

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
360001	2012	<i>X</i> ₃₉	16.3	X	23.17412	60.72267	173.25018	2.08639	0.0690464	0.19766612	2.9186447	20	6 14.9	19.9
360002	2012	<i>X</i> _{J115}	15.8	X	332.29588	260.89021	75.06800	14.97899	0.1211280	0.22895282	2.6462978	20	8 22.6	19.0
360003	2012	<i>X</i> _{P133}	16.4	X	347.68670	67.15766	297.16567	2.16648	0.1667970	0.23855634	2.5747915	20	10 30.5	18.8
360004	2012	<i>X</i> _{O146}	16.7	X	253.17214	333.57817	137.73408	3.14833	0.0181226	0.24054884	2.5605536	20	11 3.4	20.0
360005	2012	<i>X</i> _{A151}	16.9	X	191.54380	204.39471	314.01938	5.62214	0.1229490	0.21796262	2.7345216	20	9 29.6	21.1
360006	2012	<i>X</i> _{H151}	15.8	X	29.23759	307.09518	318.31824	5.09143	0.0366031	0.20087348	2.8874933	20	8 2.7	19.5
360007	2012	<i>X</i> _{U151}	16.0	X	276.27302	277.67193	96.79217	13.32506	0.1113970	0.20402654	2.8576669	20	7 7.7	19.9
360008	2012	<i>Y</i> _R	16.5	X	231.85940	214.23820	213.73432	8.50685	0.1205863	0.21815054	2.7329511	20	7 20.1	20.6
360009	2012	<i>Y</i> _{P5}	17.0	X	138.23640	234.69270	321.93190	15.45537	0.0894030	0.34733764	2.0043250	20	10 5.2	19.9
360010	2012	<i>Y</i> _{B6}	17.4	X	214.09269	195.57827	310.66785	3.82268	0.0595389	0.22182006	2.7027270	20	10 16.9	21.3
360011	2013	<i>A</i> _{K7}	17.5	X	335.19320	358.16811	109.47283	4.06979	0.1931474	0.25486795	2.4637269	20	—	—
360012	2013	<i>A</i> _{L7}	15.7	X	82.58692	240.21839	304.86704	9.63514	0.2191258	0.17950352	3.1123427	20	7 24.4	20.3
360013	2013	<i>A</i> _{N7}	16.7	X	214.81306	347.96315	129.12066	3.89535	0.1360640	0.21067536	2.7972217	20	9 3.6	20.9
360014	2013	<i>A</i> _{Q7}	17.4	X	82.59522	74.55314	306.17761	4.51581	0.1175271	0.26333546	2.4106259	20	—	—
360015	2013	<i>A</i> _{X7}	17.7	X	138.70810	313.54263	120.91630	4.96111	0.0745877	0.30235059	2.1985120	20	4 18.6	20.5
360016	2013	<i>A</i> _{G8}	16.1	X	132.77678	285.19758	304.89979	6.71784	0.1537766	0.21495674	2.7599550	20	10 30.3	20.7
360017	2013	<i>A</i> _{H10}	15.6	X	176.42707	293.01449	126.89293	10.29884	0.0425035	0.17672130	3.1449237	20	5 17.8	20.4
360018	2013	<i>A</i> _{F13}	16.8	X	322.18220	277.89774	123.56480	4.24367	0.1122343	0.23074082	2.6326094	20	11 2.8	19.6
360019	2013	<i>A</i> _{E14}	16.2	X	272.24766	46.85657	325.28625	5.67043	0.3390076	0.20529083	2.8459222	20	5 27.2	20.7
360020	2013	<i>A</i> _{V15}	17.7	X	0.81895	344.86084	173.86597	5.15801	0.1549200	0.27595696	2.3365504	20	1 7.2	20.0
360021	2013	<i>A</i> _{Y16}	16.6	X	33.23904	347.63948	322.24149	13.11875	0.1969602	0.21481925	2.7611325	20	10 25.1	20.4
360022	2013	<i>A</i> _{E19}	18.0	X	93.00892	161.15924	301.68866	1.84507	0.0901777	0.29552288	2.2322456	20	3 26.4	20.4
360023	2013	<i>A</i> _{Q20}	15.9	X	262.51813	335.69859	349.19090	14.82307	0.3242205	0.22133107	2.7067063	20	3 21.9	20.7
360024	2013	<i>A</i> _{S20}	17.3	X	20.11105	118.07306	333.64413	9.52172	0.2262644	0.27037705	2.3685879	20	—	—
360025	2013	<i>A</i> _{A21}	15.6	X	339.11699	334.22255	307.41995	9.35068	0.0862928	0.17959420	3.1112950	20	6 9.2	19.7
360026	2013	<i>A</i> _{N22}	18.2	X	38.26955	180.65274	328.76416	2.05885	0.1334218	0.28736654	2.2742869	20	3 8.1	20.0
360027	2013	<i>A</i> _{F27}	16.6	X	260.36774	227.29147	127.77757	5.38835	0.1480027	0.19312184	2.9642520	20	5 19.5	21.1
360028	2013	<i>A</i> _{E28}	18.0	X	106.89129	194.88791	271.31964	1.71096	0.0865498	0.29975035	2.2112079	20	4 19.9	20.7
360029	2013	<i>A</i> _{F29}	17.9	X	38.26005	348.11968	146.48032	4.85272	0.1373155	0.28419501	2.2911758	20	2 14.8	19.6
360030	2013	<i>A</i> _{T29}	18.0	X	79.15011	60.80018	87.56528	4.98937	0.0671355	0.30042792	2.2078820	20	5 10.3	20.5
360031	2013	<i>A</i> _{A30}	13.4	X	244.52262	23.48436	97.17815	8.58694	0.0477503	0.08154637	5.2666320	20	10 7.3	20.5
360032	2013	<i>A</i> _{X32}	17.5	X	28.20314	231.90521	292.74489	4.63567	0.0780300	0.29034630	2.2586998	20	3 7.7	19.8
360033	2013	<i>A</i> _{Z32}	17.4	X	343.34164	194.48281	304.91599	4.04787	0.1327506	0.26467683	2.4024744	20	—	—
360034	2013	<i>A</i> _{B33}	17.7	X	25.89299	71.91008	47.50040	5.95816	0.1721022	0.27709086	2.3301716	20	—	—
360035	2013	<i>A</i> _{F39}	17.2	X	80.23843	92.51505	291.98989	2.99869	0.1248215	0.26603934	2.3942646	20	—	—
360036	2013	<i>A</i> _{T40}	16.6	X	1.65168	242.80060	131.25892	16.07355	0.1750330	0.23384534	2.6092573	20	12 12.3	19.8
360037	2013	<i>A</i> _{O41}	16.2	X	224.21333	247.13555	117.66816	10.21019	0.0893580	0.17689186	3.1429018	20	5 1.6	21.1
360038	2013	<i>A</i> _{Y41}	15.7	X	281.19661	32.75325	337.11160	11.49309	0.0744722	0.19624863	2.9326819	20	7 16.3	19.8
360039	2013	<i>A</i> _{U44}	17.5	X	338.89962	118.56641	62.75774	2.19819	0.1217571	0.27394445	2.3479799	20	1 9.5	20.1
360040	2013	<i>A</i> _{Z44}	15.5	X	326.71365	208.84651	97.09853	4.71924	0.0929912	0.18250607	3.0781126	20	6 22.2	19.2
360041	2013	<i>A</i> _{O53}	13.6	X	211.43495	23.26558	126.92532	12.33475	0.0689017	0.08402425	5.1625738	20	10 4.4	20.8
360042	2013	<i>A</i> _{S53}	15.5	X	166.80403	249.48838	306.99913	25.34983	0.0493775	0.22442607	2.6817637	20	10 13.8	20.1
360043	2013	<i>A</i> _{W54}	16.3	X	49.99267	158.26745	130.06008	0.77233	0.0402118	0.21262833	2.7800673	20	10 2.7	20.0
360044	2013	<i>A</i> _{S58}	18.7	X	101.84945	227.24780	200.06653	1.72195	0.1847274	0.28989420	2.2610476	20	3 5.3	21.2
360045	2013	<i>A</i> _{C59}	17.4	X	340.62524	265.35129	252.28829	1.29424	0.1146142	0.26869874	2.3784405	20	—	—
360046	2013	<i>A</i> _{G59}	16.3	X	141.38434	304.71242	284.03272	8.60149	0.1393428	0.21701464	2.7424793	20	11 5.8	20.9
360047	2013	<i>A</i> _{M59}	13.2	X	265.90111	338.71754	114.19598	14.78365	0.1058120	0.08398451	5.1642024	20	9 24.3	20.2
360048	2013	<i>A</i> _{N59}	15.9	X	37.67717	272.87232	335.96671	11.14564	0.0632220	0.18702198	3.0283608	20	7 27.9	20.0
360049	2013	<i>A</i> _{J68}	15.5	X	264.20489	207.39724	147.91273	27.61306	0.0787373	0.17678428	3.1441767	20	6 7.1	20.6
360050	2013	<i>A</i> _{M73}	16.9	X	208.96955	157.23526	5.44814	10.53687	0.2776155	0.22110785	2.7085276	20	10 10.6	21.4
360051	2013	<i>A</i> _{Q74}	16.9	X	243.62034	153.25865	318.10746	10.22446	0.1637386	0.22089531	2.7102648	20	9 20.9	20.8
360052	2013	<i>A</i> _{E77}	16.8	X	80.41180	131.19044	317.53522	23.54624	0.1433004	0.28699354	2.2762570	20	2 20.1	19.3
360053	2013	<i>A</i> _{T79}	17.7	X	319.05380	37.65438	118.32153	2.34698	0.0847663	0.26325478	2.4111184	20	—	—
360054	2013	<i>A</i> _{X79}	16.2	X	29.54387	131.14008	119.72112	9.63226	0.0919610	0.18908515	3.0062916	20	7 19.5	20.1
360055	2013	<i>A</i> _{R88}	17.4	X	302.83331	187.20713	327.73298	5.28676	0.0820892	0.25592148	2.4569608	20	—	—
360056	2013	<i>A</i> _{U91}	16.2	X	301.40673	255.23068	134.80007	6.85185	0.0608148	0.21446204	2.7641977	20	9 13.9	19.7
