	13.7	X	10.17905	167.81106	274.48640	11.49308	0.1457443	0.19974552	2.8983534	21	—	—
62113 2000 RP_{99}	13.9	X	161.02934	195.11040	229.14073	13.58705	0.1115094	0.17067953	3.2187093	21	4 29.6	18.9
62114 2000 RV_{99}	12.1	X	281.25323	64.92063	278.55072	16.13266	0.1805988	0.08342509	5.1872630	21	5 20.2	19.1
62115 2000 RW_{99}	14.2	X	25.62038	130.83818	251.84978	10.96365	0.1758738	0.24294839	2.5436657	21	—	—
62116 2000 RC_{101}	14.3	X	99.68797	28.12674	255.43818	13.75492	0.0968946	0.24040471	2.5615769	21	11 27.7	18.0
62117 2000 RC_{102}	13.2	X	195.02415	220.92119	210.69054	27.15821	0.1937857	0.17352546	3.1834198	21	6 8.2	18.9
62118 2000 RG_{102}	14.0	X	182.65692	177.38196	289.53111	10.68175	0.0415289	0.17789591	3.1310649	21	7 13.1	18.6
62119 2000 RH_{102}	14.0	X	334.48881	80.52313	285.46358	9.36874	0.1470576	0.18537618	3.0462586	21	9 6.2	17.6
62120 2000 RL_{102}	14.6	X	295.42811	224.60756	225.11797	15.19164	0.1142227	0.23788784	2.5796130	21	11 9.9	17.5
62121 2000 RO_{102}	14.9	X	343.38990	122.95903	221.31008	13.48719	0.1314092	0.23252860	2.6190983	21	8 28.3	18.0
62122 2000 RS_{102}	13.9	X	137.77561	283.68613	312.52846	11.46130	0.1640561	0.23974285	2.5662892	21	11 6.1	18.3
62123 2000 RC_{103}	14.3	X	350.77628	46.09244	285.79974	8.52940	0.0644617	0.23201764	2.6229421	21	8 25.5	17.5
62124 2000 RP_{103}	14.0	X	340.67769	187.51755	232.96169	14.22711	0.0850075	0.24096394	2.5576121	21	12 16.0	17.0
62125 2000 RU_{104}	14.1	X	307.84922	21.56658	313.31625	11.31924	0.1368001	0.17878131	3.1207188	21	6 16.9	18.2
62126 2000 RW_{104}	14.1	X	299.51887	68.71434	310.87031	11.48854	0.1182281	0.18126788	3.0921139	21	8 5.1	17.9
62127 2000 RY_{105}	15.4	X	339.82699	241.29948	143.82619	9.70540	0.0654558	0.23794719	2.5791840	21	10 30.4	18.6
62128 2000 SO_{1}	12.3	X	268.99486	44.11519	333.16692	26.69168	0.2245734	0.17673717	3.1447354	21	6 6.5	17.6
62129 2000 SR_{1}	14.9	X	212.03415	230.11411	107.06255	24.15637	0.2753412	0.26168394	2.4207578	21	3 2.8	19.6
62130 2000 SS_{1}	15.6	X	27.21088	140.90403	203.44892	4.24851	0.2935385	0.23931117	2.5693744	21	12 17.2	18.8
62131 2000 SH_{4}	14.1	X	8.37094	339.35825	33.02711	11.08211	0.1062405	0.19035309	2.9929268	21	11 14.6	17.8
62132 2000 SJ_{4}	15.7	X	251.68601	295.68466	39.46912	6.78436	0.1447210	0.26656977	2.3910874	21	4 2.6	19.2
62133 2000 SD_{5}	15.2	X	347.48018	284.90298	25.54202	22.99587	0.2159744	0.27866624	2.3213813	21	8 3.8	17.6
62134 2000 SJ_{5}	14.7	X	294.90646	336.93616	356.98172	10.26604	0.1083864	0.17755445	3.1350780	21	5 29.8	19.2
62135 2000 SA_{6}	14.9	X	11.87110	221.63817	58.34695	24.78517	0.2179376	0.27856315	2.3219540	21	8 19.8	17.5
62136 2000 SR_{6}	15.6	X	295.15147	52.74828	283.14413	5.06490	0.2023534	0.27704019	2.3304558	21	5 13.0	18.6
62137 2000 SM_{7}	14.1	X	109.24894	142.00975	349.40994	13.09701	0.0875452	0.17035659	3.2227757	21	5 20.3	19.0
62138 2000 SO_{8}	16.0	X	204.47174	86.73268	62.53926	7.31604	0.0447524	0.28391099	2.2927036	21	10 14.2	18.9
62139 2000 SB_{12}	15.6	X	31.46112	313.53619	7.17702	2.99110	0.2361585	0.24087371	2.5582507	21	11 12.2	18.5
62140 2000 SG_{12}	15.7	X	283.04255	246.84927	90.68225	3.57792	0.2587075	0.27466510	2.3438711	21	4 25.1	19.1
62141 2000 SK_{12}	15.1	X	301.56150	350.58605	26.17986	4.38622	0.2147999	0.28038709	2.3118733	21	7 25.3	17.3
62142 2000 SQ_{13}	15.1	X	276.86014	192.38473	73.93553	4.82706	0.0060516	0.21476914	2.7615620	21	2 25.2	18.9
62143 2000 SJ_{14}	14.7	X	24.96121	269.57657	263.15570	11.65725	0.0784671	0.21816856	2.7328006	21	3 6.9	18.4
62144 2000 SU_{15}	14.9	X	147.27830	256.26047	228.02369	12.31114	0.1256926	0.22364891	2.6879727	21	6 27.8	19.2
62145 2000 SH_{16}	13.2	X	157.30730	148.80896	299.20393	7.19855	0.1558273	0.12500604	3.9614003	21	5 28.2	19.4
62146 2000 SV_{16}	14.9	X	122.59886	71.92608	211.54890	10.39936	0.0067421	0.19586942	2.9364658	21	12 9.7	19.1
62147 2000 SB_{18}	14.6	X	144.07118	262.36156	273.91414	7.67366	0.0794935	0.18293562	3.0732923	21	8 23.7	19.4
62148 2000 SQ_{18}	15.2	X	201.24908	25.60556	311.02820	12.91840	0.0206118	0.21347486	2.7727128	21	2 15.4	19.0
62149 2000 ST_{19}	13.3	X	307.07364	94.17982	292.54742	9.10853	0.1691713	0.18342919	3.0677767	21	8 16.6	17.1
62150 2000 SE_{20}	14.2	X	198.80070	188.29363	326.29738	13.31582	0.0765592	0.18507801	3.0495294	21	9 22.5	19.0
62151 2000 SZ_{20}	15.0	X	243.15731	66.66775	267.36418	6.85348	0.1608958	0.26515557	2.3995817	21	3 16.9	19.0
62152 2000 SC_{21}	14.5	X	23.70026	87.61255	254.22911	2.80063	0.1190667	0.23674494	2.5879085	21	11 10.0	17.6
62153 2000 SD_{21}	14.6	X	183.98920	167.72822	210.99798	12.51748	0.0657577	0.21414031	2.7669656	21	3 20.9	18.8
62154 2000 SH_{22}	14.7	X	307.32806	299.17754	136.09368	12.38934	0.1304001	0.19027003	2.9937977	21	11 3.6	18.5
62155 2000 SD_{23}	15.4	X	264.02827	232.00837	202.01875	3.62535	0.1646659	0.27727064	2.3291643	21	8 25.8	18.2
62156 2000 SL_{23}	14.8	X	301.70658	177.76585	180.95847	13.55371	0.1926593	0.22544675	2.6736634	21	6 29.2	18.3
62157 2000 SH_{24}	16.2	X	80.76402	68.76673	195.73969	21.11549	0.0282557	0.37446080	1.9063317	21	10 23.9	17.9
62158 2000 SK_{25}	15.0	X	53.79418	205.93745	214.60484	13.48282	0.0983095	0.25518260	2.4617012	21	—	—
62159 2000 SO_{25}	14.7	X	202.36378	171.84340	248.25248	10.91199	0.1661291	0.22586287	2.6703785	21	6 1.4	19.0
62160 2000 ST_{25}	15.2	X	344.39000	134.08568	191.71563	13.88404	0.1706234	0.23402456	2.6079249	21	8 2.9	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62161 2000 SU_{25}	15.5	X	27.07989	317.93785	243.60722	7.64100	0.0704338	0.27144585	2.3623663	21	4 16.5	18.0
62162 2000 SJ_{26}	14.3	X	84.27541	76.87112	245.17045	10.95643	0.0494604	0.19755030	2.9197853	21	12 15.5	18.4
62163 2000 SE_{27}	14.1	X	211.26152	219.73053	239.86043	11.35435	0.1167035	0.18058825	3.0998670	21	7 28.2	19.1
62164 2000 SB_{28}	14.4	X	276.13438	138.26308	329.10534	8.71408	0.0300760	0.19202238	2.9755562	21	11 3.3	18.6
62165 2000 SM_{29}	14.5	X	250.46299	89.77556	314.37044	4.10144	0.1700147	0.18019736	3.1043482	21	6 28.8	19.2
62166 2000 SM_{30}	16.4	X	41.50230	290.46774	5.09274	0.99732	0.1762959	0.28416921	2.2913145	21	10 21.4	19.0
62167 2000 SG_{31}	15.7	X	178.52391	228.45845	182.51565	2.67226	0.0738337	0.21957734	2.7210991	21	4 27.5	19.6
62168 2000 SK_{32}	15.8	X	308.22291	120.64252	128.25546	3.02658	0.1915546	0.26578356	2.3958004	21	2 4.9	19.2
62169 2000 SZ_{32}	15.9	X	229.39053	231.95726	126.26475	2.71766	0.1002983	0.21954077	2.7214013	21	4 15.6	20.1
62170 2000 SD_{33}	15.7	X	298.33637	156.44403	129.40539	4.29222	0.1521947	0.26856012	2.3792589	21	3 20.4	18.7
62171 2000 SH_{33}	14.9	X	259.15163	275.40603	100.10011	3.25354	0.1114551	0.22517946	2.6757787	21	6 7.9	18.6
62172 2000 SV_{34}	16.0	X	336.95784	198.08363	140.72873	0.96297	0.1692385	0.23218220	2.6217026	21	8 11.0	18.5
62173 2000 SW_{34}	14.5	X	190.72935	311.25955	155.17001	2.93886	0.0450132	0.18047351	3.1011807	21	7 21.5	19.1
62174 2000 SX_{35}	15.1	X	27.50086	217.84626	161.52768	1.63729	0.0674623	0.19549809	2.9401831	21	12 18.5	19.0
62175 2000 SZ_{35}	16.1	X	45.52163	141.90254	175.28166	3.95245	0.1695869	0.23916070	2.5704521	21	11 17.9	19.4
62176 2000 SJ_{36}	15.1	X	16.17317	294.37724	33.03856	8.89069	0.0985254	0.23519552	2.5992617	21	10 8.7	18.1
62177 2000 SG_{37}	15.1	X	222.60545	219.42605	112.84466	3.18782	0.0849480	0.21526147	2.7573497	21	3 8.5	19.1
62178 2000 SN_{37}	15.3	X	264.42395	236.28388	153.56428	3.32316	0.0807493	0.22767165	2.6562161	21	7 7.8	18.8
62179 2000 SR_{37}	15.0	X	99.39348	222.91981	23.71881	15.37778	0.1095451	0.23599961	2.5933543	21	10 13.5	18.6
62180 2000 SA_{38}	14.9	X	293.00624	60.54921	30.84290	10.02203	0.0581114	0.19103715	2.9857779	21	11 4.6	18.8
62181 2000 SC_{38}	14.9	X	146.58042	258.15825	116.14655	3.81859	0.0631229	0.20963687	2.8064519	21	2 5.0	18.7
62182 2000 SD_{38}	15.2	X	287.05985	311.15572	163.66897	5.05661	0.0426194	0.24183820	2.5514444	21	12 9.8	18.4
62183 2000 SM_{38}	15.6	X	122.51138	89.86711	152.80399	3.58855	0.0525240	0.23811177	2.5779954	21	10 30.6	19.2
62184 2000 SQ_{38}	14.7	X	302.50001	341.00650	91.11451	4.90221	0.0772249	0.23710702	2.5852732	21	11 2.4	17.7
62185 2000 SK_{39}	14.4	X	357.94858	344.74306	35.53686	11.65186	0.1163050	0.19031907	2.9932834	21	11 9.9	18.1
62186 2000 SS_{39}	16.3	X	276.37275	222.28368	121.83280	4.65208	0.1411662	0.31864500	2.1229087	21	5 9.4	18.8
62187 2000 SB_{40}	14.9	X	260.75010	213.87024	87.63618	6.41694	0.1025760	0.21605873	2.7505624	21	3 11.6	19.0
62188 2000 SK_{41}	14.6	X	259.06578	44.03976	100.06209	4.02663	0.0491574	0.19392642	2.9560474	21	11 28.9	18.7
62189 2000 SQ_{41}	14.4	X	157.85465	178.23300	43.74557	9.96633	0.0215873	0.19137810	2.9822306	21	11 6.0	18.6
62190 Augusthorch	14.9	X	59.63429	271.54591	33.68983	5.95132	0.2931187	0.23942058	2.5685916	21	12 3.4	18.8
62191 2000 SX_{45}	15.0	X	44.64111	345.22883	276.24874	13.65871	0.0842916	0.23364598	2.6107413	21	8 11.9	18.5
62192 2000 SL_{46}	15.0	X	297.34358	223.60570	221.74426	12.69138	0.1252835	0.24176243	2.5519775	21	11 6.6	17.7
62193 2000 SS_{47}	13.1	X	165.91618	154.91886	286.62453	11.99091	0.1739780	0.17421858	3.1749709	21	5 27.2	18.4
62194 2000 SV_{47}	15.0	X	50.92374	295.14426	262.17897	7.61728	0.0683612	0.22498572	2.6773146	21	5 25.8	18.4
62195 2000 SM_{48}	14.8	X	314.23057	161.22977	223.74915	11.04504	0.1281687	0.23523898	2.5989416	21	9 3.8	17.8
62196 2000 SD_{49}	15.0	X	25.78744	127.45109	192.62228	10.20452	0.0398629	0.18899185	3.0072809	21	9 27.8	19.0
62197 2000 SQ_{51}	14.1	X	198.85620	217.96199	292.93235	11.16302	0.1318379	0.18713541	3.0271369	21	9 14.2	19.0
62198 2000 SS_{52}	14.8	X	158.70569	208.59331	36.08637	8.69154	0.0347749	0.24374143	2.5381453	21	12 12.7	18.3
62199 2000 SC_{53}	14.5	X	282.25310	1.85567	33.15012	10.58072	0.0874373	0.18305000	3.0720119	21	8 10.4	18.9
62200 2000 SX_{53}	15.4	X	226.65897	256.60593	231.72213	2.15798	0.0530328	0.23588461	2.5941971	21	10 3.6	18.8
62201 2000 SW_{54}	12.3	X	301.73358	130.89432	185.23730	4.61552	0.0597152	0.08216127	5.2403219	21	5 30.8	19.1
62202 2000 SY_{54}	15.1	X	30.04065	11.11745	200.43028	1.43617	0.0657504	0.22219049	2.6997221	21	5 13.5	18.4
62203 2000 SA_{55}	14.2	X	24.23237	157.60855	359.69650	3.61472	0.0471616	0.21335526	2.7737489	21	2 22.2	17.7
62204 2000 SP_{55}	15.3	X	51.47661	202.68679	331.92664	4.34485	0.0517365	0.21947822	2.7219183	21	4 22.2	18.8
62205 2000 SQ_{56}	16.4	X	350.06641	58.35329	202.82055	1.96633	0.1823340	0.27294096	2.3537314	21	5 2.8	18.3
62206 2000 SQ_{58}	15.3	X	241.36104	115.03052	333.40509	1.24625	0.1530995	0.18161849	3.0881331	21	8 15.1	19.8
62207 2000 SX_{58}	15.3	X	277.77537	123.73604	357.32156	3.50258	0.0931908	0.24075427	2.5590968	21	11 26.9	18.3
62208 2000 SL_{60}	15.3	X	306.01279	211.36982	358.78524	3.75151	0.0438739	0.21000627	2.8031600	21	1 16.4	19.1
62209 2000 SF_{61}	15.8	X	60.43619	254.09784	91.79040	2.82292	0.1150885	0.24290654	2.5439578	21	—	—
62210 2000 SN_{61}	15.6	X	70.41184	136.56934	140.46886	1.82487	0.0863083	0.23625511	2.5914843	21	10 15.4	18.9
62211 2000 SO_{61}	15.1	X	107.21365	287.90580	159.97376	2.94780	0.0723590	0.21383328	2.7696136	21	3 22.1	18.8
62212 2000 SA_{62}	15.2	X	342.86381	46.45474	181.67597	9.29039	0.2807896	0.26760042	2.3849440	21	2 7.1	17.8
62213 2000 SL_{63}	14.3	X	263.09681	270.86687	123.72519	3.51098	0.1065963	0.17940561	3.1134749	21	7 8.6	18.7
62214 2000 SU_{63}	15.2	X	224.81095	318.13218	195.16268	5.79135	0.0503076	0.23839486	2.5759541	21	11 5.3	18.6
62215 2000 SY_{63}	14.9	X	281.33943	141.72724	132.74095	4.44868	0.0342977	0.21486474	2.7607428	21	3 8.1	18.6
62216 2000 SE_{64}	15.9	X	320.32060	181.80439	117.89172	3.45558	0.1705119	0.27271311	2.3550423	21	5 7.8	18.2
62217 2000 SJ_{64}	15.5	X	106.60085	53.29573	187.34872	13.59465	0.1195051	0.23623101	2.5916605	21	10 15.1	19.3
62218 2000 SA_{65}	15.4	X	153.72617	244.63042	10.13946	6.49322	0.1587823	0.24511142	2.5286789	21	12 16.9	19.5
62219 2000 SY_{65}	14.9	X	233.84637	13.37571	17.40117	3.61981	0.1215287	0.17578292	3.1561062	21	5 29.9	19.7
62220 2000 ST_{66}	14.2	X	303.49386	190.45702	195.13147	9.19213	0.1007663	0.18365308	3.0652829	21	8 18.9	18.3
62221 2000 SA_{67}	15.5	X	356.75642	269.87665	78.21614	2.89906	0.3148540	0.23558931	2.5963645	21	10 28.3	17.0
62222 2000 SB_{67}	15.5	X	95.39103	281.94891	25.23167	14.85079	0.1325459	0.24320241	2.5418942	21	12 25.4	19.6
62223 2000 SG_{67}	15.2	X	319.86909	198.11309	7.42903	12.94933	0.0091758	0.21039350	2.7997194	21	2 6.0	19.2
62224 2000 SJ_{67}	15.5	X	85.10870	285.40849	8.67549	4.40177	0.0847860	0.23992814	2.5649679	21	11 22.5	19.0
62225 2000 SZ_{67}	15.6	X	229.11355	216.59125	52.83740	3.16470	0.1795037	0.25711954	2.4493226	21	—	—
62226 2000 SD_{68}	15.0	X	21.30652	291.84849	151.05104	2.41092	0.0462014	0.20153073	2.8812119	21	—	—
62227 2000 SQ_{68}	16.1	X	243.06629	220.95329	182.05501	6.81246	0.0991523	0.27303986	2.3531630	21	6 25.7	19.3
62228 2000 SK_{69}	15.9	X	213.96009	238.64054	99.41471	2.56509	0.1959541	0.26243341	2.4161467	21	2 28.0	19.8
62229 2000 SV_{70}	15.5	X	205.08100	242.08972	114.13401	2.84393	0.0858650	0.21489373	2.7604945	21	3 19.7	19.6
62230 2000 SN_{71}	15.2	X	287.48035	181.89903	66.71774	5.41072	0.0205135	0.21132720	2.7914667	21	2 14.8	19.1
62231 2000 SQ_{71}	15.1	X	210.20760	228.43702	158.01185	6.53282	0.0906530	0.21894202	2.7263606	21	5 2.3	19.3
62232 2000 SM_{72}	14.9	X	293.53114	281.80363	36.71192	14.77638	0.1230411	0.22269911	2.6956101	21	5 3.8	18.6
62233 2000 SP_{72}	14.6	X	285.97473	2.43417	31.06016	14.93204	0.1528052	0.22921125	2.6443083	21	8 7.6	18.3
62234 2000 SA_{73}	14.7	X	18.18530	309.21206	107.17387	3.13406	0.0952463	0.19655994	2.9295846	21	—	—
62235 2000 SJ_{73}	15.8	X	222.31968	232.74298	72.21725	3.85741	0.1918366	0.25994112	2.4315660	21	1 26.3	19.7
62236 2000 SK_{73}	14.3	X	256.13726	296.21797	52.10725	6.41562	0.1586934	0.17396449	3.1780616	21	4 28.8	19.1
62237 2000 SU_{73}	15.9	X	261.01910	155.40469	145.19390	5.24307	0.1973927	0.26465529	2.4026047	21	2 21.6	19.7
62238 2000 SF_{74}	15.5	X	231.73806	251.07340	73.84966	6.53224	0.1072255	0.21476237	2.7616200	21	3 10.1	19.8
62239 2000 SQ_{74}	14.6	X	178.53865	311.31175	38.83951	9.69802	0.1627989	0.21075247	2.7965393	21	2 20.7	19.2
62240 2000 SM_{75}	15.9	X	317.75550	216.85603	106.03263	3.95296	0.2019535	0.27449615	2.3448328	21	6 1.4	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62241 2000 SW_{75}	13.3	X	187.86699	25.27463	43.23339	11.41615	0.2119660	0.12399699	3.9828623	21	5 31.1	19.9
62242 2000 SH_{76}	16.0	X	247.28031	219.40383	116.90531	3.62673	0.2357853	0.26660672	2.3908665	21	3 24.3	20.0
62243 2000 SO_{76}	14.1	X	76.19009	149.65524	162.23740	10.47275	0.0881530	0.19217619	2.9739683	21	11 29.9	18.6
62244 2000 SM_{77}	14.1	X	193.18269	103.91124	330.10689	2.48910	0.2330535	0.12692143	3.9214445	21	6 11.4	20.6
62245 2000 SQ_{77}	15.7	X	131.28283	126.12450	339.04478	1.20327	0.0246141	0.22043509	2.7140357	21	5 5.9	19.5
62246 2000 SK_{78}	15.4	X	97.18813	233.36094	21.17925	4.98835	0.1400498	0.23770587	2.5809293	21	10 23.2	19.0
62247 2000 SZ_{78}	15.4	X	330.96706	178.78558	8.80102	1.64233	0.0143269	0.20972613	2.8056556	21	1 23.4	19.2
62248 2000 SQ_{79}	14.0	X	125.41332	120.22797	27.93852	13.52682	0.0899885	0.17558693	3.1584542	21	7 4.1	19.0
62249 2000 SU_{79}	15.9	X	89.96334	219.43744	95.62523	1.71529	0.1181499	0.24373622	2.5381815	21	12 28.9	19.7
62250 2000 SY_{80}	15.2	X	255.91121	352.95491	104.53530	4.76804	0.0298733	0.23419644	2.6066488	21	10 7.5	18.6
62251 2000 SG_{81}	14.6	X	19.75773	193.80295	131.40226	4.81263	0.1332350	0.18744026	3.0238538	21	10 8.6	18.3
62252 2000 SW_{82}	15.2	X	252.19512	305.18092	51.43425	7.06159	0.0312105	0.22037719	2.7145111	21	5 15.4	19.0
62253 2000 SM_{83}	14.9	X	314.01309	270.59981	178.61347	10.31377	0.0645099	0.19300618	2.9654362	21	12 3.5	18.9
62254 2000 SR_{83}	16.1	X	118.63693	154.38348	144.76945	2.77170	0.1975826	0.24616018	2.5214915	21	—	—
62255 2000 SV_{83}	15.4	X	184.61556	250.36470	116.54181	1.63268	0.0850321	0.21355379	2.7720296	21	3 11.0	19.5
62256 2000 SC_{84}	16.3	X	345.56446	190.38908	182.61224	7.67773	0.2028014	0.23535088	2.5981178	21	10 26.4	18.4
62257 2000 SH_{85}	14.8	X	280.54730	258.57790	161.92434	10.15968	0.2090137	0.18158734	3.0884863	21	8 17.0	19.0
62258 2000 SJ_{85}	14.9	X	91.00317	222.55591	113.41197	5.92115	0.1109703	0.19696598	2.9255570	21	—	—
62259 2000 SQ_{85}	15.0	X	128.13025	347.63854	78.45903	5.51366	0.0511390	0.21224056	2.7834524	21	3 20.2	18.9
62260 2000 SS_{85}	14.4	X	181.36612	305.01949	103.85830	4.85048	0.0480059	0.21727494	2.7402885	21	4 28.8	18.3
62261 2000 SX_{85}	15.7	X	270.38767	356.04751	122.14805	3.99222	0.0693380	0.28487483	2.2875293	21	11 26.5	18.2
62262 2000 SO_{86}	14.4	X	323.43364	59.69037	48.24862	13.31397	0.1112185	0.19486596	2.9465381	21	—	—
62263 2000 SD_{87}	14.9	X	340.55388	302.21387	94.86532	5.52675	0.1863418	0.23608122	2.5927566	21	11 19.7	17.2
62264 2000 SA_{88}	14.4	X	127.38453	185.78928	177.38226	13.65610	0.0890748	0.20390009	2.8588482	21	1 3.1	18.7
62265 2000 SX_{88}	13.9	X	281.33575	9.53877	289.62110	18.10458	0.1323217	0.17441140	3.1726303	21	3 19.3	18.9
62266 2000 SZ_{88}	16.1	X	117.33931	123.09869	351.92828	6.77325	0.0718969	0.26706461	2.3881329	21	5 1.7	19.3
62267 2000 SA_{90}	14.3	X	342.27665	106.51231	249.42953	12.53411	0.1147666	0.23563564	2.5960242	21	9 12.0	17.5
62268 2000 SQ_{90}	15.1	X	224.04129	72.42286	238.53507	8.86942	0.3330823	0.26408968	2.4060340	21	1 29.9	19.8
62269 2000 SD_{91}	13.1	X	193.59076	12.47920	258.53465	15.96871	0.0656150	0.20108092	2.8855071	21	—	—
62270 2000 SJ_{91}	14.9	X	271.14515	227.53344	193.73287	9.50818	0.0670879	0.18657092	3.0332398	21	8 25.8	19.1
62271 2000 SC_{93}	15.0	X	30.72493	336.21083	248.98388	9.91027	0.1567146	0.22605449	2.6688692	21	6 10.6	17.7
62272 2000 SQ_{96}	15.3	X	73.68513	267.58590	246.51756	7.43367	0.0511590	0.22030936	2.7150682	21	4 27.1	18.8
62273 2000 ST_{97}	14.5	X	202.05999	215.43833	203.73773	14.94823	0.0249871	0.17576859	3.1562777	21	6 6.5	19.2
62274 2000 SH_{98}	15.1	X	12.45392	252.42141	294.39543	2.94564	0.0173816	0.21543293	2.7558864	21	3 14.0	18.8
62275 2000 SK_{98}	14.6	X	136.41864	218.63321	342.75965	8.81059	0.0523818	0.18588523	3.0406945	21	9 16.3	19.0
62276 2000 SN_{100}	14.7	X	138.97154	55.57911	250.63915	12.55149	0.1202012	0.24727531	2.5139051	21	—	—
62277 2000 SX_{100}	13.8	X	190.89280	175.98815	270.60652	14.36711	0.0742722	0.17414613	3.1758513	21	6 26.2	18.5
62278 2000 ST_{103}	14.4	X	235.26345	312.77598	205.78645	9.65295	0.1265507	0.19184151	2.9774262	21	11 7.4	18.7
62279 2000 SA_{105}	15.7	X	263.88934	242.59802	62.52591	3.44921	0.1734150	0.26502343	2.4003792	21	3 5.2	19.4
62280 2000 SX_{105}	16.0	X	182.44577	234.61128	340.45309	1.33694	0.0978518	0.28912726	2.2650443	21	12 6.7	19.0
62281 2000 SD_{106}	15.1	X	333.08591	356.19129	209.82508	5.72094	0.0141828	0.21183520	2.7870021	21	2 15.2	18.9
62282 2000 SS_{106}	14.6	X	259.28853	228.88493	206.73721	4.78197	0.1623346	0.18144937	3.0900516	21	8 16.0	19.1
62283 2000 SY_{107}	15.5	X	182.76173	318.00657	4.27028	2.96844	0.1071130	0.20820043	2.8193455	21	1 16.4	19.7
62284 2000 SD_{108}	15.1	X	345.29075	38.87032	12.97766	1.31555	0.1684914	0.19123450	2.9837233	21	12 4.4	18.2
62285 2000 SZ_{109}	15.3	X	223.38233	86.43404	204.45980	5.67134	0.1306082	0.25754403	2.4466305	21	1 8.7	19.1
62286 2000 SE_{110}	15.4	X	317.90705	63.28017	201.28178	4.90431	0.2093334	0.26782837	2.3835906	21	3 5.3	18.5
62287 2000 SG_{110}	13.9	X	138.81063	149.89525	357.19621	1.33554	0.1115608	0.17557279	3.1586238	21	7 18.4	18.7
62288 2000 SH_{110}	15.0	X	325.03926	3.71753	214.53692	2.11341	0.1364438	0.25995374	2.4314873	21	1 25.4	18.2
62289 2000 SX_{110}	15.3	X	281.92173	245.58519	34.70042	2.53703	0.1939390	0.26492189	2.4009926	21	2 17.3	18.7
62290 2000 SZ_{111}	16.8	X	260.86895	273.20169	45.90907	0.45915	0.2292387	0.26699892	2.3885245	21	3 13.6	20.6
62291 2000 SN_{112}	15.4	X	38.80824	271.93353	15.10143	9.58300	0.1810404	0.23311737	2.6146865	21	9 29.8	18.4
62292 2000 SO_{113}	15.2	X	318.64378	123.96088	170.86885	4.90468	0.1438184	0.22318996	2.6916564	21	5 7.3	18.4
62293 2000 SR_{113}	15.1	X	60.28862	211.44180	126.44947	2.66538	0.1136362	0.19360785	2.9592892	21	12 14.8	19.2
62294 2000 ST_{113}	15.0	X	151.60819	21.66503	37.98065	6.57175	0.0302891	0.21518744	2.7579820	21	4 5.4	18.9
62295 2000 SV_{114}	15.8	X	78.60860	185.48246	142.49860	0.69611	0.1681948	0.29056738	2.2575540	21	—	—
62296 2000 SU_{115}	15.7	X	148.75683	68.81281	30.56575	6.70104	0.0634750	0.26666006	2.3905476	21	5 21.1	18.9
62297 2000 SF_{116}	13.9	X	187.93324	90.43129	53.04070	5.67733	0.1110182	0.18064961	3.0991650	21	9 3.6	18.8
62298 2000 SK_{116}	14.1	X	55.67794	292.61129	69.11138	3.12399	0.1110536	0.19504970	2.9446873	21	—	—
62299 2000 SN_{116}	15.3	X	200.82328	330.36004	45.48291	3.49335	0.1756939	0.26369141	2.4084561	21	4 4.1	19.2
62300 2000 SY_{116}	13.4	X	257.04347	324.78887	36.98807	15.03483	0.0260091	0.17366583	3.1817042	21	5 28.7	18.0
62301 2000 SE_{117}	15.8	X	220.63609	193.18526	122.85450	2.97560	0.1956772	0.26049463	2.4281203	21	2 6.5	19.6
62302 2000 SJ_{117}	15.1	X	292.95581	86.87445	55.84145	4.83784	0.0695438	0.29121924	2.2541839	21	—	—
62303 2000 SL_{117}	14.2	X	151.05150	41.05158	65.28127	5.35548	0.0417675	0.17252235	3.1957477	21	6 5.5	18.7
62304 2000 SM_{117}	15.4	X	93.74582	239.59735	77.32905	3.37464	0.1265027	0.24296805	2.5435285	21	—	—
62305 2000 SP_{117}	15.1	X	175.70515	287.96336	68.95183	4.51621	0.1041103	0.21032389	2.8003371	21	2 20.5	19.4
62306 2000 SS_{117}	15.0	X	289.76806	172.72066	159.27554	5.42055	0.0351179	0.22188713	2.7021823	21	6 1.8	18.7
62307 2000 SA_{118}	15.0	X	283.46123	95.19905	189.01738	5.71804	0.0739007	0.21541014	2.7560809	21	3 15.7	18.9
62308 2000 SH_{118}	14.0	X	134.05728	271.82644	189.90032	11.99068	0.0665992	0.16931138	3.2360256	21	5 15.5	18.9
62309 2000 SL_{118}	15.1	X	158.88907	344.63999	37.86211	6.22096	0.1374932	0.25860370	2.4399423	21	3 3.8	18.7
62310 2000 SP_{118}	15.2	X	18.50376	247.45430	70.40420	3.35187	0.1214867	0.23288081	2.6164569	21	10 1.4	18.2
62311 2000 SF_{119}	14.3	X	298.03124	183.40406	194.65321	10.80110	0.1196938	0.18066732	3.0989625	21	7 28.9	18.6
62312 2000 SL_{119}	15.8	X	165.79862	150.31397	183.16302	5.57702	0.1361535	0.25419545	2.4680704	21	1 5.6	19.5
62313 2000 SM_{119}	14.5	X	232.14743	337.97315	39.11030	12.87447	0.1723840	0.22034429	2.7147813	21	5 5.3	19.0
62314 2000 SU_{119}	14.1	X	156.61917	0.17528	182.22170	9.72535	0.0355454	0.18315685	3.0708170	21	9 15.3	18.5
62315 2000 SV_{119}	14.7	X	274.93191	245.93795	65.92560	5.59989	0.1011569	0.21817032	2.7327859	21	4 8.7	18.5
62316 2000 SO_{120}	14.5	X	223.98463	9.75829	55.27851	5.68501	0.1293067	0.17579310	3.1559843	21	7 1.4	19.4
62317 2000 SU_{121}	15.2	X	215.65693	225.90382	156.09102	5.43416	0.1309816	0.21812241	2.7331860	21	4 30.6	19.5
62318 2000 SZ_{121}	14.6	X	22.21681	246.58656	38.76025	10.09871	0.0538915	0.22775069	2.6556016	21	8 17.7	18.1
62319 2000 SD_{122}	15.9	X	331.56592	173.31286	142.75211	2.71698	0.2155724	0.27511346	2.3413239	21	6 16.7	17.5
62320 2000 SC_{123}	15.3	X	215.29156	203.34704	184.86841	9.58454	0.1250259	0.21856607	2.7294861	21	5 8.2	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62321 2000 SP_{123}	13.6	X	124.15522	207.50023	46.94704	16.09529	0.1084029	0.23741513	2.5830360	21	11 16.6	17.5
62322 2000 ST_{123}	15.4	X	341.49565	156.04993	170.56934	7.46383	0.1419432	0.22859292	2.6490747	21	8 1.5	18.2
62323 2000 SX_{123}	14.9	X	198.04368	299.16997	71.19870	5.74726	0.0714570	0.21400886	2.7680986	21	3 31.4	19.0
62324 2000 SY_{123}	14.4	X	259.96091	19.79299	99.34427	4.26356	0.0745549	0.18739159	3.0243774	21	10 26.9	18.5
62325 2000 SC_{124}	14.7	X	299.25804	238.91733	111.00055	4.39839	0.0514925	0.22459171	2.6804450	21	7 6.3	17.9
62326 2000 SE_{124}	15.3	X	56.06337	288.16962	66.36329	5.77367	0.1660942	0.24178269	2.5518350	21	—	—
62327 2000 SH_{124}	14.2	X	338.67714	119.64777	199.81171	11.90440	0.0216682	0.17767863	3.1336170	21	7 20.7	18.7
62328 2000 SM_{124}	15.4	X	8.94466	214.53013	105.13693	2.79732	0.1014595	0.23083524	2.6318915	21	9 14.8	18.2
62329 2000 SN_{124}	15.5	X	54.20822	241.94455	63.79666	4.05350	0.1831805	0.23656672	2.5892081	21	11 14.9	18.9
62330 2000 SF_{125}	13.5	X	172.82700	353.96387	108.96652	6.71113	0.1220581	0.17248828	3.1961685	21	6 28.1	18.5
62331 2000 ST_{126}	14.9	X	0.85313	101.41030	36.36710	2.41190	0.0229963	0.20571911	2.8419709	21	—	—
62332 2000 SX_{126}	15.3	X	181.96996	145.79162	182.97147	12.04116	0.2198980	0.25553079	2.4594645	21	1 20.1	19.5
62333 2000 SE_{127}	14.8	X	340.80541	149.29377	181.48647	9.42185	0.0846130	0.18171750	3.0870113	21	8 5.7	18.8
62334 2000 SF_{127}	16.1	X	325.16392	225.04159	55.19424	3.08513	0.2019070	0.27068561	2.3667875	21	4 11.1	18.5
62335 2000 SJ_{127}	15.8	X	40.80895	103.47751	91.31419	2.38648	0.1221413	0.26581807	2.3955931	21	5 8.4	17.9
62336 2000 SM_{127}	14.7	X	280.00683	243.44095	176.44301	11.60277	0.0588103	0.18090201	3.0962816	21	9 7.0	18.9
62337 2000 SW_{127}	15.0	X	343.88634	7.61850	63.91151	3.93028	0.0789596	0.19336235	2.9617934	21	12 23.4	18.6
62338 2000 SN_{128}	15.1	X	13.10268	276.92591	37.20614	10.21795	0.1574847	0.23148756	2.6269448	21	9 23.6	17.9
62339 2000 SX_{129}	15.0	X	71.50453	42.44837	243.52302	12.16430	0.1337938	0.23988304	2.5652893	21	11 2.2	18.6
62340 2000 SO_{130}	14.6	X	188.23040	23.16540	219.60346	16.32593	0.0439380	0.20099442	2.8863349	21	—	—
62341 2000 SE_{131}	15.2	X	4.45415	25.76192	280.04474	11.52037	0.0492178	0.23128255	2.6284969	21	8 9.6	18.6
62342 2000 SD_{132}	14.8	X	58.20862	358.32217	259.50918	13.36357	0.1063518	0.23198367	2.6231982	21	8 28.5	18.5
62343 2000 SQ_{132}	14.4	X	200.77274	297.11856	232.83830	21.49149	0.0688573	0.23732630	2.5836805	21	10 23.5	18.2
62344 2000 SA_{134}	14.7	X	346.90112	36.62827	322.90487	10.50768	0.0609836	0.18717903	3.0266666	21	9 20.9	18.8
62345 2000 SW_{134}	14.7	X	155.47519	268.22461	273.57347	8.52473	0.0323731	0.18603467	3.0390660	21	9 9.5	19.3
62346 2000 SN_{135}	14.6	X	157.17771	155.86444	284.43973	6.81730	0.0366850	0.17217781	3.2000094	21	5 9.2	19.3