360057	2013	<i>A</i> _{K92}	13.2	X	333.14292	233.83105	140.18097	12.30924	0.0353606	0.08230009	5.2344275	20	9 20.3	20.0
360058	2013	<i>A</i> _{L92}	13.8	X	233.31985	53.13378	70.54617	6.94227	0.0874439	0.08294342	5.2073258	20	9 24.0	20.9
360059	2013	<i>A</i> _{P95}	15.3	X	356.51130	137.06610	102.83760	17.04953	0.0714294	0.17195985	3.2027129	20	5 18.5	19.7
360060	2013	<i>A</i> _{A97}	16.4	X	64.82219	261.01003	305.78514	5.94242	0.1191126	0.18427689	3.0583614	20	7 16.3	20.5
360061	2013	<i>A</i> _{L97}	17.8	X	123.52138	283.95910	129.30238	3.62645	0.1227853	0.29422692	2.2387956	20	3 6.3	20.5
360062	2013	<i>A</i> _{J101}	17.5	X	335.38799	254.06416	239.01657	1.92702	0.1804663	0.26028058	2.4294513	20	—	—
360063	2013	<i>A</i> _{L102}	17.8	X	44.87177	190.62003	341.42613	5.20798	0.0840473	0.29819463	2.2188920	20	4 17.9	20.0
360064	2013	<i>A</i> _{P104}	13.6	X	211.36625	208.86476	309.23053	10.39623	0.1244788	0.08213599	5.2413969	20	9 29.7	21.1
360065	2013	<i>A</i> _{A105}	16.8	X	282.05217	310.63437	136.35235	5.97046	0.1149579	0.22270455	2.6955661	20	10 27.3	20.1
360066	2013	<i>A</i> _{Z111}	16.0	X	166.51574	273.36338	328.90755	11.73563	0.1028075	0.22763241	2.6565214	20	12 21.9	20.2
360067	2013	<i>A</i> _{U115}	16.7	X	241.39738	124.69614	358.45989	13.07609	0.2076373	0.22341453	2.6898523	20	9 30.6	20.5
360068	2013	<i>A</i> _{M117}	15.2	X	297.57109	189.18057	98.40117	12.42429	0.0526724	0.17029729	3.2235238	20	4 28.4	19.8
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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360081 2013 BJ ₁₆	17.5	X	13.10327	253.17570	137.58197	25.54042	0.1346416	0.37833546	1.8932938	20	—	—
360082 2013 BJ ₁₉	16.6	X	344.12404	261.29551	148.93665	14.42114	0.1824658	0.24211601	2.5494924	20	—	—
360083 2013 BZ ₂₃	16.3	X	138.53258	67.60562	127.55369	8.57639	0.0970942	0.20985753	2.8044843	20	9 27.2	20.7
360084 2013 BZ ₂₅	15.5	X	49.44121	239.36744	328.27214	12.29558	0.0895293	0.17383834	3.1795989	20	6 21.4	19.9
360085 2013 BJ ₃₃	16.4	X	41.51773	158.24715	148.23560	6.92311	0.0485772	0.21708181	2.7419135	20	10 19.3	20.1
360086 2013 BF ₃₄	15.8	X	185.09752	275.08585	127.74701	10.85297	0.1128713	0.17935792	3.1140268	20	5 7.2	20.9
360087 2013 BY ₄₀	16.5	X	309.08017	275.76565	131.19236	6.66397	0.0429344	0.21898331	2.7260179	20	10 21.3	20.0
360088 2013 BB ₄₇	14.0	X	191.18636	175.92157	339.00263	9.34853	0.0424699	0.08307398	5.2018686	20	9 14.9	21.1
360089 2013 BV ₅₄	16.0	X	326.03896	282.60725	139.72480	22.37273	0.0210050	0.22666155	2.6641018	20	12 7.9	20.0
360090 2013 BZ ₅₄	16.1	X	297.42072	219.62492	141.26382	6.43492	0.0840481	0.19366819	2.9586745	20	7 22.7	19.9
360091 2013 BE ₅₅	17.4	X	29.18798	128.25230	331.96416	0.93504	0.1346512	0.26818006	2.3815063	20	—	—
360092 2013 BO ₆₁	16.7	X	104.28699	133.51808	9.52283	3.88029	0.0900320	0.17419278	3.1752843	20	6 8.7	21.4
360093 2013 BF ₆₂	13.9	X	258.87394	126.45798	335.05985	8.01325	0.0879566	0.08271391	5.2169540	20	9 26.7	20.9
360094 2013 BO ₆₂	16.7	X	277.59376	322.69705	127.01836	5.63454	0.0856882	0.22129411	2.7070076	20	10 27.7	20.2
360095 2013 BP ₆₂	17.6	X	323.36438	36.61844	55.77553	1.58932	0.0921619	0.23964810	2.5669656	20	—	—
360096 2013 BF ₆₃	16.1	X	47.76576	108.97159	127.20352	3.40986	0.1029115	0.18368554	3.0649219	20	7 28.2	20.2
360097 2013 BE ₆₃	17.1	X	279.19107	121.66653	126.24523	5.72774	0.1873830	0.27079364	2.3661580	20	1 13.7	20.5
360098 2013 BC ₆₄	17.2	X	251.03176	146.01878	75.21663	0.40919	0.1147010	0.25325760	2.4741597	20	—	—
360099 2013 BQ ₆₄	16.3	X	307.90408	57.96497	330.41428	5.38500	0.0372692	0.21361596	2.7714917	20	9 19.6	19.8
360100 2013 BC ₆₅	13.5	X	359.70419	196.65281	155.83737	7.39862	0.0952160	0.08333361	5.1910583	20	9 28.6	19.9
360101 2013 BN ₇₉	17.0	X	290.56261	122.61192	130.42990	5.77102	0.1321212	0.28002565	2.3138623	20	2 7.3	20.0
360102 2013 BQ ₇₉	17.6	X	13.66553	348.74909	157.14321	2.75437	0.1850443	0.27466252	2.3438858	20	1 10.0	19.6
360103 2013 CW	13.2	X	245.79122	171.64669	290.18169	12.56695	0.0613945	0.08184886	5.2536479	20	9 6.3	20.4
360104 2013 CG	16.9	X	78.69166	228.45705	206.54078	5.59845	0.0733678	0.27604547	2.3360509	20	1 24.1	19.5
360105 2013 CG ₁₁	16.8	X	92.15502	207.03460	119.62449	9.43543	0.1792745	0.24026152	2.5625946	20	—	—
360106 2013 CM ₁₃	18.1	X	313.94922	108.66189	44.82293	1.92604	0.1207716	0.25641569	2.4538028	20	—	—
360107 2013 CS ₁₄	13.2	X	267.16120	326.11392	133.65090	17.29417	0.0574503	0.08380385	5.1716215	20	10 9.5	20.2
360108 2013 CY ₁₄	16.7	X	154.05740	112.80228	102.31320	5.11220	0.0297562	0.21735680	2.7396005	20	11 7.2	20.5
360109 2013 CD ₁₅	15.9	X	233.57332	339.49910	130.37909	13.18725	0.1006904	0.21129780	2.7917256	20	9 23.1	20.0
360110 2013 CZ ₁₅	16.6	X	137.39890	47.08430	73.62803	2.43979	0.1338687	0.17894319	3.1188364	20	6 21.6	21.4
360111 2013 CA ₁₆	17.0	X	268.13855	85.32422	356.84528	3.77511	0.0751418	0.21465715	2.7625224	20	10 1.3	20.5
360112 2013 CG ₁₆	15.9	X	6.54775	316.48787	1.86802	4.97741	0.0889201	0.20027704	2.8932232	20	9 14.6	19.4
360113 2013 CM ₁₆	17.3	X	333.71132	335.40241	182.52412	2.93781	0.2480107	0.26216777	2.4177785	20	—	—
360114 2013 CY ₁₆	16.7	X	155.90571	38.28437	176.90403	2.75116	0.1176640	0.21253410	2.7808889	20	11 5.7	21.1
360115 2013 CK ₁₇	18.3	X	58.83592	274.53973	279.08109	2.38357	0.0995790	0.30518126	2.1848962	20	6 20.9	20.2
360116 2013 CS ₁₇	17.4	X	313.14817	142.96799	120.06604	6.67058	0.0844188	0.29023793	2.2592620	20	4 2.1	19.9
360117 2013 CG ₂₀	15.7	X	167.62112	144.14029	270.36502	8.12816	0.0807901	0.17556381	3.1587315	20	4 26.9	20.6
360118 2013 CS ₂₀	17.1	X	227.31886	275.76042	336.86430	3.57996	0.1097058	0.26120287	2.4237292	20	—	—
360119 2013 CK ₂₁	18.3	X	36.91449	89.47873	359.78261	2.46994	0.1325069	0.26843746	2.3799836	20	—	—
360120 2013 CQ ₂₁	16.7	X	182.21163	157.80339	13.11791	3.94974	0.0372986	0.21380153	2.7698878	20	10 12.8	20.6
360121 2013 CE ₂₅	16.4	X	110.37821	272.64876	284.21781	3.86127	0.1224307	0.19443800	2.9508601	20	8 26.2	21.0
360122 2013 CH ₂₇	16.3	X	39.01837	57.67342	191.03985	8.97532	0.0850725	0.18435546	3.0574923	20	7 27.4	20.5
360123 2013 CT ₂₇	16.8	X	92.52109	307.18243	292.66747	3.24469	0.0132310	0.20979515	2.8050402	20	9 18.3	20.6
360124 2013 CW ₂₇	18.3	X	75.02703	236.31300	152.79034	1.62111	0.1990610	0.26802749	2.3824099	20	—	—
360125 2013 CA ₃₀	16.3	X	219.27447	337.90159	87.47913	3.69597	0.0344264	0.18984249	2.9982909	20	7 12.2	20.5
360126 2013 CZ ₃₁	17.0	X	333.91587	344.40268	161.14951	12.53508	0.1228931	0.26073965	2.4265989	20	—	—
360127 2013 CN ₃₂	16.5	X	162.89146	83.58194	132.67798	8.45213	0.1646003	0.21247624	2.7813937	20	11 14.3	21.2
360128 2013 CK ₃₃	16.2	X	167.90872	300.29975	159.04308	16.13874	0.1518347	0.18573296	3.0423562	20	6 25.7	21.4
360129 2013 CX ₃₄	16.4	X	209.94089	243.96819	300.88360	10.80234	0.1143027	0.22690373	2.6622058	20	11 24.0	20.5
360130 2013 CA ₃₅	17.7	X	131.97302	272.57136	174.72506	4.33874	0.1091250	0.30268899	2.1968731	20	5 1.0	20.5
360131 2013 CK ₃₅	16.8	X	245.08098	201.11737	329.17002	7.60362	0.1582350	0.23270205	2.6177967	20	12 15.3	20.3
360132 2013 CL ₃₅	16.1	X	85.52713	45.19273	149.52787	11.68404	0.1393014	0.17935861	3.1140188	20	7 28.3	20.7
360133 2013 CA ₃₇	17.4	X	86.34908	335.98101	322.12984	18.49422	0.0486032	0.35741071	1.9664867	20	—	—
360134 2013 CG ₃₇	15.9	X	238.39187	23.83445	142.67554	15.60650	0.1047547	0.22949777	2.6421070	20	12 10.9	19.7
360135 2013 CL ₃₇	16.9	X	260.70576	139.94108	26.78837	15.64974	0.1246484	0.23939252	2.5687923	20	—	—
360136 2013 CY ₃₇	16.7	X	219.99623	12.31524	183.96817	11.97493	0.1141049	0.23317828	2.6142312	20	12 22.9	20.5
360137 2013 CO ₃₈	16.7	X	268.66148	157.37975	334.07064	13.14353	0.1239144	0.23231655	2.6206918	20	12 1.4	20.1
360138 2013 CP ₃₈	17.6	X	49.19457	287.00681	135.42431	5.71036	0.1215144	0.26659694	2.3909249	20	—	—
360139 2013 CV ₃₉	15.4	X	251.34539	236.82328	130.90738	16.27391	0.0628805	0.18030719	3.1030875	20	6 6.6	20.1
360140 2013 CS ₄₃	16.5	X	180.50716	179.68569	340.79181	5.31262	0.0945863	0.20955420	2.8071900	20	9 22.9	20.8
360141 2013 CY ₄₅	15.9	X	132.25140	324.34097	172.64270	8.50125	0.0434328	0.18149039	3.0895860	20	6 28.9	20.6
360142 2013 CO ₄₆	17.5	X	25.34605	249.99596	180.24571	2.28816	0.1714655	0.25880281	2.4386907	20	—	—
360143 2013 CS ₄₈	14.1	X	211.77164	73.95509	76.52726	7.26250	0.0301249	0.08214272	5.2411107	20	10 6.6	21.2
360144 2013 CY ₅₀	16.6	X	88.57466	359.14248	284.42850	4.17018	0.0430831	0.22390377	2.6859326	20	11 15.1	20.4
360145 2013 CO ₅₂	17.0	X	165.06174	161.02276	119.86062	4.05503	0.1119949	0.24545311	2.5263316	20	—	—
360146 2013 CQ ₅₃	17.2	X	350.75802	55.39137	326.82802	5.47946	0.0403066	0.22045774	2.7138499	20	11 12.3	20.8
360147 2013 CU ₅₄	16.1	X	169.45605	47.01984	63.34103	12.29467	0.1393541	0.18840032	3.0135724	20	7 10.8	21.1
360148 2013 CZ ₅₄	16.3	X	317.97433	238.98290	347.51498	22.98699	0.1560151	0.27335185	2.3513722	20	2 12.7	19.3
360149 2013 CH ₅₈	17.7	X	161.63359	161.62081	296.95697	3.33111	0.0228680	0.31181584	2.1537928	20	6 17.1	20.2
360150 2013 CM ₅₈	17.3	X	3.20812	221.51034	315.99239	1.28507	0.1537259	0.27613344	2.3355547	20	2 9.8	19.4
360151 2013 CX ₅₉	15.7	X	53.66241	336.83270	184.34222	5.93145	0.0310513	0.16273080	3.3226879	20	4 21.9	20.2
360152 2013 CO ₆₂	17.8	X	10.77976	257.43284	322.08927	5.30503	0.0839079	0.29760808	2.2218065	20	4 29.6	20.0
360153 2013 CM ₆₅	16.4	X	175.06440	257.44343	320.29974	14.16552	0.0683697	0.22501918	2.6770493	20	11 30.1	20.6
360154 2013 CR ₆₅	15.4	X	248.49762	357.73658								

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360161 2013 <i>CK</i> ₆₉	15.8 ^m	X	3.55674	310.94117	310.07731	4.16525	0.1009277	0.17363160	3.1821223	20	6 21.2	19.6
360162 2013 <i>CJ</i> ₇₁	13.1	X	347.64339	222.35990	151.44540	23.29257	0.1225138	0.08341362	5.1877385	20	10 9.1	19.6
360163 2013 <i>CC</i> ₇₂	16.2	X	246.29939	205.45463	135.65721	12.78566	0.0610391	0.17172143	3.2056767	20	4 30.5	21.1
360164 2013 <i>CS</i> ₇₂	16.8	X	306.66460	261.36258	139.55059	14.13023	0.1965530	0.22458827	2.6804724	20	9 28.1	19.6
360165 2013 <i>CE</i> ₈₀	17.8	X	8.93085	312.69130	254.59189	2.95012	0.0925679	0.29387564	2.2405793	20	4 7.9	19.9
360166 2013 <i>CJ</i> ₈₀	17.1	X	224.08316	36.51075	176.14528	1.38519	0.1236602	0.23843537	2.5756623	20	—	—
360167 2013 <i>CC</i> ₈₃	16.3	X	114.75990	176.93270	347.24353	10.37747	0.2458632	0.18395808	3.0618939	20	8 4.1	21.4
360168 2013 <i>CN</i> ₈₇	17.1	X	269.12651	107.64202	320.25419	2.81788	0.0861239	0.21596975	2.7513179	20	9 11.9	20.6
360169 2013 <i>CF</i> ₉₆	17.1	X	234.49342	305.87091	173.83647	1.64573	0.0228937	0.21387301	2.7692706	20	10 14.2	20.9
360170 2013 <i>CS</i> ₁₀₁	16.6	X	130.32056	286.99342	326.69480	13.11866	0.0908624	0.21743846	2.7389145	20	11 23.9	21.1
360171 2013 <i>CZ</i> ₁₀₂	13.4	X	236.91075	145.92117	339.87673	16.42731	0.1646094	0.08373661	5.1743897	20	9 16.2	20.7
360172 2013 <i>CF</i> ₁₁₂	16.0	X	88.77273	174.35159	126.17576	15.28176	0.1112760	0.22173674	2.7034040	20	12 15.2	20.3
360173 2013 <i>CF</i> ₁₁₄	16.3	X	272.87066	228.47229	179.85131	5.99268	0.0688282	0.20125391	2.8838533	20	8 22.3	20.1
360174 2013 <i>CG</i> ₁₁₈	16.9	X	251.62884	140.63625	130.15398	3.71132	0.0766108	0.26887257	2.3774153	20	1 23.8	20.0
360175 2013 <i>CJ</i> ₁₂₀	17.7	X	61.43489	271.93928	141.70963	5.36735	0.2429893	0.26571242	2.3962280	20	—	—
360176 2013 <i>CV</i> ₁₂₁	17.5	X	305.42492	224.09707	334.67013	0.70970	0.1795769	0.26183446	2.4198299	20	—	—
360177 2013 <i>CG</i> ₁₃₀	16.4	X	222.97520	332.12637	156.70374	4.83140	0.1528715	0.21182812	2.7970642	20	9 25.4	20.6
360178 2013 <i>CQ</i> ₁₃₀	17.7	X	10.17866	41.34483	172.67148	0.56997	0.1519444	0.29079024	2.2564004	20	4 22.9	19.1
360179 2013 <i>CN</i> ₁₃₁	17.3	X	41.01007	279.17669	209.22577	6.01466	0.0388718	0.27497365	2.3421174	20	2 6.7	20.1
360180 2013 <i>CD</i> ₁₃₇	13.3	X	233.50879	345.02343	156.45133	10.91654	0.0532706	0.08203535	5.2456827	20	10 16.7	20.4
360181 2013 <i>CR</i> ₁₃₇	15.7	X	142.20988	171.63637	343.06402	10.12710	0.0112566	0.18588229	3.0407266	20	8 3.7	20.0
360182 2013 <i>CC</i> ₁₇₆	17.1	X	24.71904	284.84721	181.42889	6.64680	0.0784310	0.26396939	2.4067649	20	—	—
360183 2013 <i>CS</i> ₁₇₆	17.4	X	11.85486	221.19695	314.81212	5.97438	0.0667731	0.28164450	2.3049873	20	2 27.9	19.9
360184 2013 <i>CG</i> ₁₇₇	16.8	X	321.61902	130.44011	115.58328	23.62874	0.1698164	0.28616523	2.2806474	20	3 12.1	19.8
360185 2013 <i>CP</i> ₁₇₇	13.7	X	292.26190	280.53653	145.25106	8.86301	0.0919177	0.08296756	5.2063157	20	9 22.7	20.4
360186 2013 <i>CV</i> ₁₇₉	17.7	X	50.51878	103.41669	69.83097	5.92595	0.0960106	0.29882285	2.2157811	20	5 5.6	19.7
360187 2013 <i>CU</i> ₁₈₀	17.7	X	312.10037	21.10306	252.09543	2.70491	0.1581219	0.29393424	2.2402815	20	3 28.3	20.1
360188 2013 <i>CZ</i> ₁₈₁	16.2	X	190.63195	259.19394	187.77511	10.91762	0.0460952	0.18470658	3.0536164	20	7 3.2	20.9
360189 2013 <i>CY</i> ₁₉₁	16.3	X	258.85898	52.58006	99.85989	11.88416	0.0923677	0.23494348	2.6011204	20	12 22.4	19.5
360190 2013 <i>DN</i> ₉	17.2	X	274.58474	276.93738	330.10598	4.44375	0.1222924	0.26940211	2.3742989	20	1 14.8	20.5
360191 1988 <i>TA</i>	20.6	X	224.29568	105.20901	194.70433	2.53130	0.4785347	0.51585067	1.5397612	20	1 8.6	23.2
360192 1991 <i>FB</i>	19.0	X	344.57485	220.07318	17.95112	9.03587	0.5696370	0.27093581	2.3653302	20	1 22.3	21.7
360193 1995 <i>SF</i> ₃₅	17.3	X	336.47069	62.72965	18.88075	6.18691	0.2554633	0.24204050	2.5500226	20	—	—