62347 2000 SL_{138}	14.4	X	44.33333	46.14107	254.06680	11.40357	0.0841387	0.18662301	3.0326754	21	9 28.4	18.7
62348 2000 SB_{142}	13.9	X	334.81042	145.41460	267.76595	9.66502	0.0960280	0.18970341	2.9997561	21	11 14.5	17.6
62349 2000 SH_{142}	13.7	X	304.50418	199.53015	266.84574	9.19225	0.0661414	0.19257994	2.9698101	21	12 9.9	17.6
62350 2000 SA_{143}	15.3	X	43.71796	328.34478	300.16332	2.61003	0.0493291	0.22887679	2.6468838	21	8 20.2	18.6
62351 2000 SB_{143}	16.0	X	97.82762	88.22782	291.53476	2.08164	0.1308711	0.29788497	2.2204295	21	—	—
62352 2000 SG_{143}	14.0	X	222.50919	147.28772	262.50403	8.33469	0.0920039	0.17463492	3.1699225	21	6 13.6	18.9
62353 2000 SH_{143}	13.5	X	270.60775	130.61562	227.94418	21.82895	0.1375489	0.17559784	3.1583234	21	5 28.7	18.2
62354 2000 SQ_{143}	14.6	X	198.49751	312.68685	237.73685	8.89773	0.0465873	0.19267913	2.9687909	21	11 12.9	18.8
62355 2000 SX_{144}	15.2	X	97.58774	71.14347	292.37126	1.96993	0.2126620	0.20127745	2.8836285	21	—	—
62356 2000 SG_{146}	15.3	X	232.36505	17.62904	285.58362	2.42168	0.0734332	0.21141760	2.7906709	21	2 10.4	19.5
62357 2000 SP_{146}	15.3	X	16.35134	140.07386	250.38797	1.69841	0.1201705	0.19292727	2.9662446	21	12 23.3	18.9
62358 2000 SY_{147}	14.9	X	137.51554	174.41512	213.30820	3.84638	0.1388053	0.20868622	2.8149684	21	2 18.3	19.1
62359 2000 SB_{148}	14.8	X	216.12283	31.91859	10.59670	6.35146	0.1722095	0.17290624	3.1910157	21	5 23.3	20.1
62360 2000 SL_{148}	15.4	X	191.50352	132.22942	212.96628	5.82805	0.1531951	0.25919529	2.4362282	21	2 13.3	19.4
62361 2000 SX_{148}	15.3	X	248.16604	71.02277	233.92937	1.22147	0.2055415	0.26297079	2.4128540	21	2 14.6	19.4
62362 2000 SZ_{148}	16.0	X	198.04744	9.17414	3.33737	0.96313	0.1743587	0.26291120	2.4132186	21	3 27.4	19.6
62363 2000 SG_{149}	14.8	X	109.68548	247.52097	41.25315	1.71055	0.0959566	0.19358935	2.9594777	21	12 7.1	19.3
62364 2000 SN_{149}	14.2	X	284.54940	326.57637	26.17768	10.78722	0.0769621	0.17646333	3.1479881	21	6 15.4	18.7
62365 2000 SY_{149}	15.2	X	231.74739	314.92014	22.58083	9.72494	0.1864572	0.21631075	2.7484256	21	3 20.5	19.7
62366 2000 SD_{150}	15.4	X	48.27087	147.13838	205.72800	8.35816	0.1094380	0.24070411	2.5594523	21	12 27.1	19.0
62367 2000 SF_{150}	14.8	X	50.61518	56.16324	281.23097	0.98794	0.0700819	0.19119932	2.9840894	21	11 25.7	18.8
62368 2000 SG_{150}	14.8	X	321.28731	211.02148	209.08118	8.67434	0.0565653	0.18897806	3.0074273	21	11 5.9	18.6
62369 2000 SK_{150}	14.8	X	339.32095	329.38181	14.25382	1.43582	0.0274751	0.22937089	2.6430813	21	8 28.8	18.1
62370 2000 SM_{150}	15.7	X	326.17417	79.57919	215.80378	4.00194	0.2296632	0.27253722	2.3560554	21	4 29.6	17.8
62371 2000 SR_{150}	14.8	X	22.74352	128.49111	210.80869	8.16818	0.1035617	0.18792312	3.0186718	21	10 25.9	18.5
62372 2000 SX_{150}	14.6	X	170.88199	145.68965	215.59472	5.56363	0.0640803	0.20962710	2.8065391	21	2 13.9	18.9
62373 2000 SE_{151}	14.5	X	307.48133	176.50848	203.30839	2.15978	0.0968032	0.18180164	3.0860587	21	8 19.6	18.5
62374 2000 SW_{151}	14.4	X	254.55063	29.25848	30.91626	11.06910	0.0222159	0.17965893	3.1105475	21	8 16.9	18.9
62375 2000 SG_{152}	15.4	X	128.60897	351.17804	180.03587	2.26256	0.0765843	0.27274730	2.3548454	21	8 6.2	18.5
62376 2000 SU_{153}	14.4	X	40.20496	143.07874	194.51298	9.01839	0.1124237	0.18985635	2.9981449	21	11 19.9	18.5
62377 2000 SJ_{154}	14.5	X	107.32492	15.09286	210.69533	13.00524	0.1200541	0.23030977	2.6358932	21	9 22.7	18.6
62378 2000 SN_{154}	15.7	X	280.14836	133.58095	175.53401	1.92065	0.2115311	0.26714465	2.3876558	21	3 20.9	19.1
62379 2000 SA_{155}	14.5	X	73.57969	280.58731	50.69947	10.14336	0.0923073	0.19290737	2.9664487	21	12 18.2	18.9
62380 2000 SF_{155}	13.7	X	203.38118	313.28790	204.12906	22.56460	0.1426211	0.18341560	3.0679283	21	9 29.3	18.7
62381 2000 SO_{155}	13.8	X	69.57493	216.30530	52.26897	16.76660	0.0938586	0.18341497	3.0679353	21	10 5.7	18.3
62382 2000 SM_{156}	14.2	X	255.47485	310.09283	199.87137	10.92475	0.0975446	0.19137992	2.9822117	21	11 24.9	18.4
62383 2000 SS_{156}	14.5	X	331.04951	243.68382	192.89824	9.68519	0.0850766	0.19084836	2.9877466	21	12 10.8	18.4
62384 2000 SX_{156}	14.5	X	265.50845	94.52144	292.43639	19.84446	0.0315248	0.18368064	3.0649764	21	7 13.0	18.8
62385 2000 ST_{157}	14.9	X	42.96639	17.50776	266.77704	15.46989	0.1563188	0.23357132	2.6112976	21	9 18.1	18.5
62386 2000 SR_{161}	14.8	X	316.06551	335.16731	25.12148	15.63177	0.2559773	0.23177369	2.6247823	21	7 22.9	17.8
62387 2000 SQ_{162}	14.8	X	359.29223	191.23244	155.56355	16.00629	0.1387299	0.23457401	2.6038510	21	10 13.7	17.8
62388 2000 SW_{162}	14.9	X	21.85934	284.34331	74.56771	7.62089	0.1987255	0.23550766	2.5969646	21	12 12.5	17.7
62389 2000 SE_{165}	13.8	X	69.30456	286.01817	252.51473	12.30501	0.1126257	0.22186118	2.7023929	21	6 3.7	17.2
62390 2000 SA_{166}	14.0	X	120.22211	0.93883	234.16224	13.99747	0.0560491	0.23503854	2.6004190	21	10 13.8	17.8
62391 2000 SK_{167}	14.5	X	325.39396	76.05131	259.37130	8.25978	0.1304831	0.18098232	3.0953656	21	7 14.7	18.4
62392 2000 SW_{168}	14.5	X	155.22942	258.40765	346.20570	7.13197	0.1600223	0.24155455	2.5534414	21	12 4.8	18.7
62393 2000 SM_{169}	15.5	X	260.98267	282.95105	26.34825	1.51712	0.0992711	0.21731026	2.7399916	21	3 18.8	19.3
62394 2000 SU_{169}	14.2	X	119.35711	27.43219	213.44049	14.84089	0.0796855	0.23455927	2.6039600	21	10 24.5	17.8
62395 2000 SZ_{169}	14.6	X	70.01314	24.15764	211.75106	14.21509	0.0464293	0.22649344	2.6654199	21	8 7.6	18.5
62396 2000 SE_{170}	13.7	X	16.48343	65.45955	217.30800	12.03247	0.1639075	0.22771148	2.6559064	21	8 4.4	16.7
62397 2000 SM_{170}	13.9	X	14.68012	279.80448	214.82217	14.23637	0.1021980	0.20397647	2.8581345	21	1 5.9	17.7
62398 2000 SR_{170}	14.2	X	353.62927	10.43280	30.52115	9.46368	0.1182253	0.18998056	2.9968381	21	11 29.3	17.9
62399 2000 SV_{170}	15.6	X	50.34863	145.18394	212.71246	2.58472	0.0863443	0.24059282	2.5602416	21	—	—
62400 2000 SA_{171}	15.4	X	31.95314	108.95489	215.78974	6.63915	0.2202174	0.23604386	2.5930302	21	11 16.1	18.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62401 2000 SD_{171}	15.5	X	177.27907	317.85037	250.39321	2.70027	0.0709970	0.28432817	2.2904604	21	11 23.4	18.3
62402 2000 SM_{171}	15.2	X	205.12122	124.69918	201.71036	1.46020	0.1551327	0.21016071	2.8017864	21	2 10.9	19.8
62403 2000 SL_{172}	14.2	X	280.63841	354.17286	42.48828	6.51932	0.2206753	0.17479144	3.1680299	21	7 17.9	18.7
62404 2000 SQ_{173}	14.6	X	339.61264	140.39628	240.71560	14.07238	0.1462464	0.23549747	2.5970395	21	10 18.3	17.4
62405 2000 SR_{175}	14.0	X	266.58095	138.70110	315.52010	8.53655	0.0266843	0.18579245	3.0417068	21	10 4.8	18.3
62406 2000 SN_{176}	14.6	X	104.70218	292.66767	263.83547	6.19254	0.0719000	0.27293995	2.3537372	21	8 8.9	17.7
62407 2000 SO_{176}	15.9	X	276.09430	165.96496	279.31395	4.86102	0.0943361	0.28027777	2.3124744	21	10 10.6	18.6
62408 2000 SU_{176}	13.1	X	196.77105	131.01196	308.59331	7.42180	0.2190633	0.12476657	3.9664674	21	6 21.2	19.7
62409 2000 SR_{177}	14.0	X	29.99210	16.58860	353.66488	10.06618	0.1064989	0.19144492	2.9815367	21	12 14.1	18.1
62410 2000 SN_{178}	14.6	X	306.15935	88.65523	227.11577	16.42764	0.1524911	0.22242735	2.6978052	21	5 14.6	18.0
62411 2000 SX_{178}	15.0	X	59.61787	250.40378	356.84205	6.83198	0.0826180	0.27391647	2.3481398	21	8 24.6	17.7
62412 2000 SY_{178}	13.8	X	171.00037	164.60063	329.11045	4.73837	0.0788261	0.17550472	3.1594406	21	8 3.3	18.7
62413 2000 SE_{179}	13.8	X	83.45776	250.96021	21.89545	14.19323	0.0369731	0.18503935	3.0499542	21	10 12.7	18.2
62414 2000 SV_{179}	15.5	X	67.58603	325.02159	4.09395	6.11901	0.1600108	0.28729452	2.2746670	21	—	—
62415 2000 SA_{180}	14.1	X	292.52080	33.32246	26.49371	13.03996	0.1276854	0.18227892	3.0806693	21	9 20.4	18.2
62416 2000 SS_{180}	14.8	X	316.34833	323.04727	295.80672	8.96287	0.2132847	0.21790365	2.7350150	21	2 28.8	18.5
62417 2000 ST_{181}	15.1	X	335.74937	214.76932	133.33902	16.86497	0.0932177	0.23291089	2.6162316	21	8 29.3	18.1
62418 2000 SR_{182}	14.6	X	153.93791	303.44876	61.04448	18.07283	0.1608804	0.21023654	2.8011127	21	2 18.3	19.3
62419 2000 SX_{183}	15.3	X	24.07361	291.61387	122.41433	1.60018	0.0967094	0.19929683	2.9027020	21	—	—
62420 2000 SH_{184}	15.7	X	349.04707	252.71225	72.56851	5.23830	0.0870669	0.23136934	2.6278395	21	8 19.6	18.7
62421 2000 SJ_{184}	14.8	X	221.97904	135.96731	30.66223	12.18099	0.0379707	0.19312981	2.9641704	21	11 10.5	19.1
62422 2000 SK_{184}	16.0	X	349.96588	140.53739	143.71911	7.50950	0.1117239	0.27453195	2.3446289	21	6 17.2	18.3
62423 2000 SM_{184}	14.5	X	161.20285	73.27776	154.07723	9.61334	0.0484621	0.19365261	2.9588332	21	11 18.9	19.0
62424 2000 SX_{184}	14.3	X	0.82645	316.58795	148.98562	12.66930	0.0025227	0.20223609	2.8745086	21	—	—
62425 2000 SM_{186}	14.4	X	52.34408	265.38433	51.15958	12.23507	0.1045444	0.19080063	2.9882449	21	11 7.9	18.5
62426 2000 SX_{186}	11.8	X	60.87540	351.84693	214.38954	31.20605	0.0781178	0.08240367	5.2300399	21	6 21.5	18.9
62427 2000 SH_{187}	14.9	X	199.68686	317.51975	62.12878	6.30820	0.0964848	0.21704669	2.7422093	21	4 12.8	19.1
62428 2000 SM_{187}	15.8	X	113.88063	124.20851	162.88947	2.42055	0.1137167	0.24283909	2.5444289	21	12 18.5	19.7
62429 2000 SQ_{187}	14.8	X	74.59432	235.59833	68.17884	13.46663	0.2656889	0.24116566	2.5561857	21	12 12.7	18.8
62430 2000 SV_{187}	13.8	X	233.28019	301.57487	68.27009	11.22059	0.1337533	0.17243256	3.1968569	21	5 5.9	18.9
62431 2000 SG_{188}	15.0	X	342.01120	213.43081	160.56030	1.00637	0.0615764	0.18647879	3.0342388	21	10 7.1	18.8
62432 2000 SH_{188}	14.0	X	189.44729	39.93399	38.07048	0.97148	0.1859229	0.17252724	3.1956873	21	6 12.9	19.4
62433 2000 SO_{188}	15.6	X	234.92510	175.85033	120.43330	3.39943	0.1864648	0.25911040	2.4367604	21	1 25.8	19.7
62434 2000 SW_{189}	14.2	X	77.40107	337.13592	252.10342	11.28480	0.1135744	0.18012936	3.1051295	21	8 16.1	18.8
62435 2000 SN_{190}	15.1	X	111.70636	284.79111	198.58183	8.36374	0.0716363	0.22158533	2.7046353	21	5 13.0	18.8
62436 2000 SR_{192}	14.5	X	88.78494	253.92645	38.27863	11.37430	0.0785503	0.19157347	2.9802027	21	11 15.8	18.8
62437 2000 SY_{198}	15.8	X	93.52368	70.18383	169.19278	0.96710	0.0423389	0.23331244	2.6132289	21	9 17.8	19.3
62438 2000 SF_{199}	15.2	X	4.55973	13.65805	19.38337	2.79198	0.0931432	0.19308790	2.9645993	21	12 5.9	18.9
62439 2000 SK_{200}	15.3	X	324.98274	31.62778	181.75742	2.79471	0.0185722	0.21176154	2.7876484	21	2 15.0	18.9
62440 2000 SR_{201}	15.7	X	353.99278	245.97475	340.79773	3.38896	0.0544694	0.21880510	2.7274979	21	4 7.6	19.0
62441 2000 SX_{202}	15.2	X	162.33134	218.49975	51.12319	2.74229	0.0340641	0.19852977	2.9101740	21	—	—
62442 2000 SA_{204}	15.1	X	36.78419	185.71081	142.23920	1.73741	0.0436773	0.18917485	3.0053412	21	10 24.2	19.0
62443 2000 SN_{204}	16.2	X	273.95065	273.11445	18.45270	2.51043	0.1974163	0.26555985	2.3971457	21	2 22.9	19.9
62444 2000 SO_{206}	15.3	X	292.11791	237.18876	56.95042	3.42703	0.1629725	0.21891548	2.7265809	21	3 28.2	19.0
62445 2000 SF_{207}	15.7	X	198.07151	238.93714	85.01061	6.99909	0.1373722	0.25714345	2.4491708	21	1 27.5	19.4
62446 2000 SH_{207}	14.8	X	249.32877	85.73159	219.00088	2.63164	0.0755912	0.21276793	2.7788511	21	3 1.7	18.9
62447 2000 SR_{207}	16.2	X	263.47206	58.17760	183.51919	4.42429	0.1369739	0.30326147	2.1941075	21	—	—
62448 2000 SC_{208}	15.5	X	91.78084	274.12971	18.97780	7.98579	0.1762631	0.24006941	2.5639615	21	12 6.9	19.6
62449 2000 SD_{208}	15.4	X	235.08019	99.71063	224.55600	3.96256	0.1579609	0.21450944	2.7637904	21	3 5.1	20.0
62450 2000 SE_{208}	14.4	X	6.12526	16.82127	21.78552	2.63023	0.0611403	0.19191959	2.9766185	21	12 11.8	18.4
62451 2000 SN_{208}	15.5	X	99.83210	231.16149	355.12879	5.73059	0.1355858	0.23430429	2.6058489	21	9 19.7	19.3
62452 2000 SO_{209}	14.5	X	153.18381	310.78039	85.87358	6.76611	0.0497582	0.21306331	2.7762822	21	3 13.4	18.5
62453 2000 SP_{209}	15.1	X	55.95803	264.77140	118.49756	6.78934	0.1434665	0.19810811	2.9143020	21	—	—
62454 2000 SQ_{209}	14.3	X	300.00227	341.88002	52.33789	10.84228	0.0903552	0.18358499	3.0660408	21	9 4.3	18.5
62455 2000 SK_{210}	15.9	X	57.22466	153.06340	147.04087	9.24240	0.2580109	0.28626447	2.2801202	21	11 30.4	19.3
62456 2000 SL_{210}	14.2	X	210.91625	58.31274	62.49228	11.58381	0.0265150	0.18308080	3.0716673	21	9 9.8	18.8
62457 2000 SO_{210}	15.4	X	298.13678	339.78354	75.57681	7.67890	0.1684056	0.28053331	2.3110700	21	9 30.8	17.6
62458 2000 SP_{211}	15.2	X	355.45086	164.16486	154.49952	12.41004	0.1914810	0.23133053	2.6281335	21	8 20.9	17.5
62459 2000 SX_{211}	15.2	X	166.51602	235.11620	132.31100	8.71069	0.2356436	0.21102364	2.7941431	21	3 3.9	20.0
62460 2000 SY_{211}	15.2	X	140.25943	199.97250	79.51504	10.14927	0.1717199	0.24560708	2.5252757	21	—	—
62461 2000 SH_{212}	14.9	X	206.86243	248.94616	66.11990	10.52974	0.0925353	0.20992533	2.8038804	21	2 2.1	19.3
62462 2000 SO_{212}	15.1	X	355.41015	276.56126	77.51550	8.84372	0.1551854	0.23442529	2.6049521	21	10 18.3	17.8
62463 2000 SS_{212}	14.2	X	188.30772	264.30593	70.48893	11.51725	0.2860529	0.21126509	2.7920138	21	2 14.8	19.4
62464 2000 SF_{213}	14.9	X	123.21778	28.72556	80.64973	8.70429	0.0559654	0.21750261	2.7383759	21	5 8.3	18.7
62465 2000 SJ_{213}	14.3	X	248.24192	345.58056	93.00990	11.71436	0.0527844	0.18128235	3.0919493	21	8 27.4	18.8
62466 2000 SR_{213}	14.2	X	250.74619	269.85632	133.09890	9.75620	0.1440642	0.17720427	3.1392068	21	6 30.3	19.0
62467 2000 SW_{213}	14.2	X	226.66777	292.68677	123.27214	10.23352	0.0835938	0.17560737	3.1582092	21	6 26.8	18.9
62468 2000 SA_{214}	13.9	X	98.07986	251.22118	60.04928	18.13387	0.0583537	0.24161159	2.5530395	21	12 26.4	17.7
62469 2000 SD_{215}	15.7	X	114.99041	53.57995	68.15032	1.30274	0.0250626	0.21981802	2.7191126	21	5 7.4	19.2
62470 2000 SH_{216}	13.3	X	226.98525	353.65794	40.65648	16.86242	0.2068283	0.17386978	3.1792156	21	5 19.9	18.6
62471 2000 SP_{216}	15.6	X	71.50417	183.70767	122.31030	6.21120	0.1973819	0.28743196	2.2739418	21	12 14.2	18.9
62472 2000 SO_{217}	14.8	X	71.99170	12.10712	137.14749	8.95621	0.1584394	0.21397643	2.7683782	21	5 9.6	18.4
62473 2000 SZ_{217}	14.2	X	326.68642	0.24281	69.69025	11.20341	0.0774500	0.19062464	2.9900838	21	11 25.8	17.9
62474 2000 SP_{218}	14.5	X	225.87138	180.64394	111.65700	9.25932	0.1947956	0.21019320	2.8014977	21	1 20.2	19.2
62475 2000 SB_{219}	13.6	X	276.14121	210.35281	182.80295	22.31789	0.0880791	0.17877691	3.1207700	21	7 22.9	18.4
62476 2000 SH_{219}	14.0	X	259.53467	147.41922	86.87949	12.82903	0.0524424	0.20402791	2.8576541	21	—	—
62477 2000 SJ_{219}	14.6	X	150.94878	276.40123	125.18193	10.20638	0.0804152	0.21133149	2.7914289	21	3 20.5	18.8
62478 2000 SK_{219}	15.0	X	25.87803	233.71386	100.24356	9.56587	0.1010207	0.23493259	2.6012008	21	11 4.3	18.3
62479 2000 SD_{220}	14.2	X	2.63155	306.17514	76.83173	10.71743	0.1329006	0.18935633	3.0034207	21	11 24.6	17.7
62480 2000 SU_{220}	14.8	X	283.36734	200.67646	161.26163	11.53867	0.2385558	0.17792330	3.1307435	21	6 4.9	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62481 2000 SC_{221}	14.0	X	227.92471	316.70692	58.44538	22.70833	0.0676537	0.17077741	3.2174794	21	5 11.7	18.8
62482 2000 SE_{221}	14.5	X	194.18436	325.57738	76.97332	10.56060	0.1268581	0.21701450	2.7424805	21	5 6.3	18.8
62483 2000 SG_{221}	13.9	X	108.42391	232.96586	159.11906	11.04945	0.1406096	0.15692035	3.4042115	21	1 31.3	18.8
62484 2000 SN_{221}	14.4	X	236.21361	182.94403	128.09496	10.47770	0.1495491	0.21243882	2.7817203	21	2 22.1	18.9
62485 2000 SX_{221}	14.3	X	222.09461	232.80537	97.83582	13.23395	0.1303855	0.21238848	2.7821598	21	3 9.2	18.9
62486 2000 SC_{222}	15.1	X	329.99978	213.04203	128.17653	10.65233	0.1114525	0.22721222	2.6597956	21	8 5.3	17.8
62487 2000 SP_{222}	15.4	X	173.19566	261.14666	130.15997	9.78029	0.1741362	0.21261773	2.7801596	21	4 5.8	20.1
62488 2000 SN_{223}	15.7	X	134.00993	211.45455	193.96850	4.17365	0.0760603	0.21108546	2.7935975	21	2 28.6	19.6
62489 2000 SS_{223}	14.1	X	172.16554	288.72339	166.06047	3.06365	0.2006878	0.12505408	3.9603855	21	6 19.6	20.5
62490 2000 SL_{224}	14.9	X	357.15200	196.82549	128.50854	2.13271	0.1695819	0.18401558	3.0612560	21	8 29.7	18.1
62491 2000 SN_{224}	14.8	X	272.67693	122.63488	35.58986	8.39321	0.1508400	0.24216359	2.5491583	21	—	—
62492 2000 ST_{224}	14.7	X	103.58929	45.21432	203.06898	6.62314	0.0892928	0.18880918	3.0092202	21	10 11.9	19.2
62493 2000 SK_{225}	15.0	X	285.47225	141.07788	161.72931	2.80666	0.0625623	0.21775721	2.7362411	21	4 14.0	18.8
62494 2000 SP_{225}	14.1	X	247.35550	333.72788	133.70380	8.30834	0.0359400	0.18371694	3.0645726	21	10 3.1	18.5
62495 2000 SQ_{226}	15.5	X	339.14679	255.76022	134.86066	6.89536	0.1563743	0.28168661	2.3047575	21	11 19.3	17.5
62496 2000 SA_{227}	14.9	X	19.51397	179.09431	175.36258	13.24455	0.1847454	0.23551847	2.5968851	21	12 2.8	18.2
62497 2000 SJ_{228}	16.1	X	287.40695	297.29109	0.54697	3.81255	0.1993297	0.26748054	2.3856565	21	3 15.6	19.6
62498 2000 SL_{228}	14.8	X	91.82159	236.46292	208.44459	3.33332	0.0605436	0.20958519	2.8069132	21	2 23.3	18.6
62499 2000 SK_{229}	16.0	X	246.35673	235.74931	195.80790	5.75036	0.1080021	0.27507419	2.3415467	21	8 6.5	19.1
62500 2000 SL_{229}	14.8	X	347.61855	276.96547	20.97158	4.08856	0.1060368	0.22585743	2.6704214	21	7 5.0	17.7
62501 2000 SP_{229}	15.1	X	135.85470	204.87547	234.30454	0.84775	0.0465575	0.21442349	2.7645289	21	4 11.2	18.9
62502 2000 SZ_{229}	15.1	X	47.24540	226.31080	106.76829	2.14994	0.1422776	0.19071864	2.9891012	21	11 26.9	19.1
62503 Tomcave	14.9	X	135.69362	310.84258	185.04189	14.22650	0.1676623	0.22148678	2.7054376	21	7 3.9	19.5
62504 2000 SZ_{233}	14.3	X	269.90858	345.24483	32.41895	15.71158	0.1153637	0.17956546	3.1116269	21	6 23.2	19.0
62505 2000 SF_{234}	14.8	X	136.57459	322.15199	131.20266	9.36816	0.0721239	0.21853872	2.7297138	21	5 7.1	18.8
62506 2000 SJ_{234}	14.2	X	339.74377	289.64895	50.68004	11.97015	0.1318993	0.18458842	3.0549193	21	8 23.7	18.0
62507 2000 SL_{235}	15.4	X	67.23316	353.21830	20.31724	1.95324	0.0547036	0.20041064	2.8919372	21	—	—
62508 2000 SV_{235}	14.5	X	221.26984	141.15998	9.96791	10.50884	0.0651796	0.18974683	2.9992986	21	10 18.1	18.9
62509 2000 SH_{237}	16.3	X	0.49582	167.58626	175.29448	0.64555	0.1229917	0.23362276	2.6109143	21	10 4.1	18.8
62510 2000 SW_{237}	14.2	X	31.33526	239.57963	71.55908	13.23353	0.0484391	0.18551516	3.0447370	21	10 2.5	18.5
62511 2000 SU_{239}	16.2	X	100.93707	128.21135	206.21806	5.59755	0.0986089	0.24564257	2.5250325	21	—	—
62512 2000 SF_{241}	14.6	X	152.76652	261.38803	199.25676	8.80726	0.0638979	0.17502341	3.1652301	21	6 2.7	19.4
62513 2000 SL_{241}	15.2	X	197.43906	296.23309	25.52591	5.35227	0.2837780	0.26237568	2.4165011	21	1 29.4	19.5
62514 2000 SX_{241}	16.0	X	263.51487	245.54809	34.20128	6.93349	0.0877377	0.26402255	2.4064418	21	2 9.4	19.4
62515 2000 SX_{242}	15.4	X	68.19073	179.23628	106.41872	5.00281	0.1643714	0.23947899	2.5681739	21	11 5.3	19.0
62516 2000 SN_{243}	15.3	X	154.19959	313.13791	58.62219	4.30106	0.1031030	0.21181642	2.7871669	21	2 15.8	19.4
62517 2000 SY_{244}	15.6	X	226.26048	2.84496	114.97805	3.15145	0.0984554	0.23375989	2.6098931	21	9 15.6	19.2
62518 2000 SM_{245}	14.6	X	19.87495	149.27713	27.36540	9.17558	0.0824271	0.21594709	2.7515103	21	3 14.8	17.9
62519 2000 SX_{246}	16.0	X	23.45640	122.87481	137.36050	3.07337	0.2040955	0.27723173	2.3293822	21	7 27.6	17.5
62520 2000 SV_{247}	15.7	X	198.19104	0.85120	350.68274	1.55830	0.0910421	0.21566679	2.7538939	21	3 5.6	19.9
62521 2000 SW_{247}	16.1	X	268.49684	315.90182	165.47221	6.14113	0.0812103	0.28826473	2.2695602	21	11 27.7	18.6
62522 2000 SL_{248}	15.7	X	161.40998	165.13577	77.89303	4.82351	0.0878060	0.24409325	2.5357058	21	12 12.5	19.2
62523 2000 SW_{249}	15.5	X	320.17806	146.17932	140.00222	4.28423	0.0646012	0.22246421	2.6975072	21	5 9.6	18.9
62524 2000 SL_{250}	14.6	X	189.44054	327.86289	148.49398	10.48779	0.0271849	0.18064284	3.0992424	21	8 1.8	19.2
62525 2000 SD_{251}	15.3	X	284.12950	171.01452	137.22995	6.20065	0.0857592	0.22044229	2.7139766	21	4 17.6	19.0
62526 2000 SS_{251}	14.4	X	248.15966	102.92060	44.72339	11.16614	0.0497623	0.19274290	2.9681360	21	11 17.9	18.5
62527 2000 SV_{251}	15.3	X	106.97671	299.25977	146.71183	5.05047	0.0375319	0.21317216	2.7753370	21	3 14.9	19.1
62528 2000 SG_{252}	14.5	X	359.04149	311.85502	22.30601	11.46854	0.1108851	0.18564738	3.0432911	21	9 16.1	18.2
62529 2000 SA_{253}	16.1	X	277.39893	232.01281	85.21951	3.40869	0.1502498	0.26786101	2.3833970	21	4 6.4	19.3
62530 2000 SU_{253}	15.8	X	326.26860	144.65779	126.40866	4.78092	0.0447869	0.22073802	2.7115521	21	5 1.1	19.3
62531 2000 SH_{254}	15.1	X	301.61600	10.00829	114.31424	4.93404	0.1905929	0.24239727	2.5475198	21	—	—
62532 2000 ST_{254}	14.9	X	74.13744	310.57595	139.41589	3.56438	0.0251332	0.21011436	2.8021985	21	2 3.0	18.7
62533 2000 SN_{255}	16.1	X	114.16868	179.97168	128.50766	2.10281	0.0932083	0.24558373	2.5254357	21	—	—
62534 2000 SR_{255}	14.9	X	123.96896	210.13175	102.62074	3.44173	0.0971052	0.19930689	2.9026044	21	—	—
62535 2000 SU_{257}	14.1	X	293.80111	86.81782	27.66520	10.64329	0.0807401	0.19295194	2.9659918	21	12 1.8	18.1
62536 2000 SZ_{257}	15.3	X	73.93908	70.69654	327.87029	1.71124	0.1063124	0.20162352	2.8803278	21	—	—
62537 2000 SG_{258}	15.1	X	237.79322	243.48466	61.84828	4.90305	0.0835750	0.21239925	2.7820658	21	2 20.9	19.3
62538 2000 SS_{258}	15.1	X	72.01698	282.30217	147.29474	7.22583	0.0480286	0.20498646	2.8487386	21	1 8.6	18.8
62539 2000 SR_{259}	14.3	X	230.31567	145.16130	20.99727	10.86583	0.0325565	0.19071603	2.9891285	21	11 19.4	18.7
62540 2000 SX_{259}	14.8	X	260.21384	211.07887	182.10351	16.58578	0.0960255	0.17706538	3.1408482	21	7 3.6	19.7
62541 2000 SY_{259}	14.5	X	182.55054	356.32937	216.70642	12.69087	0.1014378	0.23859104	2.5745419	21	11 26.6	18.4
62542 2000 SO_{260}	14.8	X	166.79582	80.00952	179.46209	9.59977	0.1614374	0.24340793	2.5404632	21	—	—
62543 2000 SW_{260}	15.1	X	309.86586	222.38270	8.11923	10.20341	0.1155254	0.21260553	2.7802660	21	2 7.7	19.0
62544 2000 SD_{261}	14.7	X	78.13017	235.63054	32.96679	9.73425	0.0763924	0.18678644	3.0309061	21	10 8.1	19.0
62545 2000 ST_{261}	15.3	X	72.48579	127.44443	167.25696	9.69178	0.1211657	0.23658344	2.5890860	21	11 16.2	19.1
62546 2000 SV_{261}	15.9	X	234.89784	290.86236	175.70470	5.84990	0.0745504	0.27726880	2.3291746	21	9 16.8	18.7
62547 2000 SW_{261}	15.6	X	228.25350	206.54462	181.87963	11.75074	0.0483617	0.21985256	2.7188278	21	5 27.6	19.6
62548 2000 SB_{262}	16.9	X	195.77468	105.92678	202.11202	0.69749	0.1864297	0.25848606	2.4406826	21	1 6.8	20.6
62549 2000 SZ_{262}	15.4	X	32.40644	315.36113	36.39244	15.33693	0.1909472	0.23960547	2.5672701	21	12 15.8	18.9
62550 2000 SM_{263}	15.5	X	114.77167	264.64073	346.45105	4.09173	0.1307929	0.23962936	2.5670995	21	11 4.2	19.4
62551 2000 SP_{263}	14.2	X	84.94783	334.24466	195.80116	14.18018	0.1418623	0.17427094	3.1743348	21	6 19.6	18.9
62552 2000 SL_{264}	14.9	X	135.39211	164.73747	134.79178	2.78772	0.0831900	0.19979521	2.8978729	21	—	—
62553 2000 SQ_{264}	15.8	X	272.45150	171.47590	89.46357	3.05980	0.1881330	0.26155482	2.4215544	21	1 15.6	19.7
62554 2000 SR_{264}	14.5	X	183.81302	79.84225	58.96226	3.82886	0.0965948	0.18104323	3.0946712	21	8 24.2	19.2
62555 2000 SE_{265}	15.4	X	358.09227	187.08537	63.91439	4.69796	0.1350150	0.22280446	2.6947602	21	5 14.5	18.3
62556 2000 SB_{266}	15.7	X	275.26624	189.32556	176.74210	10.81049	0.0553530	0.22431369	2.6826594	21	6 23.9	19.6
62557 2000 SP_{267}	15.6	X	215.13281	329.12933	41.01479	6.18828	0.0898990	0.21726000	2.7404141	21	4 15.8	19.8
62558 2000 SD_{268}	16.5	X	237.89201	232.17597	154.04139	3.53672	0.1600224	0.26923966	2.3752538	21	5 22.8	20.1
62559 2000 SP_{268}	15.8	X	182.20353	346.94078	100.99405	2.26039	0.1481618	0.26793939	2.3829321	21	6 17.3	19.3
62560 2000 SZ_{268}	14.5	X	303.53072	213.02312	73.11530	7.53447	0.1020652	0.21793181	2.7347794	21	4 12.5	18.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62561 2000 SF_{269}	15.1	X	217.98532	330.38720	92.98218	4.01669	0.1657106	0.26980758	2.3719195	21	6 19.6	18.7
62562 2000 SR_{269}	15.5	X	26.58987	231.90095	111.80433	3.99260	0.2544047	0.23760007	2.5816954	21	12 9.2	18.6
62563 2000 SS_{270}	15.5	X	251.61843	158.99129	142.33333	5.06687	0.1451794	0.21408136	2.7674736	21	2 23.9	19.9
62564 2000 SJ_{271}	15.5	X	28.91517	227.35391	94.56929	5.71815	0.2084346	0.23535117	2.5981156	21	11 7.2	18.5
62565 2000 SU_{272}	15.0	X	223.71450	42.89635	275.30011	1.48890	0.0868903	0.21232121	2.7827474	21	2 18.9	19.2
62566 2000 SA_{274}	14.8	X	46.82646	141.24607	208.45931	10.33876	0.0842702	0.19149024	2.9810662	21	12 8.6	19.0
62567 2000 SJ_{274}	15.2	X	322.26525	127.69705	200.97810	14.05426	0.1552948	0.22630894	2.6668683	21	6 26.6	18.5
62568 2000 SM_{274}	15.5	X	253.03123	135.45369	199.56918	2.21712	0.0987535	0.21726686	2.7403564	21	4 10.9	19.5
62569 2000 SR_{274}	15.2	X	270.34189	301.92810	37.99584	5.79140	0.0792453	0.21974142	2.7197444	21	5 9.5	18.9
62570 2000 SX_{274}	15.4	X	353.57746	162.83861	159.97760	4.90212	0.1284366	0.22909995	2.6451647	21	8 21.4	18.2
62571 2000 SY_{274}	14.9	X	251.06348	259.90575	78.84683	4.76422	0.0982073	0.21724352	2.7405527	21	4 15.6	19.0
62572 2000 SC_{276}	15.9	X	145.56391	246.52273	48.49809	5.65575	0.1358867	0.29387752	2.2405698	21	—	—
62573 2000 SR_{276}	14.5	X	66.33146	303.42423	15.79752	9.30573	0.0740816	0.19072292	2.9890565	21	11 21.0	18.9
62574 2000 SF_{277}	14.8	X	186.13022	196.18317	213.25168	13.57792	0.1700308	0.21572693	2.7533820	21	5 5.5	19.4
62575 2000 SL_{278}	14.1	X	2.33148	63.59721	214.48462	12.00183	0.1641928	0.22436771	2.6822288	21	6 30.7	17.0
62576 2000 ST_{278}	14.2	X	88.49582	269.91723	45.72805	10.65249	0.0459628	0.19097886	2.9863854	21	12 9.9	18.6
62577 2000 SU_{279}	15.0	X	333.21348	232.29809	116.40788	11.28324	0.1780798	0.23083479	2.6318949	21	8 19.9	17.5
62578 2000 SA_{280}	15.0	X	0.98618	235.51899	120.07027	16.03405	0.2068897	0.23563701	2.5960141	21	11 9.9	17.9
62579 2000 SA_{281}	14.8	X	3.28385	172.78069	190.72599	13.77219	0.1831669	0.24140966	2.5544630	21	11 18.7	17.5