360194 1995 <i>SV</i> ₄₁	16.3	X	211.73973	279.50903	175.52328	9.77466	0.2061360	0.18952460	3.0016427	20	7 25.5	21.4
360195 1995 <i>UC</i> ₂₁	16.5	X	75.24639	113.69621	206.92964	14.18424	0.1617065	0.20316268	2.8657618	20	12 23.6	21.1
360196 1996 <i>ND</i>	16.3	X	140.48187	202.27847	114.86162	15.21445	0.2540394	0.22367530	2.6877613	20	—	—
360197 1996 <i>TS</i> ₄₇	16.8	X	76.55247	179.54264	136.95791	5.09556	0.0592842	0.21062849	2.7976366	20	12 12.3	20.8
360198 1997 <i>SO</i> ₂₄	17.0	X	69.48385	25.25126	300.13734	1.29404	0.0845380	0.21977759	2.7194460	20	12 19.6	20.8
360199 1997 <i>SQ</i> ₃₀	16.7	X	118.86729	314.30965	25.24155	15.03387	0.1112240	0.22716321	2.6601782	20	—	—
360200 1997 <i>UF</i> ₈	15.9	X	171.90144	285.42819	13.55523	28.93256	0.4353716	0.23495520	2.6010339	20	1 3.1	21.5
360201 1997 <i>WF</i> ₉	16.4	X	156.40538	268.11577	43.56618	14.07915	0.1860280	0.22905328	2.6455240	20	—	—
360202 1997 <i>WK</i> ₂₇	17.6	X	302.88678	272.20123	28.37671	4.06988	0.1711588	0.28908199	2.2652807	20	4 22.9	19.8
360203 1998 <i>DT</i> ₈	17.7	X	342.40424	51.11813	144.86161	6.04690	0.2232639	0.26673867	2.3900779	20	1 19.8	20.2
360204 1998 <i>SE</i> ₃₁	15.3	X	301.77364	23.08559	345.44236	20.72164	0.0207334	0.17702179	3.1413638	20	8 19.9	19.7
360205 1998 <i>SZ</i> ₃₂	16.4	X	12.77369	145.81630	174.05353	9.69641	0.0806082	0.17918048	3.1160823	20	9 21.6	20.3
360206 1998 <i>SF</i> ₁₄₆	14.8	X	353.26263	316.88807	21.69856	15.40126	0.2194223	0.17678253	3.1441975	20	9 27.2	18.1
360207 1998 <i>TE</i> ₂₂	16.8	X	351.03351	81.24747	30.27865	5.98128	0.1254021	0.23498896	2.6007847	20	—	—
360208 1998 <i>VL</i> ₂	16.5	X	76.90201	121.83215	238.57439	4.96860	0.2847778	0.23485852	2.6017476	20	—	—
360209 1998 <i>WJ</i> ₇	18.5	X	258.26983	90.23597	51.83713	8.20071	0.3143115	0.36081225	1.9541079	20	12 19.7	18.6
360210 1998 <i>WZ</i> ₂₉	16.6	X	35.63992	150.25474	233.83796	12.77449	0.0999913	0.23102516	2.6304489	20	—	—
360211 1999 <i>CS</i> ₄₅	16.8	X	277.62228	329.29887	133.99538	7.41516	0.3994034	0.21881541	2.7274122	20	9 24.9	20.2
360212 1999 <i>DB</i> ₈₈	16.8	X	211.62972	171.36035	359.25372	7.84852	0.0590067	0.21244612	2.7816566	20	11 11.4	20.8
360213 1999 <i>PY</i> ₅	15.9	X	338.15992	192.84044	138.17952	15.29009	0.0535216	0.18797334	3.0181342	20	8 15.7	19.8
360214 1999 <i>PH</i> ₈	17.5	X	246.05166	152.81982	169.16738	2.84011	0.1915118	0.26839734	2.3802208	20	3 14.5	21.1
360215 1999 <i>RJ</i> ₂	16.0	X	2.66945	189.81605	148.67529	9.42535	0.2592820	0.19098212	2.9863514	20	10 25.9	19.1
360216 1999 <i>RA</i> ₂₇	15.4	X	264.90478	204.55197	173.11622	30.65830	0.2977045	0.17843714	3.1247303	20	6 4.6	20.9
360217 1999 <i>RA</i> ₃₀	16.8	X	163.50756	210.94296	182.57075	14.43144	0.1700729	0.26422041	2.4052403	20	3 30.8	20.6
360218 1999 <i>RZ</i> ₁₀₅	16.7	X	262.60893	78.38708	221.95618	12.47228	0.2536348	0.26818605	2.3814708	20	2 21.9	20.8
360219 1999 <i>SG</i> ₂₆	17.1	X	153.29979	171.04377	187.27018	2.05091	0.2939350	0.25680175	2.4513429	20	2 15.3	21.2
360220 1999 <i>TU</i> ₂₀	17.1	X	146.69332	172.54633	197.45796	10.18186	0.2168177	0.25783057	2.4448175	20	2 15.4	21.0
360221 1999 <i>TX</i> ₃₄	17.7	X	269.39309	303.58799	9.32574	8.19836	0.4382005	0.27049747	2.3678848	20	3 5.8	22.0
360222 1999 <i>TE</i> ₆₂	15.7	X	230.91226	47.67317	36.12464	18.45908	0.0816794	0.17906546	3.1174166	20	8 21.9	20.6
360223 1999 <i>TU</i> ₆₃	15.2	X	175.89227	254.96664	218.65398	19.49449	0.1118484	0.17352474	3.1834286	20	7 14.9	20.6
360224 1999 <i>TX</i> ₆₈	17.3	X	291.14389	33.72095	231.03604	4.24306	0.1981238	0.26445828	2.4037978	20	2 14.4	20.7
360225 1999 <i>TV</i> ₁₁₅	16.9	X	164.89878	159.86078	205.87678	8.17564	0.2703971	0.26019044	2.4300124	20	2 29.4	21.2
360226 1999 <i>TP</i> ₁₆₁	17.3	X	143.91013	206.42449	151.19810	2.74633	0.1994264	0.25589823	2.4571096	20	1 29.6	21.0
360227 1999 <i>TW</i> ₂₅₉	16.9	X	178.76720	138.87260	194.13474	3.52715	0.1462939	0.25761781	2.4461634	20	1 27.7	20.7
360228 1999 <i>TH</i> ₃₂₁	16.6	X	354.26091	175.62724	173.46481	4.03471	0.1559652	0.18744602	3.0237919	20	10 8.5	19.8
360229 1999 <i>VL</i> ₁₁	17.6	X	203.88741	302.77494	58.09996	35.29626	0.2150229	0.40653654	1.8046916	20	4 11.1	21.1
360230 1999 <i>VG</i> ₁₁₆	17.0	X	136.11748	181.15142	185.68337	2.70384	0.0977038	0.25270783	2.4777468	20	1 20.7	20.4
360231 1999 <i>VM</i> ₁₃₈	15.6	X	42.04032	179.93010	65.55556	10.96569	0.0713749	0.17505040	3.1649047	20		

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
360241	2000	ED ₁₆	17.5	X	42.19507	117.68495	292.34923	1.00009	0.1686116	0.23623694	2.5916172	20	—	—
360242	2000	EU ₁₆₅	16.4	X	340.29659	251.49991	163.10286	22.16700	0.0366225	0.22643647	2.6658669	20	12 15.3	20.4
360243	2000	EG ₁₉₆	16.8	X	280.02804	4.85686	183.24919	2.64213	0.0865426	0.23485275	2.6017903	20	—	—
360244	2000	FN ₇	17.2	X	211.12859	40.38653	187.17123	6.18340	0.0733413	0.22827639	2.6515230	20	—	—
360245	2000	GG ₄	16.4	X	296.98437	93.28184	36.18547	28.72533	0.3424837	0.23132146	2.6282021	20	12 31.6	18.8
360246	2000	GW ₁₁	16.4	X	279.80718	352.34710	187.09363	13.61296	0.1820648	0.23300271	2.6155442	20	—	—
360247	2000	GH ₁₄	17.7	X	34.00244	213.10749	39.41430	3.13631	0.2588868	0.30331551	2.1938468	20	9 11.2	19.7
360248	2000	GN ₂₃	16.9	X	185.14968	72.27462	191.42775	12.69996	0.1326015	0.22823189	2.6518675	20	—	—
360249	2000	GQ ₁₂₇	16.5	X	11.33957	300.84902	16.63075	46.45399	0.3950379	0.30535403	2.1840720	20	11 2.6	19.8
360250	2000	GH ₁₈₆	16.6	X	302.34660	103.04558	42.42036	13.25287	0.1095484	0.22890306	2.6466813	20	—	—
360251	2000	HL ₂₀	17.5	X	348.33962	74.25367	46.95666	22.56135	0.1536923	0.38096077	1.8845857	20	—	—
360252	2000	HV ₅₃	16.3	X	159.11287	243.70993	62.62186	7.84746	0.3265973	0.22355827	2.6886992	20	—	—
360253	2000	HH ₁₀₂	17.3	X	319.35466	258.01248	219.55072	3.81830	0.1217701	0.22782161	2.6550504	20	—	—
360254	2000	JU ₃	17.1	X	204.81554	179.65863	66.56082	22.69260	0.0865076	0.37435668	1.9066852	20	—	—
360255	2000	JF ₆	16.4	X	223.47379	6.58193	216.79717	14.39521	0.1987099	0.22817445	2.6523126	20	—	—
360256	2000	JB ₈	17.6	X	206.31892	139.25659	136.07511	2.37711	0.1891954	0.23034461	2.6356274	20	—	—
360257	2000	JY ₇₈	16.0	X	270.46511	67.13090	85.25543	13.49106	0.2148691	0.22724872	2.6595107	20	12 20.1	18.7
360258	2000	JD ₈₀	16.0	X	256.22521	126.22531	46.21345	12.95728	0.0991450	0.22531485	2.6747068	20	—	—
360259	2000	KX ₁₀	16.1	X	225.87047	335.78954	236.95152	12.49345	0.1070452	0.22537220	2.6742529	20	—	—
360260	2000	KN ₃₇	16.7	X	229.87546	137.11527	51.87412	9.11056	0.1233205	0.22362350	2.6881763	20	12 21.9	20.4
360261	2000	OO ₁₁	16.1	X	121.01982	34.08731	329.24505	9.66770	0.3025988	0.21704615	2.7422139	20	—	—
360262	2000	OX ₆₀	16.4	X	109.14122	346.52267	292.51576	9.78249	0.2632848	0.21360598	2.7715780	20	—	—
360263	2000	QJ ₁₈₄	17.5	X	300.17651	278.41112	58.77699	3.64870	0.2428111	0.29165232	2.2519518	20	5 31.4	19.4
360264	2000	QL ₂₂₀	17.4	X	249.63422	359.05332	327.56645	4.24516	0.1905969	0.28367462	2.2939770	20	3 21.3	21.0
360265	2000	SN ₅₃	17.4	X	286.34774	444.73029	344.86262	3.27381	0.1954971	0.28743916	2.2739038	20	5 5.6	20.1
360266	2000	SZ ₈₄	17.0	X	213.17852	330.72297	30.76018	7.30414	0.1293830	0.27897885	2.3196468	20	4 5.9	20.4
360267	2000	SH ₁₁₆	16.5	X	211.88769	310.43259	35.22883	6.56712	0.2069747	0.27723521	2.3293627	20	3 15.3	20.3
360268	2000	SC ₁₈₆	16.3	X	74.34342	163.57659	190.64101	7.82023	0.2369147	0.20915493	2.8107614	20	—	—
360269	2000	SF ₂₀₀	17.3	X	226.86716	333.77215	17.64301	5.89291	0.1838537	0.28051474	2.3111719	20	4 2.9	20.7
360270	2000	SL ₂₁₈	16.3	X	284.81737	252.73327	61.50786	10.76001	0.2323475	0.28415709	2.2913797	20	4 12.6	19.4
360271	2000	SJ ₂₃₉	17.5	X	272.48758	148.78414	179.92625	5.11252	0.1846090	0.28406205	2.2918907	20	4 20.8	20.7
360272	2000	SE ₂₅₄	17.3	X	281.86272	220.93921	89.15091	3.34457	0.2429792	0.28467489	2.2886002	20	3 30.4	20.5
360273	2000	SU ₂₆₀	17.8	X	251.86436	199.63801	144.26940	2.05409	0.2357281	0.28335783	2.2956864	20	4 13.1	21.2
360274	2000	SZ ₂₉₇	17.2	X	249.81651	130.66373	229.22964	5.81448	0.2075905	0.28460696	2.2889644	20	5 3.6	20.4
360275	2000	SO ₃₀₀	17.1	X	252.15723	86.55512	250.84370	2.53264	0.2710147	0.28293037	2.2979981	20	3 31.2	21.0
360276	2000	SD ₃₀₂	17.3	X	150.86475	7.80020	27.57871	9.69331	0.1776159	0.27147298	2.3622089	20	2 27.2	20.9
360277	2000	SJ ₃₆₄	15.9	X	83.81460	245.22314	100.24500	10.66593	0.2376946	0.21070408	2.7969675	20	—	—
360278	2000	TN ₂₇	16.9	X	64.77804	118.92121	276.66798	7.71882	0.3008043	0.26186011	2.4196719	20	—	—
360279	2000	TJ ₃₁	17.5	X	278.45948	231.01932	82.00855	4.36913	0.0440572	0.28232723	2.3012698	20	4 28.5	20.3
360280	2000	UH ₁₆	15.9	X	247.32556	301.73383	61.41937	24.22622	0.3142911	0.28379779	2.2933133	20	5 2.7	19.9
360281	2000	UN ₇₆	16.4	X	197.94560	162.85704	201.41354	22.03292	0.1047169	0.27536054	2.3399231	20	3 21.9	20.1
360282	2000	VQ ₂₂	17.4	X	177.85000	359.88289	28.28048	3.60159	0.1985019	0.27531636	2.3401734	20	4 6.3	21.1
360283	2000	WG ₂₅	16.7	X	175.72440	281.00039	109.65243	7.46126	0.1183584	0.27432547	2.3458053	20	4 8.5	20.2
360284	2000	WU ₂₉	17.8	X	66.27251	292.69813	44.82304	15.05165	0.2071421	0.35709834	1.9676333	20	—	—
360285	2000	WD ₁₁₀	16.6	X	232.77106	335.08783	3.05629	5.54754	0.2481582	0.27673424	2.3321731	20	3 19.4	20.6
360286	2000	WT ₁₁₇	16.6	X	6.50518	67.74813	71.27106	10.43322	0.2132721	0.25846937	2.4407876	20	—	—
360287	2000	WL ₁₈₄	17.3	X	298.36060	335.43648	92.35757	8.28462	0.2677361	0.24483658	2.5305709	20	10 17.1	19.4
360288	2001	BM ₃	15.4	X	92.01001	69.29274	97.64807	26.86197	0.1972081	0.16870644	3.2437567	20	7 7.9	20.3
360289	2001	BH ₃₉	15.6	X	122.53933	16.15627	127.11673	14.93397	0.0949291	0.17128474	3.2111229	20	7 1.1	20.5
360290	2001	DC ₄₉	15.3	X	101.94160	89.82248	109.93640	16.80235	0.2478118	0.17373808	3.1808220	20	9 6.5	20.7
360291	2001	DQ ₉₇	16.2	X	318.15117	202.93696	347.16203	14.62894	0.0818981	0.25411905	2.4685650	20	1 4.8	19.6
360292	2001	LP ₁	15.8	X	198.48797	285.73445	43.64338	7.03471	0.2949385	0.24004655	2.5641243	20	2 17.9	20.6
360293	2001	OU ₉	16.5	X	174.87112	35.16810	307.22077	2.48345	0.3031061	0.23802908	2.5785924	20	2 14.3	21.1
360294	2001	OU ₂₆	16.4	X	167.15416	296.37138	347.78746	8.34508	0.1147610	0.23208481	2.6224360	20	—	—
360295	2001	OO ₈₅	15.9	X	172.40719	63.47655	262.20480	9.63030	0.2519574	0.23525337	2.5988356	20	1 20.6	20.5
360296	2001	PQ ₃₁	16.1	X	126.55153	118.14399	234.20290	13.84736	0.1321529	0.23054562	2.6340952	20	—	—
360297	2001	QG ₁₉	16.1	X	99.04451	343.03733	336.56241	13.56905	0.2517881	0.22243800	2.6977191	20	—	—
360298	2001	QP ₁₈₄	16.1	X	169.95303	115.10417	198.03255	12.31330	0.1922332	0.23318820	2.6141570	20	1 1.3	20.6
360299	2001	QU ₂₀₈	16.3	X	359.92217	44.53934	331.94496	12.35596	0.1189458	0.21563054	2.7542025	20	11 23.5	19.9
360300	2001	QD ₂₁₁	16.4	X	153.46884	318.01663	334.18803	7.22362	0.1749419	0.22667609	2.6639879	20	—	—
360301	2001	QG ₂₂₉	17.0	X	183.82589	342.88923	299.23026	6.78643	0.3600532	0.23261028	2.6184852	20	—	—
360302	2001	QE ₂₅₉	16.0	X	120.60432	333.17556	324.60931	13.18100	0.1527463	0.22145343	2.7057091	20	—	—
360303	2001	RK ₇	16.1	X	95.20220	216.54733	163.15999	11.83581	0.1424407	0.22895235	2.6463014	20	—	—
360304	2001	RO ₃₄	16.2	X	124.09747	71.01707	263.53268	3.79522	0.1552922	0.22817683	2.6522941	20	—	—
360305	2001	RO ₅₉	18.2	X	8.49850	266.25496	41.76511	4.54202	0.2078270	0.31276890	2.1494153	20	10 14.8	19.8
360306	2001	RD ₇₄	16.3	X	76.48531	141.42792	205.28202	12.39029	0.2129895	0.21958226	2.7210585	20	—	—
360307	2001	SD ₃	16.2	X	176.08427	290.75458	25.13380	12.39939	0.2232608	0.23094860	2.6310302	20	1 15.7	20.8
360308	2001	SS ₁₀	16.6	X	219.38214	281.11428	2.32179	9.03177	0.2416588	0.23701867	2.5859156	20	1 9.4	21.3
360309	2001	SM ₃₃	16.7	X	204.69921	279.76267	7.98954	28.72587	0.3262837	0.23396038	2.6084019	20	1 9.0	22.2
360310	2001	SA ₃₄	16.6	X	119.41406	177.13951	184.58006	14.27909	0.1134494	0.22738114	2.6584781	20	—	—
360311	2001	SF ₃₉	17.1</											

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360321 2001 <i>SU</i> ₂₈₄	17.3	X	36.94026	171.15703	202.05959	3.31724	0.1572608	0.21757991	2.7377273	20	—	—
360322 2001 <i>SU</i> ₃₂₂	16.6	X	152.47638	100.91024	231.60042	11.93909	0.1924954	0.22979723	2.6398112	20	1 8.1	20.9
360323 2001 <i>TC</i> ₇	17.1	X	188.61894	160.08198	154.25570	6.42705	0.3232225	0.23372051	2.6101863	20	1 22.8	21.9
360324 2001 <i>TF</i> ₁₃	17.4	X	109.54208	318.13603	31.72087	21.70210	0.0862531	0.38239022	1.8798861	20	—	—
360325 2001 <i>TF</i> ₆₉	18.2	X	333.14533	128.28568	199.55673	3.98281	0.2162905	0.30825630	2.1703415	20	8 12.8	19.1
360326 2001 <i>TE</i> ₁₀₀	17.4	X	258.45959	343.80490	15.97286	7.47345	0.1169477	0.29946892	2.2125930	20	5 22.9	20.2
360327 2001 <i>TZ</i> ₁₁₄	16.0	X	225.39133	11.99474	23.96364	15.30937	0.2464136	0.19101126	2.9860477	20	5 21.6	21.2
360328 2001 <i>TR</i> ₁₂₃	16.2	X	89.51885	120.42334	222.36832	11.81074	0.2832426	0.22190845	2.7020092	20	—	—
360329 2001 <i>TO</i> ₁₇₅	16.9	X	172.38720	88.32372	202.82922	14.34960	0.2854638	0.22959445	2.6413652	20	—	—
360330 2001 <i>TE</i> ₁₈₉	15.9	X	160.42393	72.00400	234.02219	14.71525	0.2960338	0.22616241	2.6680201	20	—	—
360331 2001 <i>TU</i> ₁₉₂	16.1	X	143.69148	312.58171	31.63953	13.91694	0.2720227	0.22725426	2.6594675	20	1 28.2	20.7
360332 2001 <i>TE</i> ₁₉₄	17.3	X	319.09252	90.12683	233.53940	5.24254	0.2140448	0.30429849	2.1891198	20	6 24.1	18.7
360333 2001 <i>TO</i> ₁₉₆	17.4	X	154.65629	278.95679	60.35810	23.37185	0.0385729	0.38677093	1.8656643	20	—	—