62580 2000 SD_{281}	14.4	X	330.15680	127.01835	261.99804	8.94211	0.1024579	0.19038811	2.9925598	21	10 3.4	18.2
62581 2000 SL_{282}	15.3	X	22.73292	262.59109	295.84322	7.96774	0.0377251	0.21863798	2.7288875	21	4 9.1	18.9
62582 2000 SO_{289}	14.9	X	317.93011	228.61267	337.73765	8.72145	0.0396248	0.21077193	2.7963672	21	1 28.1	18.7
62583 2000 SJ_{293}	14.1	X	304.90883	331.02727	357.69855	15.02906	0.1692738	0.17638005	3.1489789	21	5 25.8	18.6
62584 2000 SP_{293}	13.8	X	159.13258	148.87139	12.97323	22.34369	0.0468156	0.17819845	3.1275200	21	9 3.4	18.7
62585 2000 SR_{293}	13.8	X	239.28811	74.31098	340.58289	10.30637	0.0281793	0.17563835	3.1578378	21	7 18.3	18.4
62586 2000 SN_{297}	14.5	X	227.37862	239.93391	229.35974	10.21911	0.0904458	0.18323988	3.0698893	21	8 28.3	19.3
62587 2000 ST_{299}	14.2	X	101.37459	293.35056	222.84210	8.60124	0.0346993	0.17419950	3.1752026	21	6 7.8	18.7
62588 2000 SE_{301}	14.7	X	164.56759	252.32737	235.41215	4.29124	0.0852319	0.17668367	3.1453702	21	7 18.6	19.5
62589 2000 SA_{302}	14.5	X	115.35751	63.45863	219.62498	8.99323	0.0064343	0.19248948	2.9707405	21	11 30.1	18.7
62590 2000 SB_{303}	14.8	X	236.61642	246.37483	213.64315	9.66353	0.1170794	0.18199561	3.0838655	21	8 24.9	19.5
62591 2000 ST_{303}	15.1	X	262.63067	33.98398	355.17050	15.17284	0.1284708	0.22489349	2.6780465	21	6 29.6	19.2
62592 2000 SA_{304}	15.2	X	333.16215	139.35069	230.43763	12.65290	0.1749518	0.23429577	2.6059120	21	9 14.2	17.9
62593 2000 SD_{305}	14.2	X	113.88980	257.51202	267.57616	7.31394	0.1286006	0.17427494	3.1742863	21	7 14.9	19.1
62594 2000 SX_{305}	14.4	X	84.89250	350.54798	294.13444	9.99295	0.0627055	0.19028123	2.9936802	21	10 28.5	18.9
62595 2000 SW_{306}	14.3	X	120.18373	341.61040	217.58052	13.64310	0.1175429	0.22865999	2.6485566	21	8 30.9	18.6
62596 2000 SL_{309}	14.4	X	62.36010	94.21126	226.57448	13.97114	0.1319146	0.23642894	2.5902139	21	12 6.3	18.1
62597 2000 SB_{311}	14.5	X	269.51911	50.59797	323.29354	16.78619	0.1850766	0.17706508	3.1408517	21	6 9.0	19.5
62598 2000 SW_{313}	14.4	X	68.98762	314.52115	324.71591	12.95158	0.1756804	0.23512632	2.5997717	21	10 21.4	18.4
62599 2000 SA_{318}	15.6	X	306.44623	125.24379	253.53550	5.17825	0.1646708	0.27686669	2.3314293	21	8 11.8	18.0
62600 2000 SG_{318}	15.2	X	336.02287	204.29135	135.17491	15.79316	0.1309723	0.23117157	2.6293381	21	8 12.9	18.0
62601 2000 SH_{318}	14.7	X	210.84612	32.38230	72.74331	14.78718	0.0837278	0.22909248	2.6452222	21	8 17.3	18.8
62602 2000 SJ_{318}	15.5	X	194.62339	232.23814	95.30495	10.51313	0.1866357	0.25938012	2.4350708	21	1 30.7	19.5
62603 2000 SD_{320}	14.8	X	84.54725	98.56178	56.82915	2.00347	0.1173458	0.22266721	2.6958675	21	5 25.6	18.4
62604 2000 SU_{320}	13.7	X	243.67015	21.82717	13.18351	9.22734	0.0959222	0.17534304	3.1613824	21	6 17.4	18.5
62605 2000 SV_{320}	14.0	X	31.87760	304.05431	11.48261	9.54191	0.0905164	0.18579401	3.0416898	21	10 6.4	17.9
62606 2000 SK_{325}	14.6	X	165.90040	95.21547	344.37331	12.72815	0.1402328	0.17306706	3.1890386	21	5 20.9	19.9
62607 2000 SZ_{330}	14.8	X	261.60962	323.76174	130.56194	3.84478	0.0393690	0.18459113	3.0548895	21	10 2.6	19.1
62608 2000 SD_{332}	14.5	X	335.64918	128.93930	140.65595	2.17005	0.1205532	0.17023501	3.2243100	21	5 7.8	18.4
62609 2000 SF_{333}	15.2	X	52.79194	74.28980	44.93515	5.13321	0.0215836	0.21312843	2.7757166	21	2 13.4	18.9
62610 2000 SV_{333}	14.2	X	41.14745	253.95845	82.22729	10.80672	0.0568805	0.19280931	2.9674544	21	11 13.4	18.3
62611 2000 SX_{334}	14.4	X	6.37059	229.63662	93.96157	9.43976	0.0731496	0.18595366	3.0399486	21	9 12.4	18.4
62612 2000 SQ_{335}	14.4	X	41.73682	323.91601	290.82897	9.09919	0.0289966	0.17987548	3.1080506	21	7 24.9	18.7
62613 2000 SF_{336}	14.4	X	147.79834	145.02059	20.11891	10.79557	0.0248394	0.17872539	3.1213698	21	8 18.9	19.0
62614 2000 SS_{339}	15.2	X	208.23127	159.55293	217.32117	9.12524	0.2263020	0.21707420	2.7419777	21	4 12.8	20.0
62615 2000 SA_{340}	14.6	X	293.65092	98.40815	192.88316	8.95911	0.1614831	0.21752699	2.7381713	21	3 24.7	18.5
62616 2000 SF_{343}	15.1	X	291.49634	91.37886	89.49559	3.22901	0.0102634	0.20100545	2.8862293	21	—	—
62617 2000 SW_{344}	14.8	X	240.21243	335.68700	113.60585	16.12425	0.0518645	0.23217721	2.6217402	21	9 4.3	18.6
62618 2000 SD_{348}	14.4	X	330.54762	323.72014	79.29152	14.46915	0.0809392	0.19060768	2.9902612	21	11 2.1	18.3
62619 2000 SE_{348}	14.5	X	213.48066	12.71693	66.34759	13.80792	0.1554892	0.22606145	2.6688145	21	7 6.7	18.8
62620 2000 SA_{350}	14.2	X	282.49330	251.69863	143.14509	17.12037	0.1389977	0.18172617	3.0869131	21	7 28.3	18.5
62621 2000 SC_{350}	14.5	X	45.79564	322.51710	72.34353	14.77611	0.0359973	0.19936758	2.9020152	21	—	—
62622 2000 SQ_{350}	15.1	X	0.81593	206.14630	78.77931	15.06905	0.1982246	0.22969524	2.6405925	21	7 10.6	17.5
62623 2000 SS_{350}	14.5	X	294.87899	218.76785	112.86242	12.75318	0.1934615	0.22603007	2.6690615	21	5 17.6	18.2
62624 2000 SX_{350}	14.8	X	293.61045	290.29277	117.55907	15.94457	0.1501530	0.23255799	2.6188776	21	9 7.7	18.1
62625 2000 SG_{351}	15.0	X	107.01053	156.94590	121.64714	14.40173	0.1457529	0.24189709	2.5510303	21	12 5.8	19.2
62626 2000 SK_{351}	14.9	X	332.09489	254.34226	118.66761	12.19857	0.2064093	0.23386639	2.6091007	21	9 27.9	17.4
62627 2000 SH_{352}	14.8	X	235.30835	85.34463	34.81010	10.23564	0.0296657	0.23881199	2.5729537	21	10 10.5	18.2
62628 2000 SL_{352}	14.8	X	359.24408	236.94300	53.98248	13.37596	0.2358865	0.23060310	2.6336574	21	7 19.8	17.1
62629 2000 SO_{354}	14.2	X	242.21239	289.46210	24.88507	17.95065	0.0761515	0.16994836	3.2279346	21	3 18.6	19.2
62630 2000 SZ_{354}	14.5	X	212.12903	12.53015	96.23540	11.77559	0.0708714	0.18187447	3.0852348	21	8 20.0	19.2
62631 2000 SM_{355}	15.2	X	266.28887	224.82590	71.37931	10.40459	0.1942915	0.21797599	2.7344098	21	3 3.8	19.7
62632 2000 SB_{356}	14.7	X	147.89038	348.83641	96.97325	10.46066	0.1775881	0.21695050	2.7430198	21	5 18.2	19.2
62633 2000 SC_{356}	14.1	X	313.02446	277.25367	49.81704	17.61545	0.1139859	0.17940734	3.1134548	21	6 14.8	18.4
62634 2000 SL_{356}	15.1	X	155.76241	2.00743	81.25662	13.46193	0.1538006	0.21791906	2.7348861	21	5 20.5	19.5
62635 2000 SO_{356}	15.3	X	230.55577	292.76387	134.94095	16.89642	0.1887994	0.17721559	3.1390731	21	7 6.4	20.5
62636 2000 SX_{356}	15.7	X	289.79603	269.73311	56.69036	7.92092	0.1406730	0.27421931	2.3464107	21	5 4.6	18.7
62637 2000 SZ_{356}	15.5	X	260.32680	300.04079	44.81146	5.98392	0.1626751	0.27238545	2.3569305	21	4 21.1	18.8
62638 2000 SJ_{357}	15.1	X	330.82247	278.89957	85.95245	15.49230	0.0874757	0.23199907	2.6230821	21	9 21.6	18.5
62639 2000 SS_{357}	14.7	X	280.55956	335.01369	101.55503	14.54673	0.0710044	0.23402388	2.6079300	21	10 13.0	18.3
62640 2000 SR_{358}	13.9	X	108.13079	325.96276	52.26818	15.60169	0.0067630	0.20533941	2.8454732	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62641 2000 SZ_{358}	14.4	X	4.81127	258.69578	120.28611	12.05601	0.0961347	0.19123429	2.9837255	21	11 22.3	18.3
62642 2000 SN_{359}	14.1	X	192.40393	170.27040	312.73206	10.25484	0.0590012	0.18060866	3.0996334	21	8 12.5	18.8
62643 2000 SH_{360}	14.3	X	256.86343	285.43053	115.14054	17.25780	0.1138388	0.18054832	3.1003239	21	7 8.0	18.8
62644 2000 SP_{360}	14.6	X	334.27306	231.50318	123.48829	14.98892	0.1046358	0.18488392	3.0516634	21	9 1.5	18.4
62645 2000 SW_{360}	15.3	X	124.13340	165.71425	222.62309	3.67249	0.0793518	0.21059852	2.7979020	21	1 27.1	19.1
62646 2000 SO_{361}	15.1	X	37.57200	260.86812	24.30051	14.50359	0.2012868	0.23483216	2.6019423	21	10 1.3	18.1
62647 2000 SY_{362}	14.7	X	351.78625	4.32410	84.38118	6.82679	0.0182502	0.20067549	2.8893922	21	—	—
62648 2000 SC_{363}	14.9	X	1.86351	177.25478	193.93919	15.20159	0.1464940	0.24052605	2.5607153	21	11 21.8	17.8
62649 2000 SS_{363}	15.1	X	170.12066	286.69077	77.63971	6.94850	0.0748243	0.21441636	2.7645903	21	2 22.1	19.2
62650 2000 SV_{363}	15.6	X	254.79983	233.41839	22.12094	11.94320	0.0486536	0.25953556	2.4340985	21	1 1.2	19.2
62651 2000 SB_{364}	14.2	X	313.84855	31.41412	38.98952	10.70676	0.0784255	0.19345823	2.9608148	21	11 6.8	17.9
62652 2000 SC_{364}	15.2	X	109.24298	348.08299	73.41076	7.11419	0.1230563	0.25945080	2.4346285	21	2 21.4	18.2
62653 2000 SP_{364}	14.7	X	150.93511	336.05429	87.13567	12.59431	0.0562346	0.21754219	2.7380437	21	4 16.4	18.8
62654 2000 SX_{364}	16.0	X	264.44970	210.90764	35.79247	2.71147	0.1749943	0.26014543	2.4302927	21	—	—
62655 2000 SY_{364}	15.4	X	126.29118	299.05369	112.37188	3.04899	0.0379295	0.21331596	2.7740896	21	2 23.4	19.2
62656 2000 SJ_{365}	14.9	X	354.72450	29.87975	89.74084	3.24441	0.0206086	0.20521389	2.8466335	21	—	—
62657 2000 SK_{365}	14.6	X	206.07493	30.98601	32.45931	6.51157	0.1150924	0.17698634	3.1417833	21	6 11.5	19.6
62658 2000 SN_{365}	14.5	X	163.00939	65.81061	21.42940	9.58718	0.0713388	0.17546142	3.1599603	21	5 25.9	19.4
62659 2000 SU_{365}	15.3	X	336.61070	304.57118	126.78901	2.81621	0.0898603	0.19228216	2.9728755	21	12 12.7	18.8
62660 2000 SV_{365}	16.1	X	195.00777	347.15514	135.96638	6.43845	0.1127716	0.27429830	2.3459602	21	8 18.4	19.4
62661 2000 SK_{366}	16.2	X	206.94693	121.38913	153.99533	8.02869	0.2647193	0.25622208	2.4550387	21	—	—
62662 2000 SN_{366}	14.6	X	311.85129	85.63304	21.70084	12.86787	0.0899386	0.19592476	2.9359129	21	12 20.5	18.5
62663 2000 SY_{366}	15.1	X	20.14051	160.97475	55.33129	8.17620	0.0654553	0.26698180	2.3886267	21	4 30.7	17.6
62664 2000 SP_{367}	15.3	X	86.64219	172.74087	286.38140	5.01941	0.0513557	0.21449875	2.7638823	21	3 3.3	19.0
62665 2000 SU_{370}	13.9	X	329.45594	203.64037	117.13130	19.01910	0.2029746	0.18024307	3.1038234	21	6 25.6	17.4
62666 Rainawessen	13.7	X	314.75584	96.90914	263.61582	9.39438	0.1794307	0.17851462	3.1238261	21	7 23.6	17.6
62667 2000 TC	14.1	X	308.99983	191.55079	213.37559	11.33534	0.1729621	0.23061417	2.6335732	21	9 18.9	17.0
62668 2000 TR_{2}	14.8	X	204.54140	52.05913	350.87189	8.68499	0.0939258	0.17584047	3.1554174	21	5 14.4	19.9
62669 2000 TT_{2}	15.1	X	358.46772	242.05550	200.39107	1.62906	0.0660703	0.20110047	2.8853200	21	—	—
62670 2000 TK_{8}	15.8	X	2.53733	184.95149	13.27374	5.06094	0.0995322	0.21502271	2.7593905	21	3 12.9	19.0
62671 2000 TE_{10}	14.9	X	275.87991	272.07287	132.67633	1.87776	0.0580013	0.18154508	3.0889655	21	8 14.3	18.9
62672 2000 TY_{10}	14.4	X	7.29931	237.67289	55.87437	10.56679	0.0634810	0.18099993	3.0951648	21	8 2.7	18.6
62673 2000 TZ_{10}	15.5	X	183.14622	140.77443	173.43216	2.03322	0.0616424	0.20651968	2.8346215	21	1 3.7	19.7
62674 2000 TL_{11}	15.4	X	181.80514	251.80991	39.33477	2.37005	0.0433016	0.20298223	2.8674600	21	—	—
62675 2000 TL_{12}	14.8	X	303.29149	311.61119	127.35581	9.14591	0.0199225	0.18971589	2.9996246	21	11 10.7	19.1
62676 2000 TQ_{13}	14.7	X	232.06035	167.42748	20.29263	10.76031	0.0716437	0.19497555	2.9454338	21	12 14.5	19.0
62677 2000 TE_{14}	15.0	X	209.34132	20.68489	68.73445	3.15354	0.1728105	0.17606794	3.1526991	21	7 14.7	20.2
62678 2000 TD_{15}	15.5	X	86.14294	239.12755	179.76181	1.88275	0.1128564	0.20509089	2.8477715	21	1 22.4	19.1
62679 2000 TK_{15}	14.7	X	191.09586	21.63904	18.65310	4.91603	0.0541144	0.16958118	3.2325924	21	4 29.9	19.5
62680 2000 TV_{15}	14.6	X	0.21268	87.26611	205.23338	9.57266	0.0371411	0.17802870	3.1295077	21	7 15.7	18.9
62681 2000 TJ_{17}	15.0	X	104.94015	185.24370	163.92794	2.11645	0.0691811	0.19940046	2.9016963	21	—	—
62682 2000 TP_{17}	15.8	X	188.76095	317.60193	39.15053	4.95845	0.0809286	0.21137981	2.7910035	21	3 4.6	20.0
62683 2000 TG_{19}	15.0	X	74.47105	236.59229	54.56010	10.52946	0.1792421	0.24066241	2.5597480	21	11 18.9	18.8
62684 2000 TJ_{19}	14.5	X	85.31089	341.67479	52.13071	11.18527	0.1547813	0.20430722	2.8550490	21	—	—
62685 2000 TR_{19}	15.3	X	55.89761	178.03730	95.84595	5.62832	0.2391602	0.28371164	2.2937775	21	10 23.4	18.3
62686 2000 TD_{20}	13.7	X	197.32162	329.16473	87.30494	10.05170	0.1383214	0.22064709	2.7122970	21	5 25.2	18.1
62687 2000 TB_{21}	14.4	X	124.89452	95.07726	115.23634	10.87857	0.0270690	0.18461410	3.0546360	21	9 17.3	18.9
62688 2000 TQ_{21}	14.0	X	352.31261	225.39700	89.47781	11.97269	0.0673908	0.18125708	3.0922367	21	8 7.5	18.1
62689 2000 TV_{22}	14.9	X	235.67752	94.94178	333.54463	8.31176	0.0866339	0.18006292	3.1058933	21	7 23.8	19.6
62690 2000 TS_{23}	15.5	X	207.93919	345.56079	198.85561	2.04534	0.0330072	0.19179656	2.9778913	21	11 18.2	19.7
62691 2000 TA_{24}	14.7	X	269.71512	277.79487	73.70301	4.72976	0.2372161	0.22543926	2.6737226	21	5 4.9	18.9
62692 2000 TE_{24}	12.3	X	355.20453	36.91180	246.69545	19.12018	0.0580080	0.08245751	5.2277631	21	6 27.4	19.0
62693 2000 TM_{24}	15.7	X	244.06789	240.96259	164.20523	6.07761	0.0106519	0.22638358	2.6662821	21	7 11.4	19.4
62694 2000 TV_{24}	15.1	X	245.24094	229.77662	208.27587	21.47871	0.0484342	0.22906453	2.6454374	21	8 15.6	19.2
62695 2000 TW_{24}	15.1	X	249.88316	212.64803	342.67129	4.36349	0.0780674	0.19826351	2.9127790	21	—	—
62696 2000 TT_{25}	14.9	X	202.13621	261.18618	213.50057	0.31043	0.1543066	0.17889759	3.1193663	21	8 8.4	19.9
62697 2000 TV_{25}	15.7	X	251.72387	272.85506	180.17913	1.10162	0.0961316	0.18401359	3.0612780	21	9 8.7	20.1
62698 2000 TO_{28}	14.7	X	199.08225	54.93577	155.34798	9.91086	0.0097492	0.19345630	2.9608345	21	12 12.6	19.0
62699 2000 TQ_{28}	15.3	X	51.17602	322.44986	29.28565	14.27299	0.1735048	0.24419916	2.5349726	21	—	—
62700 2000 TA_{30}	16.3	X	306.91813	166.94712	118.54459	3.25372	0.2021372	0.26858633	2.3791041	21	3 23.3	19.3
62701 Davidrankin	14.4	X	222.96165	242.57892	210.42367	21.10949	0.1878255	0.17895655	3.1186812	21	7 24.6	19.9
62702 2000 TU_{32}	14.7	X	37.32202	301.58439	60.69409	11.30779	0.1178489	0.19258039	2.9698055	21	12 15.8	18.7
62703 2000 TG_{34}	14.0	X	334.18494	19.74617	26.08867	10.24389	0.2778111	0.18224565	3.0810442	21	10 30.3	16.6
62704 2000 TT_{35}	15.6	X	300.72421	12.52688	262.86175	0.99574	0.0397067	0.21661591	2.7458437	21	3 31.2	19.2
62705 2000 TY_{36}	14.9	X	33.87111	120.40417	152.80540	1.32787	0.0690236	0.18416634	3.0595851	21	8 12.4	18.9
62706 2000 TD_{38}	14.7	X	334.74518	334.19405	25.10978	14.23709	0.1726034	0.23448062	2.6045423	21	9 14.7	17.3
62707 2000 TF_{38}	15.3	X	199.02069	256.46061	85.90074	7.26456	0.1516943	0.26236889	2.4165428	21	2 21.5	19.1
62708 2000 TX_{38}	15.4	X	257.42769	268.92364	71.51526	6.90843	0.1321039	0.26969836	2.3725599	21	4 17.5	18.8
62709 2000 TR_{39}	15.3	X	332.73131	208.58572	136.67639	10.76276	0.1073151	0.23311827	2.6146798	21	8 17.2	18.0
62710 2000 TF_{40}	15.3	X	113.78977	244.63168	30.43591	15.41148	0.1020267	0.24310507	2.5425726	21	11 29.7	19.3
62711 2000 TK_{42}	14.3	X	172.37440	85.35680	43.06327	11.04454	0.0940218	0.18018530	3.1044868	21	8 1.4	19.3
62712 2000 TO_{42}	15.1	X	306.67323	155.17445	94.77499	7.26711	0.0497001	0.21631368	2.7484007	21	3 8.8	18.9
62713 2000 TS_{42}	15.5	X	244.60313	302.50189	33.96624	13.40709	0.2266719	0.26759763	2.3849606	21	3 25.8	19.5
62714 2000 TB_{43}	12.0	X	215.62463	351.27964	71.40017	8.94540	0.0398679	0.08197105	5.2484255	21	6 26.7	19.0
62715 2000 TR_{43}	14.1	X	326.19408	4.70073	60.84253	11.78773	0.0885051	0.19199723	2.9758160	21	11 19.4	17.8
62716 2000 TS_{44}	14.5	X	220.68201	6.26232	65.70928	8.24162	0.0887427	0.17913405	3.1166207	21	7 10.1	19.2
62717 2000 TW_{44}	14.3	X	222.01040	320.67909	34.61715	18.11068	0.1795443	0.17159516	3.2072492	21	4 7.8	19.6
62718 2000 TR_{45}	14.4	X	286.35716	310.59491	68.29348	10.41502	0.0878258	0.18174740	3.0866727	21	7 22.9	18.7
62719 2000 TB_{47}	14.8	X	65.05282	353.32527	118.12907	5.37072	0.0245417	0.21170542	2.7881410	21	2 19.1	18.4
62720 2000 TH_{48}	16.1	X	187.76575	10.89726	161.69739	7.63823	0.1185323	0.28364197	2.2941530	21	10 17.9	19.4

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62721 2000 TM_{50}	14.7	X	317.98051	332.00280	123.71733	11.45949	0.0822471	0.19285930	2.9669416	21	12 16.5	18.5
62722 2000 TQ_{50}	14.9	X	291.26499	202.28977	77.84425	10.00253	0.1201852	0.21646433	2.7471254	21	3 19.8	18.9
62723 2000 TG_{51}	15.3	X	292.69261	176.21443	147.73273	11.82438	0.0543672	0.22117494	2.7079799	21	5 25.1	19.2
62724 2000 TL_{51}	14.7	X	11.74511	283.14608	91.02363	9.94559	0.0978058	0.19005753	2.9960288	21	11 24.5	18.5
62725 2000 TW_{51}	14.5	X	48.28354	162.90986	113.19958	10.45050	0.0538731	0.18153710	3.0890560	21	9 7.0	18.8
62726 2000 TN_{55}	13.3	X	225.04468	210.89422	106.16226	28.69114	0.0995933	0.16157011	3.3385819	21	3 4.7	18.9
62727 2000 TQ_{55}	15.1	X	191.44979	219.00453	158.14930	11.88541	0.0729120	0.21331880	2.7740650	21	4 1.5	19.3
62728 2000 TV_{56}	14.5	X	304.78826	10.40009	45.74867	15.17799	0.0939961	0.23556714	2.5965274	21	10 16.0	17.6
62729 2000 TY_{58}	14.5	X	285.93709	268.21395	112.81342	11.99303	0.0808629	0.17990057	3.1077616	21	7 24.7	18.8
62730 2000 TE_{59}	15.0	X	12.93089	217.28953	99.13823	9.23003	0.2982556	0.28201558	2.3029649	21	10 30.6	17.0
62731 2000 TO_{59}	14.3	X	353.00957	261.09417	90.50496	17.05170	0.0588967	0.18462840	3.0544783	21	10 3.4	18.7
62732 2000 TQ_{59}	14.5	X	43.75469	166.09298	115.38695	15.37123	0.0787298	0.23044589	2.6348551	21	9 18.5	18.1
62733 2000 TX_{59}	13.6	X	184.71659	63.12716	105.58009	17.34413	0.1575791	0.18438916	3.0571198	21	10 5.1	18.9
62734 2000 TX_{60}	14.9	X	12.37687	318.76243	61.71647	15.22993	0.0980186	0.23947665	2.5681907	21	12 11.6	18.1
62735 2000 TY_{60}	14.5	X	112.58487	102.27881	123.34229	12.56272	0.0290638	0.23206849	2.6225590	21	9 27.3	18.3
62736 2000 TZ_{60}	15.6	X	242.77016	226.29799	118.05748	9.19895	0.2545932	0.26698898	2.3885838	21	4 1.0	19.8
62737 2000 TR_{61}	13.8	X	225.30128	355.68331	95.02646	12.61586	0.0657617	0.17996016	3.1070755	21	8 12.1	18.5
62738 2000 TW_{61}	14.5	X	333.30370	301.69531	87.57736	11.72109	0.1316620	0.18750648	3.0231418	21	10 18.4	18.2
62739 2000 TW_{62}	14.6	X	298.05752	274.19771	61.91084	6.15063	0.1115783	0.17592825	3.1543678	21	6 7.6	18.8
62740 2000 TU_{64}	14.8	X	237.05040	332.20637	142.18236	5.81600	0.1630666	0.18461069	3.0546737	21	9 11.8	19.5
62741 2000 TR_{66}	14.7	X	19.34943	330.69650	249.97835	0.29255	0.0872788	0.17074558	3.2178792	21	5 14.0	18.8
62742 2000 TD_{68}	15.9	X	130.92027	53.97186	203.61979	2.17976	0.1280106	0.24028836	2.5624037	21	11 29.5	19.9
62743 2000 UA_{1}	14.3	X	100.31089	83.86259	224.98158	15.68396	0.0754496	0.23970180	2.5665822	21	12 26.3	18.2
62744 2000 UX_{1}	13.7	X	99.34850	17.42662	55.75260	9.25238	0.0326086	0.15996818	3.3608333	21	2 28.5	18.5
62745 2000 UY_{1}	15.9	X	270.41263	277.35882	92.67566	4.03350	0.1719983	0.27117922	2.3639146	21	6 4.4	19.2
62746 2000 UE_{2}	14.3	X	79.51215	307.95681	74.39582	2.70317	0.1109404	0.19826600	2.9127545	21	—	—
62747 2000 UB_{3}	15.5	X	75.89710	258.71396	44.46809	8.03299	0.2273716	0.23929136	2.5695163	21	12 9.2	19.6
62748 2000 UV_{3}	14.4	X	64.65019	219.95001	26.88130	13.89379	0.0901281	0.17986401	3.1081827	21	8 30.8	18.9
62749 2000 UM_{4}	16.2	X	183.24887	198.82698	143.01086	3.03576	0.1670610	0.25646347	2.4534980	21	2 4.7	20.1
62750 2000 UO_{4}	14.6	X	359.86977	246.74585	59.81729	12.50479	0.0727949	0.22631335	2.6668337	21	8 13.4	18.0
62751 2000 UD_{5}	16.1	X	154.11112	250.55436	229.40304	0.68766	0.1359557	0.26617710	2.3934384	21	6 30.9	19.7
62752 2000 UB_{6}	15.7	X	104.58529	111.34541	225.38844	3.33333	0.1969255	0.24701984	2.5156380	21	—	—
62753 2000 UM_{7}	13.6	X	213.19808	291.09952	218.03244	9.76480	0.0728009	0.18449400	3.0559615	21	10 5.2	18.1
62754 2000 US_{7}	14.6	X	9.11742	297.30942	41.76947	11.78118	0.2055931	0.23358224	2.6112163	21	10 26.1	17.0
62755 2000 UF_{8}	15.2	X	245.27597	238.89437	226.65895	4.10956	0.0537199	0.27828275	2.3235135	21	10 1.6	18.1
62756 2000 UN_{8}	14.9	X	104.34386	202.02219	177.40484	2.09603	0.1371962	0.20156738	2.8808626	21	1 2.4	18.7
62757 2000 UU_{8}	15.6	X	238.05442	301.29233	39.98580	6.75601	0.1416379	0.26297628	2.4128204	21	3 28.5	19.2
62758 2000 UH_{9}	14.8	X	246.00674	179.24779	258.00954	1.34759	0.1798656	0.17639702	3.1487768	21	8 2.5	19.7
62759 2000 UK_{9}	13.3	X	224.74198	23.49517	53.30868	16.62542	0.1135140	0.17454368	3.1710272	21	7 20.3	18.4
62760 2000 UR_{9}	13.0	X	227.70205	323.26581	56.23076	22.22715	0.0526093	0.16882170	3.2422801	21	5 16.3	17.6
62761 2000 UA_{12}	14.2	X	266.87454	321.06627	59.57699	13.22523	0.2088172	0.22681370	2.6629102	21	6 9.7	18.1
62762 2000 UB_{12}	14.7	X	58.48541	53.13732	57.84032	14.68187	0.1754421	0.25687488	2.4508776	21	2 18.6	17.3
62763 2000 UG_{12}	15.0	X	254.87750	76.61721	219.18616	3.32221	0.0783109	0.21216141	2.7841446	21	2 24.4	19.2
62764 2000 UL_{13}	13.8	X	219.99766	159.34545	233.15589	11.00960	0.1113698	0.17228218	3.1987170	21	5 19.7	18.7
62765 2000 UH_{14}	14.2	X	16.03096	236.80291	69.16582	10.93423	0.0789501	0.18258304	3.0772475	21	9 5.1	18.3
62766 2000 UB_{15}	15.2	X	347.92547	117.23883	257.45914	5.61585	0.1105560	0.28028138	2.3124546	21	11 3.8	17.3
62767 2000 UQ_{17}	15.6	X	359.30208	27.01392	64.92290	12.35555	0.1335551	0.24398207	2.5364761	21	—	—
62768 2000 UT_{17}	15.5	X	33.32971	278.96519	93.28506	5.86547	0.2079791	0.24038134	2.5617430	21	—	—
62769 2000 UB_{18}	15.3	X	216.61906	201.63041	139.57831	7.13530	0.0703830	0.21286804	2.7779797	21	3 14.3	19.4
62770 2000 UK_{18}	13.9	X	77.67613	64.35477	127.23812	5.65630	0.0875528	0.17293542	3.1906568	21	6 30.2	18.3
62771 2000 UN_{18}	14.2	X	89.60971	182.89303	3.56998	10.41290	0.0380087	0.17153501	3.2079988	21	7 3.1	18.9
62772 2000 UY_{19}	15.1	X	21.30529	253.34058	80.71936	2.95958	0.0912469	0.18675485	3.0312479	21	10 16.6	18.9
62773 2000 UB_{20}	16.2	X	281.33362	258.21691	44.21454	3.25316	0.2112584	0.26662632	2.3907493	21	3 14.9	19.8
62774 2000 UE_{20}	14.9	X	69.79497	168.26356	123.96099	1.25897	0.1099648	0.18816315	3.0161041	21	10 30.5	19.2
62775 2000 UG_{20}	15.5	X	194.65511	201.65325	197.59768	5.29614	0.0623631	0.21702077	2.7424276	21	4 30.7	19.5
62776 2000 UR_{20}	14.7	X	50.77226	246.98996	42.98979	10.82114	0.1043815	0.18498511	3.0505504	21	10 5.8	18.8
62777 2000 UE_{21}	14.7	X	308.35593	296.39728	80.05465	3.00217	0.1987905	0.18139203	3.0907028	21	8 3.8	18.5
62778 2000 UU_{21}	14.8	X	55.51237	142.93694	198.70290	9.54764	0.1013004	0.19155312	2.9804138	21	12 11.8	19.1
62779 2000 UC_{22}	14.2	X	196.30782	14.27057	87.11627	7.44231	0.0430989	0.17603378	3.1531070	21	7 22.8	18.9
62780 2000 UF_{22}	14.2	X	282.77435	201.80998	54.22916	13.65815	0.2070076	0.21101212	2.7942448	21	1 28.7	18.8
62781 2000 UE_{23}	14.7	X	69.10938	242.46932	73.02474	9.76031	0.0308776	0.18882215	3.0090824	21	11 17.2	18.9
62782 2000 UF_{23}	16.0	X	114.36953	14.63893	111.42849	4.89355	0.1322212	0.26260170	2.4151143	21	5 26.0	19.2
62783 2000 UO_{23}	14.2	X	351.18792	244.61265	119.21603	4.01097	0.2605692	0.18603712	3.0390393	21	10 17.5	16.8
62784 2000 UW_{23}	14.2	X	291.92100	262.58571	71.63938	11.84485	0.1551272	0.17483494	3.1675044	21	5 22.6	18.6
62785 2000 UC_{24}	16.0	X	85.35149	244.56130	105.97726	5.24145	0.2153507	0.29277756	2.2461781	21	—	—
62786 2000 UQ_{24}	15.3	X	39.52467	247.20647	87.33742	8.43815	0.2124152	0.23725749	2.5841800	21	12 8.1	18.6
62787 2000 UH_{25}	15.3	X	57.43183	147.32610	171.90477	4.82166	0.3052356	0.23960243	2.5672918	21	12 20.4	19.4
62788 2000 UW_{25}	15.2	X	317.02660	43.63506	76.42128	9.70794	0.1205388	0.24086874	2.5582859	21	—	—
62789 2000 UZ_{25}	13.5	X	349.89532	88.22243	216.10732	21.03870	0.1079745	0.17691047	3.1426814	21	7 11.6	17.8
62790 2000 UL_{26}	15.4	X	242.50854	160.19853	177.16010	6.97271	0.2411556	0.26433521	2.4045439	21	3 20.0	19.3
62791 2000 UT_{26}	14.4	X	193.47500	302.72996	151.05934	6.57656	0.1083373	0.17256690	3.1951976	21	7 6.8	19.4
62792 2000 UV_{28}	15.2	X	86.05215	240.25854	64.08055	14.23400	0.1743531	0.24176271	2.5519755	21	12 15.4	19.1
62793 2000 UZ_{28}	16.3	X	270.78123	194.19205	90.03394	1.53786	0.2055934	0.26277351	2.4140615	21	2 10.2	20.0
62794 Scheirich	14.6	X	282.98627	312.24004	62.69171	3.61011	0.1144291	0.17639298	3.1488250	21	7 7.8	18.9
62795 2000 UY_{34}	14.6	X	74.11907	318.89701	25.53792	9.78532	0.0728775	0.19429023	2.9523561	21	—	—
62796 2000 UO_{35}	15.8	X	196.44975	249.13031	55.53709	2.82115	0.1853955	0.25469486	2.4648430	21	1 4.2	19.8
62797 2000 UH_{36}	14.7	X	14.90029	340.12705	49.49411	3.44483	0.1034141	0.19101406	2.9860185	21	12 17.4	18.5
62798 2000 UO_{36}	15.0	X	284.95062	216.78779	60.12309	4.63861	0.0580630	0.21285635	2.7780815	21	3 13.9	18.9
62799 2000 UQ_{36}	16.0	X	230.10039	275.65717	41.79153	3.10547	0.2062010	0.26087639	2.4257509	21	2 16.8	20.0
62800 2000 UT_{36}	15.0	X	248.76427	49.25397	42.91333	10.06740	0.0795182	0.18105834	3.0944990	21	9 11.4	19.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62801 2000 UV_{36}	15.3	X	31.64520	239.69540	223.88391	1.15448	0.0322506	0.20271294	2.8699989	21	—	—
62802 2000 UG_{37}	15.0	X	16.34956	152.79451	194.63345	4.24620	0.1805580	0.23525377	2.5988327	21	11 16.2	17.8
62803 2000 UU_{37}	14.3	X	329.53501	275.51931	216.67185	1.37146	0.0621736	0.19731353	2.9221206	21	—	—
62804 2000 UF_{38}	13.9	X	271.58445	329.05372	34.80519	11.12273	0.0697083	0.17402203	3.1773610	21	6 13.9	18.6
62805 2000 UP_{39}	14.9	X	150.51314	250.69452	171.30487	2.31004	0.0576745	0.21304781	2.7764168	21	4 8.9	18.8
62806 2000 UW_{39}	15.2	X	111.21432	325.15184	65.91948	3.09288	0.0872094	0.20403424	2.8575950	21	1 18.7	19.0
62807 2000 UL_{40}	14.6	X	235.46139	314.73923	153.47721	5.50080	0.1276672	0.18072360	3.0983191	21	9 5.4	19.1
62808 2000 UQ_{40}	14.6	X	19.63865	321.54962	111.25845	3.08374	0.0848647	0.19655848	2.9295990	21	—	—
62809 2000 UE_{42}	16.7	X	99.05915	176.10415	174.08133	1.98777	0.0700293	0.29271173	2.2465149	21	—	—
62810 2000 UH_{42}	14.9	X	245.59499	272.85064	59.78557	6.60106	0.0861269	0.21485259	2.7608468	21	4 3.9	19.0
62811 2000 UX_{42}	15.2	X	93.96189	296.93921	81.85468	3.26562	0.0795547	0.19990514	2.8968104	21	—	—
62812 2000 UC_{43}	15.1	X	15.50433	149.28206	89.46731	3.14485	0.0239162	0.21831695	2.7315621	21	5 27.9	18.5
62813 2000 UH_{43}	14.9	X	359.77144	208.80220	102.47955	2.18744	0.1409357	0.22765679	2.6563317	21	8 17.8	17.5
62814 2000 UK_{43}	15.7	X	331.61931	79.49766	52.89843	5.25724	0.1056499	0.24440771	2.5335304	21	—	—