360334 2001 <i>TR</i> ₂₂₃	16.6	X	158.88819	32.35839	278.58120	5.49923	0.2433097	0.22762020	2.6566164	20	—	—
360335 2001 <i>TB</i> ₂₆₀	17.6	X	32.34279	230.65045	36.45828	6.12974	0.1217241	0.30849581	2.1692180	20	9 8.4	19.8
360336 2001 <i>TE</i> ₂₆₂	18.0	X	20.13747	244.06570	64.04904	5.15652	0.1989629	0.31332110	2.1468892	20	11 2.9	20.1
360337 2001 <i>UR</i> ₁	15.4	X	164.92712	267.63317	59.74328	27.41707	0.4098594	0.22977316	2.6399955	20	2 2.6	20.9
360338 2001 <i>UO</i> ₁₁	15.5	X	158.24162	280.35165	62.99329	29.48006	0.3372235	0.23248589	2.6194190	20	2 17.4	20.8
360339 2001 <i>UY</i> ₁₃	17.4	X	105.54097	344.85999	89.89486	5.92914	0.2250198	0.28240758	2.3008333	20	3 31.4	20.4
360340 2001 <i>UU</i> ₁₅	16.3	X	68.72796	321.94613	27.36789	14.06941	0.0913584	0.21627760	2.7487064	20	—	—
360341 2001 <i>UK</i> ₂₈	16.4	X	146.20623	282.53081	34.06047	13.45016	0.1990107	0.22617410	2.6679282	20	—	—
360342 2001 <i>UL</i> ₅₈	18.1	X	168.73149	27.80747	20.51454	3.00007	0.1544487	0.29204732	2.2499208	20	4 20.9	21.6
360343 2001 <i>UC</i> ₆₇	18.2	X	341.69298	117.53557	198.66246	3.04094	0.2315072	0.30793235	2.1718634	20	8 18.1	19.0
360344 2001 <i>UC</i> ₁₀₂	18.1	X	167.27013	224.24651	184.57859	3.12148	0.1766811	0.29184208	2.2509755	20	4 22.0	21.4
360345 2001 <i>UR</i> ₁₂₀	16.1	X	151.39339	109.95457	208.90385	12.15362	0.1599976	0.22432498	2.6825693	20	—	—
360346 2001 <i>UC</i> ₁₄₃	16.1	X	191.74481	93.56729	207.96230	10.45668	0.2957699	0.23067157	2.6331362	20	1 8.9	21.1
360347 2001 <i>UN</i> ₁₄₈	16.6	X	12.63796	321.79591	50.91022	4.88216	0.1094906	0.21039390	2.7997159	20	12 7.9	20.0
360348 2001 <i>VT</i> ₈₇	15.9	X	54.74710	329.04802	35.54080	15.19416	0.2163615	0.21892892	2.7264694	20	—	—
360349 2001 <i>VD</i> ₁₂₉	16.5	X	154.03647	123.93558	182.00320	14.68560	0.1782314	0.22400735	2.6851046	20	—	—
360350 2001 <i>VO</i> ₁₃₃	16.7	X	133.61729	110.17127	165.29686	9.48739	0.0193907	0.21458293	2.7631594	20	12 25.5	20.8
360351 2001 <i>WL</i> ₂₃	16.9	X	239.13546	246.70280	214.75861	14.14387	0.1127934	0.20330433	2.8644306	20	9 7.6	21.3
360352 2001 <i>WY</i> ₆₁	16.2	X	128.77196	263.57462	52.30674	16.22839	0.2057841	0.22038425	2.7144532	20	—	—
360353 2001 <i>XN</i> ₁₃₄	16.4	X	27.23152	303.85676	81.18403	10.09281	0.1662568	0.21199373	2.7856126	20	—	—
360354 2001 <i>XW</i> ₂₂₃	16.2	X	302.54228	347.64332	63.37973	11.95381	0.1183136	0.20291666	2.8680777	20	10 10.1	19.8
360355 2001 <i>XH</i> ₂₂₉	18.3	X	123.32133	27.87254	45.71972	2.99379	0.1886295	0.28502213	2.2867411	20	4 11.7	21.3
360356 2001 <i>XV</i> ₂₂₉	17.8	X	191.94203	331.21848	75.26759	7.37975	0.1652851	0.29237542	2.2482373	20	5 12.8	21.2
360357 2001 <i>XE</i> ₂₃₂	16.2	X	110.80976	262.03747	68.64908	10.50607	0.1708727	0.21699818	2.7426180	20	—	—
360358 2001 <i>YK</i> ₂₉	18.4	X	67.35876	65.44184	43.46152	2.88508	0.1689035	0.28060649	2.3106681	20	3 10.6	20.5
360359 2001 <i>YE</i> ₉₁	17.5	X	78.07509	147.57428	298.16478	3.97794	0.1997388	0.27720889	2.3295102	20	2 26.8	19.8
360360 2001 <i>YQ</i> ₉₄	16.2	X	26.99171	335.05637	35.74784	15.40412	0.1025391	0.21177084	2.7875662	20	12 24.1	20.2
360361 2002 <i>AQ</i> ₄	16.9	X	87.01214	330.95405	115.51807	25.63992	0.3018257	0.28061450	2.3106242	20	4 14.6	20.5
360362 2002 <i>AQ</i> ₁₈	17.5	X	116.08082	226.80269	113.75178	24.28907	0.0774989	0.37369450	1.9089369	20	—	—
360363 2002 <i>AP</i> ₂₁	17.6	X	337.70096	312.55282	121.12371	24.01328	0.0921533	0.36612017	1.9351751	20	—	—
360364 2002 <i>AE</i> ₆₉	17.6	X	18.07149	334.55124	217.42068	3.64494	0.1669487	0.27741298	2.3283675	20	4 4.4	19.2
360365 2002 <i>AT</i> ₉₇	17.3	X	95.98640	165.37855	309.60435	7.58553	0.1854171	0.28245241	2.3005898	20	5 1.3	20.3
360366 2002 <i>AA</i> ₁₀₇	18.0	X	74.92479	36.57071	102.15834	4.19098	0.1631453	0.28134943	2.3065986	20	5 6.8	20.5
360367 2002 <i>AY</i> ₁₁₄	17.6	X	38.73735	47.68410	106.72838	5.45239	0.1631339	0.27738038	2.3285499	20	3 25.3	19.5
360368 2002 <i>AJ</i> ₁₃₁	17.6	X	350.97445	318.49875	132.02874	25.44275	0.0611530	0.36925987	1.9241901	20	—	—
360369 2002 <i>AT</i> ₁₃₇	17.4	X	95.99734	333.20802	104.85305	7.71808	0.2212251	0.27813302	2.3243473	20	3 24.3	20.3
360370 2002 <i>AX</i> ₁₅₇	15.5	X	34.44928	254.28236	301.94825	8.77919	0.1828215	0.17343743	3.1844969	20	5 22.9	19.3
360371 2002 <i>AS</i> ₂₀₀	17.5	X	35.13566	41.06965	123.08668	5.82130	0.0900511	0.27981408	2.3150285	20	3 27.1	19.8
360372 2002 <i>AH</i> ₂₀₂	17.4	X	344.37292	296.99643	146.62134	23.14597	0.0692217	0.36780473	1.9292619	20	—	—
360373 2002 <i>AQ</i> ₂₀₂	17.0	X	200.83864	305.18698	160.85013	2.77151	0.2440149	0.18846232	3.0129114	20	7 28.9	22.3
360374 2002 <i>AW</i> ₂₀₂	17.8	X	68.99393	204.33152	256.29428	2.86278	0.1878507	0.27592567	2.3672720	20	3 1.6	20.1
360375 2002 <i>CV</i> ₂₃	16.8	X	353.92919	271.71564	285.85499	11.55850	0.0773660	0.27706429	2.3303207	20	2 24.8	19.5
360376 2002 <i>CE</i> ₅₁	17.7	X	33.68210	344.22981	143.90919	1.77267	0.1371111	0.27265476	2.3553783	20	1 28.9	19.7
360377 2002 <i>CK</i> ₈₇	17.1	X	352.09650	80.70606	121.88047	5.29957	0.1030472	0.27590248	2.3368579	20	3 5.7	19.4
360378 2002 <i>CU</i> ₁₁₅	15.4	X	103.89342	326.73787	241.44627	19.43766	0.2800715	0.18352429	3.0667169	20	9 8.6	20.9
360379 2002 <i>CF</i> ₁₃₁	16.9	X	347.82322	91.57288	143.34129	6.73254	0.0931985	0.28002119	2.3138868	20	4 17.7	19.3
360380 2002 <i>CQ</i> ₂₁₀	16.5	X	141.86651	59.15103	132.19365	6.98602	0.1965683	0.18771241	3.0209304	20	9 25.2	21.6
360381 2002 <i>CC</i> ₂₁₃	17.8	X	11.71867	171.01466	358.40066	4.02173	0.1453293	0.27355998	2.3501793	20	2 17.4	19.8
360382 2002 <i>CB</i> ₂₆₂	16.6	X	158.52042	33.99278	144.66741	4.51999	0.0627221	0.19144587	2.9815267	20	9 23.0	21.0
360383 2002 <i>CO</i> ₂₆₆	17.2	X	335.45728	304.30752	323.88335	4.90293	0.0971378	0.28293061	2.2979968	20	5 10.8	19.7
360384 2002 <i>CW</i> ₂₆₇	18.0	X	346.95523	92.52622	130.82177	4.37681	0.1266001	0.27710763	2.3300776	20	3 24.8	20.1
360385 2002 <i>CN</i> ₂₈₀	16.6	X	162.39804	331.48714	180.08747	2.70392	0.1530188	0.18647279	3.0343038	20	8 22.5	21.5
360386 2002 <i>CG</i> ₃₀₄	16.1	X	73.20842	33.21223	159.85449	9.93256	0.0394176	0.17808166	3.1288873	20	6 26.9	20.6
360387 2002 <i>CX</i> ₃₀₉	17.4	X	26.88697	260.86706	294.67883	5.87230	0.1298505	0.28009328	2.3134898	20	4 25.8	19.6
360388 2002 <i>CY</i> ₃₁₁	17.2	X	56.96236	2.71092	118.21944	6.55625	0.1337481	0.27393614	2.3480274	20	3 6.4	19.4
360389 2002 <i>CK</i> ₃₁₄	18.4	X	353.03950	37.37033	148.39194	0.28329	0.1437098	0.27208399	2.3586711	20	2 5.0	20.6
360390 2002 <i>CW</i> ₃₁₇	12.9	X	316.21627	71.73533	308.99896	28.99265	0.0828161	0.08462317	5.1381864	20	8 22.5	19.6
360391 2002 <i>DW</i> ₇	17.1	X	75.31823	0.82449	118.53610	25.68320	0.1910828	0.27850958	2.3222517	20	4 26.1	20.5
360392 2002 <i>EE</i> ₃	17.											