62815 2000 UW_{43}	15.2	X	296.05716	122.00743	243.83390	5.95590	0.1285636	0.27336320	2.3513070	21	7 11.3	17.9
62816 2000 UC_{44}	14.4	X	45.30239	263.71003	40.67896	12.16516	0.0769372	0.18388729	3.0626796	21	10 12.1	18.6
62817 2000 UH_{45}	14.8	X	114.63505	84.13677	204.45624	8.17107	0.0620887	0.19098885	2.9862812	21	12 9.7	19.3
62818 2000 US_{45}	16.2	X	98.40494	72.01792	73.35995	3.66075	0.1128363	0.26253071	2.4155497	21	5 28.2	19.1
62819 2000 UV_{45}	15.0	X	286.29967	264.88412	59.85702	8.40559	0.1134383	0.21919942	2.7242259	21	5 6.4	18.6
62820 2000 UF_{46}	13.9	X	233.12397	79.39556	333.87739	2.51658	0.2195509	0.12633122	3.9336488	21	6 19.3	20.1
62821 2000 UE_{47}	15.4	X	345.10880	207.16861	204.66433	1.69855	0.0215993	0.23680579	2.5874651	21	12 6.9	18.6
62822 2000 UV_{48}	14.6	X	342.77340	145.97647	227.21411	5.88900	0.0844175	0.18354687	3.0664653	21	10 4.8	18.4
62823 2000 UE_{49}	14.2	X	241.22222	169.00052	210.56754	6.31005	0.1031050	0.17129897	3.2109451	21	5 27.0	19.0
62824 2000 UG_{49}	14.6	X	278.61833	239.21090	64.34979	10.32844	0.1865595	0.21563415	2.7541717	21	3 26.2	18.9
62825 2000 UT_{49}	14.5	X	269.57082	257.28150	164.17130	1.31372	0.1637577	0.17806924	3.1290328	21	8 11.6	19.0
62826 2000 UU_{50}	14.7	X	335.57773	109.83427	239.47514	13.38200	0.1478574	0.22747254	2.6577659	21	8 17.9	17.8
62827 2000 UX_{50}	14.2	X	76.25401	73.60603	240.68485	11.84640	0.1686950	0.23662922	2.5887521	21	12 17.2	18.1
62828 2000 UN_{53}	14.2	X	183.79964	328.58374	133.84505	3.07850	0.1538115	0.17216129	3.2002142	21	7 7.7	19.3
62829 2000 UP_{53}	14.3	X	313.21824	264.26456	89.72411	5.96961	0.1618472	0.17909699	3.1170506	21	7 17.4	18.0
62830 2000 UZ_{53}	15.9	X	142.53547	156.15050	167.88741	3.92264	0.2249083	0.29698999	2.2248881	21	—	—
62831 2000 UM_{54}	14.1	X	333.69102	278.19355	80.33604	9.65565	0.1225274	0.18107376	3.0943234	21	9 5.8	17.9
62832 2000 UN_{54}	13.5	X	145.51801	56.94005	72.18269	10.97368	0.1169497	0.17014936	3.2253920	21	7 3.1	18.6
62833 2000 UB_{56}	14.4	X	4.68100	106.92766	238.77321	13.05834	0.1643533	0.23083965	2.6318580	21	10 16.4	17.3
62834 2000 UC_{56}	14.6	X	273.43681	133.78028	213.63761	10.79386	0.1776178	0.22012786	2.7165605	21	5 10.9	18.5
62835 2000 UC_{58}	15.3	X	150.97861	164.38321	299.93582	5.07611	0.0994762	0.21904738	2.7254863	21	6 5.2	19.3
62836 2000 UC_{59}	14.0	X	166.25190	237.40687	5.37033	8.69082	0.2249063	0.24249425	2.5468405	21	12 10.1	18.5
62837 2000 UJ_{59}	15.2	X	114.40923	156.11703	302.40409	4.48301	0.0567742	0.21387837	2.7692243	21	4 8.8	19.0
62838 2000 UB_{60}	15.9	X	4.55303	320.59745	344.17829	4.50230	0.2678916	0.27865225	2.3214590	21	9 5.9	16.8
62839 2000 UX_{60}	14.4	X	84.72925	264.18052	8.00106	9.78281	0.0665313	0.18659000	3.0330330	21	10 15.5	18.7
62840 2000 UB_{61}	15.4	X	162.92627	188.80730	275.37697	4.04197	0.0656550	0.22054353	2.7131461	21	6 16.9	19.2
62841 2000 UN_{61}	14.9	X	52.66732	317.24738	354.77049	6.22993	0.1480928	0.23631845	2.5910212	21	11 13.6	18.4
62842 2000 UF_{63}	15.1	X	0.83153	30.04977	296.26305	3.01219	0.1432251	0.23084561	2.6318126	21	9 9.8	17.8
62843 2000 UC_{64}	15.0	X	258.00888	292.29464	348.22019	12.15105	0.1692715	0.21136951	2.7910942	21	2 6.5	19.5
62844 2000 UK_{64}	14.7	X	181.93700	270.73107	245.09884	8.84637	0.0579346	0.18264382	3.0765648	21	9 7.3	19.5
62845 2000 UB_{67}	15.5	X	337.12481	328.33023	347.74270	3.72009	0.1442607	0.22681318	2.6629143	21	7 9.7	18.2
62846 2000 UX_{67}	14.0	X	39.86863	199.13832	358.02509	4.49064	0.0656657	0.16875772	3.2430996	21	5 11.7	18.3
62847 2000 UL_{68}	16.1	X	206.03490	47.13397	341.60080	6.23535	0.1271697	0.26529248	2.3987561	21	4 21.9	19.8
62848 2000 US_{71}	13.9	X	318.25023	89.64731	245.18268	9.08729	0.0832288	0.17687917	3.1430522	21	7 7.9	18.0
62849 2000 UA_{72}	14.8	X	143.00413	32.94821	241.64190	9.92169	0.1655083	0.24193209	2.5507843	21	12 30.0	19.1
62850 2000 UC_{72}	15.2	X	164.94819	246.66973	346.50625	2.78814	0.0808250	0.28524470	2.2855514	21	12 11.1	18.4
62851 2000 UM_{72}	14.4	X	274.01434	122.81406	261.11347	4.15373	0.1211186	0.22447631	2.6813636	21	7 6.3	17.9
62852 2000 UM_{76}	15.1	X	181.55247	261.25940	77.41723	12.94133	0.2306771	0.25649799	2.4532778	21	2 6.5	19.4
62853 2000 UO_{76}	14.4	X	28.01024	14.86520	21.47218	3.12827	0.1094638	0.19203332	2.9754431	21	—	—
62854 2000 UW_{76}	14.7	X	163.11198	349.97422	152.72139	1.34388	0.1133117	0.17578720	3.1560549	21	8 6.1	19.5
62855 2000 UE_{77}	14.2	X	96.77351	53.41213	216.80249	11.17763	0.1794766	0.23569609	2.5955803	21	11 15.4	18.2
62856 2000 UL_{77}	16.1	X	151.04376	195.74699	112.93304	3.94496	0.1023082	0.29509647	2.2343955	21	—	—
62857 2000 UM_{77}	15.8	X	95.40112	188.52488	120.76273	3.08719	0.1962086	0.24161728	2.5529995	21	—	—
62858 2000 UT_{78}	14.1	X	97.87731	183.38058	51.25975	7.30131	0.1256003	0.17991909	3.1075483	21	9 25.7	18.8
62859 2000 UW_{78}	14.2	X	157.98647	121.15873	65.56925	5.86114	0.0954142	0.18027907	3.1034102	21	9 26.5	19.0
62860 2000 UJ_{80}	14.2	X	156.90963	20.26331	230.63170	8.84777	0.0377650	0.19111505	2.9849665	21	12 9.7	18.6
62861 2000 UO_{80}	15.0	X	30.00052	52.52318	223.60640	11.10519	0.1141692	0.22591127	2.6699971	21	8 13.6	18.4
62862 2000 UE_{81}	14.4	X	181.67764	31.43324	88.29841	6.58957	0.0930853	0.17447460	3.1718641	21	7 28.5	19.3
62863 2000 UG_{81}	15.4	X	316.98811	350.83952	120.14178	4.35721	0.1032289	0.23994335	2.5648594	21	—	—
62864 2000 UG_{82}	15.3	X	79.30798	347.39300	342.74871	7.51872	0.2779137	0.24192023	2.5508676	21	—	—
62865 2000 UL_{82}	15.2	X	265.98361	303.65662	15.91700	12.50821	0.1942425	0.22265711	2.6959490	21	3 27.6	19.3
62866 2000 UX_{82}	14.7	X	216.20427	284.14651	138.08661	4.17080	0.0469317	0.17500201	3.1654881	21	6 25.5	19.3
62867 2000 UG_{83}	15.5	X	127.84713	343.75143	90.46915	5.69740	0.0477710	0.21277081	2.7788260	21	3 29.7	19.4
62868 2000 UV_{83}	14.8	X	197.21078	238.02212	139.44441	5.00648	0.0871784	0.21401442	2.7680506	21	4 7.5	19.0
62869 2000 UO_{84}	14.4	X	183.93785	351.49157	207.47729	14.25940	0.0961604	0.18875120	3.0098365	21	11 4.7	19.0
62870 2000 UD_{86}	14.6	X	223.76279	46.69243	100.94532	5.98472	0.0327712	0.18665265	3.0323543	21	10 24.6	18.9
62871 2000 UA_{87}	14.8	X	10.68925	218.12835	192.99755	9.80431	0.0609595	0.19288226	2.9667061	21	—	—
62872 2000 UC_{87}	15.6	X	197.88132	202.19710	77.17381	7.06647	0.1971447	0.29816365	2.2190457	21	—	—
62873 2000 UK_{87}	15.4	X	35.29080	102.29102	206.36540	11.70199	0.1575062	0.23232578	2.6206224	21	10 19.1	18.5
62874 2000 UV_{88}	14.9	X	23.97177	134.95657	87.19399	4.94629	0.0458196	0.21800717	2.7341491	21	5 18.9	18.2
62875 2000 UB_{89}	14.7	X	209.14047	133.15302	65.85611	13.01058	0.0356981	0.19147333	2.9812417	21	12 6.0	18.9
62876 2000 UH_{90}	15.3	X	36.15155	303.77427	94.95857	7.47857	0.1308027	0.19562863	2.9388750	21	—	—
62877 2000 UQ_{90}	13.4	X	239.43880	5.19386	45.78364	11.05445	0.0987364	0.17346106	3.1842077	21	7 3.3	18.3
62878 2000 UY_{90}	15.0	X	250.14536	234.20500	64.99351	7.03979	0.1829890	0.21634666	2.7481215	21	2 19.8	19.5
62879 2000 UN_{91}	15.2	X	11.16792	76.96888	255.79761	4.92459	0.0536246	0.23241976	2.6199159	21	9 28.5	18.5
62880 2000 US_{91}	14.5	X	13.01594	214.10137	5.89934	7.39871	0.0787093	0.16910513	3.2386564	21	5 1.2	18.7

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62881 2000 UA_{92}	14.6	X	342.38296	293.04798	13.08212	13.87896	0.1637734	0.17860533	3.1227684	21	7 4.8	18.5
62882 2000 UC_{93}	16.3	X	227.88878	149.82714	322.77101	3.76635	0.0903902	0.27700181	2.3306710	21	9 12.7	19.5
62883 2000 UQ_{93}	14.1	X	37.48059	41.32506	237.88782	18.67237	0.0477148	0.17995359	3.1071511	21	8 14.2	18.7
62884 2000 UY_{93}	14.5	X	127.32068	207.94328	11.92932	10.92186	0.0236537	0.18320163	3.0703165	21	9 28.4	18.8
62885 2000 UK_{94}	15.1	X	197.33622	221.58250	13.52773	5.80814	0.1335146	0.29064510	2.2571515	21	—	—
62886 2000 UV_{95}	14.7	X	78.91728	70.76675	263.15125	8.04775	0.0779741	0.19280705	2.9674776	21	12 26.1	19.0
62887 2000 UX_{95}	14.3	X	173.11898	329.09317	261.89929	7.84412	0.0890587	0.19091635	2.9870372	21	12 1.4	19.0
62888 2000 UX_{96}	14.6	X	98.23257	27.71706	235.99047	11.87771	0.2304796	0.23514353	2.5996449	21	11 11.9	18.9
62889 2000 UZ_{96}	14.9	X	44.53361	320.22151	353.17519	4.54639	0.1400590	0.23411146	2.6072796	21	11 3.7	18.2
62890 2000 UZ_{99}	14.1	X	0.99563	66.94866	258.36785	9.65824	0.0874725	0.18026245	3.1036009	21	8 27.5	18.2
62891 2000 UK_{100}	15.9	X	62.51775	349.54524	5.31452	5.47359	0.1629545	0.28870409	2.2672570	21	—	—
62892 2000 UZ_{100}	14.9	X	348.64791	66.39313	259.41891	10.64578	0.1838962	0.22763466	2.6565039	21	8 10.6	17.6
62893 2000 UM_{101}	15.7	X	114.77680	194.35339	347.71439	6.33696	0.0387471	0.27148616	2.3621325	21	8 1.6	18.7
62894 2000 UP_{101}	14.7	X	209.24162	263.01303	231.15471	12.81224	0.1305032	0.18061200	3.0995952	21	9 4.2	19.8
62895 2000 UR_{102}	15.4	X	210.26715	49.15849	9.58265	3.24805	0.1153869	0.21925438	2.7237706	21	6 9.1	19.6
62896 2000 UC_{103}	15.0	X	245.64580	66.23250	9.65211	5.34044	0.1071797	0.22494498	2.6776379	21	8 13.4	18.9
62897 2000 UL_{103}	14.3	X	49.25351	284.26870	35.69254	13.89907	0.1764465	0.23449125	2.6044636	21	11 22.8	17.8
62898 2000 UA_{104}	15.6	X	300.96351	199.59846	289.22024	4.93818	0.0551769	0.28678596	2.2773553	21	—	—
62899 2000 UT_{104}	14.3	X	317.15836	358.84443	315.75102	6.52194	0.2148320	0.22153876	2.7050143	21	5 17.7	17.5
62900 2000 UG_{105}	14.5	X	37.78983	279.53613	67.40039	10.95901	0.1100170	0.19159699	2.9799588	21	11 27.1	18.4
62901 2000 UL_{105}	15.0	X	29.19700	94.57824	169.02316	11.04135	0.0928417	0.22620521	2.6676835	21	7 25.8	18.3
62902 2000 UH_{106}	15.3	X	282.06641	252.47504	105.17505	6.89238	0.0727866	0.22378674	2.6868689	21	6 19.4	18.8
62903 2000 UK_{106}	14.8	X	59.06453	160.50062	173.10136	9.90754	0.0618354	0.19097777	2.9863968	21	12 1.9	19.2
62904 2000 UZ_{106}	14.8	X	306.40241	29.23946	77.69974	11.17776	0.0636782	0.19183035	2.9775416	21	12 13.2	18.5
62905 2000 UQ_{107}	14.6	X	276.68823	51.75728	84.18916	11.83350	0.0553819	0.19140986	2.9819007	21	12 10.0	18.7
62906 2000 UR_{107}	14.4	X	12.17000	220.91755	106.23880	10.05522	0.0622351	0.18287814	3.0739363	21	9 24.8	18.6
62907 2000 UC_{108}	15.7	X	166.71843	9.01900	139.88530	6.66318	0.1102908	0.27342014	2.3509806	21	8 22.4	19.2
62908 2000 UH_{108}	15.1	X	276.19268	191.94593	186.63792	14.32929	0.1054247	0.17706076	3.1409029	21	7 3.3	19.8
62909 2000 UY_{108}	15.8	X	156.48512	26.85014	139.73742	6.39662	0.1405900	0.27239768	2.3568600	21	9 5.0	19.3
62910 2000 UK_{109}	13.4	X	204.86201	4.16900	91.37325	11.12097	0.0676841	0.17443752	3.1723136	21	7 24.0	18.2
62911 2000 UR_{109}	14.3	X	15.97525	193.02265	200.17553	12.21509	0.1384455	0.19025994	2.9939036	21	12 26.9	18.3
62912 2000 UD_{110}	15.2	X	117.37696	223.51019	114.26576	7.15324	0.1732954	0.24603521	2.5223453	21	—	—
62913 2000 UK_{110}	15.3	X	293.68301	96.18011	189.03204	6.24300	0.0258234	0.21455781	2.7633751	21	4 7.1	18.8
62914 2000 VX_{2}	14.3	X	64.62652	326.44798	49.46562	10.36799	0.1068014	0.19427668	2.9524934	21	—	—
62915 2000 VY_{2}	13.8	X	320.45158	333.48008	55.17134	11.55948	0.1185441	0.18132617	3.0914511	21	9 25.5	17.7
62916 2000 VW_{3}	15.5	X	33.87120	264.68459	19.26975	2.62457	0.1455326	0.22972417	2.6403708	21	9 11.1	18.5
62917 2000 VR_{8}	14.2	X	18.23220	174.89572	48.57622	13.76373	0.0544081	0.16956317	3.2328213	21	5 14.4	18.5
62918 2000 VY_{9}	15.0	X	280.84152	251.57796	188.88256	1.39502	0.0597721	0.18444207	3.0565351	21	10 5.5	19.0
62919 2000 VH_{10}	16.0	X	121.94654	352.60848	67.88181	3.60654	0.1788760	0.25644175	2.4536365	21	3 15.9	19.4
62920 2000 VB_{12}	14.4	X	158.92785	34.19029	94.35272	2.91367	0.0805974	0.17326167	3.1866501	21	7 14.6	19.3
62921 2000 VJ_{12}	14.4	X	231.81919	236.87474	62.09678	12.37659	0.1675795	0.20963005	2.8065128	21	2 6.2	19.2
62922 2000 VV_{12}	14.3	X	358.89590	146.64349	90.56073	0.41792	0.0708624	0.16795599	3.2534119	21	5 4.7	18.6
62923 2000 VC_{13}	14.7	X	146.27592	63.97397	208.85946	8.97534	0.0191453	0.19261995	2.9693988	21	12 23.7	19.0
62924 2000 VU_{13}	14.2	X	178.99102	256.30935	184.28887	4.55100	0.0730004	0.17030094	3.2234778	21	6 6.8	19.1
62925 2000 VE_{14}	14.4	X	276.88425	180.67579	145.06392	2.03611	0.1740643	0.17180892	3.2045883	21	4 21.7	19.1
62926 2000 VK_{14}	15.0	X	128.84417	117.12589	89.15799	4.90174	0.1865644	0.27513106	2.3412240	21	10 3.1	18.7
62927 2000 VT_{14}	14.8	X	43.38720	343.45400	67.49866	12.94259	0.0461427	0.19671044	2.9280902	21	—	—
62928 2000 VV_{14}	15.6	X	253.33564	232.89101	202.34235	8.23717	0.0981551	0.22681298	2.6629158	21	8 18.6	19.4
62929 2000 VO_{15}	15.5	X	253.66583	207.42139	186.28073	2.02663	0.0974128	0.22258389	2.6965402	21	6 27.1	19.2
62930 2000 VP_{15}	14.5	X	179.07314	166.76184	58.45843	10.77136	0.0536928	0.18994751	2.9971856	21	12 1.8	19.0
62931 2000 VJ_{16}	14.9	X	310.27494	344.19140	63.96490	8.25453	0.0992393	0.27913898	2.3187596	21	10 19.7	17.2
62932 2000 VF_{18}	14.0	X	157.87931	101.85179	93.79199	9.07474	0.0980678	0.18197300	3.0841211	21	10 9.1	18.9
62933 2000 VR_{21}	15.4	X	64.02019	174.06263	64.25834	3.16407	0.1696597	0.27247731	2.3564008	21	9 1.6	18.3
62934 2000 VS_{21}	14.6	X	66.18197	180.27984	57.55099	6.30096	0.0798930	0.17648262	3.1477586	21	8 15.3	19.0
62935 2000 VP_{22}	15.9	X	226.55568	168.39265	349.49360	1.95043	0.1616436	0.28112702	2.3078150	21	11 3.0	18.8
62936 2000 VF_{23}	13.8	X	101.14121	161.97614	40.77819	7.64673	0.0860541	0.17588461	3.1548895	21	8 15.9	18.5
62937 2000 VG_{23}	16.0	X	201.47064	183.23283	140.78073	3.05722	0.2220166	0.25643460	2.4536821	21	2 1.0	20.2
62938 2000 VJ_{23}	15.2	X	263.24722	218.68484	244.34570	4.16465	0.1111567	0.27950009	2.3167620	21	10 14.7	17.8
62939 2000 VP_{23}	15.2	X	331.70229	93.63349	235.58027	3.12742	0.1398044	0.22633306	2.6666788	21	7 17.8	18.0
62940 2000 VS_{23}	15.4	X	40.59259	286.35424	38.65189	7.87463	0.2019367	0.23591247	2.5939929	21	11 23.8	18.7
62941 2000 VB_{24}	14.8	X	219.13869	58.04293	251.89270	2.96218	0.1921638	0.20923233	2.8100681	21	2 3.1	19.6
62942 2000 VC_{25}	14.8	X	39.40544	151.65950	176.02460	0.95601	0.1212834	0.23413855	2.6070784	21	11 14.4	17.9
62943 2000 VY_{25}	14.3	X	52.29001	253.56559	37.12204	10.34321	0.1206814	0.18438357	3.0571816	21	10 9.8	18.4
62944 2000 VF_{28}	14.8	X	176.45360	294.89949	71.04841	13.46451	0.1322472	0.20859395	2.8157985	21	3 10.9	19.5
62945 2000 VH_{28}	15.2	X	219.20914	294.87874	84.53610	8.04089	0.0911060	0.26335066	2.4105332	21	4 30.5	18.7
62946 2000 VG_{30}	14.4	X	226.25518	138.84508	226.16000	12.26739	0.2057278	0.21430588	2.7655403	21	4 12.9	19.2
62947 2000 VV_{31}	14.0	X	300.21246	8.60904	59.60693	10.99054	0.1291028	0.18326008	3.0696637	21	10 12.7	18.0
62948 2000 VE_{32}	14.1	X	34.82811	335.84206	70.23751	10.38176	0.0450889	0.19359082	2.9594628	21	—	—
62949 2000 VS_{33}	14.0	X	32.32831	64.81420	74.26216	15.88463	0.1009345	0.20373849	2.8603598	21	2 18.3	17.7
62950 2000 VD_{34}	13.3	X	276.69539	301.32828	71.75255	23.41961	0.1361256	0.17436262	3.1732220	21	6 21.9	17.9
62951 2000 VE_{34}	15.0	X	32.02484	115.55219	221.05807	7.65278	0.1609723	0.23356428	2.6113501	21	11 22.1	18.1
62952 2000 VV_{34}	14.7	X	34.25741	301.82512	70.70916	13.38845	0.2743190	0.23915275	2.5705090	21	—	—
62953 2000 VR_{35}	14.5	X	97.65943	264.68729	73.37487	10.60297	0.0669558	0.19319742	2.9634789	21	—	—
62954 2000 VD_{36}	13.4	X	221.65645	15.75312	113.52600	16.18440	0.1086618	0.17633575	3.1495062	21	9 24.2	18.4
62955 2000 VZ_{36}	15.2	X	146.39061	348.33808	130.35962	7.26828	0.1058884	0.26108394	2.4244651	21	6 19.4	18.7
62956 2000 VK_{37}	15.3	X	2.33829	129.48308	253.62101	5.18901	0.1408397	0.28085853	2.3092856	21	12 17.6	17.5
62957 2000 VR_{37}	15.4	X	256.76776	314.48209	110.29104	3.40677	0.2125582	0.27087362	2.3656922	21	7 28.4	18.5
62958 2000 VX_{37}	13.7	X	298.69893	300.13746	99.47069	18.78573	0.1579119	0.17587579	3.1549950	21	8 30.3	18.0
62959 2000 VV_{39}	14.2	X	218.34215	91.50755	319.55983	3.35470	0.1414459	0.12610642	3.9383223	21	6 8.6	20.3
62960 2000 VP_{40}	15.5	X	124.97419	315.25167	358.90864	0.93462	0.1083933	0.19808426	2.9145359	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
62961 2000 VO_{42}	15.6	X	50.73284	234.04581	240.14719	4.97083	0.0945275	0.25336182	2.4734811	21	1 25.1	18.4
62962 2000 VA_{43}	14.0	X	298.38862	267.69510	26.65070	12.78665	0.0982079	0.16926954	3.2365589	21	4 18.4	18.4
62963 2000 VW_{43}	15.5	X	133.59023	325.23106	321.03348	3.39969	0.1610624	0.24297445	2.5434838	21	—	—
62964 2000 VE_{44}	15.6	X	86.89006	304.01943	350.75694	3.11475	0.3025003	0.24012194	2.5635876	21	12 15.1	20.0
62965 2000 VH_{44}	15.4	X	153.88300	8.99617	302.66376	1.02094	0.0878606	0.20172641	2.8793483	21	—	—
62966 2000 VB_{45}	14.8	X	212.36309	285.40004	224.64573	10.33871	0.2498941	0.18271368	3.0757804	21	9 19.9	20.2
62967 2000 VM_{45}	15.7	X	144.29190	122.23959	29.46487	6.54298	0.0889781	0.27119792	2.3638059	21	8 2.2	19.1
62968 2000 VD_{48}	14.5	X	117.66208	78.06496	246.66951	9.50915	0.1501473	0.19634526	2.9317196	21	—	—
62969 2000 VN_{49}	14.7	X	325.02033	337.93021	35.19634	0.62053	0.1838265	0.18073347	3.0982063	21	8 31.2	18.1
62970 2000 VY_{49}	15.9	X	221.33287	57.37174	55.42890	2.84346	0.1562744	0.27237963	2.3569641	21	8 30.8	19.3
62971 2000 VZ_{49}	14.5	X	275.88413	85.53885	9.77201	0.99865	0.1823680	0.18216464	3.0819577	21	9 29.5	18.6
62972 2000 VU_{50}	14.9	X	202.73694	294.89368	53.81338	9.82693	0.1735929	0.20967151	2.8061428	21	3 12.7	19.7
62973 2000 VP_{51}	15.1	X	276.10236	18.64743	111.24719	6.65271	0.0140362	0.19125136	2.9835480	21	12 7.2	19.2
62974 2000 VA_{52}	14.4	X	214.42974	272.22237	266.10253	8.32037	0.0819266	0.18832038	3.0144251	21	11 10.8	19.0
62975 2000 VB_{52}	15.7	X	40.94409	353.98820	308.15476	4.64037	0.2811420	0.23425796	2.6061924	21	11 5.6	19.1
62976 2000 VO_{52}	15.3	X	121.31747	329.20874	308.75889	3.69246	0.2206843	0.24002441	2.5642820	21	12 17.5	19.7
62977 2000 VS_{52}	14.5	X	39.05130	317.16830	8.08588	6.33519	0.0498777	0.18560703	3.0437322	21	10 22.1	18.7
62978 2000 VW_{52}	14.3	X	73.49784	38.32350	252.34574	14.35405	0.1197477	0.23433143	2.6056476	21	11 7.8	18.1
62979 2000 VZ_{52}	15.5	X	2.98152	14.75514	267.62508	8.79236	0.1344459	0.27150573	2.3620190	21	7 9.7	17.5
62980 2000 VT_{53}	15.2	X	151.60881	324.16736	315.71489	4.02421	0.1070483	0.24248592	2.5468988	21	—	—
62981 2000 VK_{56}	14.7	X	32.55556	347.44748	30.35148	4.65439	0.0398178	0.19014936	2.9950642	21	12 17.9	18.8
62982 2000 VW_{58}	14.5	X	65.46480	264.78955	77.51832	14.01413	0.1904023	0.23479019	2.6022524	21	—	—
62983 2000 VB_{59}	15.1	X	258.52095	59.77393	242.39733	4.49741	0.1113519	0.21283042	2.7783071	21	3 4.1	19.4
62984 2000 VV_{59}	13.5	X	39.02483	49.43708	235.47950	14.95673	0.0250756	0.17803707	3.1294097	21	8 22.6	18.2
62985 2000 VX_{60}	14.6	X	57.21686	27.34722	219.94922	4.75325	0.0869696	0.17728611	3.1382407	21	8 11.9	18.9
62986 2000 WM	15.6	X	5.23373	214.14608	132.96321	7.57527	0.1477237	0.28140145	2.3063143	21	11 4.1	17.9
62987 2000 WP_{1}	14.6	X	128.95949	304.00743	58.40541	12.85397	0.1904814	0.25490855	2.4634653	21	1 8.9	18.0
62988 2000 WB_{2}	14.2	X	40.19803	351.65732	202.26633	10.92630	0.0347585	0.17184084	3.2041915	21	5 7.8	18.5
62989 2000 WC_{2}	13.5	X	304.51381	134.11631	273.83833	12.23451	0.1154476	0.18198618	3.0839721	21	9 12.5	17.8
62990 2000 WM_{2}	14.2	X	205.28987	85.39508	79.98737	15.28263	0.1247409	0.18586427	3.0409232	21	10 21.1	19.1
62991 2000 WG_{7}	15.5	X	358.12208	224.03567	106.38572	7.44220	0.2291641	0.27854493	2.3220552	21	10 4.4	17.2
62992 2000 WY_{9}	14.5	X	31.75759	242.24572	129.67508	1.31849	0.0920200	0.18825204	3.0151547	21	12 16.6	18.5
62993 2000 WL_{12}	14.2	X	1.11621	245.83997	111.65064	13.57964	0.1321386	0.23224470	2.6212323	21	11 2.5	17.4
62994 2000 WZ_{14}	14.8	X	19.14392	288.76959	53.70568	9.71458	0.1515195	0.18437106	3.0573198	21	10 31.3	18.5
62995 2000 WD_{16}	14.7	X	3.43183	240.07872	54.60847	10.55032	0.2091007	0.22487081	2.6782267	21	8 7.1	17.3
62996 2000 WG_{16}	16.1	X	75.64492	27.16894	54.98977	6.17587	0.0969808	0.29897790	2.2150150	21	1 11.6	18.2
62997 2000 WD_{17}	15.1	X	276.47076	88.58910	351.63814	0.61508	0.1543935	0.18046831	3.1012402	21	9 15.1	19.1
62998 2000 WK_{18}	13.6	X	203.30129	352.84654	81.17880	9.51660	0.0969475	0.17134915	3.2103182	21	6 23.1	18.6
62999 2000 WK_{19}	14.6	X	294.00419	192.55724	155.41309	13.99108	0.3167415	0.22505246	2.6767853	21	5 19.1	18.6
63000 2000 WZ_{20}	14.6	X	274.16056	190.37288	270.22557	5.79715	0.1023599	0.18047602	3.1011520	21	10 12.7	19.0
63001 2000 WW_{21}	15.0	X	346.89516	269.84724	79.17429	12.32547	0.1862614	0.23169613	2.6253681	21	9 27.3	17.7
63002 2000 WH_{22}	14.0	X	298.41487	258.09990	202.18687	10.62049	0.1176738	0.18789288	3.0189958	21	11 18.9	17.8
63003 2000 WY_{22}	14.6	X	326.25252	163.32901	194.94839	10.89361	0.1349893	0.18051765	3.1006752	21	8 14.2	18.4
63004 2000 WA_{23}	14.7	X	84.78413	144.17777	208.96251	11.42832	0.0647130	0.19473551	2.9478538	21	—	—
63005 2000 WF_{23}	14.2	X	78.21296	174.41472	96.35924	12.37473	0.0282812	0.18248346	3.0783669	21	10 8.3	18.7
63006 2000 WE_{24}	14.5	X	349.50957	172.89768	187.69593	8.79904	0.2193206	0.18300521	3.0725131	21	10 3.8	17.2
63007 2000 WF_{30}	13.8	X	285.65608	278.56222	69.85343	21.34108	0.0955525	0.17392548	3.1785368	21	6 8.5	18.2
63008 2000 WH_{31}	14.2	X	187.88299	5.28663	147.53702	6.19424	0.1381836	0.17779133	3.1322927	21	9 11.9	19.3
63009 2000 WH_{32}	13.8	X	129.15307	302.39957	84.47231	16.08273	0.1519786	0.20454513	2.8528348	21	2 17.0	18.2
63010 2000 WQ_{33}	14.5	X	3.41605	286.10284	95.30974	15.71217	0.0214337	0.18573661	3.0423164	21	11 17.5	18.8
63011 2000 WZ_{36}	15.7	X	344.71592	351.95742	130.44484	5.94016	0.0910124	0.29002883	2.2603478	21	—	—
63012 2000 WU_{37}	15.6	X	310.74466	177.59082	107.46518	7.22615	0.1015321	0.26308937	2.4121289	21	4 16.4	18.6
63013 2000 WO_{38}	15.3	X	350.68331	135.72407	162.98454	6.58500	0.1197646	0.27003157	2.3706077	21	7 10.5	17.6
63014 2000 WJ_{39}	15.0	X	131.71887	153.29435	131.50435	5.83739	0.1286715	0.28541498	2.2846423	21	—	—
63015 2000 WK_{39}	13.6	X	84.80353	118.94931	94.68135	18.40698	0.0396968	0.17205638	3.2015148	21	8 1.4	18.2
63016 2000 WE_{40}	14.3	X	51.97248	268.93957	103.60320	12.24429	0.1152981	0.19090153	2.9871918	21	—	—
63017 2000 WB_{41}	14.5	X	59.28067	245.52484	182.16935	7.12274	0.1653543	0.24552989	2.5258049	21	—	—
63018 2000 WO_{41}	13.7	X	99.47739	114.60442	104.47501	19.94650	0.0504553	0.17352255	3.1834554	21	8 31.9	18.5
63019 2000 WY_{41}	15.2	X	266.17584	268.38373	71.52149	5.18799	0.1143739	0.21938152	2.7227181	21	5 1.5	19.1
63020 2000 WW_{44}	15.9	X	235.96629	46.80674	135.19975	1.74622	0.1660397	0.28500282	2.2868444	21	12 18.4	18.6
63021 2000 WK_{46}	14.8	X	60.61467	133.39227	219.84766	7.95164	0.1261632	0.19172047	2.9786792	21	—	—
63022 2000 WV_{46}	14.3	X	56.83208	67.22376	162.61628	5.43878	0.0818052	0.17256698	3.1951966	21	7 19.9	18.6
63023 2000 WB_{48}	15.0	X	97.39297	94.47630	190.28093	4.95114	0.0973312	0.27960211	2.3161984	21	12 3.9	18.2
63024 2000 WH_{48}	15.0	X	212.11110	273.11163	116.38515	8.63262	0.2335527	0.21496743	2.7598635	21	5 5.0	19.9
63025 2000 WC_{52}	14.7	X	133.09160	127.51341	64.59875	2.85940	0.0757379	0.17696436	3.1420433	21	9 4.6	19.3
63026 2000 WF_{54}	15.1	X	208.22028	322.87892	257.17971	5.20223	0.1184556	0.28816214	2.2700989	21	—	—
63027 2000 WL_{56}	15.6	X	88.26103	58.32036	64.35722	5.40624	0.0661875	0.30650963	2.1785789	21	3 31.2	17.8
63028 2000 WF_{57}	14.1	X	332.08977	276.37884	78.37898	10.93747	0.0771110	0.17895766	3.1186683	21	8 31.8	18.3
63029 2000 WH_{57}	13.9	X	198.21812	91.98233	80.15191	16.74869	0.0432495	0.18323162	3.0699815	21	10 27.9	18.6
63030 2000 WK_{58}	15.0	X	31.89890	260.72280	109.44529	2.68734	0.1782088	0.18826263	3.0150416	21	12 26.8	18.9
63031 2000 WC_{62}	14.4	X	37.33783	252.44536	116.37952	11.76375	0.1145041	0.19112465	2.9848665	21	12 24.2	18.4
63032 Billschmitt	13.7	X	296.52894	240.82137	159.74446	16.48466	0.2291653	0.18126447	3.0921526	21	8 10.0	17.7
63033 2000 WM_{65}	14.9	X	254.11929	231.13962	29.31568	8.14198	0.1813784	0.21055200	2.7983141	21	1 7.9	19.6
63034 2000 WV_{67}	14.6	X	271.15750	73.49885	21.88742	12.15943	0.1167770	0.17971900	3.1098544	21	10 4.4	18.7
63035 2000 WX_{67}	14.4	X	47.46913	312.53343	6.88621	10.24840	0.0774496	0.18426166	3.0585299	21	10 27.9	18.6
63036 2000 WL_{69}	14.9	X	348.93019	272.46793	3.26118	13.07718	0.2430259	0.22328211	2.6909158	21	5 17.1	17.5
63037 2000 WB_{70}	15.6	X	63.21594	70.07796	340.10216	6.51000	0.0977544	0.29505057	2.2346272	21	—	—
63038 2000 WP_{70}	14.1	X	293.97521	159.11926	269.80080	9.57935	0.0752640	0.18443878	3.0565715	21	10 1.7	18.4
63039 2000 WS_{71}	14.2	X	10.39176	344.71110	271.00741	10.87317	0.0486070	0.17223590	3.1992900	21	6 14.5	18.5
63040 2000 WT_{74}	14.5	X	105.20748	194.94826	39.06209	10.13852	0.0576851	0.18097514	3.0954474	21	9 26.2	19.0

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63041 2000 WH_{77}	14.9	X	247.04233	158.71976	326.84634	4.31022	0.1392257	0.18354438	3.0664931	21	10 6.2	19.4
63042 2000 WP_{79}	15.1	X	156.30853	289.29805	15.04543	2.50486	0.0593219	0.19715376	2.9236990	21	—	—
63043 2000 WZ_{83}	15.4	X	10.52778	41.82442	272.87103	5.69310	0.1120362	0.27581316	2.3373624	21	9 11.7	17.9
63044 2000 WR_{86}	15.7	X	330.15560	340.26893	12.55403	2.20102	0.2201383	0.27329683	2.3516877	21	8 18.5	17.1
63045 2000 WO_{91}	14.2	X	69.74229	195.87833	69.94345	6.43290	0.1252174	0.17956589	3.1116220	21	10 1.7	18.6
63046 2000 WJ_{93}	14.5	X	251.15989	121.33933	297.92459	0.74141	0.0929954	0.17465632	3.1696636	21	7 27.5	19.0
63047 2000 WQ_{93}	15.6	X	91.16307	31.05234	323.11280	0.93930	0.0656495	0.24184421	2.5514021	21	—	—
63048 2000 WU_{94}	14.5	X	246.35953	329.17979	67.78483	14.46930	0.1068246	0.17186908	3.2038404	21	6 21.5	19.4
63049 2000 WC_{95}	14.8	X	66.31843	346.25154	51.83814	2.57552	0.1127521	0.19612187	2.9339455	21	—	—
63050 2000 WG_{96}	13.8	X	114.77322	1.05002	72.31807	11.19521	0.0917064	0.15799317	3.3887836	21	3 28.4	18.9
63051 2000 WR_{96}	15.1	X	28.70606	240.55596	90.28285	3.58205	0.2868238	0.23322052	2.6139155	21	11 29.5	18.2
63052 2000 WB_{98}	15.1	X	33.61612	278.66591	68.75006	4.74217	0.2247228	0.23431510	2.6057687	21	12 17.7	18.4
63053 2000 WU_{99}	15.5	X	342.15248	54.13870	308.83333	2.39869	0.1365016	0.22863433	2.6487548	21	9 27.1	18.2
63054 2000 WG_{100}	14.6	X	143.27247	69.21514	71.90609	6.28276	0.0393686	0.21753041	2.7381426	21	7 10.9	18.5
63055 2000 WP_{107}	14.6	X	347.01702	180.90291	351.74018	5.83955	0.0087601	0.20452223	2.8530478	21	1 27.9	18.5
63056 2000 WQ_{110}	13.7	X	298.89127	282.52631	56.45207	16.37462	0.1060899	0.17288116	3.1913243	21	6 11.9	18.1
63057 2000 WB_{112}	15.3	X	49.99958	308.65523	15.32900	5.49514	0.1460343	0.28172832	2.3045300	21	12 4.9	18.2
63058 2000 WC_{112}	14.9	X	67.40250	275.81774	282.65923	8.03635	0.0587254	0.21651341	2.7467103	21	6 20.5	18.4
63059 2000 WA_{118}	14.7	X	70.35199	291.39808	64.17739	11.99673	0.2850195	0.24042314	2.5614460	21	—	—
63060 2000 WD_{118}	14.6	X	92.81625	294.14070	71.33734	15.53968	0.1126179	0.24205697	2.5499069	21	—	—
63061 2000 WH_{118}	14.4	X	104.37321	148.59637	64.34297	10.38498	0.0962367	0.21967274	2.7203113	21	9 7.9	18.5
63062 2000 WL_{118}	14.7	X	165.74209	75.61194	52.04289	7.26588	0.1233066	0.21712896	2.7415166	21	7 23.9	19.1
63063 2000 WU_{120}	14.6	X	167.58917	111.26177	66.82819	12.46889	0.1201776	0.22210826	2.7003884	21	10 2.7	19.0
63064 2000 WC_{121}	14.5	X	324.02776	250.76514	63.31857	3.03796	0.1106767	0.17295386	3.1904299	21	6 17.4	18.4
63065 2000 WS_{121}	15.0	X	279.65428	182.12678	129.92809	12.16549	0.1330172	0.21468145	2.7623139	21	4 13.6	19.1
63066 2000 WQ_{122}	14.8	X	147.74078	191.60664	73.87107	10.69726	0.0499099	0.18843015	3.0132543	21	12 16.1	19.2
63067 2000 WZ_{122}	14.0	X	330.94118	247.09021	80.78660	12.81854	0.2843110	0.22285394	2.6943613	21	6 24.2	16.4
63068 Moraes	14.2	X	246.82819	236.90811	216.22765	27.87704	0.2877437	0.17692879	3.1424645	21	8 3.5	19.9
63069 2000 WG_{125}	15.0	X	66.51790	182.60960	152.05945	3.54953	0.0830659	0.18942389	3.0027064	21	12 13.4	19.2
63070 2000 WH_{125}	13.8	X	118.76374	355.79921	233.12863	14.86908	0.2159426	0.18061518	3.0995588	21	10 10.3	19.1
63071 2000 WM_{125}	14.3	X	314.33265	23.92258	267.38077	11.97607	0.0301270	0.16937704	3.2351892	21	5 13.6	18.9
63072 2000 WP_{125}	15.3	X	3.82990	314.94967	56.54112	4.58143	0.2436280	0.28041277	2.3117322	21	12 20.2	17.4
63073 2000 WQ_{125}	15.1	X	143.58904	240.40794	242.57341	9.85371	0.0909099	0.21728670	2.7401896	21	6 20.6	19.2
63074 2000 WU_{125}	13.6	X	37.85502	332.86028	346.50719	8.41628	0.0017839	0.18394531	3.0620356	21	10 5.9	17.9
63075 2000 WC_{126}	14.2	X	40.06556	264.86710	15.34126	14.40320	0.0818085	0.17981625	3.1087330	21	9 6.6	18.4
63076 2000 WV_{127}	14.0	X	298.61483	281.11790	100.78861	10.04794	0.1885712	0.18255306	3.0775844	21	7 28.2	17.9
63077 2000 WT_{128}	15.2	X	279.61603	276.70989	348.17088	3.24311	0.0546988	0.21250081	2.7811793	21	2 18.9	19.0
63078 2000 WC_{130}	13.8	X	290.48594	256.24905	349.79593	11.41615	0.1358824	0.20084195	2.8877954	21	2 2.9	18.1
63079 2000 WY_{130}	15.2	X	111.53089	94.80493	232.14852	4.27217	0.1691389	0.24383754	2.5374783	21	—	—
63080 2000 WW_{132}	14.0	X	115.60793	131.27955	4.41859	15.82071	0.0394369	0.16886009	3.2417887	21	5 26.7	18.9
63081 2000 WP_{133}	14.6	X	137.04186	67.96441	341.80853	7.61066	0.0732916	0.25705016	2.4497633	21	3 3.6	17.8
63082 2000 WU_{133}	14.6	X	138.42374	158.80902	289.64274	8.22545	0.1244816	0.21367204	2.7710067	21	5 2.2	18.9
63083 2000 WG_{134}	13.9	X	0.32494	334.39069	15.32883	11.26785	0.1294574	0.18414190	3.0598558	21	10 6.1	17.4
63084 2000 WP_{134}	14.8	X	44.96514	326.37116	353.67796	8.58286	0.0268899	0.18505528	3.0497792	21	10 18.7	19.1
63085 2000 WM_{135}	14.3	X	262.88551	59.83778	25.03036	12.07742	0.0830638	0.17664463	3.1458337	21	9 17.9	18.8
63086 2000 WQ_{135}	13.6	X	277.45328	315.58980	78.22453	18.04378	0.1472939	0.17288316	3.1912997	21	7 20.8	18.3
63087 2000 WC_{137}	13.0	X	27.42359	216.01324	86.52964	20.92188	0.0058713	0.17864524	3.1223032	21	9 14.3	17.8
63088 2000 WM_{139}	14.2	X	20.52388	192.16800	44.30740	6.60162	0.1239701	0.16979660	3.2298577	21	6 7.1	18.0
63089 2000 WX_{139}	15.3	X	69.66466	97.32252	77.12775	5.75474	0.0561176	0.21548131	2.7554740	21	5 21.9	18.8
63090 2000 WY_{139}	16.6	X	59.18749	233.42020	87.08595	1.12980	0.1605277	0.28426995	2.2907731	21	12 14.6	19.5
63091 2000 WZ_{141}	14.3	X	74.74206	35.11571	170.57864	17.52857	0.0229436	0.17425919	3.1744775	21	7 4.4	19.1
63092 2000 WJ_{142}	14.0	X	56.39580	185.65609	142.03628	15.94321	0.2059816	0.19164668	2.9794437	21	12 12.1	18.6
63093 2000 WM_{142}	14.5	X	318.01011	291.89726	104.15484	18.19720	0.0746237	0.18459821	3.0548114	21	10 8.8	18.8
63094 2000 WP_{142}	13.8	X	220.16380	8.89552	161.05180	10.21468	0.0708369	0.18608350	3.0385342	21	11 12.1	18.4
63095 2000 WS_{142}	14.9	X	311.74972	141.79441	179.00598	15.64855	0.1101369	0.22118210	2.7079215	21	6 7.2	18.6
63096 2000 WX_{142}	14.8	X	313.01129	238.39575	131.54112	12.36748	0.2432094	0.22883279	2.6472231	21	7 27.9	17.3
63097 2000 WK_{143}	14.7	X	66.63625	35.90982	233.57466	14.98205	0.1851543	0.18152088	3.0892401	21	10 3.9	19.3
63098 2000 WC_{146}	14.6	X	261.98672	330.66722	142.41838	13.04142	0.0963657	0.18511812	3.0490890	21	10 21.5	19.0
63099 2000 WM_{146}	13.8	X	346.07289	222.02883	151.18625	16.81346	0.2585550	0.18430506	3.0580497	21	10 21.2	16.8
63100 2000 WP_{146}	14.1	X	282.98090	245.18224	152.53129	21.55748	0.0592311	0.17584215	3.1553973	21	8 13.3	18.6
63101 2000 WT_{146}	13.7	X	244.38253	322.49442	80.66561	22.61033	0.0084925	0.22470159	2.6795711	21	7 9.4	17.5
63102 2000 WD_{149}	14.4	X	320.85206	306.59106	103.94345	13.65279	0.0802594	0.18490925	3.0513846	21	10 28.3	18.5
63103 2000 WG_{149}	14.4	X	341.91713	214.22445	111.39613	18.37371	0.1687460	0.18082887	3.0971164	21	7 30.1	17.8
63104 2000 WR_{151}	14.7	X	275.20268	269.22290	94.50725	12.23551	0.2186516	0.22585546	2.6704369	21	5 29.7	18.6
63105 2000 WW_{151}	14.9	X	31.54473	217.83294	182.92312	9.60483	0.1107246	0.19310929	2.9643804	21	—	—
63106 2000 WE_{152}	15.1	X	277.06733	283.11608	118.09433	13.61494	0.2842388	0.22736715	2.6585871	21	7 9.4	18.8
63107 2000 WX_{152}	14.6	X	1.14681	314.78312	4.82577	11.02521	0.1235532	0.18165711	3.0876954	21	8 30.5	18.3
63108 2000 WB_{154}	14.2	X	1.28458	357.13370	356.71688	9.95972	0.0910034	0.18492397	3.0512228	21	10 8.2	18.0
63109 2000 WK_{154}	14.1	X	317.25797	30.29095	354.29124	9.88523	0.0954047	0.18162796	3.0880258	21	9 11.5	18.0
63110 2000 WQ_{158}	14.7	X	55.93586	133.90709	175.25219	9.81510	0.1704664	0.23356566	2.6113398	21	11 20.8	18.4
63111 2000 WG_{161}	14.0	X	223.36285	300.76035	136.34264	11.62253	0.0647163	0.17414471	3.1758686	21	7 20.5	18.7
63112 2000 WS_{161}	14.5	X	303.20316	243.80937	123.01898	9.83687	0.1122528	0.17768107	3.1335883	21	7 25.5	18.3
63113 2000 WB_{163}	14.5	X	92.14799	203.55931	80.00886	11.61794	0.0549864	0.18583351	3.0412587	21	11 9.9	19.0
63114 2000 WA_{164}	15.2	X	143.52908	240.82675	62.13519	5.65962	0.2479784	0.24456153	2.5324679	21	—	—
63115 2000 WH_{165}	15.4	X	72.16321	130.50909	82.63865	8.12325	0.1923458	0.27110375	2.3643532	21	8 12.5	18.4
63116 2000 WT_{165}	14.8	X	221.31901	196.31654	194.33038	13.24801	0.1762990	0.21716947	2.7411757	21	5 14.5	19.4
63117 2000 WJ_{169}	14.4	X	305.05878	312.89499	65.91686	7.16635	0.0758553	0.17719801	3.1392807	21	8 21.1	18.6
63118 2000 WR_{171}	13.2	X	156.28551	65.62061	104.95749	17.38124	0.1692065	0.17801943	3.1296165	21	9 9.9	18.6
63119 2000 WX_{171}	14.4	X	299.64494	350.68223	102.32221	14.43398	0.1287473	0.23727002	2.5840890	21	11 24.0	17.4
63120 2000 WW_{172}	14.6	X	337.94652	314.83953	72.78513	14.19163	0.1869194	0.22866385	2.6485269	21	11 1.8	17.2

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63121 2000 WL_{173}	13.8	X	220.10867	349.10046	111.82569	16.61052	0.0447159	0.17152771	3.2080898	21	8 20.7	18.6
63122 2000 WR_{173}	15.2	X	21.38922	237.62642	82.00255	14.04993	0.1695715	0.23297305	2.6157662	21	10 21.5	18.4
63123 2000 WB_{174}	14.8	X	348.66781	233.16886	165.81494	11.60637	0.0932334	0.18778905	3.0201085	21	11 21.4	18.8
63124 2000 WK_{174}	13.9	X	246.75739	37.29761	121.88170	10.53778	0.0739542	0.18907769	3.0063706	21	11 29.6	18.3
63125 2000 WV_{174}	13.9	X	98.47632	338.84649	202.82643	16.59603	0.0830942	0.17061302	3.2195458	21	7 10.2	18.9
63126 2000 WV_{181}	14.6	X	40.32261	202.09326	96.32695	33.94558	0.1738372	0.23185974	2.6241329	21	11 4.6	18.8
63127 2000 WW_{181}	15.6	X	31.22084	204.41839	159.95694	14.00990	0.1973765	0.23849868	2.5752065	21	—	—
63128 2000 WD_{182}	14.7	X	272.37910	289.05630	150.44396	16.87593	0.1174091	0.17970559	3.1100091	21	9 16.4	19.0
63129 Courtemanche	15.3	X	68.22614	349.00872	78.10471	3.25737	0.0552418	0.20083210	2.8878899	21	1 2.6	19.0
63130 2000 WA_{184}	15.8	X	38.94651	239.48230	301.71155	6.16075	0.0529861	0.26005003	2.4308871	21	4 5.7	18.8
63131 2000 WG_{186}	15.3	X	61.01207	13.26020	224.74637	11.11800	0.0953300	0.27018559	2.3697067	21	8 8.1	18.4
63132 2000 WF_{188}	14.8	X	229.68950	42.89956	83.42927	3.01677	0.0268696	0.18356055	3.0663130	21	10 4.6	19.1
63133 2000 WH_{188}	14.6	X	150.61096	7.59033	25.58859	13.99477	0.2600060	0.21373242	2.7704849	21	3 24.8	19.3
63134 2000 WU_{190}	15.9	X	158.49670	261.43818	186.16195	1.18217	0.0671793	0.21584008	2.7524197	21	5 21.5	19.9
63135 2000 WX_{190}	15.4	X	247.49893	212.49554	62.42074	14.92219	0.2239333	0.25817528	2.4426408	21	1 10.4	19.7
63136 2000 WD_{191}	14.2	X	336.18146	289.86523	101.64801	12.05626	0.1727098	0.18637891	3.0353227	21	10 25.6	17.7
63137 2000 WM_{191}	14.8	X	168.96811	75.22691	183.75565	7.72845	0.1768182	0.24224048	2.5486189	21	—	—
63138 2000 WQ_{191}	14.5	X	220.79706	350.85445	99.12247	10.15642	0.0720260	0.17633373	3.1495302	21	8 4.1	19.2
63139 2000 WR_{191}	14.7	X	17.39829	214.76717	178.89376	9.60674	0.0827900	0.19135972	2.9824216	21	12 23.5	18.8
63140 2000 WT_{191}	15.1	X	36.70111	231.94050	116.32062	10.09955	0.1641387	0.23769615	2.5809997	21	12 15.4	18.4
63141 2000 WD_{192}	13.9	X	217.83231	273.21924	149.51324	15.08110	0.1745892	0.17320942	3.1872910	21	6 20.7	19.3
63142 2000 XZ	15.5	X	82.46934	305.20848	248.91005	18.56538	0.0609815	0.35487124	1.9758570	21	7 2.4	17.6
63143 2000 XS_{1}	15.2	X	81.89118	287.03478	92.17417	9.54080	0.0694175	0.24155849	2.5534136	21	—	—
63144 2000 XQ_{3}	14.2	X	323.64881	0.09304	33.09434	18.64213	0.1835320	0.18339860	3.0681179	21	10 2.6	17.7
63145 Choemuseon	14.7	X	354.26827	198.29948	92.69799	2.31272	0.1603257	0.17302860	3.1895112	21	7 5.1	18.0
63146 2000 XM_{14}	13.7	X	188.60853	17.89249	87.45043	11.16204	0.1057523	0.16975557	3.2303781	21	7 17.1	18.7
63147 2000 XF_{19}	14.5	X	338.11944	357.95185	357.43806	8.78168	0.0732734	0.17980510	3.1088615	21	9 7.1	18.4
63148 2000 XQ_{19}	14.3	X	70.80390	340.45483	12.68954	9.56628	0.0639696	0.19202985	2.9754790	21	—	—
63149 2000 XM_{22}	13.8	X	245.48661	345.90099	47.80026	15.35314	0.0393316	0.17119893	3.2121958	21	6 24.1	18.6
63150 2000 XH_{23}	14.1	X	302.90504	287.69507	40.88755	13.81717	0.1110509	0.17151449	3.2082547	21	6 2.9	18.6
63151 2000 XR_{23}	14.4	X	23.76593	278.55209	31.96231	12.87761	0.0779835	0.17935552	3.1140545	21	9 21.5	18.6
63152 2000 XC_{27}	14.2	X	1.30135	306.76507	51.19998	17.00899	0.2342429	0.23126905	2.6285992	21	11 9.9	16.6
63153 2000 XF_{28}	15.5	X	326.28651	38.88173	347.48284	6.41648	0.1342149	0.27624965	2.3348997	21	10 8.6	17.6
63154 2000 XR_{37}	14.4	X	299.28826	53.95645	20.48290	14.76977	0.1543339	0.18067854	3.0988341	21	10 11.4	18.3
63155 2000 XZ_{39}	13.9	X	275.96871	50.71200	338.43984	16.65567	0.1853723	0.17654053	3.1470702	21	7 10.1	18.6
63156 Yicheon	14.4	X	349.74084	258.61574	83.79762	10.47952	0.0975091	0.17853167	3.1236273	21	9 12.1	18.4
63157 2000 YL_{2}	13.8	X	1.49212	261.24208	61.54731	10.89442	0.2692116	0.28350755	2.2948781	21	10 9.5	15.3
63158 2000 YA_{4}	16.1	X	208.53198	325.68503	207.66124	1.31803	0.0195999	0.22887662	2.6468851	21	11 12.5	19.4
63159 2000 YF_{6}	14.4	X	1.53715	289.87843	64.19558	11.36703	0.1378286	0.18185697	3.0854328	21	10 18.5	18.1
63160 2000 YN_{8}	15.9	X	240.30996	206.93356	112.04874	7.76626	0.2550666	0.30519256	2.1848423	21	2 21.4	19.6
63161 2000 YZ_{10}	14.6	X	212.29726	195.08143	355.04311	7.54149	0.2072946	0.18182143	3.0858348	21	11 9.2	19.7
63162 Davidčapek	13.9	X	288.80994	294.03080	84.16040	17.46247	0.1591783	0.17564506	3.1577574	21	7 12.9	18.3
63163 Jerusalem	14.2	X	313.68987	22.15219	109.27231	25.18428	0.2089798	0.28452730	2.2893916	21	—	—
63164 2000 YU_{14}	15.8	X	84.76014	315.66761	22.15361	3.33024	0.3066020	0.28773004	2.2723710	21	—	—
63165 2000 YY_{14}	14.2	X	180.09808	14.74663	245.81619	8.93762	0.0474339	0.19289337	2.9665922	21	—	—
63166 2000 YW_{17}	14.4	X	321.10784	304.25896	105.37245	11.14129	0.1010542	0.18559703	3.0438415	21	10 25.3	18.3
63167 2000 YY_{17}	14.9	X	142.32569	219.24796	141.71306	7.82917	0.1688864	0.25329822	2.4738952	21	1 18.7	18.3
63168 2000 YH_{20}	16.1	X	63.44890	359.19336	208.82765	1.63037	0.0394992	0.26546082	2.3977419	21	6 24.2	19.0
63169 2000 YM_{31}	15.8	X	88.81879	5.09749	318.99903	3.63055	0.1403618	0.23243502	2.6198012	21	—	—
63170 2000 YE_{33}	15.7	X	274.44390	245.94596	84.49443	4.05552	0.2186948	0.30669455	2.1777031	21	4 9.2	18.7
63171 2000 YU_{40}	14.9	X	132.08944	289.83793	180.59160	1.01696	0.0812926	0.21132026	2.7915278	21	5 21.9	18.9
63172 2000 YN_{41}	14.0	X	359.13925	187.22924	111.93622	16.70537	0.0864793	0.17011242	3.2258589	21	7 25.6	18.0
63173 2000 YX_{52}	14.7	X	88.51085	54.69510	103.02070	9.63736	0.0359915	0.21038407	2.7998031	21	5 24.5	18.6
63174 2000 YB_{55}	15.7	X	190.10773	322.81297	70.70342	2.24598	0.0988306	0.30498392	2.1858386	21	4 11.2	18.6
63175 2000 YS_{55}	12.4	X	305.19905	186.78304	249.03741	5.32637	0.0128285	0.08606013	5.0808304	21	10 21.6	19.2
63176 2000 YN_{59}	12.4	X	265.92507	185.80745	315.20054	2.81210	0.0136801	0.08630003	5.0714105	21	11 18.9	19.2
63177 2000 YJ_{63}	13.9	X	208.75626	346.17475	115.40595	13.80305	0.1290137	0.16913567	3.2382664	21	7 31.4	19.0
63178 2000 YJ_{69}	14.4	X	235.70883	320.31199	112.93071	4.94833	0.1584619	0.17438403	3.1729623	21	7 20.7	19.3
63179 2000 YZ_{77}	14.6	X	58.75786	270.67805	111.68754	11.83015	0.0980695	0.19202121	2.9755683	21	—	—
63180 2000 YK_{81}	14.3	X	37.26268	238.69645	81.16292	10.59142	0.0734876	0.18237901	3.0795421	21	10 21.7	18.6
63181 2000 YN_{81}	13.8	X	48.94971	143.18556	98.45000	10.63978	0.1427703	0.17092248	3.2156586	21	8 3.9	18.0
63182 2000 YM_{84}	15.2	X	73.70315	249.71759	114.43774	8.86891	0.1422587	0.24010231	2.5637273	21	—	—
63183 2000 YK_{88}	14.0	X	154.32837	54.34297	105.64173	6.29816	0.0717434	0.17152662	3.2081035	21	8 18.6	18.8
63184 2000 YL_{91}	12.8	X	348.17635	220.67863	102.02104	9.39047	0.1453010	0.12404267	3.9818843	21	8 5.6	17.6
63185 2000 YW_{93}	15.0	X	341.60872	246.76624	195.01338	1.52716	0.0844482	0.18833783	3.0142389	21	12 31.8	18.9
63186 2000 YB_{94}	14.9	X	271.90049	313.80966	57.52614	1.22655	0.1918071	0.17190541	3.2033891	21	6 8.2	19.5
63187 2000 YJ_{94}	15.5	X	47.63226	257.86445	244.83836	2.06914	0.0941374	0.20289539	2.8682781	21	3 11.7	19.0
63188 2000 YE_{96}	15.4	X	255.42434	351.12533	143.61108	1.79145	0.1809960	0.18155086	3.0889000	21	10 23.7	19.7
63189 2000 YC_{97}	14.6	X	177.16426	257.69427	117.58219	15.67317	0.1639304	0.20473161	2.8511022	21	3 23.4	19.5
63190 2000 YB_{103}	14.3	X	326.38180	350.79489	145.76175	15.52148	0.0732563	0.18985885	2.9981187	21	—	—
63191 2000 YP_{106}	15.6	X	7.70867	10.95781	341.51794	2.03132	0.1254384	0.23066961	2.6331511	21	10 29.2	18.5
63192 2000 YZ_{107}	15.0	X	24.17835	158.03998	66.32942	3.80597	0.0148447	0.21164710	2.7886532	21	5 20.6	18.6
63193 2000 YY_{118}	12.6	X	271.61793	23.96240	101.01576	10.77886	0.0986775	0.08525683	5.1126956	21	11 1.8	19.5
63194 2000 YB_{120}	14.2	X	305.22610	249.99536	129.12880	12.41667	0.0117500	0.17960692	3.1111480	21	8 27.9	18.5
63195 2000 YN_{120}	11.6	X	250.06479	172.30316	325.54805	18.92672	0.0459459	0.08285927	5.2108508	21	10 16.5	18.8
63196 2000 YY_{121}	14.8	X	192.05341	231.16981	106.59835	15.73750	0.1433142	0.21077657	2.7963261	21	2 15.9	19.4
63197 2000 YP_{122}	13.8	X	336.81875	290.25746	126.51948	11.79310	0.1494390	0.18675046	3.0312954	21	11 26.9	17.4
63198 2000 YY_{122}	14.2	X	340.62887	255.60022	133.79559	10.87416	0.0917284	0.18387524	3.0628134	21	10 28.8	18.2
63199 2000 YJ_{123}	15.5	X	354.44019	84.96768	106.04383	17.67665	0.1886279	0.19985472	2.8972976	21	2 13.6	18.9
63200 2000 YE_{124}	13.7	X	19.77474	162.27901	72.96134	23.52878	0.0281452	0.16868651	3.2440122	21	6 1.1	18.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63201 2000 YH_{129}	14.5	X	209.90617	103.54920	75.63639	2.14541	0.0850991	0.18001366	3.1064598	21	11 7.3	19.1
63202 2000 YR_{131}	12.3	X	320.04940	338.77573	99.96299	1.98540	0.0791655	0.08475305	5.1329358	21	11 7.6	18.8
63203 2000 YA_{132}	15.2	X	231.17342	207.91527	104.66013	3.15900	0.0587014	0.20093969	2.8868589	21	2 24.5	19.5
63204 2000 YE_{135}	14.2	X	241.36667	66.44603	113.82377	9.75417	0.0261846	0.19076848	2.9885805	21	12 23.5	18.3
63205 2000 YG_{139}	12.5	X	263.33962	349.63955	136.99450	4.27428	0.0482971	0.08582472	5.0901172	21	10 29.4	19.3
63206 2000 YF_{143}	14.9	X	209.04888	220.81166	227.93105	11.22895	0.2068480	0.21627772	2.7487054	21	7 9.7	19.7
63207 2001 AK_{6}	16.1	X	358.49331	160.86489	213.90452	6.32361	0.1241630	0.27795710	2.3253279	21	11 26.2	18.3
63208 2001 AJ_{10}	14.6	X	244.03672	1.20105	132.61147	12.45555	0.0643554	0.17963787	3.1107907	21	10 29.1	19.2
63209 2001 AP_{11}	15.7	X	35.44445	232.32286	148.30573	7.17316	0.1199824	0.28231272	2.3013486	21	—	—
63210 2001 AH_{13}	12.1	X	331.39716	269.75862	143.04865	12.93024	0.0815008	0.08362442	5.1790168	21	10 27.8	18.7
63211 2001 AU_{13}	14.9	X	353.13110	140.40435	169.60937	6.29171	0.0187233	0.21602303	2.7508655	21	7 31.1	18.6
63212 2001 AT_{17}	15.3	X	99.74101	7.64910	163.88522	6.57026	0.1131741	0.25631691	2.4544331	21	7 5.5	18.6
63213 2001 AY_{18}	14.9	X	74.12564	89.45550	146.14141	4.54372	0.0772224	0.21634069	2.7481720	21	8 22.3	18.6
63214 2001 AP_{20}	14.4	X	280.76094	257.11333	166.57081	8.06445	0.1357832	0.17798238	3.1300507	21	9 1.9	18.7
63215 2001 AD_{25}	15.3	X	299.44376	304.66735	174.93673	1.58450	0.1212701	0.18425434	3.0586109	21	12 12.7	18.9
63216 2001 AF_{26}	14.3	X	135.65811	268.63349	67.49241	13.44837	0.0945354	0.19546349	2.9405300	21	—	—
63217 2001 AU_{29}	15.1	X	26.98780	326.45396	54.38867	5.08371	0.1727095	0.28443842	2.2898685	21	—	—
63218 2001 AZ_{29}	15.0	X	330.76868	19.15643	327.66300	5.62198	0.2104033	0.27303598	2.3531853	21	8 9.9	16.5
63219 2001 AD_{32}	14.7	X	199.95957	28.65448	60.53128	4.21239	0.1340768	0.21776983	2.7361353	21	7 7.5	18.9
63220 2001 AU_{32}	14.6	X	89.88739	297.50711	79.68345	12.18473	0.1611664	0.19489800	2.9462152	21	—	—
63221 2001 AZ_{32}	13.9	X	88.58130	252.19363	95.06661	18.30400	0.1404964	0.18983471	2.9983728	21	—	—
63222 2001 AM_{36}	15.4	X	172.01017	297.92485	52.47830	6.40268	0.1750148	0.29711619	2.2242581	21	2 1.7	18.7
63223 2001 AV_{36}	14.7	X	352.52148	77.30023	96.87833	9.59698	0.1449398	0.24372280	2.5382747	21	1 9.9	17.5
63224 2001 AQ_{37}	14.0	X	45.88505	267.50389	24.98426	13.58735	0.0543383	0.17213560	3.2005325	21	9 24.4	18.4
63225 2001 BL_{2}	15.7	X	322.61419	234.09055	148.08652	23.62828	0.1083026	0.36782432	1.9291933	21	10 26.7	17.7
63226 2001 BC_{4}	16.1	X	319.03497	186.78782	356.39908	7.04420	0.0577823	0.29040621	2.2583892	21	—	—
63227 2001 BG_{6}	14.4	X	224.91593	13.15602	159.76969	10.08498	0.0307489	0.18271353	3.0757822	21	11 24.9	18.9
63228 2001 BF_{9}	14.7	X	147.24186	130.37812	125.87087	14.93178	0.1156984	0.22740400	2.6582999	21	12 13.2	19.0
63229 2001 BP_{9}	14.5	X	105.99483	271.63450	95.55937	10.46944	0.0789622	0.19236489	2.9720231	21	—	—
63230 2001 BT_{14}	14.8	X	151.90657	158.00117	63.00032	2.07659	0.1187019	0.17459666	3.1703856	21	10 28.6	19.8
63231 2001 BA_{15}	12.4	X	237.28348	14.25789	129.79707	6.68654	0.0582223	0.07950287	5.3564969	21	10 19.8	19.6
63232 2001 BK_{15}	14.3	X	233.94244	167.98418	345.12075	5.53679	0.0879680	0.17807211	3.1289992	21	10 30.4	19.0
63233 2001 BO_{17}	16.1	X	5.95959	54.20478	159.37717	6.74550	0.1283154	0.30196530	2.2003817	21	3 22.0	17.8
63234 2001 BB_{20}	12.1	X	174.52603	247.01362	330.19567	14.79713	0.0700472	0.08248977	5.2264001	21	10 28.6	19.5
63235 2001 BV_{20}	13.9	X	29.34542	12.20333	121.30590	6.73831	0.0335638	0.14784711	3.5421001	21	2 11.7	18.8
63236 2001 BX_{20}	16.0	X	132.01496	114.54538	95.54901	2.35209	0.1352757	0.26711167	2.3878524	21	10 6.7	19.5
63237 2001 BA_{23}	15.3	X	11.24087	117.47122	329.70533	0.96975	0.0635152	0.19170470	2.9788425	21	—	—
63238 2001 BL_{24}	15.0	X	88.33346	264.25505	127.05086	14.33849	0.0893874	0.24184477	2.5513982	21	—	—
63239 2001 BD_{25}	12.0	X	265.85300	185.26608	297.13699	6.22485	0.0668000	0.08301158	5.2044752	21	10 20.6	19.0
63240 2001 BG_{26}	15.2	X	29.14922	279.10496	125.44933	15.21325	0.1570875	0.23626933	2.5913803	21	—	—
63241 2001 BJ_{26}	12.0	X	224.81958	32.60719	128.94438	25.76861	0.0479021	0.08183365	5.2542987	21	11 2.8	19.4
63242 2001 BJ_{27}	15.3	X	97.39715	301.19147	143.93834	5.67793	0.0922756	0.20098168	2.8864568	21	3 11.3	19.1
63243 2001 BW_{27}	15.4	X	343.29960	34.90579	149.24678	5.49080	0.0303069	0.24549754	2.5260268	21	1 24.5	18.7
63244 2001 BO_{28}	15.5	X	265.82353	236.92918	154.15220	2.75537	0.1956599	0.26615552	2.3935678	21	6 24.6	18.9
63245 2001 BP_{30}	15.3	X	296.40840	320.44489	151.87515	1.73815	0.1830022	0.18375321	3.0641693	21	11 21.7	19.0
63246 2001 BG_{32}	15.6	X	104.50953	77.89137	335.44694	2.26464	0.1746278	0.24637305	2.5200389	21	2 11.3	18.6
63247 2001 BN_{34}	15.9	X	312.77084	209.15672	322.02938	6.16461	0.1113775	0.28538302	2.2848128	21	—	—
63248 2001 BP_{34}	15.1	X	276.71173	40.62508	158.79051	15.20700	0.1981792	0.23387956	2.6090028	21	—	—
63249 2001 BW_{35}	12.9	X	108.14133	235.15681	25.29903	9.05951	0.1176592	0.12731331	3.9133934	21	10 26.4	18.7
63250 2001 BP_{36}	14.8	X	222.19134	165.17889	196.74775	8.98296	0.3076939	0.21370329	2.7707366	21	4 4.3	19.9
63251 2001 BG_{38}	14.8	X	180.98521	259.68833	299.34502	3.73772	0.1074209	0.17694929	3.1422218	21	10 28.7	19.8
63252 2001 BL_{41}	11.5	X	281.62936	129.53566	280.83861	12.49664	0.2954657	0.03180391	9.8661801	21	7 20.3	21.5
63253 2001 BG_{50}	14.8	X	205.99413	249.78685	278.74720	11.61701	0.1298098	0.22140211	2.7061272	21	10 16.8	19.2
63254 2001 BW_{54}	15.0	X	90.38518	194.91138	124.39604	9.52677	0.2333706	0.28820457	2.2698760	21	—	—
63255 2001 BX_{63}	15.5	X	227.44763	41.45793	165.19920	7.66842	0.2519531	0.27801656	2.3249963	21	12 25.8	18.7
63256 2001 BY_{77}	14.5	X	98.35703	357.16585	202.98088	12.61968	0.1263763	0.21364566	2.7712348	21	8 8.8	18.8
63257 2001 BJ_{79}	12.3	X	316.15737	301.90117	131.74532	12.80526	0.0633552	0.08300621	5.2046995	21	11 2.1	19.1
63258 2001 BT_{80}	14.8	X	287.55642	237.90363	187.24026	13.39689	0.1646927	0.17974554	3.1095483	21	9 7.5	18.9
63259 2001 BS_{81}	13.1	X	211.32625	180.36187	8.01426	2.22784	0.0331754	0.08386367	5.1691620	21	11 10.0	20.1
63260 2001 CN	15.5	X	218.24925	308.49904	121.75861	25.67530	0.0835790	0.36259126	1.9477109	21	7 6.5	17.8
63261 2001 CA_{2}	14.5	X	279.12065	18.15742	121.06515	10.44678	0.0450233	0.18207079	3.0830166	21	12 16.9	18.8
63262 2001 CM_{3}	15.2	X	310.05550	167.64767	130.01823	7.75847	0.1240909	0.25379160	2.4706879	21	4 30.3	18.3
63263 2001 CC_{4}	14.3	X	329.41211	333.67997	133.42511	12.84675	0.0970608	0.18475095	3.0531274	21	—	—
63264 2001 CP_{5}	15.8	X	182.60551	114.67240	127.08923	7.71504	0.0784648	0.27855248	2.3220133	21	—	—
63265 2001 CP_{12}	12.5	X	275.27081	26.36109	92.20564	8.09935	0.1228922	0.08274291	5.2157350	21	10 25.5	19.4
63266 2001 CV_{16}	14.2	X	148.57872	213.61940	61.35316	6.06363	0.1350410	0.18131927	3.0915296	21	12 27.1	19.2
63267 2001 CC_{17}	16.2	X	276.79996	189.72850	51.33195	4.14141	0.1162494	0.29016356	2.2596481	21	—	—
63268 2001 CU_{22}	15.8	X	195.95975	206.52603	124.50726	7.76756	0.1670143	0.29520837	2.2338308	21	1 28.9	19.0
63269 2001 CE_{24}	12.3	X	341.61682	256.82497	155.89987	7.40656	0.0788160	0.08456454	5.1405609	21	11 8.1	18.8
63270 2001 CR_{28}	14.3	X	118.60731	167.81509	107.94402	11.61707	0.0571117	0.17832540	3.1260356	21	11 28.4	19.0
63271 2001 CN_{34}	13.6	X	36.61514	317.89488	74.49408	18.52310	0.2977490	0.23547141	2.5972311	21	—	—
63272 2001 CC_{49}	12.3	X	306.27568	352.08327	81.90752	9.72994	0.0421845	0.08361033	5.1795986	21	10 22.9	19.1
63273 2001 DH_{4}	11.6	X	140.35182	259.36562	356.37169	9.40689	0.1263686	0.08277126	5.2145441	21	11 12.9	19.1
63274 2001 DB_{18}	14.1	X	310.41315	8.70172	115.79703	12.12063	0.0426493	0.18273988	3.0754865	21	—	—
63275 2001 DD_{21}	15.7	X	14.09483	33.82113	85.35070	6.47293	0.1058954	0.28723261	2.2749938	21	—	—
63276 2001 DP_{22}	14.7	X	292.32837	295.87541	147.48388	13.80838	0.1549593	0.22929495	2.6436648	21	10 24.9	17.9
63277 2001 DG_{23}	15.0	X	340.70246	328.69788	160.02429	12.21439	0.0862496	0.23850210	2.5751819	21	—	—
63278 2001 DJ_{29}	12.6	X	246.49671	342.37563	165.15785	12.57394	0.1278703	0.08253490	5.2244949	21	10 25.9	19.8
63279 2001 DW_{34}	12.9	X	300.69689	229.68185	223.84064	1.94741	0.1017501	0.08390800	5.1673410	21	10 27.6	19.4
63280 2001 DT_{37}	14.6	X	210.08522	47.52185	155.84623	10.29382	0.0321950	0.18333612	3.0688149	21	12 12.9	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63281 2001 DF_{38}	15.6	X	285.36281	62.41930	179.36030	5.69684	0.2430298	0.24251499	2.5466953	21	1 1.9	19.8
63282 2001 DP_{45}	16.2	X	348.61392	212.89875	325.90678	5.04581	0.0833824	0.29125932	2.2539771	21	1 7.4	18.6
63283 2001 DA_{46}	14.4	X	250.52066	241.01726	130.16702	4.53545	0.0559320	0.16009339	3.3590808	21	6 1.9	19.3
63284 2001 DM_{46}	12.6	X	307.53152	306.82262	134.60468	3.42134	0.1584801	0.08169039	5.2604400	21	10 17.7	19.0
63285 2001 DW_{62}	14.6	X	205.78706	144.69023	147.46625	10.16762	0.0536163	0.19150181	2.9809461	21	1 4.2	19.2
63286 2001 DZ_{68}	12.1	X	1.44957	221.79512	173.87459	6.40410	0.1036666	0.08076005	5.3007621	21	11 14.4	18.6