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360401 2002 <i>FM</i> ₅	17.5	X	333.20087	18.29616	223.93067	4.58359	0.1932562	0.27360429	2.3499256	20	3 13.7	19.7
360402 2002 <i>FK</i> ₂₁	15.8	X	130.42893	219.01087	350.78541	10.10336	0.0731312	0.18644292	3.0346280	20	9 27.7	20.5
360403 2002 <i>FF</i> ₄₀	17.4	X	5.15596	97.54974	92.26231	6.83637	0.2100041	0.27193963	2.3595058	20	3 3.6	19.2
360404 2002 <i>GF</i> ₆	15.9	X	134.48394	130.37404	31.80617	18.68592	0.1802369	0.17993440	3.1073721	20	8 20.7	21.3
360405 2002 <i>GP</i> ₂₇	18.5	X	348.00789	36.54461	165.09556	1.41483	0.1296034	0.27320325	2.3522247	20	2 20.9	21.0
360406 2002 <i>GS</i> ₃₃	17.3	X	0.61416	148.63043	49.64180	6.76551	0.1149891	0.27387302	2.3483882	20	3 15.8	19.6
360407 2002 <i>GS</i> ₄₂	17.2	X	352.96550	182.37169	37.16359	3.37589	0.1427307	0.27310675	2.3527788	20	3 28.4	19.3
360408 2002 <i>GR</i> ₅₈	17.2	X	355.80110	192.59997	29.20755	6.02999	0.1387868	0.27333486	2.3514696	20	4 6.9	19.2
360409 2002 <i>GJ</i> ₇₇	17.0	X	345.92743	90.45865	143.89806	5.30011	0.1564881	0.27421078	2.3464593	20	4 5.9	19.0
360410 2002 <i>GY</i> ₈₀	15.9	X	140.57511	123.40340	56.43659	8.11819	0.1671398	0.18289234	3.0737771	20	9 10.9	21.0
360411 2002 <i>GV</i> ₈₁	15.7	X	164.87403	105.21461	38.27021	14.83043	0.2318275	0.18251862	3.0779715	20	8 22.4	21.3
360412 2002 <i>GU</i> ₈₄	16.8	X	34.65971	352.86908	146.67558	7.10091	0.1603074	0.26919575	2.3755121	20	2 19.3	18.8
360413 2002 <i>GE</i> ₈₅	17.1	X	278.83449	119.50492	159.47051	5.65631	0.2537524	0.26769433	2.3843862	20	2 14.3	20.7
360414 2002 <i>GG</i> ₁₀₃	16.9	X	300.93797	159.20573	82.43562	9.14196	0.1580582	0.26662399	2.3907632	20	2 5.5	20.1
360415 2002 <i>GG</i> ₁₀₆	15.4	X	108.99866	145.45288	49.80735	20.08193	0.1569590	0.17976577	3.1093149	20	9 6.6	20.6
360416 2002 <i>GA</i> ₁₁₅	16.4	X	220.09585	282.65591	32.50729	22.08574	0.2605771	0.26433378	2.4045525	20	2 23.2	21.1
360417 2002 <i>GU</i> ₁₁₅	16.8	X	42.61977	6.62190	166.62540	11.76089	0.1418640	0.27472866	2.3435096	20	4 19.1	19.6
360418 2002 <i>GR</i> ₁₂₅	17.8	X	229.83589	166.50620	13.95064	19.62482	0.0371236	0.35912959	1.9602069	20	—	—
360419 2002 <i>GX</i> ₁₂₈	15.6	X	73.91475	209.58303	3.87948	8.58450	0.0900102	0.17646355	3.1479854	20	8 3.6	20.1
360420 2002 <i>GE</i> ₁₄₇	17.3	X	2.37676	97.89576	81.17331	5.73443	0.1360179	0.27039373	2.3684905	20	2 16.4	19.5
360421 2002 <i>GO</i> ₁₅₈	15.4	X	66.23202	211.54206	59.00660	14.24167	0.1695820	0.17993388	3.1073780	20	10 18.5	20.0
360422 2002 <i>GF</i> ₁₇₄	15.1	X	50.91894	244.06287	53.67026	17.31426	0.2251898	0.17948905	3.1125099	20	11 6.8	19.6
360423 2002 <i>GO</i> ₁₇₉	16.0	X	89.37175	82.54124	126.94772	16.55263	0.2012205	0.17823975	3.1270370	20	8 30.9	20.9
360424 2002 <i>GS</i> ₁₇₉	17.4	X	316.03962	164.04437	71.84508	12.42640	0.1476822	0.26938009	2.3744283	20	2 22.6	20.5
360425 2002 <i>GF</i> ₁₈₁	17.1	X	241.15874	275.10321	40.06149	9.46567	0.2446458	0.26471421	2.4022482	20	3 3.4	21.2
360426 2002 <i>GD</i> ₁₈₂	16.1	X	98.98321	243.81268	338.57908	16.15642	0.1906791	0.18160066	3.0883352	20	9 17.9	21.1
360427 2002 <i>GV</i> ₁₈₅	17.4	X	257.15704	121.42929	197.50769	10.89519	0.2934501	0.26803116	2.3823882	20	3 10.8	21.6
360428 2002 <i>HU</i> ₁₂	17.1	X	294.22553	76.65610	84.51829	23.64793	0.0712533	0.36665585	1.9332898	20	—	—
360429 2002 <i>HC</i> ₁₄	17.3	X	315.40888	172.68159	61.83852	9.73551	0.2206141	0.26713572	2.3877091	20	2 6.1	20.4
360430 2002 <i>HK</i> ₁₈	15.8	X	17.32218	116.26900	157.01949	17.19952	0.1415257	0.17381197	3.1799205	20	8 1.5	19.7
360431 2002 <i>JX</i> ₆	15.7	X	49.63304	51.01727	222.54658	27.91250	0.2915805	0.17568932	3.1572270	20	10 11.6	20.3
360432 2002 <i>JJ</i> ₉	17.8	X	283.52246	61.39449	129.15653	1.70464	0.2273113	0.26634464	2.3924346	20	2 23.7	21.2
360433 2002 <i>JR</i> ₉	17.7	X	298.08139	204.29773	222.51377	9.79994	0.6359297	0.26699278	2.3885612	20	3 25.1	22.0
360434 2002 <i>JH</i> ₄₅	17.0	X	314.56164	216.90451	23.93339	3.72606	0.1261022	0.26867000	2.3786102	20	2 26.3	19.8
360435 2002 <i>JG</i> ₅₆	17.1	X	234.26884	115.66219	50.60476	23.31338	0.0435323	0.35402862	1.9789909	20	—	—
360436 2002 <i>JE</i> ₇₀	17.6	X	294.48949	174.70750	106.87085	6.50231	0.3790022	0.26696973	2.3886987	20	2 21.0	21.3
360437 2002 <i>JU</i> ₇₂	15.1	X	38.41869	202.74065	103.51296	10.73504	0.0862029	0.17945569	3.1130112	20	10 16.3	19.5
360438 2002 <i>JJ</i> ₆₈	17.7	X	267.90362	312.90959	219.27691	20.90218	0.0463208	0.36153656	1.9514970	20	—	—
360439 2002 <i>JP</i> ₁₂₁	16.3	X	229.77645	190.88860	96.36562	15.81924	0.1424446	0.26062703	2.4272979	20	1 20.4	20.2
360440 2002 <i>JY</i> ₁₃₀	15.5	X	85.47098	86.22519	84.35449	14.27157	0.2250056	0.17082070	3.2169357	20	7 9.7	20.4
360441 2002 <i>JU</i> ₁₄₅	15.6	X	131.50134	30.86654	158.14304	19.10502	0.1556429	0.18031868	3.1029557	20	9 9.7	20.5
360442 2002 <i>KR</i> ₈	15.1	X	48.65076	84.20236	214.14916	21.52744	0.2388798	0.17655993	3.1468396	20	11 5.1	19.5
360443 2002 <i>LR</i> ₂₉	16.9	X	285.57591	141.15423	127.61229	7.23256	0.1090341	0.26537672	2.3982484	20	2 28.5	20.1
360444 2002 <i>LX</i> ₆₃	17.6	X	266.36397	157.09789	112.31065	4.14077	0.1656998	0.26229998	2.4169660	20	1 31.5	21.3
360445 2002 <i>MR</i> ₆	15.9	X	64.96413	134.77813	109.43838	9.42253	0.3365233	0.17034031	3.2229811	20	10 4.4	21.0
360446 2002 <i>NM</i> ₁₂	17.0	X	297.90027	142.28302	126.15662	7.93804	0.2280582	0.26355497	2.4092872	20	2 26.6	20.2
360447 2002 <i>NK</i> ₆₅	17.4	X	256.82999	309.37216	323.77787	0.83118	0.1562354	0.25663420	2.4524097	20	1 27.9	21.1
360448 2002 <i>ND</i> ₆₈	15.7	X	24.81575	280.89188	154.37789	14.45891	0.1638500	0.24129441	2.5552764	20	—	—
360449 2002 <i>OR</i> ₂₄	17.3	X	233.80601	325.01142	316.72682	5.38777	0.1181588	0.25288717	2.4765752	20	1 19.2	21.1
360450 2002 <i>PP</i> ₆₂	17.5	X	200.36759	182.75552	139.71940	3.92170	0.2485946	0.25262732	2.4782731	20	2 6.8	21.8
360451 2002 <i>PL</i> ₁₈₅	17.6	X	163.73660	42.58446	273.11549	0.40549	0.1102264	0.24517710	2.5282273	20	—	—
360452 2002 <i>QC</i> ₁₅	16.3	X	31.94888	199.67208	178.08766	13.85132	0.2586323	0.23070144	2.6329089	20	—	—
360453 2002 <i>QC</i> ₄₉	17.7	X	138.87642	190.74306	152.77931	3.41053	0.1416917	0.24394331	2.5367448	20	1 1.9	21.4
360454 2002 <i>QM</i> ₅₅	17.1	X	97.06744	2.13690	346.48258	13.63663	0.1657561	0.23841629	2.5757998	20	—	—
360455 2002 <i>QQ</i> ₆₃	17.0	X	161.75961	169.33942	142.41083	16.19475	0.0714524	0.24415765	2.5352599	20	—	—
360456 2002 <i>QV</i> ₇₉	17.0	X	50.14257	302.09738	96.22185	4.37606	0.1514937	0.23877105	2.5732478	20	—	—
360457 2002 <i>QU</i> ₁₄₅	17.0	X	51.10630	149.29463	252.96644	5.30820	0.1754799	0.23846962	2.5754157	20	—	—
360458 2002 <i>QQ</i> ₁₅₂	16.9	X	158.39196	325.56538	5.08902	8.57198	0.1568818	0.24627458	2.5207106	20	1 9.9	20.8
360459 2002 <i>QH</i> ₁₅₃	15.4	X	243.49631	274.10142	118.24322	10.69295	0.0410710	0.15640269	3.4117189	20	6 27.5	20.4
360460 2002 <i>QT</i> ₁₅₃	16.3	X	129.74295	218.65399	126.98776	15.75328	0.0959518	0.24351799	2.5396976	20	—	—
360461 2002 <i>RL</i>	16.6	X	189.27632	38.65569	265.01463	7.16663	0.2205623	0.24467412	2.5316910	20	1 7.1	20.9
360462 2002 <i>RT</i> ₁₃₉	16.5	X	112.26180	325.34210	48.38828	11.64666	0.2186617	0.24184739	2.5513798	20	1 22.8	20.1
360463 2002 <i>RO</i> ₁₉₉	17.1	X	100.06031	346.29936	21.33822	4.01823	0.1003794	0.23987979	2.5653125	20	—	—
360464 2002 <i>RH</i> ₂₃₉	17.0	X	18.98957	189.02188	211.01330	3.38703	0.1642627	0.23193802	2.6235424	20	—	—
360465 2002 <i>RS</i> ₂₄₃	16.6	X	10.72535	267.69671	169.88051	13.00862	0.1412504	0.23737252	2.5833451	20	—	—
360466 2002 <i>RW</i> ₂₄₄	16.9	X	28.03264	280.10125	114.11755	4.49884	0.2385272	0.23261743	2.6184315	20	—	—
360467 2002 <i>RT</i> ₂₆₅	17.4	X	142.71128	341.93349	23.83044	2.88025	0.1522408	0.24621546	2.5211141	20	2 5.0	21.0