63287 2001 DT_{79}	12.1	X	337.41746	200.88149	235.22646	17.28918	0.0769415	0.08285625	5.2109776	21	11 26.1	18.6
63288 2001 DW_{79}	14.7	X	157.55536	53.63416	236.56066	9.76006	0.0633569	0.18342842	3.0677854	21	—	—
63289 2001 DJ_{81}	15.5	X	144.24222	67.47236	103.54539	6.89242	0.0402466	0.26100098	2.4249788	21	8 25.3	18.7
63290 2001 DS_{87}	12.3	X	191.30691	88.44031	111.86409	6.54830	0.0633963	0.08103111	5.2889346	21	11 3.7	19.6
63291 2001 DU_{87}	12.6	X	285.48525	57.56102	65.09305	7.95516	0.0658307	0.08398130	5.1643339	21	11 15.4	19.3
63292 2001 DQ_{89}	12.1	X	338.13500	272.02915	143.08670	13.41031	0.0588527	0.08271714	5.2168183	21	11 8.5	18.9
63293 2001 DT_{89}	13.6	X	88.19298	137.45748	145.18752	3.25746	0.1624483	0.12608284	3.9388134	21	11 7.0	19.4
63294 2001 DQ_{90}	12.4	X	319.24601	316.24265	117.45585	32.81389	0.0361082	0.08515368	5.1168235	21	11 16.4	19.5
63295 2001 DY_{101}	15.6	X	56.46154	293.14960	102.32611	7.89558	0.1727541	0.28505410	2.2865701	21	—	—
63296 2001 EK	15.7	X	197.92514	54.53528	151.55043	2.51542	0.1532075	0.27215991	2.3582325	21	12 4.4	19.0
63297 2001 EE_{5}	15.7	X	265.26682	183.81085	32.53912	4.52414	0.1293810	0.23461768	2.6035279	21	—	—
63298 2001 EH_{6}	15.7	X	82.50445	200.28200	72.82202	5.48288	0.2239216	0.26345035	2.4099250	21	11 13.2	19.3
63299 2001 EH_{8}	15.3	X	89.53515	124.14804	153.98813	9.42050	0.1509833	0.21837469	2.7310806	21	11 15.3	19.6
63300 2001 EV_{8}	15.2	X	174.38694	261.45270	29.27053	3.00201	0.2438155	0.27867561	2.3213293	21	—	—
63301 2001 EJ_{12}	14.8	X	91.39906	111.39157	167.30903	15.09476	0.1035552	0.21654390	2.7464524	21	11 13.4	19.1
63302 2001 EA_{14}	14.0	X	345.06611	293.52048	54.47825	10.42738	0.2074099	0.21610031	2.7502095	21	9 17.1	16.7
63303 2001 EL_{20}	16.4	X	177.23144	339.79392	271.81541	1.31466	0.1845317	0.27504726	2.3416995	21	—	—
63304 2001 EQ_{23}	14.9	X	134.50760	26.11925	183.21041	8.62738	0.1385033	0.21615045	2.7497843	21	10 2.9	19.3
63305 Bobkepple	14.7	X	68.77530	134.73832	179.68368	5.55891	0.1522454	0.17205310	3.2015556	21	11 28.4	19.4
63306 2001 FT_{8}	15.4	X	264.90290	81.80499	193.55336	2.44117	0.2702319	0.28308354	2.2971691	21	1 17.7	19.2
63307 2001 FG_{9}	15.4	X	252.71596	338.55360	175.57685	5.32826	0.0707306	0.27388290	2.3483317	21	12 16.8	18.2
63308 2001 FU_{11}	16.1	X	105.20875	204.34084	74.60326	3.33861	0.1469288	0.26725780	2.3869819	21	12 5.5	19.6
63309 2001 FV_{19}	15.9	X	158.05089	243.35434	315.67432	1.64431	0.1539582	0.26595493	2.3947712	21	10 15.9	19.6
63310 2001 FS_{21}	15.5	X	47.84620	124.45454	102.76484	6.11436	0.0733563	0.25256600	2.4786743	21	7 3.2	18.4
63311 2001 FD_{24}	15.5	X	100.84757	319.50790	226.29869	19.90234	0.0564351	0.35597598	1.9717670	21	7 14.4	18.2
63312 2001 FH_{24}	13.9	X	156.00952	29.36310	244.02323	9.48651	0.1905264	0.17700976	3.1415061	21	12 29.7	19.3
63313 2001 FV_{28}	14.8	X	332.03341	292.36528	35.73054	10.09480	0.2591982	0.25540079	2.4602990	21	7 2.4	16.9
63314 2001 FJ_{33}	15.0	X	257.35428	60.00464	158.65522	14.84283	0.0359050	0.23713233	2.5850892	21	—	—
63315 2001 FV_{34}	16.3	X	124.04056	87.56565	159.23448	3.44184	0.1750040	0.26717810	2.3874565	21	11 15.6	20.0
63316 2001 FK_{35}	14.2	X	233.17764	283.60293	317.29434	1.84439	0.1540692	0.18382971	3.0633192	21	—	—
63317 2001 FQ_{36}	16.1	X	118.43177	22.11966	217.00293	1.51266	0.1874563	0.26491053	2.4010612	21	10 31.4	20.0
63318 2001 FR_{36}	15.5	X	177.82849	76.06765	195.92087	1.74762	0.1718097	0.22860286	2.6489979	21	—	—
63319 2001 FH_{37}	16.3	X	232.66405	281.92571	303.10500	1.55517	0.1954927	0.27852298	2.3221772	21	—	—
63320 2001 FX_{44}	15.0	X	275.78745	68.66556	154.05139	2.93308	0.2665947	0.18526452	3.0474824	21	—	—
63321 2001 FF_{47}	15.4	X	288.67990	52.94752	191.08635	25.98350	0.0684984	0.24047624	2.5610690	21	1 23.1	19.6
63322 2001 FO_{48}	15.9	X	354.72267	271.72546	9.49796	7.27393	0.1848910	0.29943752	2.2127477	21	6 15.7	17.4
63323 2001 FC_{51}	16.0	X	331.15900	145.43434	156.26666	2.33487	0.2173220	0.29973437	2.2112865	21	5 20.2	17.6
63324 2001 FH_{51}	15.8	X	252.42216	51.12112	190.54469	3.49321	0.1099872	0.23399128	2.6081722	21	—	—
63325 2001 FU_{51}	15.9	X	138.89126	48.45591	192.85267	2.55313	0.1400160	0.26677370	2.3898687	21	11 21.0	19.7
63326 2001 FV_{53}	15.7	X	190.14042	207.67089	343.59841	2.04193	0.1147822	0.26771275	2.3842768	21	11 9.1	19.2
63327 2001 FS_{54}	16.3	X	127.26255	69.35695	147.10741	2.92827	0.1431278	0.26429491	2.4047883	21	10 10.1	20.0
63328 2001 FU_{54}	16.1	X	74.35682	125.23410	124.63578	1.96842	0.1563715	0.26021553	2.4298562	21	9 27.2	19.2
63329 2001 FJ_{55}	14.9	X	257.49377	312.65731	220.87701	11.18194	0.1303488	0.22630300	2.6669150	21	12 27.5	18.4
63330 2001 FZ_{59}	15.9	X	117.93917	269.22917	157.06721	6.74805	0.0538847	0.29349496	2.2425163	21	2 18.9	18.4
63331 2001 FC_{60}	15.7	X	40.32068	207.03122	22.11504	6.63436	0.0856758	0.25461457	2.4653611	21	6 25.2	18.5
63332 2001 FY_{62}	15.2	X	179.27682	140.76774	136.46359	7.09345	0.0884322	0.27902764	2.3193764	21	—	—
63333 2001 FV_{65}	16.1	X	331.13672	137.30787	140.63886	5.20798	0.1601798	0.29792543	2.2202285	21	4 23.4	18.2
63334 2001 FH_{66}	14.4	X	227.55614	320.16696	173.90151	22.43067	0.1699035	0.17232012	3.1982474	21	9 23.9	19.3
63335 2001 FD_{67}	15.4	X	226.44219	256.28764	37.97849	6.94359	0.2058345	0.28493798	2.2871913	21	1 13.8	19.3
63336 2001 FL_{67}	16.0	X	109.45133	308.34548	141.19754	3.96042	0.1041972	0.29505847	2.2345873	21	3 21.5	18.4
63337 2001 FW_{67}	15.2	X	218.59383	120.03123	40.59019	7.28184	0.0191706	0.22060878	2.7126110	21	11 7.1	18.9
63338 2001 FX_{74}	15.4	X	102.07568	182.82502	66.33295	3.60677	0.0868237	0.26265793	2.4147696	21	10 21.1	18.8
63339 2001 FP_{75}	15.7	X	283.16472	224.82178	62.30361	6.27338	0.2112148	0.24225414	2.5485231	21	3 2.4	19.6
63340 2001 FY_{76}	15.8	X	192.10907	5.12722	161.55405	6.72266	0.0528479	0.26586820	2.3952920	21	10 18.0	19.0
63341 2001 FD_{77}	14.2	X	214.72726	274.45158	27.81393	27.95338	0.3859510	0.23133422	2.6281055	21	1 30.8	19.9
63342 2001 FH_{77}	15.0	X	243.19445	260.57255	39.55803	13.33881	0.0568916	0.24004605	2.5641278	21	2 22.5	18.9
63343 2001 FO_{85}	15.2	X	265.10720	117.76990	144.45933	1.72470	0.1035388	0.18932747	3.0037259	21	1 28.3	19.6
63344 2001 FX_{86}	14.6	X	130.89996	251.50834	43.80677	13.00822	0.2015525	0.22337331	2.6901833	21	—	—
63345 2001 FD_{91}	15.3	X	297.31562	0.50299	166.85373	10.02472	0.1905506	0.23133755	2.6280803	21	—	—
63346 2001 FU_{92}	15.4	X	123.56405	160.93944	107.38906	6.71098	0.0846674	0.27046163	2.3680940	21	12 9.2	18.8
63347 2001 FA_{94}	14.3	X	312.56383	256.21770	130.41884	12.82125	0.0438709	0.16747335	3.2596596	21	9 13.5	18.8
63348 2001 FC_{94}	16.0	X	146.67015	94.21646	126.15013	7.39591	0.0896450	0.26744847	2.3858473	21	11 4.9	19.5
63349 2001 FY_{101}	15.8	X	270.57084	355.07776	227.62263	7.49965	0.1356776	0.23595838	2.5936564	21	—	—
63350 2001 FL_{106}	14.1	X	88.10973	68.87376	227.44603	4.35013	0.1253532	0.17311454	3.1884554	21	11 23.9	18.8
63351 2001 FW_{117}	16.2	X	347.37333	120.88600	183.25185	4.46751	0.1745052	0.30177686	2.2012976	21	7 9.9	17.6
63352 2001 FG_{129}	15.0	X	279.10721	41.53135	192.15931	12.73628	0.1798940	0.23499870	2.6007129	21	—	—
63353 2001 FZ_{135}	15.9	X	21.46676	234.43338	286.19964	5.60471	0.0287360	0.29013144	2.2598148	21	2 5.2	18.3
63354 2001 FU_{140}	14.0	X	142.03332	130.09420	197.94782	14.70654	0.1655376	0.17892250	3.1190769	21	—	—
63355 2001 FN_{143}	14.3	X	247.91793	87.40991	181.19558	20.52550	0.3078980	0.18349973	3.0669905	21	1 7.4	20.1
63356 2001 FG_{149}	14.5	X	252.10902	146.94615	161.43630	11.06075	0.0976619	0.19290296	2.9664938	21	3 11.5	18.9
63357 2001 FS_{157}	15.4	X	264.30867	224.92574	41.08854	13.62313	0.1559464	0.23815714	2.5776680	21	1 23.5	19.7
63358 2001 FX_{157}	14.7	X	214.39339	167.72299	144.19703	11.07837	0.1003748	0.18891813	3.0080632	21	2 5.6	19.3
63359 2001 FQ_{159}	15.8	X	190.06586	207.15171	37.67109	2.65195	0.1039140	0.22577146	2.6710992	21	—	—
63360 2001 FS_{162}	14.8	X	105.29659	67.23644	172.14394	9.25951	0.1773677	0.21811993	2.7332068	21	10 16.1	19.1

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63361 2001 FR_{171}	15.5	X	146.98916	226.66041	130.12140	3.04792	0.1338704	0.28313034	2.2969160	21	1 8.5	18.3
63362 2001 FD_{177}	14.2	X	119.82444	287.30062	71.31890	11.93583	0.1350669	0.18524735	3.0476707	21	—	—
63363 2001 FC_{184}	16.4	X	250.26026	128.44052	171.40352	6.07167	0.1331650	0.28845552	2.2685593	21	2 9.9	19.7
63364 2001 HH_{2}	15.8	X	66.08472	268.88342	45.83726	2.74751	0.1275267	0.31295976	2.1485413	21	12 16.1	18.5
63365 2001 HH_{3}	15.8	X	63.59376	103.46411	171.17972	2.37699	0.1991581	0.25809756	2.4431312	21	10 22.6	19.2
63366 2001 HK_{4}	15.7	X	266.17902	120.43530	192.94529	6.23481	0.1559438	0.28929430	2.2641722	21	3 14.0	19.0
63367 2001 HS_{6}	15.9	X	292.69267	241.08358	69.39376	7.72806	0.2303358	0.24322808	2.5417153	21	4 9.0	19.5
63368 2001 HQ_{7}	14.3	X	221.05220	39.73828	210.88412	8.71651	0.0540174	0.17948710	3.1125324	21	—	—
63369 2001 HT_{7}	14.9	X	70.27404	194.44048	59.87627	4.27697	0.0412453	0.20845823	2.8170205	21	9 7.2	18.7
63370 2001 HS_{9}	15.6	X	94.65399	187.05446	85.75874	3.73313	0.1688160	0.26184539	2.4197626	21	11 19.1	19.3
63371 2001 HN_{18}	15.1	X	78.80596	233.52422	85.21506	2.03617	0.0799313	0.21857610	2.7294026	21	12 12.9	18.8
63372 2001 HG_{29}	14.6	X	198.70109	207.71402	66.96393	2.62023	0.1174983	0.17835824	3.1256519	21	—	—
63373 2001 HS_{35}	13.7	X	93.58897	87.48621	250.15004	6.10591	0.0970148	0.17230437	3.1984423	21	—	—
63374 2001 HX_{35}	15.8	X	158.84846	66.08764	203.96168	4.76920	0.1383503	0.27022060	2.3695020	21	—	—
63375 2001 HY_{37}	14.7	X	107.01038	184.33892	119.88604	7.01886	0.2118828	0.21761754	2.7374117	21	—	—
63376 2001 HA_{38}	15.9	X	321.85039	212.67400	82.14685	10.22374	0.2045146	0.29454437	2.2371867	21	4 27.5	18.2
63377 2001 HL_{40}	14.3	X	235.06577	164.67219	112.04665	12.79119	0.0483161	0.18573870	3.0422935	21	1 18.9	18.7
63378 2001 HY_{43}	14.7	X	156.59664	145.71460	206.73983	9.71483	0.0963259	0.18533864	3.0466699	21	1 25.3	19.5
63379 2001 HN_{45}	14.6	X	137.20805	0.97358	282.90047	13.95255	0.2633998	0.22380278	2.6867406	21	—	—
63380 2001 HE_{51}	15.7	X	0.14680	345.86155	314.89823	4.62531	0.0903767	0.25549589	2.4596885	21	8 2.1	18.3
63381 2001 HJ_{53}	15.6	X	25.02111	182.80794	139.65386	4.22827	0.1917289	0.30644648	2.1788782	21	11 12.8	17.7
63382 2001 HZ_{54}	16.1	X	24.64664	133.88004	90.21506	4.83062	0.1266964	0.29665343	2.2265706	21	5 20.2	17.8
63383 2001 HD_{56}	15.9	X	291.97737	165.52066	158.74893	7.91653	0.1629131	0.29506693	2.2345446	21	5 1.0	18.7
63384 2001 HG_{57}	15.0	X	151.44124	140.09522	113.80277	12.62908	0.0720171	0.22182639	2.7026755	21	12 13.4	19.1
63385 2001 HL_{66}	15.1	X	181.75962	212.01549	112.87709	7.29819	0.1961485	0.23023620	2.6364547	21	1 19.7	19.3
63386 2001 HW_{66}	15.0	X	114.43543	254.21512	198.03031	21.44830	0.1010345	0.24327949	2.5413572	21	4 5.9	18.5
63387 Brazos Bend	14.9	X	355.89617	333.53115	60.30292	6.47940	0.2245278	0.26619400	2.3933371	21	12 30.9	17.1
63388 2001 HE_{67}	15.1	X	175.95075	195.19732	128.72356	17.74649	0.1687937	0.23224050	2.6212639	21	1 11.3	19.3
63389 Noshiro	14.7	X	132.37915	144.65393	96.41513	8.10439	0.1539238	0.21449936	2.7638770	21	11 10.7	19.3
63390 2001 JP_{5}	14.8	X	258.15536	124.93937	109.78250	5.83931	0.1780285	0.18208157	3.0828949	21	—	—
63391 2001 JG_{6}	14.7	X	13.00914	154.84520	50.67381	10.70927	0.0183236	0.19614500	2.9337147	21	4 14.9	18.7
63392 2001 JE_{7}	14.4	X	265.54961	280.41682	66.31196	15.10257	0.3217851	0.19600919	2.9350697	21	4 22.9	19.5
63393 2001 JS_{7}	16.0	X	22.17876	212.03950	121.87410	3.42769	0.1467756	0.30892785	2.1671951	21	11 17.4	18.1
63394 2001 JL_{8}	14.9	X	342.12428	340.89131	289.01614	0.99036	0.0271411	0.19933716	2.9023105	21	5 23.1	18.8
63395 2001 JX_{9}	14.5	X	39.83382	115.58513	220.38769	7.69517	0.1464421	0.21256348	2.7806326	21	11 25.7	18.1
63396 2001 KX	15.6	X	138.95896	59.77464	235.90504	4.23599	0.2267626	0.26844189	2.3799574	21	—	—
63397 2001 KK_{2}	15.2	X	221.04557	155.43163	145.87500	8.17401	0.1469460	0.23449462	2.6044386	21	1 22.9	19.4
63398 2001 KZ_{9}	15.3	X	198.14282	356.91521	214.62023	5.65725	0.0778464	0.21956215	2.7212246	21	12 10.1	19.3
63399 2001 KH_{11}	15.3	X	82.39475	94.30547	199.00384	4.92275	0.2069090	0.26028720	2.4294102	21	12 5.6	19.0
63400 2001 KJ_{13}	15.0	X	225.86659	178.40612	97.45761	4.60343	0.1627454	0.17977166	3.1092471	21	1 6.2	19.9
63401 2001 KK_{15}	15.2	X	36.12423	222.91747	88.01425	7.65528	0.1430942	0.25768151	2.4457602	21	10 28.8	18.1
63402 2001 KU_{24}	15.5	X	148.69936	287.70927	42.47051	7.35746	0.1354407	0.27477669	2.3432365	21	—	—
63403 2001 KT_{30}	15.1	X	43.84172	306.69585	31.46592	1.90922	0.0980074	0.21427758	2.7657838	21	11 26.2	18.7
63404 2001 KK_{31}	15.4	X	264.84045	148.13083	133.67606	8.25617	0.1307278	0.23725196	2.5842201	21	2 11.2	19.3
63405 2001 KP_{33}	15.6	X	259.11618	254.29766	86.58135	9.92815	0.2134826	0.24287856	2.5441532	21	4 16.2	19.7
63406 2001 KN_{34}	15.6	X	267.96467	157.70999	158.21352	2.41115	0.1162844	0.24170212	2.5524020	21	3 30.6	19.1
63407 2001 KZ_{35}	15.9	X	228.00946	127.64843	151.99866	3.35228	0.0976109	0.23086231	2.6316857	21	1 5.0	20.0
63408 2001 KA_{38}	15.2	X	264.34278	157.68056	147.53102	10.14052	0.2577021	0.23712210	2.5851636	21	3 1.2	19.4
63409 2001 KY_{38}	15.4	X	56.15399	207.77807	104.37702	7.86833	0.2468746	0.25823418	2.4422694	21	12 7.6	18.9
63410 2001 KQ_{39}	13.9	X	263.73491	52.56117	210.67795	16.39265	0.1630119	0.18366679	3.0651305	21	1 19.9	19.1
63411 2001 KK_{41}	14.4	X	268.12276	274.90294	261.05853	10.15357	0.1322038	0.22467941	2.6797475	21	—	—
63412 2001 KQ_{44}	15.2	X	109.29339	234.45614	105.68976	13.43568	0.2502699	0.26883941	2.3776108	21	—	—
63413 2001 KK_{47}	14.8	X	177.82375	75.73305	275.02419	5.12963	0.2715294	0.23066814	2.6331623	21	2 17.3	19.4
63414 2001 KF_{55}	15.2	X	186.35244	159.22183	97.50982	8.19811	0.1164688	0.27312820	2.3526556	21	—	—
63415 2001 KH_{55}	15.2	X	276.22879	188.13762	138.09190	7.35254	0.2463917	0.24301212	2.5432210	21	4 9.1	19.1
63416 2001 KU_{56}	15.5	X	249.75081	170.85131	143.15682	9.46736	0.1574986	0.23903882	2.5713257	21	3 6.6	19.6
63417 2001 KR_{58}	14.4	X	14.21067	248.21104	122.90651	10.39587	0.2757784	0.21009766	2.8023470	21	12 23.3	17.6
63418 2001 KW_{62}	14.7	X	289.69872	187.32075	116.34975	15.05998	0.1765390	0.24144531	2.5542116	21	4 8.0	18.6
63419 2001 KP_{64}	15.3	X	234.60688	142.25504	159.88153	14.34914	0.1788696	0.23364135	2.6107758	21	2 3.6	19.8
63420 2001 KB_{65}	14.8	X	120.69543	254.65521	101.40723	22.26566	0.2809440	0.27404751	2.3473912	21	—	—
63421 2001 KC_{67}	15.0	X	177.22947	11.82027	279.13170	8.21005	0.1304976	0.22034971	2.7147367	21	—	—
63422 2001 KL_{70}	14.6	X	233.16614	101.87624	246.25548	13.67300	0.1356361	0.23333864	2.6130333	21	3 28.1	18.9
63423 2001 KY_{72}	15.4	X	157.51765	231.90961	355.60236	0.79117	0.0131688	0.21602096	2.7508831	21	11 16.1	19.1
63424 2001 KW_{73}	16.1	X	324.60326	157.95461	120.96118	3.44306	0.0620698	0.24575064	2.5242921	21	5 4.2	19.2
63425 2001 LV_{5}	15.5	X	74.37205	195.17980	127.55277	6.35535	0.2615759	0.26445792	2.4038000	21	—	—
63426 2001 LU_{13}	15.0	X	291.69336	197.14295	86.03046	15.69659	0.1036095	0.23919872	2.5701797	21	3 27.0	18.9
63427 2001 MB	15.5	X	13.37217	261.35051	105.99554	3.58548	0.1908553	0.25577200	2.4579179	21	12 14.9	18.0
63428 2001 MC_{1}	14.6	X	106.79977	242.59644	97.06559	10.10014	0.2999452	0.21543676	2.7558538	21	—	—
63429 2001 MH_{5}	15.4	X	257.83425	351.71800	329.41490	4.31448	0.1586392	0.28120187	2.3074055	21	3 15.9	18.9
63430 2001 MR_{6}	15.6	X	127.51942	303.96431	83.76188	5.09872	0.1684650	0.27354015	2.3502929	21	2 2.8	18.6
63431 2001 ML_{14}	15.0	X	249.32706	221.33254	130.63157	13.57349	0.2116754	0.23511081	2.5998861	21	4 22.6	19.4
63432 2001 MY_{14}	15.6	X	100.68664	235.80535	86.72723	2.35589	0.1792794	0.26176804	2.4202393	21	—	—
63433 2001 MZ_{17}	14.9	X	223.34479	89.07117	250.02292	12.14521	0.1056611	0.23044952	2.6348274	21	3 7.9	19.2
63434 2001 MD_{21}	15.1	X	128.87333	80.88332	276.83003	5.59752	0.1549531	0.27056563	2.3674872	21	—	—
63435 2001 MU_{21}	16.2	X	76.04162	0.00986	8.49381	3.70040	0.1283972	0.26500801	2.4004724	21	—	—
63436 2001 MO_{23}	15.1	X	255.16838	31.47764	321.64385	2.98556	0.2847825	0.23544691	2.5974112	21	4 16.4	19.4
63437 2001 MY_{23}	14.7	X	244.60931	16.71193	321.54287	11.47142	0.1951161	0.23278493	2.6171752	21	3 23.2	19.2
63438 2001 MY_{28}	15.0	X	214.21895	262.69425	113.04787	12.54741	0.1898423	0.23473587	2.6026538	21	4 22.5	19.5
63439 2001 MD_{29}	15.8	X	171.26502	251.11649	122.91818	3.98397	0.1693688	0.27743855	2.3282245	21	3 4.2	19.3
63440 2001 MD_{30}	15.2	X	42.71384	205.88838	229.43129	19.98119	0.0883696	0.36525834	1.9382180	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63441 2001 NV_2	15.7	X	277.46985	321.27134	103.12396	7.21408	0.0889407	0.25136122	2.4865882	21	9 16.4	18.8
63442 2001 NO_6	13.8	X	244.93229	118.64002	257.07908	26.81676	0.1565722	0.23709240	2.5853794	21	5 17.1	17.9
63443 2001 NH_7	15.4	X	78.66543	234.88814	194.85034	21.69429	0.0460222	0.23094479	2.6310591	21	1 8.5	19.3
63444 2001 ND_8	14.2	X	145.35436	24.81657	311.86239	5.53595	0.0165736	0.17297528	3.1901665	21	—	—
63445 2001 NL_9	15.6	X	210.25804	37.51365	269.24312	4.21704	0.1705825	0.22691436	2.6621227	21	1 21.2	20.0
63446 2001 NV_9	16.3	X	237.81416	214.42925	257.86958	2.44620	0.0726595	0.30201351	2.2001475	21	9 30.7	19.0
63447 2001 NG_{11}	15.3	X	136.27226	78.64313	255.54026	3.87615	0.2352943	0.26825325	2.3810730	21	—	—
63448 2001 NF_{14}	15.6	X	262.24556	37.11710	319.84549	11.45078	0.2008557	0.23859069	2.5745444	21	5 1.5	19.8
63449 2001 NO_{14}	16.7	X	329.93542	193.91525	139.28542	3.66406	0.1973960	0.29474461	2.2361733	21	7 15.6	18.0
63450 2001 NP_{17}	14.3	X	239.03453	78.52014	325.68536	22.63722	0.1718590	0.24191871	2.5508784	21	6 17.5	18.7
63451 2001 OB	14.9	X	285.75783	78.41039	302.54492	10.81654	0.1524339	0.24545223	2.5263377	21	7 14.8	18.1
63452 2001 OO_2	16.4	X	98.88127	223.91507	148.22893	23.30291	0.0982691	0.36676142	1.9329188	21	—	—
63453 2001 OQ_4	16.3	X	62.39893	218.80192	45.36609	7.34977	0.0956019	0.29588655	2.2304161	21	9 28.4	18.9
63454 2001 OB_5	13.4	X	178.01846	132.16643	279.47091	15.13080	0.2297977	0.18054082	3.1004098	21	4 29.7	19.0
63455 2001 OD_5	14.0	X	247.10885	72.70083	267.81921	12.37804	0.1176692	0.18348601	3.0671434	21	4 7.5	18.9
63456 2001 OS_5	14.3	X	241.99548	129.31377	223.40961	10.40487	0.1208954	0.18460208	3.0547686	21	4 21.1	19.0
63457 2001 OG_6	14.9	X	172.32629	329.53721	281.76365	11.27344	0.0863508	0.21253120	2.7809142	21	12 28.7	19.1
63458 2001 OT_6	13.6	X	13.61571	224.59411	291.78009	9.10518	0.0627392	0.17525930	3.1623893	21	2 9.9	17.8
63459 2001 OT_7	14.4	X	167.16959	133.25694	206.37845	5.85599	0.1156879	0.17269785	3.1935822	21	1 25.5	19.5
63460 2001 OA_8	15.6	X	190.68234	84.16346	264.20377	5.79290	0.1523188	0.27607804	2.3358671	21	2 13.9	19.3
63461 2001 OJ_8	14.5	X	266.64931	61.91853	279.86431	8.79173	0.1167652	0.18801880	3.0176477	21	5 2.6	19.1
63462 2001 OE_9	14.2	X	214.21884	137.06649	276.65903	8.87971	0.1945428	0.18753010	3.0228881	21	6 3.9	19.3
63463 2001 OR_{12}	15.9	X	74.75591	79.89313	277.50489	5.10898	0.1240374	0.26296246	2.4129049	21	—	—
63464 2001 OL_{16}	14.8	X	347.41335	49.28514	40.40411	12.80563	0.1275555	0.25823774	2.4422470	21	—	—
63465 2001 OL_{19}	14.6	X	187.05537	113.41208	235.86891	8.73551	0.0945497	0.17941538	3.1133618	21	2 20.6	19.6
63466 2001 OM_{21}	14.9	X	112.18158	24.56378	314.12438	5.49489	0.0531235	0.21288344	2.7778458	21	—	—
63467 2001 OS_{21}	15.5	X	276.85214	349.01437	330.38815	3.09013	0.2516282	0.23460771	2.6036016	21	3 28.4	19.4
63468 2001 OY_{21}	15.5	X	147.86755	191.03938	129.85499	2.14967	0.1916065	0.26617071	2.3934767	21	—	—
63469 2001 OP_{22}	15.2	X	255.99430	202.46230	47.56556	6.81914	0.2004822	0.22894223	2.6463794	21	—	—
63470 2001 OH_{23}	14.5	X	113.91836	71.99088	21.68315	7.91932	0.0500923	0.18395301	3.0619501	21	4 7.1	18.6
63471 2001 OD_{25}	15.0	X	255.14414	44.48259	296.06581	10.29531	0.1837817	0.23463616	2.6033911	21	4 4.9	19.4
63472 2001 OY_{25}	15.4	X	251.70781	260.55007	135.26615	4.29816	0.2301401	0.24107344	2.5568376	21	6 12.2	19.4
63473 2001 OZ_{25}	14.8	X	291.08203	193.68324	192.48252	1.02659	0.1092156	0.19722559	2.9229892	21	8 3.4	18.7
63474 2001 OR_{27}	16.4	X	223.86968	344.73725	44.22800	7.42702	0.1149601	0.28740569	2.2740804	21	5 12.3	19.6
63475 2001 OB_{32}	14.1	X	229.24585	93.74087	303.87704	8.65570	0.1140375	0.19066725	2.9896383	21	6 2.7	18.8
63476 2001 OL_{37}	15.1	X	84.11121	282.76020	60.47373	10.12484	0.1660516	0.21228264	2.7830845	21	—	—
63477 2001 OG_{38}	14.5	X	99.81652	119.21500	8.48018	10.38392	0.0828763	0.18573235	3.0423628	21	5 3.5	18.9
63478 2001 OR_{39}	15.9	X	112.42043	332.55426	57.24128	6.39974	0.2389614	0.26810471	2.3819524	21	1 29.3	18.7
63479 2001 OL_{40}	14.6	X	155.79358	324.10016	123.87033	9.17086	0.0977841	0.23332952	2.6131014	21	5 22.5	18.6
63480 2001 OD_{42}	15.9	X	251.14625	332.36060	289.04138	6.49154	0.0912905	0.27127540	2.3633558	21	—	—
63481 2001 OE_{42}	15.6	X	244.15555	137.46374	233.48968	2.55949	0.1130851	0.23419192	2.6066824	21	5 14.6	19.5
63482 2001 OW_{42}	15.0	X	179.04825	174.07640	207.69273	13.04289	0.1492237	0.22593133	2.6698390	21	3 22.1	19.4
63483 2001 OJ_{43}	16.1	X	114.84001	225.50763	180.54660	9.82752	0.2221465	0.26862446	2.3788790	21	2 16.5	19.1
63484 2001 OV_{48}	14.7	X	53.56070	217.57779	112.88037	12.16713	0.0860796	0.20590058	2.8403008	21	11 28.7	18.7
63485 2001 OO_{49}	14.6	X	232.38742	167.06954	173.93863	9.38612	0.1308514	0.18345737	3.0674626	21	3 29.6	19.3
63486 2001 OH_{55}	15.0	X	105.70040	292.29482	44.73881	8.79626	0.1654579	0.21415890	2.7668055	21	—	—
63487 2001 OU_{55}	14.3	X	232.89713	51.41046	304.83934	5.13035	0.1348102	0.18156639	3.0887238	21	4 13.8	19.3
63488 2001 OT_{56}	13.2	X	182.44833	195.91378	130.31134	8.30977	0.1386945	0.12476964	3.9664023	21	2 2.6	19.4
63489 2001 OB_{57}	13.8	X	154.79519	58.02328	318.37250	11.60307	0.2110481	0.17605320	3.1528751	21	3 2.2	19.1
63490 2001 OP_{59}	15.0	X	184.00421	291.43652	97.18094	3.95395	0.1576370	0.23288295	2.6164408	21	4 7.9	19.2
63491 2001 OY_{60}	14.2	X	179.03723	306.23518	16.63791	2.86519	0.2269659	0.12389961	3.9849489	21	1 30.5	20.7
63492 2001 OL_{62}	14.6	X	133.64292	248.90772	180.85611	9.54381	0.1258348	0.18227039	3.0807654	21	4 10.5	19.2
63493 2001 OY_{62}	15.0	X	80.89625	28.06302	9.52543	2.62417	0.1867934	0.25991385	2.4317361	21	—	—
63494 2001 OX_{63}	14.6	X	88.77875	300.10312	87.67110	6.18000	0.0633233	0.21869893	2.7283805	21	—	—
63495 2001 OH_{64}	14.5	X	197.58782	91.37424	254.48911	9.04804	0.0930060	0.17993934	3.1073152	21	2 26.2	19.5
63496 2001 ON_{64}	15.7	X	125.91260	354.17429	283.86811	7.39974	0.0843390	0.26105909	2.4246190	21	12 21.9	19.3
63497 2001 OG_{65}	14.6	X	224.42630	352.62862	49.32314	9.55135	0.1768412	0.18784622	3.0194957	21	5 29.8	19.5
63498 2001 OQ_{65}	14.2	X	157.16321	39.07804	317.54898	14.91053	0.0736735	0.17553053	3.1591308	21	2 2.5	18.9
63499 2001 ON_{69}	15.4	X	325.09598	240.48925	136.89557	12.31150	0.1929330	0.24705378	2.5154076	21	9 18.8	17.6
63500 2001 OS_{69}	15.9	X	259.62897	199.68708	134.24199	5.15629	0.2592616	0.23384589	2.6092532	21	4 2.2	20.2
63501 2001 OD_{70}	15.4	X	90.51373	286.48524	111.67471	3.32190	0.2053333	0.26561871	2.3967916	21	—	—
63502 2001 OD_{72}	16.3	X	181.75814	36.61662	308.01072	1.31664	0.2485434	0.27242543	2.3566999	21	2 9.3	20.2
63503 2001 OE_{72}	15.8	X	54.17854	26.63881	335.68263	5.96674	0.2265697	0.30603392	2.1808360	21	—	—
63504 2001 OO_{78}	14.2	X	236.36705	48.31426	359.86111	10.15876	0.1121307	0.19179279	2.9779303	21	6 24.9	18.9
63505 2001 OP_{79}	15.1	X	207.13222	340.50694	357.96560	9.76272	0.1355142	0.22854935	2.6494114	21	2 27.3	19.2
63506 2001 OH_{81}	15.0	X	316.83281	125.68969	252.60274	10.76463	0.2519969	0.24357602	2.5392943	21	8 12.4	17.6
63507 2001 OL_{81}	15.6	X	143.87688	63.54828	276.69377	1.96111	0.2624509	0.27004539	2.3705268	21	1 3.3	19.0
63508 2001 OQ_{81}	14.5	X	25.29907	141.81835	294.96797	8.59690	0.1919422	0.21550623	2.7552615	21	—	—
63509 2001 OW_{83}	14.7	X	51.00091	343.61147	106.13136	11.78168	0.0782030	0.21770171	2.7367061	21	1 3.4	18.0
63510 2001 OG_{89}	15.1	X	145.56660	317.75234	130.44827	5.08822	0.2150100	0.23291504	2.6162005	21	5 19.8	19.4
63511 2001 OV_{92}	15.9	X	228.23003	115.42607	50.24545	3.98784	0.0922258	0.25966759	2.4332733	21	11 22.2	18.8
63512 2001 OZ_{95}	15.1	X	9.35350	153.67647	325.74335	6.89015	0.0532008	0.26923185	2.3752998	21	—	—
63513 2001 OV_{96}	15.8	X	159.02259	49.20435	250.05872	17.59035	0.0595170	0.36491294	1.9394409	21	—	—
63514 2001 OY_{99}	14.8	X	248.65566	38.47121	317.63138	8.38009	0.0113352	0.18855882	3.0118834	21	5 12.1	19.2
63515 2001 OE_{100}	15.4	X	339.72167	322.50556	8.69461	1.90361	0.1392001	0.24620738	2.5211693	21	8 8.7	17.7
63516 2001 OL_{103}	13.6	X	275.07550	124.60921	119.36790	18.44914	0.1138529	0.17417849	3.1754579	21	1 18.9	18.3
63517 2001 OM_{104}	13.8	X	206.75974	337.39420	359.58865	16.13362	0.1012978	0.17761189	3.1344020	21	3 4.5	18.7
63518 2001 OM_{105}	14.4	X	335.69448	39.05703	279.50732	9.91164	0.1438947	0.19208255	2.9749347	21	7 9.2	17.7
63519 2001 OJ_{107}	15.0	X	235.45109	99.98750	311.43054	5.30955	0.1663423	0.28617359	2.2806030	21	6 21.5	18.4
63520 2001 PF	14.0	X	339.30231	1.95775	347.00923	16.52361	0.0997366	0.19575171	2.9376429	21	9 1.6	17.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63521 2001 PL	14.3	X	129.75651	253.20158	215.76892	21.21445	0.1375130	0.23279000	2.6171373	21	5 22.7	18.3
63522 2001 PP	14.2	X	216.37288	201.84071	129.49605	12.67065	0.2645099	0.18091074	3.0961820	21	3 2.4	19.7
63523 2001 PH_1	15.8	X	241.01825	55.60490	314.75894	3.27679	0.2470143	0.23632009	2.5910092	21	4 28.4	20.1
63524 2001 PP_2	15.1	X	277.86399	278.64368	63.12124	3.95793	0.1272177	0.23857535	2.5746548	21	5 14.1	18.6
63525 2001 PU_2	14.7	X	347.94417	113.94951	275.19786	3.99472	0.1216510	0.20341421	2.8633989	21	11 8.3	18.0
63526 2001 PO_7	14.8	X	119.68346	70.81693	280.26669	7.98380	0.0934897	0.21932681	2.7231709	21	—	—
63527 2001 PM_8	16.4	X	221.39879	164.18753	144.19780	24.44187	0.0645609	0.37330549	1.9102629	21	1 7.0	18.9
63528 Kocherhans	14.3	X	244.29547	107.93196	270.92997	7.80521	0.0420145	0.18993323	2.9973359	21	6 3.8	18.7
63529 2001 PY_{19}	14.4	X	25.80959	1.28747	342.69352	8.34179	0.3257894	0.20377305	2.8600363	21	12 11.1	18.1
63530 2001 PG_{20}	14.5	X	229.62011	284.88980	196.65671	17.05199	0.0834085	0.20050934	2.8909882	21	9 19.8	18.8
63531 2001 PW_{20}	14.7	X	297.24646	291.36717	93.74224	3.28880	0.0831882	0.19657840	2.9294012	21	8 16.2	18.4
63532 2001 PJ_{22}	14.2	X	265.32516	309.27055	316.46545	8.71380	0.0573186	0.17576586	3.1563104	21	2 8.5	18.7
63533 2001 PY_{22}	15.5	X	226.15020	275.81842	115.47425	8.11484	0.1234353	0.23726695	2.5841113	21	5 22.7	19.5
63534 2001 PR_{24}	14.8	X	144.59930	17.46335	51.04149	1.25630	0.1699927	0.17879482	3.1205616	21	4 23.1	19.8
63535 2001 PY_{24}	16.1	X	307.30052	115.19073	317.90925	5.39402	0.1027317	0.30183286	2.2010253	21	11 21.2	18.2
63536 2001 PS_{25}	14.7	X	232.20179	304.90113	126.99399	12.55675	0.1957713	0.19031911	2.9932831	21	7 12.2	19.6
63537 2001 PS_{33}	13.8	X	188.47982	17.94493	42.21548	11.39094	0.1082309	0.18594367	3.0400574	21	5 20.1	18.6
63538 2001 PG_{38}	13.2	X	343.36495	158.60384	39.63290	16.89979	0.1190424	0.17944444	3.1130258	21	2 24.2	17.5
63539 2001 PH_{39}	14.8	X	270.35153	255.73548	85.79151	12.60189	0.1847843	0.23671631	2.5881172	21	5 1.9	18.8
63540 2001 PN_{39}	15.9	X	79.13825	336.78901	94.68463	12.52196	0.2006023	0.26937606	2.3744519	21	1 24.7	18.0
63541 2001 PY_{41}	15.1	X	230.51256	256.28240	210.91298	13.21778	0.0802127	0.24539386	2.5267383	21	9 4.1	18.8
63542 2001 PE_{45}	13.9	X	137.58864	239.20742	172.69693	5.38574	0.1740676	0.17504673	3.1649490	21	3 28.9	18.7
63543 2001 PJ_{45}	15.3	X	133.65639	246.83590	176.81227	2.46274	0.0799515	0.22653621	2.6650844	21	3 22.8	19.0
63544 2001 PD_{47}	14.5	X	211.30414	99.91468	306.10795	0.53274	0.2517050	0.18499068	3.0504891	21	5 21.4	19.8
63545 2001 PB_{48}	15.6	X	132.18398	55.00556	348.27559	23.32793	0.2846383	0.27286879	2.3541464	21	3 12.4	19.1
63546 2001 PX_{53}	14.9	X	117.24896	12.99029	132.04693	13.38532	0.0869907	0.19056918	2.9906639	21	6 20.4	19.4
63547 2001 PD_{57}	14.0	X	28.30964	328.21912	155.33643	10.75855	0.1220315	0.17403943	3.1771492	21	1 22.6	17.9
63548 2001 PD_{58}	14.6	X	143.36044	274.94375	83.34284	5.14287	0.1607016	0.17099973	3.2146901	21	1 30.9	19.6
63549 2001 PJ_{63}	15.8	X	219.66324	60.18239	352.45443	2.79503	0.1835611	0.23339851	2.6125864	21	6 6.6	20.0
63550 2001 PX_{64}	15.8	X	203.88762	43.63861	34.55913	3.08793	0.0742187	0.23919763	2.5701874	21	6 29.8	19.5
63551 2001 QS_1	16.6	X	359.02096	155.44823	260.79469	1.71798	0.1088073	0.30796300	2.1717193	21	—	—
63552 2001 QC_4	15.3	X	114.31287	46.83760	333.34878	3.51087	0.1033391	0.22061142	2.7125893	21	1 7.7	18.8
63553 2001 QV_6	16.6	X	215.03928	34.84501	249.11452	1.56358	0.0642056	0.32168320	2.1095207	21	—	—
63554 2001 QA_8	14.2	X	71.54502	176.56264	161.51647	7.11349	0.0461950	0.15969512	3.3646634	21	12 13.2	19.1
63555 2001 QD_8	14.9	X	306.31504	100.44920	264.81239	2.06339	0.0724366	0.19492326	2.9459606	21	8 2.5	18.8
63556 2001 QE_{10}	16.1	X	350.50947	229.91877	159.06604	5.74566	0.1604250	0.30205811	2.1999310	21	12 14.9	18.0
63557 2001 QN_{10}	16.8	X	96.28801	332.79738	351.43834	0.88773	0.1300745	0.31009462	2.1617555	21	—	—
63558 2001 QR_{10}	16.6	X	77.80165	201.30720	133.91907	4.73907	0.1489682	0.30869578	2.1682811	21	—	—
63559 2001 QH_{13}	15.7	X	66.90112	37.86673	351.71140	1.81402	0.1332734	0.26257058	2.4153051	21	—	—
63560 2001 QK_{13}	17.3	X	30.31218	355.29648	12.25203	1.70719	0.1554949	0.30492185	2.1861352	21	—	—
63561 2001 QL_{13}	15.8	X	72.94948	252.37257	132.06582	2.47931	0.2218467	0.26206966	2.4183819	21	—	—
63562 2001 QA_{15}	15.6	X	240.06448	7.21292	19.17951	2.93736	0.1183200	0.23804293	2.5784924	21	5 29.1	19.3
63563 2001 QU_{15}	15.5	X	31.46030	230.05925	107.67471	3.55316	0.1985346	0.25309106	2.4752449	21	12 2.7	18.3
63564 2001 QW_{17}	14.7	X	252.92222	6.28502	19.00210	3.63527	0.2224850	0.18861982	3.0112339	21	6 1.4	19.5
63565 2001 QP_{18}	15.0	X	303.21955	14.53421	354.49158	9.56049	0.1228147	0.19343204	2.9610820	21	7 30.7	18.8
63566 2001 QT_{18}	14.4	X	231.21026	238.96039	155.05216	9.63603	0.1409792	0.18632994	3.0358545	21	5 31.8	19.3
63567 2001 QK_{19}	15.8	X	251.32832	232.50730	184.78413	3.72157	0.1530563	0.29067037	2.2570207	21	7 18.7	18.7
63568 2001 QA_{21}	14.1	X	113.93363	321.08521	58.46128	2.31292	0.1570801	0.16835164	3.2483125	21	1 24.8	18.8
63569 2001 QK_{22}	14.5	X	226.16142	286.53998	166.80969	13.71024	0.2044926	0.23893112	2.5720983	21	7 31.9	18.8
63570 2001 QN_{22}	14.8	X	236.17673	6.55250	346.44083	7.82509	0.1162002	0.23039648	2.6352318	21	4 10.2	18.9
63571 2001 QC_{23}	14.9	X	60.32410	279.81091	127.67358	2.80255	0.1924849	0.26091658	2.4255018	21	—	—
63572 2001 QD_{23}	15.8	X	286.20776	214.81041	137.80467	3.68133	0.1794736	0.28722173	2.2750513	21	5 30.1	18.5
63573 2001 QG_{23}	14.4	X	264.18327	56.87448	357.12873	4.11775	0.3066163	0.23859162	2.5745377	21	7 10.1	18.3
63574 2001 QH_{25}	15.7	X	66.95851	279.50413	99.17156	4.32882	0.1474682	0.31029344	2.1608319	21	—	—
63575 2001 QQ_{27}	14.8	X	243.91007	85.25464	11.43390	12.87533	0.1435730	0.24159895	2.5531286	21	9 6.6	18.4
63576 2001 QS_{27}	15.8	X	269.14035	199.45223	194.94704	6.12754	0.1390395	0.28824084	2.2696856	21	7 11.0	18.7
63577 2001 QU_{27}	15.3	X	153.05453	34.07719	358.75348	6.84352	0.1146226	0.27198355	2.3592518	21	3 4.7	18.6
63578 2001 QD_{28}	14.9	X	56.97769	250.25947	161.03118	2.00344	0.1682495	0.26028093	2.4294492	21	—	—
63579 2001 QO_{29}	14.5	X	207.26046	149.19077	14.95800	6.94930	0.1029715	0.29560029	2.2318559	21	10 28.3	17.4
63580 2001 QW_{29}	15.0	X	129.90102	302.08251	110.13841	3.06216	0.2040058	0.26971667	2.3724525	21	3 15.4	18.3
63581 2001 QC_{30}	15.9	X	180.19998	201.28187	149.25723	2.52860	0.2276498	0.27097889	2.3650795	21	2 14.3	19.8
63582 2001 QL_{30}	14.6	X	236.44069	225.97982	185.63396	3.90489	0.3140162	0.18371804	3.0645604	21	6 12.8	20.0
63583 2001 QP_{31}	15.2	X	254.64492	186.04035	158.77148	10.78921	0.2834136	0.28225042	2.3016873	21	4 6.6	19.1
63584 2001 QY_{33}	14.4	X	138.66932	131.40685	262.38089	8.22658	0.0900526	0.17426402	3.1744189	21	2 23.8	19.3
63585 2001 QB_{44}	14.7	X	284.01344	222.16180	147.04454	10.89064	0.1172663	0.19348170	2.9605753	21	6 30.9	18.9
63586 2001 QK_{44}	14.8	X	204.63226	8.46312	30.69613	1.68817	0.1756593	0.18578388	3.0418003	21	5 9.9	19.8
63587 2001 QH_{47}	14.9	X	176.83512	67.22060	351.91126	3.65743	0.0502192	0.18570404	3.0426721	21	5 5.7	19.5
63588 2001 QB_{49}	17.0	X	86.12132	46.32173	323.51074	2.09093	0.1649848	0.31358322	2.1456926	21	—	—
63589 2001 QX_{49}	14.3	X	0.22155	112.31525	142.14043	11.28345	0.0803248	0.18936350	3.0033449	21	5 30.2	18.2
63590 2001 QM_{59}	16.3	X	187.36662	194.86528	125.03514	3.56363	0.2282232	0.27284317	2.3542938	21	1 14.0	20.2
63591 2001 QF_{61}	14.4	X	150.31445	210.10608	204.05685	1.66007	0.1693933	0.18050275	3.1008458	21	4 10.9	19.3
63592 2001 QM_{61}	15.5	X	204.42043	100.54548	306.20706	5.12354	0.1553955	0.28487221	2.2875433	21	5 13.3	19.1
63593 2001 QZ_{62}	15.7	X	159.14312	194.60086	163.17950	6.59730	0.1393599	0.27197441	2.3593046	21	1 25.9	19.2
63594 2001 QU_{63}	14.6	X	172.89572	243.24995	90.68087	2.49418	0.1739801	0.17141593	3.2094844	21	1 29.8	19.8
63595 2001 QW_{63}	16.2	X	195.10854	240.56433	180.62167	6.46080	0.0919339	0.28392859	2.2926089	21	5 26.7	19.4
63596 2001 QG_{64}	15.5	X	78.20114	222.23597	157.04750	8.50456	0.2318466	0.21153831	2.7896091	21	—	—
63597 2001 QH_{65}	14.4	X	274.08438	255.43160	150.36410	12.91814	0.2334700	0.23920503	2.5701344	21	7 18.6	18.0
63598 2001 QJ_{65}	14.9	X	175.07087	46.44845	260.32714	7.28512	0.0837702	0.22146561	2.7056099	21	—	—
63599 2001 QN_{65}	14.8	X	315.66506	242.00107	280.48760	5.74785	0.0345511	0.21721726	2.7407736	21	—	—
63600 2001 QY_{65}	13.7	X	69.96980	238.34943	316.16352	8.80912	0.0349611	0.18766802	3.0214068	21	6 15.9	17.9

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63601 2001 QD_{66}	15.2	X	248.85062	310.40589	315.36088	6.16387	0.0850053	0.27298160	2.3534978	21	1 2.7	18.6
63602 2001 QE_{67}	14.6	X	196.90613	324.16303	23.48354	14.11619	0.2004593	0.22445689	2.6815183	21	3 6.3	19.3
63603 2001 QG_{67}	14.2	X	159.74590	306.35885	89.83606	7.02885	0.2110691	0.22310675	2.6923256	21	3 31.8	18.7
63604 2001 QC_{68}	13.7	X	259.65501	335.05213	58.14631	14.57544	0.1538190	0.23400653	2.6080589	21	6 25.3	17.5
63605 Budperry	16.1	X	69.15367	284.22228	179.56529	26.22599	0.0946543	0.37476543	1.9052986	21	1 4.4	18.4
63606 2001 QK_{69}	13.4	X	268.67385	326.49452	285.10814	10.28324	0.0877475	0.17414413	3.1758757	21	1 22.6	18.2
63607 2001 QG_{70}	15.7	X	124.73500	118.00412	267.59346	5.12604	0.1567363	0.26914690	2.3757995	21	1 23.9	18.7
63608 2001 QD_{72}	15.9	X	145.70568	0.23063	18.19601	2.29740	0.2176032	0.27010639	2.3701699	21	2 17.7	19.2
63609 Francoisecolas	14.7	X	179.11641	271.24004	194.26531	2.04341	0.1086836	0.19095538	2.9866301	21	7 7.1	19.3
63610 2001 QT_{75}	14.6	X	258.03963	249.58271	181.04618	4.28664	0.1944608	0.23798045	2.5789437	21	8 6.9	18.2
63611 2001 QX_{75}	15.2	X	240.03127	277.65497	205.06289	4.21930	0.0946327	0.29299804	2.2450511	21	10 15.3	17.7
63612 2001 QK_{76}	15.4	X	57.11859	157.52423	215.56109	6.98733	0.1628698	0.25482611	2.4639966	21	—	—
63613 2001 QO_{76}	13.9	X	183.15288	88.05671	217.94954	10.94886	0.0986829	0.21327342	2.7744585	21	—	—
63614 2001 QF_{77}	14.4	X	318.00990	189.71334	203.42104	13.70711	0.1696991	0.24254991	2.5464509	21	9 22.6	17.1
63615 2001 QB_{78}	14.8	X	106.14077	211.86018	248.39795	5.11336	0.1842370	0.26981848	2.3718556	21	4 14.1	17.9
63616 2001 QN_{78}	14.4	X	182.19646	212.28705	200.93204	13.87602	0.1204739	0.22586942	2.6703269	21	5 5.8	18.6
63617 2001 QO_{78}	15.5	X	335.27652	174.03538	177.78029	6.71279	0.2012985	0.29106602	2.2549749	21	9 2.2	16.9
63618 2001 QP_{78}	15.4	X	127.94151	330.46037	89.43315	3.45057	0.2024036	0.26874731	2.3781540	21	3 23.6	18.7
63619 2001 QV_{78}	14.9	X	263.63028	321.90087	30.17690	10.60133	0.0925019	0.27976266	2.3153121	21	5 10.0	17.9
63620 2001 QW_{78}	14.1	X	110.58994	170.46263	241.61554	5.04601	0.1343004	0.26552282	2.3973686	21	2 5.4	17.0
63621 2001 QZ_{78}	15.1	X	88.89343	14.05340	358.80531	2.25533	0.2028803	0.25856018	2.4402161	21	—	—
63622 2001 QE_{79}	14.2	X	243.45590	14.27076	34.93786	12.21240	0.0823761	0.18293898	3.0732547	21	7 8.4	18.9
63623 2001 QN_{79}	15.3	X	71.74473	81.79112	317.34244	1.97322	0.1325003	0.26010313	2.4305562	21	—	—
63624 2001 QX_{79}	15.6	X	141.97366	52.24624	13.63257	2.33253	0.1884556	0.27170435	2.3608677	21	4 11.4	19.0
63625 2001 QC_{80}	15.3	X	101.08060	227.24846	29.48128	3.69065	0.0310068	0.29359500	2.2420069	21	10 27.2	17.9
63626 2001 QH_{80}	14.5	X	189.04180	346.67721	20.99355	9.45413	0.2213378	0.22233801	2.6985278	21	3 20.7	19.1
63627 2001 QJ_{80}	15.6	X	240.10104	334.09172	10.41059	4.41848	0.1892631	0.27676924	2.3319765	21	3 28.4	19.1
63628 2001 QN_{80}	14.5	X	262.33736	65.66275	179.08374	10.65725	0.0332514	0.17197149	3.2025684	21	1 13.5	19.3
63629 2001 QU_{80}	14.2	X	224.98497	2.58288	317.82766	12.65403	0.1580446	0.22550074	2.6732366	21	2 18.2	18.5
63630 2001 QE_{83}	14.6	X	125.30542	173.06302	252.26389	4.29555	0.2651929	0.27084155	2.3658790	21	3 31.4	18.1
63631 2001 QY_{83}	14.7	X	235.93440	175.89669	212.11132	4.95142	0.3163114	0.23291770	2.6161806	21	5 13.9	19.4
63632 2001 QG_{84}	15.0	X	211.80802	215.46678	204.02150	15.05530	0.1741973	0.23240966	2.6199918	21	6 9.1	19.5
63633 2001 QR_{84}	15.2	X	278.10645	111.10479	342.12379	3.86270	0.0958464	0.29470887	2.2363541	21	10 29.1	17.5
63634 2001 QU_{86}	14.9	X	262.59186	54.11225	337.86215	21.82325	0.0692765	0.23840297	2.5758957	21	7 17.5	18.7
63635 2001 QM_{88}	15.7	X	328.36528	324.41042	152.93180	5.51036	0.1157185	0.21361132	2.7715319	21	—	—
63636 2001 QJ_{90}	15.8	X	281.37024	304.93322	94.29423	8.06854	0.1044116	0.28841523	2.2687706	21	8 15.9	18.3
63637 2001 QT_{90}	15.1	X	64.48047	164.86792	240.08037	19.25638	0.0742822	0.36623006	1.9347880	21	—	—
63638 2001 QM_{92}	14.6	X	155.58467	67.53804	7.76956	8.90396	0.0856302	0.18439620	3.0570420	21	5 3.1	19.3
63639 2001 QQ_{93}	14.9	X	128.82405	19.84501	50.79261	8.58090	0.2076228	0.21930473	2.7233537	21	4 13.3	19.1
63640 2001 QM_{94}	16.5	X	322.34827	223.82768	181.94581	2.68643	0.1420795	0.29862424	2.2167634	21	11 9.3	18.1
63641 2001 QE_{97}	13.6	X	30.32793	303.91320	321.87682	9.01525	0.0363872	0.19062247	2.9901065	21	7 26.7	17.5
63642 2001 QK_{97}	14.6	X	178.63929	140.39302	320.68232	5.83402	0.1639532	0.28389102	2.2928111	21	7 1.8	18.2
63643 2001 QC_{99}	14.9	X	253.82844	333.40351	350.52174	9.30188	0.2102201	0.22873828	2.6479522	21	3 17.6	19.0
63644 2001 QY_{99}	16.2	X	320.18056	297.25549	232.80519	20.94172	0.0570746	0.36941306	1.9236581	21	—	—
63645 2001 QY_{101}	15.8	X	239.24956	12.45674	32.17886	2.90016	0.2122604	0.28466906	2.2886315	21	6 11.7	19.3
63646 2001 QA_{102}	15.6	X	156.44598	227.56165	185.47215	6.77349	0.1914408	0.22409287	2.6844214	21	4 14.2	20.0
63647 2001 QD_{104}	13.8	X	149.79440	279.05613	80.37973	2.31574	0.2185847	0.17138484	3.2098724	21	2 11.5	19.0
63648 2001 QP_{104}	15.6	X	355.63845	31.10746	307.71197	5.50027	0.1635660	0.29353646	2.2423050	21	9 28.9	17.4
63649 2001 QT_{105}	15.1	X	69.41031	213.29567	203.75481	6.19048	0.1383685	0.26122059	2.4236196	21	—	—
63650 2001 QN_{106}	14.8	X	120.40718	179.21924	211.93159	5.58938	0.1491097	0.17248398	3.1962216	21	2 10.2	19.6
63651 2001 QS_{107}	14.7	X	187.67977	217.12064	159.84614	4.72791	0.2045897	0.22420048	2.6835624	21	3 28.9	19.1
63652 2001 QG_{108}	15.4	X	26.17881	344.26104	148.55135	3.34291	0.0042732	0.21972253	2.7199003	21	1 22.9	19.1
63653 2001 QQ_{109}	14.9	X	114.58081	249.73151	51.75602	7.13255	0.1703055	0.26215980	2.4178275	21	—	—
63654 2001 QD_{113}	13.5	X	45.31468	196.30976	335.80080	23.56513	0.1844994	0.17905733	3.1175108	21	4 16.1	17.6
63655 2001 QV_{113}	15.8	X	122.80054	146.25358	352.27564	4.17370	0.1606850	0.23350314	2.6118059	21	6 24.9	19.8
63656 2001 QC_{114}	15.7	X	206.37726	325.19286	264.56193	7.20475	0.0575740	0.26430910	2.4047022	21	—	—
63657 2001 QV_{114}	15.6	X	252.91488	205.45177	214.77265	8.83351	0.1614618	0.29133602	2.2535814	21	7 21.9	18.8
63658 2001 QJ_{115}	14.6	X	313.35821	63.37444	272.63805	7.49946	0.1067192	0.19122446	2.9838277	21	6 30.4	18.3
63659 2001 QM_{116}	15.4	X	106.54343	140.85155	237.88524	5.48045	0.0997143	0.21626376	2.7488237	21	—	—
63660 2001 QV_{119}	13.8	X	310.26198	322.95374	96.04397	3.30519	0.0423269	0.20048655	2.8912072	21	10 23.8	17.5
63661 2001 QC_{120}	14.1	X	189.55188	246.83527	154.82946	11.04742	0.0658717	0.18135328	3.0911431	21	5 3.4	18.9
63662 2001 QE_{120}	15.8	X	221.58494	46.06735	25.25584	4.01868	0.1611422	0.28879210	2.2667964	21	7 4.7	19.2
63663 2001 QQ_{120}	14.1	X	143.64566	102.83154	271.22411	8.73785	0.0480767	0.17664773	3.1457969	21	2 2.3	18.8
63664 2001 QQ_{121}	15.1	X	40.94009	40.23826	83.74450	4.47435	0.1241179	0.22487378	2.6782031	21	2 2.4	18.0
63665 2001 QC_{124}	16.1	X	156.83073	335.61832	75.18354	3.05412	0.1939123	0.27774157	2.3265307	21	4 8.2	19.5
63666 2001 QD_{129}	15.7	X	131.54678	146.71140	268.78739	5.99776	0.0950746	0.27638993	2.3341096	21	3 1.1	18.8
63667 2001 QK_{130}	14.5	X	239.22207	150.38212	193.41219	10.25991	0.1732080	0.18341562	3.0679281	21	4 4.7	19.5
63668 2001 QP_{131}	14.9	X	278.45028	242.48589	178.05794	14.38133	0.2472693	0.24396960	2.5365626	21	8 9.9	18.4
63669 2001 QS_{131}	15.8	X	120.56217	257.08477	108.39867	3.40324	0.1799310	0.26610296	2.3938829	21	—	—
63670 2001 QY_{131}	14.1	X	23.09802	284.32676	287.71528	8.48010	0.0241141	0.18464869	3.0542545	21	5 2.2	18.4
63671 2001 QK_{132}	14.8	X	247.34906	163.74640	190.93430	9.73320	0.0945264	0.18528386	3.0472704	21	5 3.9	19.4
63672 2001 QM_{134}	14.8	X	111.06984	301.34525	219.14785	13.53688	0.1293885	0.23560580	2.5962433	21	7 4.7	18.8
63673 2001 QL_{135}	15.5	X	297.83668	55.02860	303.93629	5.03042	0.1238894	0.28873209	2.2671104	21	7 6.1	17.7
63674 2001 QO_{136}	15.1	X	172.26736	174.97284	319.73683	10.70939	0.0791980	0.23887962	2.5724680	21	8 8.0	18.8
63675 2001 QY_{137}	15.4	X	197.83574	93.62385	284.63860	5.97822	0.1281796	0.27620455	2.3351539	21	3 29.3	19.0
63676 2001 QM_{139}	15.3	X	327.75773	95.83656	263.54170	7.45165	0.1901324	0.29179033	2.2512417	21	8 23.4	17.1
63677 2001 QY_{139}	15.0	X	203.42923	41.02645	323.99749	6.21989	0.1401784	0.27441366	2.3453026	21	3 19.3	18.6
63678 2001 QL_{140}	13.7	X	326.66594	80.91914	255.03495	9.03803	0.1199889	0.18917132	3.0053786	21	7 18.3	17.4
63679 2001 QN_{145}	16.8	X	42.48657	244.06942	194.69274	0.98801	0.1493860	0.26404771	2.4062890	21	—	—
63680 2001 QD_{147}	14.5	X	239.07077	278.83395	97.51416	10.05717	0.1692281	0.18180917	3.0859735	21	5 16.6	19.5

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63681 2001 QE_{147}	14.9	X	48.92891	327.90463	148.24890	10.02026	0.1276384	0.26605205	2.3941883	21	1 22.8	17.2
63682 2001 QZ_{147}	14.4	X	287.92375	322.14122	43.87356	14.56070	0.1894714	0.23709131	2.5853874	21	6 18.3	17.9
63683 2001 QJ_{150}	14.5	X	212.35056	333.48815	113.60655	8.27644	0.2932963	0.18392500	3.0622610	21	7 8.4	19.9
63684 2001 QL_{152}	14.4	X	66.87154	209.16378	73.60517	3.10570	0.0484237	0.19685556	2.9266509	21	10 8.5	18.4
63685 2001 QT_{152}	15.7	X	122.15069	188.70540	321.37958	4.26392	0.0497477	0.23661095	2.5888854	21	6 27.0	19.1
63686 2001 QY_{152}	16.1	X	228.02612	89.87523	340.82322	1.91045	0.1683067	0.28944249	2.2633994	21	7 9.9	19.3
63687 2001 QH_{154}	14.6	X	237.50963	244.88975	322.87662	14.21927	0.0670970	0.20990991	2.8040177	21	—	—
63688 2001 QR_{154}	14.2	X	17.41640	352.90765	163.10683	12.30018	0.1108536	0.17534567	3.1613508	21	2 14.9	18.2
63689 2001 QK_{155}	16.0	X	287.33239	169.80780	187.16414	5.91652	0.1453118	0.28998420	2.2605797	21	6 12.4	18.7
63690 2001 QY_{156}	14.9	X	215.26369	262.34526	185.05310	9.27666	0.1037053	0.19245428	2.9711027	21	7 20.3	19.6
63691 2001 QY_{157}	15.1	X	288.15620	247.59534	189.88770	1.79956	0.0699368	0.20146410	2.8818471	21	10 12.6	18.9
63692 2001 QQ_{160}	16.7	X	89.86321	153.06498	258.36747	0.48970	0.1731242	0.26881555	2.3777515	21	1 10.0	18.8
63693 2001 QN_{161}	16.0	X	290.68878	263.75110	114.33820	3.70256	0.1158214	0.24319699	2.5419320	21	7 23.6	19.1
63694 2001 QB_{167}	15.0	X	207.90380	147.59786	111.00885	8.99695	0.0191612	0.21748107	2.7385567	21	—	—
63695 2001 QM_{168}	15.2	X	239.47457	16.62102	8.71888	5.72436	0.1501472	0.27963583	2.3160122	21	5 21.2	18.6
63696 2001 QV_{169}	15.7	X	181.19339	215.51491	250.90008	4.77971	0.1141177	0.28331934	2.2958944	21	7 10.5	19.0
63697 2001 QY_{177}	14.5	X	299.97603	121.16782	142.51667	10.93337	0.0454513	0.18334588	3.0687060	21	3 22.3	18.8
63698 2001 QK_{179}	14.6	X	187.91577	270.63583	132.08711	4.48877	0.2903559	0.22628596	2.6670489	21	4 30.7	19.5
63699 2001 QG_{181}	13.4	X	337.78511	296.02321	41.05933	13.61188	0.1772295	0.19120477	2.9840326	21	8 13.5	16.9
63700 2001 QR_{181}	14.7	X	270.79514	18.08099	26.93335	4.97065	0.2151031	0.23808872	2.5781618	21	7 18.3	18.2
63701 2001 QA_{182}	15.7	X	214.67789	21.20598	10.58484	12.90033	0.1441130	0.28150528	2.3057472	21	5 1.8	19.3
63702 2001 QK_{182}	14.6	X	53.02161	252.79251	123.03459	7.00400	0.1352767	0.25334193	2.4736106	21	—	—
63703 2001 QB_{185}	14.6	X	185.52685	149.85112	240.41224	12.32804	0.1145825	0.18219378	3.0816290	21	4 9.5	19.6
63704 2001 QS_{187}	15.2	X	90.84014	271.88011	190.33209	22.52973	0.2783255	0.27288242	2.3540680	21	4 13.8	17.9
63705 2001 QJ_{195}	15.0	X	28.33151	29.69828	76.15021	11.53867	0.2209443	0.21622631	2.7491411	21	—	—
63706 2001 QS_{196}	15.2	X	44.85730	235.48950	314.32950	23.63472	0.1765027	0.27961940	2.3161029	21	4 29.1	18.0
63707 2001 QX_{197}	14.6	X	182.84209	196.32552	222.57170	15.05332	0.1018626	0.22811116	2.6528032	21	5 12.3	18.6
63708 2001 QA_{198}	15.6	X	257.58543	164.03189	228.79510	6.16126	0.1383023	0.28537106	2.2848767	21	6 24.2	18.7
63709 2001 QY_{198}	15.5	X	248.16537	335.45557	5.98248	6.49765	0.1333814	0.27785121	2.3259186	21	4 4.3	18.9
63710 2001 QC_{200}	16.0	X	299.98304	149.83058	223.86093	3.58756	0.1696124	0.28871310	2.2672099	21	7 23.3	18.3
63711 2001 QD_{200}	15.7	X	356.62037	174.35501	301.73584	3.67206	0.0230261	0.30925984	2.1656438	21	—	—
63712 2001 QH_{200}	15.0	X	339.43010	99.94374	252.08633	13.78666	0.1578705	0.24355798	2.5394196	21	8 30.4	17.9
63713 2001 QY_{206}	14.5	X	51.75960	142.11418	31.05052	1.86029	0.1436528	0.18330893	3.0691184	21	5 6.9	18.0
63714 2001 QF_{208}	16.8	X	304.77482	302.71933	108.30237	5.17014	0.1188503	0.29881585	2.2158157	21	10 15.4	18.7
63715 2001 QL_{212}	16.4	X	173.36151	100.15872	323.39456	1.97980	0.2137687	0.27972913	2.3154971	21	5 8.5	20.1
63716 2001 QV_{216}	15.7	X	125.96480	296.23063	1.62075	4.87770	0.0907125	0.26026094	2.4295736	21	—	—
63717 2001 QT_{220}	15.1	X	125.40227	186.07147	240.78734	7.60352	0.1795101	0.22714107	2.6603510	21	3 26.6	19.2
63718 2001 QT_{225}	14.5	X	196.39837	146.66541	273.37102	8.86303	0.0545273	0.18490424	3.0514397	21	5 29.9	19.0
63719 2001 QV_{225}	13.9	X	108.87436	214.61589	269.57863	8.92090	0.0481158	0.18170672	3.0871334	21	5 6.9	18.3
63720 2001 QS_{228}	15.9	X	156.18771	59.02421	351.01814	6.48325	0.1361831	0.27621440	2.3350983	21	3 30.0	19.2
63721 2001 QH_{234}	14.9	X	88.01024	297.07886	149.19215	0.88287	0.1660497	0.17165595	3.2064918	21	3 14.6	19.3
63722 2001 QK_{235}	14.5	X	204.71852	207.35286	184.55091	9.28530	0.2773971	0.18086738	3.0966768	21	5 1.4	20.1
63723 2001 QN_{235}	16.5	X	192.10396	231.89393	142.07869	6.54660	0.1482818	0.27861129	2.3216865	21	3 23.8	20.0
63724 2001 QO_{235}	14.2	X	201.53071	206.00716	207.34481	9.08328	0.0669986	0.18333747	3.0687998	21	5 28.2	18.8
63725 2001 QP_{235}	14.3	X	248.42069	179.39722	208.52758	9.09384	0.0987412	0.18652383	3.0337503	21	6 13.9	18.9
63726 2001 QQ_{235}	14.7	X	122.40901	18.23609	358.83216	4.46369	0.1242590	0.21936611	2.7228457	21	1 17.9	18.4
63727 2001 QO_{237}	14.8	X	355.06520	1.43673	45.06196	2.38474	0.0677113	0.20448491	2.8533948	21	12 9.7	18.4
63728 2001 QW_{237}	16.1	X	38.89552	274.39987	160.51886	2.31651	0.1810073	0.26228130	2.4170808	21	—	—
63729 2001 QG_{238}	15.4	X	105.44155	152.62230	161.89410	2.96285	0.2332246	0.25980060	2.4324427	21	—	—
63730 2001 QB_{239}	14.9	X	330.31451	183.84122	338.02521	2.02039	0.1626361	0.26552876	2.3973328	21	—	—
63731 2001 QE_{241}	14.4	X	253.10140	334.18467	182.85608	1.84171	0.0116890	0.20642600	2.8354791	21	12 14.6	18.2
63732 2001 QR_{241}	14.3	X	273.63117	141.14791	145.57155	2.50345	0.0543730	0.17797049	3.1301901	21	3 15.9	18.9
63733 2001 QK_{244}	14.4	X	21.09886	59.70246	156.43055	2.18423	0.0363416	0.18186614	3.0853291	21	5 8.9	18.4
63734 2001 QN_{246}	15.5	X	216.91790	43.55116	353.74212	3.25992	0.2202764	0.28156436	2.3054246	21	5 11.5	19.3
63735 2001 QQ_{246}	14.9	X	158.43420	330.76403	354.49415	9.33400	0.2067141	0.21666692	2.7454128	21	1 3.9	19.4
63736 2001 QF_{249}	14.5	X	248.79872	338.08174	88.45461	2.81003	0.2248388	0.18671405	3.0316894	21	7 19.0	19.2
63737 2001 QN_{249}	16.1	X	161.16412	4.40229	44.50477	5.14601	0.1347598	0.27474473	2.3434182	21	4 5.8	19.6
63738 2001 QA_{251}	14.7	X	106.38155	326.28359	58.34064	9.96535	0.0228675	0.21863897	2.7288793	21	—	—
63739 2001 QD_{251}	16.2	X	295.58982	164.42576	231.77460	7.98689	0.1317102	0.29796652	2.2200243	21	8 24.5	18.5
63740 2001 QO_{251}	15.7	X	128.12926	65.03669	187.71857	8.34133	0.0624038	0.25797603	2.4438984	21	11 22.4	19.2
63741 2001 QV_{254}	16.0	X	63.20220	4.47486	85.25652	9.22615	0.0753276	0.27254652	2.3560018	21	1 7.1	18.4
63742 2001 QK_{256}	14.5	X	251.53715	240.09521	147.71173	9.98771	0.1912742	0.18718956	3.0265531	21	6 8.3	19.4
63743 2001 QL_{256}	14.2	X	217.08854	256.15300	140.10004	9.54880	0.0959102	0.18409049	3.0604255	21	5 23.9	19.0
63744 2001 QT_{256}	15.6	X	207.33565	298.68923	122.77009	5.41726	0.2242961	0.23359857	2.6110945	21	6 6.3	20.0
63745 2001 QU_{258}	15.9	X	143.73099	217.85524	237.48525	6.22805	0.1141738	0.28073335	2.3099719	21	5 14.7	19.1
63746 2001 QF_{263}	15.4	X	214.46401	237.98348	157.73496	6.64207	0.1770744	0.27990380	2.3145338	21	5 11.9	19.1
63747 2001 QG_{263}	14.8	X	245.43176	345.51770	71.75338	5.60682	0.2275253	0.23577162	2.5950259	21	7 3.9	19.0
63748 2001 QH_{263}	15.7	X	16.86015	1.55421	60.25999	3.34576	0.1779406	0.25638937	2.4539707	21	—	—
63749 2001 QU_{263}	15.2	X	188.43288	340.75975	38.38462	7.33547	0.1620885	0.27458998	2.3442986	21	3 28.1	18.8
63750 2001 QG_{264}	15.7	X	277.61155	253.75843	82.54221	5.59763	0.1666251	0.28240251	2.3008608	21	4 29.2	18.7
63751 2001 QX_{264}	15.3	X	344.43293	208.85132	141.48217	2.77796	0.0743104	0.19957395	2.9000144	21	9 11.4	18.9
63752 2001 QA_{265}	15.1	X	114.67498	197.89103	189.43860	8.23633	0.0436532	0.21841377	2.7307548	21	1 7.3	18.9
63753 2001 QE_{265}	16.1	X	73.80117	217.81658	227.30572	2.18107	0.1383237	0.26882365	2.3777037	21	1 24.4	18.4
63754 2001 QP_{267}	15.7	X	324.14608	257.03506	232.85911	18.88061	0.0942272	0.36021192	1.9562784	21	—	—
63755 2001 QZ_{267}	15.2	X	149.59712	241.11898	188.01186	11.02962	0.2389099	0.17783258	3.1318082	21	5 4.4	20.6
63756 2001 QM_{269}	15.3	X	269.92594	201.90296	148.09327	7.31654	0.2266226	0.28368362	2.2939285	21	5 2.3	18.7
63757 2001 QK_{277}	14.5	X	272.36724	3.14689	25.52149	9.44481	0.1113978	0.19162705	2.9796472	21	7 13.9	18.8
63758 2001 QP_{277}	14.0	X	176.87039	332.96349	35.99042	11.75865	0.2034867	0.17643339	3.1483442	21	3 18.5	19.4
63759 2001 QB_{280}	14.3	X	122.73653	341.57480	87.24239	5.71585	0.1942038	0.17482559	3.1676174	21	4 7.8	19.2
63760 2001 QP_{282}	15.7	X	22.14049	268.52996	93.46763	5.18096	0.2128401	0.30040665	2.2079862	21	—	—

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63761 2001 QR_{282}	15.5	X	225.92931	255.51074	138.00439	6.94756	0.1343515	0.28140775	2.3062799	21	5 22.4	19.0
63762 2001 QX_{282}	15.9	X	109.37963	348.12102	8.58400	20.16149	0.0690465	0.36331049	1.9451395	21	—	—
63763 2001 QB_{283}	15.5	X	141.82282	147.51979	202.91995	5.55231	0.0279372	0.22196788	2.7015269	21	—	—
63764 2001 QT_{283}	16.0	X	157.97867	3.95385	1.65829	2.00628	0.2190574	0.27052006	2.3677530	21	2 13.4	19.7
63765 2001 QM_{284}	14.7	X	342.81324	20.86663	72.31808	9.49341	0.1980383	0.25325872	2.4741524	21	—	—
63766 2001 QQ_{284}	15.1	X	76.92546	263.84285	152.48624	6.69968	0.0844563	0.21824261	2.7321824	21	—	—
63767 2001 QF_{291}	15.0	X	226.83659	250.99314	181.60831	4.06348	0.2331578	0.23603299	2.5931099	21	7 5.2	19.2
63768 2001 QP_{291}	15.9	X	245.86703	30.60634	14.13888	4.29317	0.1890921	0.23638620	2.5905261	21	6 21.8	19.9
63769 2001 QU_{291}	15.1	X	351.72815	83.87732	332.52441	0.99588	0.1648729	0.25215648	2.4813572	21	—	—
63770 2001 QM_{293}	15.6	X	223.48561	39.67749	12.13308	4.72407	0.1637970	0.23449649	2.6044248	21	6 10.2	19.7
63771 2001 QA_{294}	15.2	X	105.45025	209.64033	200.47388	3.64236	0.2023617	0.22144000	2.7058186	21	2 15.8	18.7
63772 2001 QO_{295}	14.3	X	132.35521	301.32948	75.29411	14.11412	0.1588999	0.21438781	2.7648357	21	2 6.1	18.6
63773 2001 QP_{295}	15.9	X	53.15559	198.95051	257.69923	0.67269	0.1406203	0.26530174	2.3987002	21	1 3.4	18.0
63774 2001 QX_{295}	15.7	X	206.76206	279.35027	194.36328	7.31113	0.0591930	0.28963518	2.2623954	21	8 21.6	18.8
63775 2001 QH_{296}	14.7	X	34.18774	276.72444	197.57976	9.10644	0.1776890	0.21365284	2.7711728	21	1 7.9	17.6
63776 2001 QF_{297}	14.7	X	325.99158	264.29011	100.36868	14.95828	0.2048304	0.24102198	2.5572015	21	8 31.3	17.2
63777 2001 RD_{1}	14.6	X	133.61057	190.93493	333.23751	8.98159	0.0115827	0.19270466	2.9685286	21	7 27.5	18.7
63778 2001 RY_{1}	14.6	X	263.35826	168.74766	181.47063	8.28440	0.0689756	0.18586654	3.0408984	21	5 19.9	19.0
63779 2001 RX_{3}	15.7	X	125.25862	206.54773	225.59587	1.35544	0.0759087	0.22659762	2.6646028	21	3 22.3	19.3
63780 2001 RW_{4}	16.0	X	8.33714	157.62621	246.66662	4.21496	0.1036145	0.25651462	2.4531718	21	—	—
63781 2001 RL_{5}	16.1	X	243.03023	246.73831	201.68851	5.44847	0.1194317	0.29304105	2.2448315	21	8 25.5	18.9
63782 2001 RU_{6}	16.0	X	141.57749	279.58319	180.10467	2.98709	0.1093401	0.27932210	2.3177461	21	5 18.6	19.1
63783 2001 RK_{8}	15.4	X	39.90932	125.06875	286.36844	3.19049	0.0597415	0.21169918	2.7881957	21	—	—
63784 2001 RK_{9}	14.9	X	222.65734	212.57130	239.85963	23.22913	0.2206763	0.28841535	2.2687700	21	7 20.6	19.0
63785 2001 RM_{11}	15.0	X	354.88920	12.58860	34.46277	2.30035	0.0617814	0.20257205	2.8713295	21	12 9.2	18.7
63786 2001 RO_{11}	15.1	X	211.53770	46.03762	19.05888	7.26985	0.2886006	0.18263185	3.0766992	21	6 11.3	20.7
63787 2001 RW_{16}	15.4	X	59.90408	11.41149	9.62998	9.51339	0.1624936	0.20911190	2.8111470	21	—	—
63788 2001 RL_{17}	15.8	X	193.96521	213.45426	172.54695	3.41187	0.1442188	0.27847168	2.3224624	21	4 8.6	19.2
63789 2001 RD_{18}	16.7	X	81.63584	227.82050	156.00002	23.31640	0.0875668	0.36540509	1.9376990	21	—	—
63790 2001 RE_{18}	16.6	X	139.37165	311.30755	96.74330	0.55850	0.2113536	0.27509719	2.3414162	21	3 19.2	19.8
63791 2001 RG_{18}	15.5	X	173.97727	275.86963	170.26165	7.92655	0.1219503	0.23656594	2.5892137	21	6 7.9	19.6
63792 2001 RY_{18}	15.0	X	84.45348	346.05584	166.05147	13.34181	0.1676383	0.23441653	2.6050170	21	5 30.9	18.6
63793 2001 RF_{19}	15.0	X	35.62988	147.79275	183.93305	1.89763	0.0720056	0.20314727	2.8659067	21	11 2.1	18.6
63794 2001 RH_{20}	16.7	X	357.01450	114.58192	297.76288	1.17859	0.1790127	0.25553515	2.4594365	21	—	—
63795 2001 RL_{21}	15.3	X	14.37023	314.15548	25.40541	2.13933	0.0786066	0.20088511	2.8873818	21	10 13.1	18.7
63796 2001 RJ_{23}	15.4	X	4.02992	0.64247	147.51700	2.87597	0.1112900	0.22175829	2.7032288	21	1 3.5	18.6
63797 2001 RX_{25}	14.6	X	353.21627	297.93233	148.55902	4.48363	0.0714091	0.21095632	2.7947375	21	—	—
63798 2001 RL_{26}	16.2	X	7.16985	288.67508	147.65861	5.15917	0.1915115	0.25931653	2.4354689	21	—	—
63799 2001 RS_{26}	14.8	X	232.00398	331.30897	50.24955	1.74166	0.2467671	0.18489580	3.0515326	21	5 8.7	19.9
63800 2001 RJ_{27}	14.7	X	227.35308	321.31949	61.42935	1.83034	0.0944413	0.18509907	3.0492981	21	5 15.7	19.4
63801 2001 RM_{27}	14.2	X	15.10669	271.12315	144.62199	5.80635	0.0859027	0.20929657	2.8094931	21	—	—
63802 2001 RV_{28}	16.1	X	7.31129	345.94673	71.65158	1.74145	0.1087619	0.25846814	2.4407954	21	—	—
63803 2001 RC_{29}	16.4	X	134.26803	207.23171	249.97142	1.25175	0.1623508	0.28030799	2.3123083	21	5 11.5	19.6
63804 2001 RA_{31}	16.0	X	138.88090	275.21283	148.36279	4.10333	0.2244802	0.22593827	2.6697843	21	4 14.3	20.3
63805 2001 RV_{36}	16.2	X	4.73010	317.19781	268.87753	3.77921	0.1255064	0.28566624	2.2833024	21	4 8.5	18.2
63806 2001 RG_{37}	14.9	X	236.44756	351.42504	292.44972	6.55656	0.1278938	0.17555412	3.1588477	21	1 25.7	20.0
63807 2001 RZ_{38}	14.5	X	91.48089	231.28003	210.21867	4.09714	0.1659086	0.17311407	3.1884612	21	3 11.6	18.9
63808 2001 RF_{44}	15.6	X	259.04450	300.40677	69.90527	7.37475	0.1535712	0.28400745	2.2921844	21	5 23.9	18.8
63809 2001 RU_{44}	15.0	X	107.81896	270.93682	185.06175	6.12414	0.0794594	0.27059631	2.3673082	21	3 26.5	17.9
63810 2001 RL_{45}	14.2	X	183.52092	161.11781	169.26318	1.74787	0.1739972	0.17116616	3.2126058	21	2 2.8	19.6
63811 2001 RU_{45}	15.5	X	179.47015	30.84075	55.43764	4.45432	0.1128172	0.28331563	2.2959144	21	6 11.2	18.8
63812 2001 RW_{45}	15.9	X	155.65454	352.76294	27.99209	3.28964	0.1362360	0.22214961	2.7000534	21	3 1.3	19.9
63813 2001 RX_{45}	15.9	X	113.18018	31.55496	38.08540	5.01192	0.1388521	0.27167041	2.3610643	21	3 9.2	18.7
63814 2001 RY_{45}	15.4	X	112.30784	197.26517	222.04762	4.29829	0.2146420	0.26892424	2.3771108	21	3 1.8	18.4
63815 2001 RX_{46}	16.2	X	236.35321	182.44092	120.37015	24.00212	0.0586121	0.37099461	1.9181872	21	1 17.5	18.1
63816 2001 RC_{48}	14.2	X	95.17418	349.96670	258.22842	0.83823	0.0613345	0.19639399	2.9312347	21	9 29.6	18.4
63817 2001 RP_{60}	16.1	X	112.17418	258.81380	149.26355	8.03418	0.2163899	0.26885730	2.3775053	21	2 16.7	18.8
63818 2001 RV_{63}	16.1	X	0.37905	275.57468	184.52598	4.77886	0.1442703	0.25933556	2.4353497	21	—	—
63819 2001 RJ_{64}	15.0	X	204.93662	105.88290	275.69685	7.20040	0.0846964	0.18028645	3.1033254	21	4 18.7	19.8
63820 2001 RQ_{64}	15.5	X	24.89042	9.95397	239.77928	7.11039	0.0259817	0.23714245	2.5850157	21	6 24.6	18.9
63821 2001 RF_{65}	13.8	X	260.33483	207.65965	220.43798	9.81069	0.0912187	0.19208271	2.9749330	21	8 15.9	18.2
63822 2001 RQ_{68}	14.0	X	273.61396	155.74034	245.82697	7.99501	0.0475688	0.19042831	2.9921386	21	8 5.9	18.2
63823 2001 RL_{70}	16.4	X	115.11435	54.64631	321.86816	5.29615	0.1412919	0.26543473	2.3978990	21	—	—
63824 2001 RZ_{70}	15.5	X	103.21888	257.52420	235.12349	6.22658	0.0667746	0.27887999	2.3201950	21	5 7.7	18.1
63825 2001 RA_{71}	15.8	X	33.58628	65.10970	312.63263	3.67454	0.1910818	0.30420956	2.1895463	21	—	—
63826 2001 RD_{71}	15.7	X	228.63963	182.60747	212.90206	6.69640	0.1811630	0.28316428	2.2967324	21	5 23.4	19.3
63827 2001 RP_{71}	16.1	X	219.83201	7.09463	323.90435	1.79539	0.0796261	0.27449392	2.3448455	21	2 22.5	19.4
63828 2001 RS_{71}	15.8	X	23.02217	191.14548	336.26845	3.18395	0.0752219	0.27280108	2.3545360	21	2 20.3	18.2
63829 2001 RM_{72}	14.8	X	27.68132	350.20202	212.05612	8.00046	0.0865355	0.22906149	2.6454607	21	4 26.9	17.6
63830 2001 RO_{72}	14.2	X	69.04590	338.10560	5.31771	8.01497	0.0708127	0.20486178	2.8498943	21	12 28.5	18.4
63831 2001 RY_{73}	15.8	X	215.23437	167.79161	332.19373	6.01153	0.0916348	0.29545472	2.2325889	21	10 5.1	18.7
63832 2001 RL_{74}	14.2	X	148.92948	260.75653	209.87154	15.57921	0.2030071	0.17915470	3.1163812	21	6 17.9	19.6
63833 2001 RW_{74}	15.2	X	115.96881	131.38195	207.39594	3.84198	0.0800790	0.21061008	2.7977997	21	—	—
63834 2001 RU_{75}	14.9	X	104.13157	252.52753	185.05557	5.59514	0.1043675	0.26921074	2.3754239	21	2 26.6	17.6
63835 2001 RW_{75}	16.1	X	161.99830	230.71061	175.68253	3.91338	0.2303113	0.27346814	2.3507055	21	4 9.5	19.8
63836 2001 RY_{75}	15.4	X	299.86217	0.54472	42.69538	11.34560	0.1557679	0.24152123	2.5536762	21	9 13.6	18.4
63837 2001 RA_{76}	15.6	X	22.92194	236.90366	187.20976	1.98799	0.1657625	0.25536470	2.4605308	21	—	—
63838 2001 RC_{76}	15.5	X	304.22681	54.66329	136.68122	3.05383	0.0673356	0.31238243	2.1511878	21	—	—
63839 2001 RM_{76}	14.8	X	260.69618	10.61373	50.41157	17.05645	0.1483950	0.23775847	2.5805487	21	8 12.4	18.7
63840 2001 RS_{76}	15.4	X	282.04040	332.87555	77.02953	5.25449	0.1465822	0.23932821	2.5692525	21	8 21.9	18.6

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63841 2001 RX_{76}	15.1	X	219.75778	252.80979	145.74206	4.74506	0.1412699	0.22991849	2.6388829	21	5 23.8	19.3
63842 2001 RD_{77}	14.8	X	105.22057	339.96873	77.70337	6.11722	0.1957173	0.26581258	2.3956261	21	2 20.3	17.6
63843 2001 RO_{77}	14.5	X	263.86404	320.17931	100.11553	5.49631	0.1738038	0.23738474	2.5832564	21	8 5.2	17.9
63844 2001 RK_{80}	15.4	X	301.92928	238.95586	157.10314	2.20850	0.1738031	0.24270100	2.5453940	21	8 28.1	18.0
63845 2001 RV_{81}	14.4	X	144.72179	255.51476	213.74149	12.32299	0.1519920	0.22694019	2.6619206	21	6 9.1	18.7
63846 2001 RY_{82}	15.1	X	66.97977	261.83471	297.69567	6.13684	0.1438632	0.23835577	2.5762358	21	7 4.9	18.3
63847 2001 RU_{83}	16.9	X	235.86037	103.34304	316.74250	0.65212	0.0963227	0.28903507	2.2655258	21	7 11.5	19.8
63848 2001 RE_{86}	14.7	X	178.97124	1.34517	24.14951	2.65854	0.1747074	0.17687268	3.1431291	21	4 3.0	19.9
63849 2001 RV_{86}	15.8	X	130.21550	58.61643	345.98508	3.96612	0.1517630	0.27126593	2.3634108	21	2 25.4	18.7
63850 2001 RY_{86}	15.9	X	112.13542	191.56316	242.65815	3.55316	0.1132259	0.27268039	2.3552307	21	3 5.4	18.9
63851 2001 RH_{87}	16.0	X	16.41156	123.71198	322.76673	1.85856	0.1401404	0.26036248	2.4289418	21	—	—
63852 2001 RZ_{87}	14.6	X	299.40932	279.95331	137.40195	2.70769	0.1034135	0.19648268	2.9303525	21	9 28.6	18.2
63853 2001 RT_{88}	16.0	X	115.22235	54.90556	45.88283	5.14678	0.0834819	0.27707083	2.3302840	21	4 13.5	18.9
63854 2001 RU_{88}	15.8	X	81.91864	284.97897	129.92114	2.72245	0.2394707	0.21525902	2.7573706	21	1 27.2	18.6
63855 2001 RB_{90}	16.1	X	117.15557	1.13084	77.54092	3.84608	0.1884441	0.27333909	2.3514453	21	4 2.6	19.2
63856 2001 RD_{91}	14.5	X	283.83868	25.46481	10.14972	9.30852	0.0958561	0.19253352	2.9702874	21	8 11.7	18.6
63857 2001 RZ_{91}	15.3	X	97.20197	232.67475	162.78496	5.58707	0.0675806	0.21689522	2.7434859	21	—	—
63858 2001 RN_{92}	16.6	X	333.31561	10.45416	22.38005	2.32469	0.0876602	0.29918949	2.2139705	21	11 8.3	18.6
63859 2001 RR_{93}	15.7	X	30.07800	285.82097	166.94519	6.48905	0.1417903	0.26291484	2.4131963	21	—	—
63860 2001 RS_{93}	14.8	X	337.50706	228.12456	125.58148	3.13890	0.0698750	0.19409560	2.9543294	21	9 5.0	18.4
63861 2001 RU_{93}	15.9	X	55.49524	290.67928	149.09855	4.53560	0.1718241	0.26437096	2.4043271	21	—	—
63862 2001 RL_{100}	15.0	X	97.18567	7.14685	62.47787	1.23708	0.1985051	0.17216754	3.2001368	21	3 10.8	19.4
63863 2001 RM_{102}	16.7	X	285.24266	8.09301	34.29493	5.42369	0.1508642	0.29389267	2.2404928	21	8 19.6	19.0
63864 2001 RX_{107}	16.2	X	331.93708	335.75139	125.66448	1.11832	0.1817780	0.25838003	2.4413502	21	—	—
63865 2001 RC_{109}	15.1	X	213.21266	91.54507	348.78902	1.21821	0.0404692	0.19083837	2.9878509	21	7 15.8	19.2
63866 2001 RB_{111}	14.6	X	206.30223	276.82938	128.93107	4.84392	0.1212209	0.18464545	3.0542903	21	5 22.4	19.5
63867 2001 RN_{115}	14.6	X	69.02180	56.13470	98.10656	2.37126	0.0300635	0.18152957	3.0891415	21	4 24.2	18.9
63868 2001 RC_{119}	16.6	X	223.08756	319.14620	133.64811	4.78737	0.1195659	0.29157552	2.2523472	21	8 8.7	19.6
63869 2001 RN_{121}	16.2	X	233.17786	270.58672	149.47913	4.98917	0.1252918	0.28855227	2.2680522	21	7 4.5	19.4
63870 2001 RN_{123}	16.0	X	54.21321	237.32224	151.86109	2.84843	0.1803600	0.25967365	2.4332354	21	—	—
63871 2001 RB_{133}	15.4	X	166.98528	287.00225	73.37057	4.43099	0.1160621	0.22264789	2.6960234	21	2 14.7	19.5
63872 2001 RT_{134}	15.6	X	186.65074	31.35759	57.80553	5.37032	0.1852005	0.23450117	2.6043901	21	6 23.4	20.0
63873 2001 RF_{135}	15.1	X	351.34211	41.44024	30.20151	9.83242	0.1375091	0.20599868	2.8393990	21	—	—
63874 2001 RT_{135}	15.4	X	209.87817	282.59091	137.64175	4.98012	0.2217200	0.23382807	2.6093857	21	6 6.9	19.8
63875 2001 RY_{135}	14.3	X	105.01232	352.70481	94.65537	3.84010	0.1548314	0.17351613	3.1835339	21	4 5.7	18.9
63876 2001 RK_{140}	14.6	X	61.72040	58.85592	65.11988	6.94835	0.1315811	0.17303662	3.1894126	21	3 23.1	18.7
63877 2001 RA_{141}	15.7	X	107.42838	16.70798	104.79010	4.80133	0.0876396	0.27889927	2.3200880	21	5 3.4	18.5
63878 2001 RH_{141}	15.1	X	106.96547	349.14637	24.61896	12.30532	0.1922373	0.26472845	2.4021621	21	—	—
63879 2001 RM_{142}	15.2	X	251.55019	277.40103	84.50929	15.91587	0.2429930	0.23495939	2.6010029	21	5 4.6	19.7
63880 2001 RX_{142}	14.2	X	82.47024	247.32358	159.25392	8.17658	0.2307622	0.21152709	2.7897078	21	1 15.7	17.5
63881 2001 RD_{145}	15.2	X	215.41389	56.89764	295.19838	11.73390	0.1433183	0.23118831	2.6292112	21	3 14.9	19.7
63882 2001 RX_{152}	14.2	X	61.67004	43.86004	74.01237	15.24747	0.1094357	0.22364620	2.6879944	21	3 8.2	17.7
63883 2001 SO	13.8	X	338.46688	341.56072	57.22082	2.79249	0.0796449	0.19963051	2.8994666	21	11 5.1	17.2
63884 2001 SF_{1}	14.9	X	94.98904	99.05195	248.33574	1.51327	0.0355311	0.20984730	2.8045754	21	—	—
63885 2001 SU_{2}	15.5	X	32.94191	74.25005	58.10304	3.04282	0.1043342	0.26829443	2.3808294	21	1 18.0	17.7
63886 2001 SY_{2}	15.7	X	167.37278	48.44624	32.86458	7.06019	0.0963157	0.28024348	2.3126631	21	5 20.4	18.9
63887 2001 SH_{3}	13.2	X	107.21538	144.15530	15.33285	12.06661	0.1397229	0.18284682	3.0742873	21	7 3.9	18.0
63888 2001 SJ_{3}	14.2	X	95.17787	113.97799	21.87264	5.18335	0.1031219	0.17816142	3.1279534	21	5 13.5	18.7
63889 2001 SK_{3}	14.8	X	99.86766	182.93470	111.06114	3.12427	0.0657826	0.20254326	2.8716016	21	12 2.4	18.9
63890 2001 SU_{3}	16.1	X	284.15835	254.97630	127.22311	3.71865	0.0992744	0.24342588	2.5403383	21	7 22.2	19.3
63891 2001 SN_{4}	14.2	X	52.95271	144.46831	332.22244	18.43424	0.1206481	0.17252877	3.1956683	21	2 23.1	18.2
63892 2001 SX_{4}	13.3	X	279.97514	282.28931	63.26499	14.94123	0.2316085	0.18569395	3.0427823	21	5 12.0	17.8
63893 2001 SY_{4}	14.2	X	351.89059	199.49416	168.20923	16.56547	0.3499214	0.19740310	2.9212367	21	11 9.8	16.5
63894 2001 SN_{5}	16.2	X	43.84540	179.55950	248.13793	1.06212	0.1659798	0.26179794	2.4200550	21	—	—
63895 2001 SZ_{5}	14.4	X	3.23081	126.81554	98.92105	5.37669	0.0909588	0.18258551	3.0772198	21	4 26.5	18.2
63896 2001 SE_{9}	15.6	X	242.21974	303.43447	60.56083	5.38784	0.1869685	0.28269721	2.2992615	21	4 25.3	19.2
63897 Ofunato	15.6	X	236.53290	348.68577	37.83668	5.98161	0.1791256	0.28380963	2.2932495	21	5 17.9	19.0
63898 2001 SL_{10}	15.0	X	31.58367	283.53598	84.52649	3.30535	0.0319620	0.20528080	2.8460148	21	12 7.1	18.8
63899 2001 SG_{12}	15.8	X	284.24685	202.53815	275.25811	6.74038	0.1218423	0.25560804	2.4589689	21	12 3.2	18.3
63900 2001 SB_{14}	15.6	X	239.20187	27.97798	8.23554	4.72817	0.2272368	0.28567033	2.2832806	21	5 29.4	19.2
63901 2001 SJ_{14}	14.3	X	2.66756	2.32868	174.66810	9.40708	0.0420245	0.17449407	3.1716282	21	2 22.5	18.7
63902 2001 SZ_{14}	15.7	X	340.66279	162.49081	1.46127	4.88443	0.0811160	0.26886513	2.3774592	21	—	—
63903 2001 SM_{17}	14.6	X	19.83686	142.74507	45.00018	1.74227	0.1268293	0.17792456	3.1307289	21	4 2.0	18.3
63904 2001 SR_{17}	16.7	X	122.39491	208.33005	69.64938	1.49132	0.1403148	0.30656457	2.1783187	21	12 26.8	19.8
63905 2001 SF_{18}	15.9	X	177.32837	102.25879	24.41576	4.26667	0.0865310	0.28948546	2.2631754	21	8 6.0	19.0
63906 2001 SN_{19}	14.8	X	90.05838	56.72350	177.81070	1.22330	0.0632138	0.19460133	2.9492087	21	9 6.4	18.9
63907 2001 SJ_{20}	15.5	X	229.85007	80.11382	29.88581	5.45176	0.0870925	0.29314219	2.2443151	21	9 16.9	18.2
63908 2001 SM_{20}	14.7	X	15.38568	198.25338	144.59704	2.55441	0.0873874	0.19802694	2.9150983	21	10 20.4	18.4
63909 2001 SU_{22}	15.7	X	131.17547	53.88047	336.97891	4.78110	0.0813617	0.22048898	2.7135935	21	2 8.1	19.3
63910 2001 SQ_{30}	15.2	X	17.84486	21.55967	97.09364	1.83651	0.1186094	0.21493606	2.7601321	21	—	—
63911 2001 SV_{30}	14.7	X	86.66519	330.32076	174.46457	6.97821	0.0771522	0.17906277	3.1174478	21	5 12.9	19.1
63912 2001 SB_{31}	16.1	X	136.09502	30.28954	35.46873	5.14097	0.1079313	0.27462942	2.3440741	21	3 27.7	19.1
63913 2001 SG_{32}	15.0	X	164.99593	355.79191	91.31110	2.57092	0.1173242	0.18110257	3.0939953	21	5 31.9	19.8
63914 2001 SP_{33}	15.7	X	349.28563	318.92169	181.68387	2.24910	0.1272303	0.26381135	2.4077260	21	—	—
63915 2001 SG_{34}	16.0	X	21.60919	351.09020	177.97308	5.85934	0.0395482	0.27369667	2.3493968	21	2 20.5	18.7
63916 2001 SE_{35}	15.5	X	205.87963	311.99314	133.04243	3.11856	0.1841920	0.23526100	2.5987794	21	7 5.4	19.6
63917 2001 SJ_{37}	15.0	X	46.58577	298.35062	62.97889	3.00742	0.0680577	0.20424139	2.8556625	21	12 22.4	18.7
63918 2001 SU_{37}	14.6	X	93.28807	353.60449	106.89969	5.01206	0.1011914	0.17266027	3.1940456	21	3 31.8	19.0
63919 2001 SR_{39}	15.3	X	121.29036	358.50000	42.76984	6.43013	0.1329091	0.26890749	2.3772095	21	2 9.8	18.3
63920 2001 SC_{40}	16.3	X	220.86424	21.31285	55.84508	6.05750	0.1740382	0.28619222	2.2805040	21	7 11.1	19.8

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
	m		°	°	°	°		°				
63921 2001 SK_{40}	15.7	X	60.23493	101.35339	62.20109	5.76143	0.0780252	0.27725799	2.3292351	21	4 20.4	18.1
63922 2001 SQ_{40}	15.1	X	81.66966	292.83928	161.90922	7.44027	0.0988454	0.21987825	2.7186160	21	2 26.4	18.3
63923 2001 SV_{41}	12.1	X	95.44307	3.31928	159.27023	9.67379	0.0808351	0.08432600	5.1502508	21	6 17.5	19.1
63924 2001 SO_{42}	16.6	X	81.81033	217.47935	126.15158	2.33366	0.1974308	0.25868038	2.4394601	21	—	—
63925 2001 SW_{44}	15.0	X	77.81119	54.46052	30.14862	8.20905	0.1653696	0.21827709	2.7318947	21	2 21.2	18.3
63926 2001 SQ_{45}	14.6	X	106.73219	4.91698	36.77775	9.00469	0.1584006	0.21753360	2.7381159	21	2 5.9	18.4
63927 2001 SU_{45}	16.1	X	213.81458	46.29829	23.18504	0.82947	0.0653331	0.23600912	2.5932847	21	6 30.3	19.7
63928 2001 SY_{46}	15.4	X	157.41933	270.87300	123.15877	3.26429	0.0931265	0.22396754	2.6854228	21	3 15.5	19.4
63929 2001 ST_{47}	16.7	X	153.64455	313.01111	135.12610	1.85235	0.1375799	0.27909448	2.3190061	21	5 18.9	19.9
63930 2001 SZ_{47}	16.0	X	32.01426	321.36816	182.18887	6.45962	0.0767780	0.27071522	2.3666150	21	1 30.5	18.6
63931 2001 SH_{48}	16.3	X	64.29370	305.19995	147.61863	4.91639	0.1848652	0.26685402	2.3893891	21	1 22.7	18.2
63932 2001 SZ_{48}	14.6	X	349.90816	121.82030	174.92562	9.32357	0.0344189	0.18735620	3.0247582	21	7 7.9	18.8
63933 2001 SA_{52}	14.6	X	201.30757	165.29714	126.68147	6.21231	0.0106768	0.21543834	2.7558404	21	—	—
63934 2001 SQ_{53}	15.6	X	55.48297	108.24989	64.29326	4.62589	0.0760077	0.27771561	2.3266757	21	4 25.0	18.1
63935 2001 SV_{53}	15.0	X	241.98341	221.17549	76.90636	4.51776	0.0790938	0.22281165	2.6947022	21	2 14.8	19.1
63936 2001 SA_{54}	13.8	X	280.75751	349.20099	43.47321	10.69414	0.0739889	0.18961731	3.0006642	21	8 7.3	18.1
63937 2001 SB_{54}	15.4	X	228.99221	53.88388	32.60607	13.45974	0.1421198	0.23823928	2.5770755	21	8 8.4	19.5
63938 2001 SE_{54}	16.3	X	326.57135	268.74276	136.89105	4.76285	0.1459053	0.29746076	2.2225401	21	11 19.2	18.0
63939 2001 SD_{55}	16.2	X	278.43914	282.73888	147.83865	5.81851	0.1116939	0.29344802	2.2427555	21	9 26.4	18.4
63940 2001 SR_{55}	14.4	X	228.73358	195.46660	150.34478	7.30872	0.2162263	0.17853016	3.1236448	21	3 29.1	19.7
63941 2001 SP_{56}	15.9	X	359.60626	248.37507	161.95199	5.63384	0.1097103	0.30269411	2.1968483	21	—	—
63942 2001 SQ_{56}	14.4	X	71.46066	162.78454	140.20808	4.44733	0.1350604	0.20074792	2.8886971	21	11 20.4	18.6
63943 2001 SR_{56}	14.8	X	55.91613	174.65899	115.77734	3.63176	0.0662817	0.19543117	2.9408542	21	10 6.9	18.7
63944 2001 SQ_{57}	15.4	X	118.79068	153.50492	155.72245	2.84601	0.1819424	0.25876235	2.4389449	21	—	—
63945 2001 ST_{57}	14.8	X	214.43028	253.53084	23.25562	4.29924	0.0708164	0.21501166	2.7594850	21	—	—
63946 2001 SC_{58}	16.6	X	147.19132	75.49962	25.66568	2.55200	0.1703947	0.27915399	2.3186765	21	5 31.2	20.0
63947 2001 ST_{58}	15.7	X	152.84319	275.49164	191.50617	6.91572	0.0578208	0.28142649	2.3061775	21	6 6.8	18.8
63948 2001 SL_{59}	15.8	X	79.23874	32.23276	170.44303	3.36877	0.0956519	0.28488669	2.2874658	21	7 19.2	18.4
63949 2001 SX_{60}	16.3	X	234.24667	73.78347	24.39967	4.48541	0.0449679	0.29214628	2.2494127	21	9 11.7	19.0
63950 2001 SG_{61}	15.6	X	97.19050	30.57451	34.50879	1.82467	0.1697041	0.26770595	2.3843172	21	2 11.7	18.1
63951 2001 SP_{62}	15.0	X	165.93888	49.65808	7.71017	0.45267	0.1828839	0.17635909	3.1492283	21	4 29.4	20.1
63952 2001 SU_{64}	14.7	X	152.31164	283.64838	200.25735	13.09484	0.0903169	0.23252880	2.6190968	21	6 30.4	18.8
63953 2001 SY_{64}	14.5	X	73.81190	164.52648	151.09865	2.56856	0.0691274	0.20082188	2.8879879	21	11 29.3	18.6
63954 2001 SB_{65}	14.7	X	28.99783	271.85422	50.39365	2.71270	0.0723991	0.19533300	2.9418394	21	10 10.9	18.5
63955 2001 SP_{65}	12.0	X	2.99282	220.05624	45.21471	20.24882	0.1287692	0.08387574	5.1686662	21	6 15.9	18.4
63956 2001 SJ_{67}	16.1	X	192.70478	249.81461	182.74544	6.64948	0.0808309	0.28128280	2.3069628	21	6 8.4	19.3
63957 2001 SS_{67}	15.8	X	352.38754	227.40572	150.17647	3.73770	0.1933896	0.29726223	2.2235295	21	12 4.6	17.4
63958 2001 SV_{67}	15.7	X	255.49176	259.20837	142.54252	5.83719	0.1633812	0.28620311	2.2804462	21	7 1.0	18.8
63959 2001 SW_{67}	15.0	X	94.42808	299.94111	173.89781	9.90862	0.1824581	0.22106984	2.7088381	21	4 25.8	18.7
63960 2001 SG_{68}	14.6	X	118.51963	77.51881	201.43060	12.20195	0.1070026	0.20135781	2.8828612	21	12 6.9	19.2
63961 2001 SK_{68}	15.1	X	265.68800	4.95764	40.28274	15.46910	0.0956058	0.23745958	2.5827136	21	8 3.9	18.9
63962 2001 SS_{68}	16.5	X	69.77227	226.32300	153.02511	5.09521	0.1319416	0.30772274	2.1728496	21	—	—
63963 2001 SZ_{68}	15.7	X	216.89114	351.21000	57.64839	6.51781	0.2621733	0.28122927	2.3072556	21	5 25.6	19.7
63964 2001 SM_{69}	15.8	X	182.36113	293.97042	164.37624	4.71115	0.2395643	0.23024177	2.6364121	21	6 30.9	20.4
63965 2001 SV_{70}	15.7	X	54.92435	217.12770	186.06270	9.64431	0.1278215	0.25706482	2.4496702	21	—	—
63966 2001 SY_{70}	14.3	X	206.97759	340.84149	82.11347	8.73572	0.1879182	0.28049524	2.3112791	21	6 7.4	17.8
63967 2001 SF_{71}	15.5	X	34.28082	12.48248	148.69421	6.54633	0.0608288	0.26924456	2.3752250	21	3 3.6	18.0
63968 2001 SG_{71}	15.3	X	111.92363	26.82230	119.22976	7.19528	0.0733641	0.27770052	2.3267600	21	6 10.7	18.3
63969 2001 SL_{71}	14.5	X	290.46399	106.53048	200.47337	13.42478	0.0871918	0.22713725	2.6603808	21	4 21.3	18.0
63970 2001 SG_{72}	15.0	X	110.46281	298.10132	182.08491	6.88198	0.0654647	0.27440727	2.3453391	21	5 2.3	17.9
63971 2001 SV_{72}	15.5	X	94.07576	209.23909	178.63114	6.12149	0.0408046	0.21239231	2.7821264	21	—	—
63972 2001 SB_{73}	15.7	X	120.08305	8.31706	110.43426	6.00870	0.1035593	0.27485229	2.3428068	21	5 19.1	18.7
63973 2001 SS_{75}	14.5	X	30.52312	167.82856	234.84880	8.90119	0.1472391	0.15745346	3.3965231	21	—	—
63974 2001 SB_{77}	15.8	X	20.60265	171.09712	309.68975	4.94186	0.1497401	0.26597814	2.3946318	21	—	—
63975 2001 SH_{77}	16.3	X	127.36914	85.64261	345.32663	6.75410	0.0752206	0.27473259	2.3434872	21	3 16.4	19.3
63976 2001 SM_{78}	16.3	X	276.00382	90.05593	354.21792	0.78106	0.1171736	0.24729321	2.5137838	21	10 3.2	19.0
63977 2001 SQ_{79}	14.1	X	0.48354	218.23898	275.80882	3.19799	0.1258133	0.17146592	3.2088605	21	—	—
63978 2001 SE_{83}	16.6	X	215.00644	258.38504	198.42386	6.06619	0.1372663	0.29173013	2.2515514	21	8 1.2	19.9
63979 2001 SC_{86}	14.8	X	143.77127	129.62525	201.62472	4.76356	0.0804642	0.16860116	3.2451069	21	—	—
63980 2001 SW_{92}	16.2	X	309.21751	270.19712	196.90047	1.74351	0.1303876	0.25584727	2.4574359	21	—	—
63981 2001 SA_{95}	16.2	X	51.97801	217.18076	244.58798	1.66082	0.1804356	0.26800366	2.3825512	21	1 8.4	17.8
63982 2001 SR_{104}	16.6	X	165.19628	245.86172	198.20092	2.98714	0.2094024	0.28030371	2.3123318	21	5 28.8	20.2
63983 2001 SM_{105}	14.6	X	34.47185	175.52510	354.34488	12.47174	0.1028052	0.22373090	2.6873160	21	3 23.4	17.7
63984 2001 SP_{105}	15.4	X	97.64361	208.75068	344.09725	6.44949	0.1071433	0.28604394	2.2812920	21	8 4.0	18.2
63985 2001 SQ_{105}	15.1	X	3.26047	204.63273	222.87959	6.17751	0.1894497	0.25434632	2.4670942	21	—	—
63986 2001 SE_{106}	15.8	X	268.25523	49.41092	340.96830	6.76024	0.1422811	0.28735072	2.2743704	21	7 5.7	18.6
63987 2001 SP_{106}	14.6	X	172.04137	200.56507	217.56632	21.41987	0.0274319	0.22761159	2.6566834	21	4 25.5	18.4
63988 2001 SF_{107}	15.8	X	231.84743	25.36374	307.46407	6.35777	0.1480626	0.27455242	2.3445124	21	3 5.6	19.5
63989 2001 SJ_{107}	14.3	X	140.48256	206.16488	239.91986	12.83311	0.1272278	0.22404184	2.6848290	21	5 2.8	18.4
63990 2001 SA_{108}	14.2	X	359.50756	85.93907	263.96377	9.55130	0.1267067	0.19300768	2.9654207	21	9 30.7	17.9
63991 2001 SB_{108}	13.8	X	290.31534	179.01052	241.30179	12.45276	0.2365515	0.24082515	2.5585946	21	8 25.5	17.0
63992 2001 SY_{108}	14.3	X	60.25881	140.52637	288.78646	8.00542	0.1782136	0.20953216	2.8073868	21	—	—
63993 2001 SO_{109}	14.7	X	99.64429	95.37736	320.69560	5.54341	0.1566960	0.26366470	2.4086187	21	2 1.3	17.3
63994 2001 SQ_{109}	14.8	X	138.82983	25.81034	357.32896	8.92786	0.2845836	0.21652993	2.7465706	21	3 2.8	19.3
63995 2001 SF_{110}	15.3	X	133.89022	98.67747	273.93874	7.05224	0.1785284	0.26577097	2.3958761	21	1 22.1	18.5
63996 2001 SU_{110}	15.5	X	227.53044	351.30263	3.14467	6.81312	0.1316117	0.27568069	2.3381111	21	3 31.2	18.9
63997 2001 SX_{110}	15.5	X	204.78568	30.24763	354.34532	7.04933	0.1100290	0.27565523	2.3382551	21	4 14.9	19.1
63998 2001 SL_{111}	14.2	X	28.63668	136.37321	273.61085	8.52622	0.2209130	0.20311021	2.8662553	21	—	—
63999 2001 SD_{113}	14.7	X	129.57699	39.12514	47.68577	13.29038	0.1457809	0.17198491	3.2024018	21	4 29.8	19.5
64000 2001 SD_{115}	14.7	X	40.02592	184.03013	39.59423	4.85003	0.2226579	0.23481445	2.6020732	21	7 7.3	17.2