360468 2002 <i>ST</i> ₂₈	16.7	X	53.96344	185.39068	193.65796	14.35400	0.2093200	0.23229370	2.6208637	20	—	—
360469 2002 <i>SP</i> ₄₀	16.6	X	101.85032	334.48589	39.53672	12.78956	0.1154134	0.24006134	2.5640190	20	—	—
360470 2002 <i>TL</i> ₂₂	15.9	X	120.87235	348.98274	11.74435	15.96669	0.1639464	0.24039459	2.5616488	20	1 9.5	20.7
360471 2002 <i>TO</i> ₃₅	16.8	X	349.91416	236.21931	176.30252	7.63778	0.2778491	0.22457630	2.6805676	20	—	—
360472 2002 <i>TG</i> ₃₈	16.2	X	19.73363	181.40494								

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360481 2002 <i>TS</i> ₃₆₉	16.4	X	251.84633	53.81890	151.86122	12.24139	0.1360293	0.23330999	2.6132472	20	—	—
360482 2002 <i>UK</i> ₈	16.7	X	43.49516	312.25184	93.72739	11.48721	0.2004770	0.23176293	2.6248636	20	—	—
360483 2002 <i>UE</i> ₃₆	16.8	X	11.57313	353.25211	68.48569	3.05289	0.0808083	0.22874789	2.6478781	20	—	—
360484 2002 <i>UR</i> ₅₀	16.6	X	300.62216	18.08577	233.37226	13.80766	0.1552038	0.25950620	2.4342820	20	2 10.7	20.3
360485 2002 <i>UE</i> ₆₅	16.7	X	270.15812	171.74449	24.89363	9.31754	0.1027425	0.23832875	2.5764304	20	—	—
360486 2002 <i>UB</i> ₇₃	17.1	X	39.01995	219.65918	151.99798	5.32839	0.1033672	0.22692062	2.6620737	20	—	—
360487 2002 <i>VK</i> ₁	17.4	X	229.69199	19.75151	189.39577	2.60339	0.0380998	0.22949690	2.6421137	20	—	—
360488 2002 <i>VM</i> ₅₃	16.4	X	82.69077	315.94459	57.53578	13.87240	0.1515760	0.23301444	2.6154564	20	—	—
360489 2002 <i>VB</i> ₇₄	16.7	X	107.22640	298.84059	54.15068	13.50019	0.1929656	0.23611596	2.5925023	20	—	—
360490 2002 <i>VY</i> ₇₅	16.7	X	353.06380	239.56595	195.62279	7.93262	0.1897365	0.22719387	2.6599388	20	—	—
360491 2002 <i>VB</i> ₉₂	16.9	X	138.88330	258.89851	224.47544	36.87859	0.3397193	0.31028000	2.1608943	20	6 30.2	21.6
360492 2002 <i>VF</i> ₁₀₂	16.6	X	287.00093	98.67822	341.29910	3.25185	0.2247791	0.21693331	2.7431647	20	10 4.5	19.6
360493 2002 <i>VO</i> ₁₀₇	16.3	X	284.16936	163.73987	271.46507	8.71235	0.2041348	0.21478279	2.7614450	20	9 21.6	19.7
360494 2002 <i>VX</i> ₁₁₈	15.9	X	357.31675	1.15142	45.32300	15.38265	0.1091209	0.22230253	2.6988150	20	—	—
360495 2002 <i>VQ</i> ₁₄₂	16.5	X	292.48115	59.23446	60.64216	13.93406	0.1481767	0.22274012	2.6952791	20	12 21.1	19.5
360496 2002 <i>XO</i> ₆	15.8	X	8.06760	9.70530	56.81252	22.67195	0.0252937	0.22805279	2.6532558	20	—	—
360497 2002 <i>XO</i> ₁₀	16.8	X	348.24302	215.65405	203.26294	5.37153	0.1881446	0.22249460	2.6972616	20	—	—
360498 2002 <i>XO</i> ₁₉	16.2	X	33.62815	335.33299	44.04254	14.56343	0.1315109	0.22546538	2.6735161	20	—	—
360499 2002 <i>XK</i> ₅₃	16.2	X	293.88057	14.16410	81.98086	10.94772	0.1981719	0.21829430	2.7317510	20	11 17.3	19.0
360500 2003 <i>AK</i> ₅	15.9	X	125.45509	338.63488	137.39372	12.14846	0.1708957	0.18949157	3.0019914	20	6 9.0	20.8
360501 2003 <i>BW</i> ₁₄	16.3	X	234.65773	30.53164	126.79866	13.59955	0.1753988	0.20994582	2.8036979	20	11 13.5	20.6
360502 2003 <i>EO</i> ₁₆	20.5	X	210.03310	167.91935	177.94829	13.22773	0.2494491	1.09141417	0.9342784	20	—	—
360503 2003 <i>GE</i> ₄₉	17.0	X	349.20101	150.59304	104.47797	7.37329	0.0741560	0.29053933	2.2576993	20	5 21.6	19.2
360504 2003 <i>HH</i> ₃₃	17.3	X	351.93083	77.08634	206.89057	6.13607	0.2036726	0.29612722	2.2292075	20	7 11.9	18.6
360505 2003 <i>HM</i> ₅₅	17.4	X	348.83426	222.80434	66.54022	7.54857	0.1832622	0.29465829	2.2366101	20	7 15.8	18.8
360506 2003 <i>JL</i> ₁₄	15.5	X	50.10959	101.08817	205.81984	18.28664	0.2792657	0.18734777	3.0248489	20	11 24.6	20.1
360507 2003 <i>MK</i> ₈	16.6	X	65.13975	98.42194	182.30982	6.77622	0.2453665	0.18772115	3.0208367	20	11 5.4	21.2
360508 2003 <i>NN</i> ₁₂	15.9	X	85.48376	106.51304	149.87845	19.65584	0.2454459	0.18404483	3.0609317	20	10 30.3	21.2
360509 2003 <i>OD</i> ₃	17.1	X	288.49939	188.69508	151.87178	11.48338	0.2895967	0.28208905	2.3025650	20	5 14.5	20.2
360510 2003 <i>OQ</i> ₄	17.1	X	255.26313	181.05594	131.84027	8.65018	0.1880863	0.27682135	2.3316839	20	3 13.9	20.6
360511 2003 <i>OE</i> ₇	17.3	X	272.20102	127.75548	179.29311	4.18427	0.2504384	0.27814769	2.3242656	20	3 14.0	20.6
360512 2003 <i>OU</i> ₁₄	16.8	X	26.73553	116.34094	205.08342	11.93203	0.3462358	0.17970485	3.1100176	20	11 22.7	20.8
360513 2003 <i>QE</i> ₃	18.0	X	301.36768	83.18262	210.92375	2.09903	0.2143117	0.28034094	2.3121271	20	4 4.2	20.6
360514 2003 <i>QM</i> ₅	16.3	X	257.14015	69.94420	248.51100	22.72041	0.1600046	0.27578838	2.3375024	20	3 12.9	20.3
360515 2003 <i>QO</i> ₉	17.7	X	281.58724	150.74446	163.98934	5.31728	0.2460457	0.27942036	2.3172027	20	4 4.6	20.8
360516 2003 <i>QQ</i> ₁₁	17.0	X	262.37327	190.24511	121.83031	3.16276	0.2177443	0.27626767	2.3347982	20	3 15.9	20.5
360517 2003 <i>QH</i> ₁₈	17.6	X	281.36883	340.80032	302.92718	1.59537	0.2127389	0.27542396	2.3395639	20	2 26.0	20.9
360518 2003 <i>QX</i> ₃₃	16.9	X	238.69415	358.16743	318.31303	5.08847	0.2090531	0.27302208	2.3532652	20	2 27.6	20.8
360519 2003 <i>QF</i> ₄₉	15.6	X	357.11763	197.72205	129.90883	6.13448	0.1721009	0.17456991	3.1707095	20	9 14.1	19.1
360520 2003 <i>QY</i> ₅₂	17.3	X	304.96449	293.95949	355.40868	4.61741	0.1842578	0.28021407	2.3128249	20	4 6.9	19.9
360521 2003 <i>QD</i> ₆₂	17.3	X	214.15021	308.01476	40.03774	4.52931	0.3316545	0.26964013	2.3729014	20	3 17.4	21.7
360522 2003 <i>QQ</i> ₇₁	16.8	X	280.46372	138.63009	190.63006	22.63480	0.2168325	0.27909281	2.3190153	20	4 27.9	20.0
360523 2003 <i>QS</i> ₇₉	16.3	X	51.08224	101.84855	183.58177	14.86774	0.3697467	0.18195631	3.0843096	20	11 11.9	21.1
360524 2003 <i>QW</i> ₈₄	15.8	X	54.36601	105.03577	186.48902	19.03694	0.2151591	0.18114337	3.0935307	20	11 2.8	20.4
360525 2003 <i>QK</i> ₁₀₁	17.2	X	270.17276	354.20283	340.63077	7.15582	0.1435282	0.27925550	2.3181145	20	4 27.9	20.4
360526 2003 <i>QU</i> ₁₁₄	15.6	X	61.72694	113.17432	176.23104	16.29710	0.2106079	0.18130129	3.0917340	20	11 8.5	20.4
360527 2003 <i>RN</i> ₁₁	16.5	X	210.31462	140.94799	189.31674	25.99756	0.2688128	0.26851097	2.3795492	20	2 18.4	21.1
360528 2003 <i>RL</i> ₂₀	17.0	X	218.18061	313.80518	16.72332	5.13175	0.1626739	0.26880739	2.3777996	20	3 2.6	20.7
360529 2003 <i>SG</i> ₃₄	17.3	X	106.17730	231.67690	159.22032	2.82031	0.2183754	0.25701990	2.4499556	20	1 31.7	20.4
360530 2003 <i>SE</i> ₄₂	18.0	X	169.28127	121.81183	185.79909	21.28713	0.0881205	0.37512155	1.9040925	20	—	—
360531 2003 <i>SD</i> ₇₉	15.0	X	42.17525	276.39721	355.46813	31.88489	0.1939003	0.17202443	3.2019113	20	9 17.5	19.2
360532 2003 <i>SB</i> ₉₁	18.0	X	214.18431	258.95967	72.63974	3.33888	0.1903506	0.26856149	2.3792508	20	2 28.9	21.9
360533 2003 <i>ST</i> ₉₄	17.0	X	204.63635	49.67102	281.51709	6.09324	0.1424655	0.26630629	2.3926643	20	2 16.5	20.8
360534 2003 <i>SG</i> ₁₁₂	17.9	X	279.69544	126.94849	193.18724	2.22227	0.2079972	0.27701021	2.3306239	20	4 13.9	20.9
360535 2003 <i>SN</i> ₁₂₄	17.6	X	180.10482	323.40106	14.07900	7.96116	0.0947332	0.26111119	2.4242964	20	2 4.1	21.2
360536 2003 <i>SM</i> ₁₂₈	17.1	X	278.08280	301.10578	20.13629	11.14469	0.2229219	0.27593255	2.3366882	20	4 11.1	20.0
360537 2003 <i>SB</i> ₁₃₁	17.8	X	81.10952	150.42242	203.60487	22.99147	0.0832162	0.36638425	1.9342452	20	—	—
360538 2003 <i>SA</i> ₁₄₅	17.3	X	359.64988	204.28331	208.37260	20.71052	0.0779283	0.35993512	1.9572812	20	—	—
360539 2003 <i>SE</i> ₁₇₁	15.1	X	359.88182	261.78150	69.76092	18.98820	0.2621241	0.17378663	3.1802296	20	10 12.9	18.7
360540 2003 <i>SQ</i> ₁₉₇	15.5	X	57.93598	125.21211	175.77979	15.85127	0.1927524	0.17899565	3.1182270	20	11 15.4	20.2
360541 2003 <i>SY</i> ₂₀₇	17.0	X	157.33440	179.91901	192.43779	5.95777	0.1536674	0.26156694	2.4214796	20	2 24.0	20.6
360542 2003 <i>SX</i> ₂₁₂	17.0	X	242.58289	192.46498	118.71382	11.09900	0.258294	0.27177539	2.3604563	20	2 27.2	20.9
360543 2003 <i>SF</i> ₂₂₈	17.2	X	172.80965	322.91077	29.01162	6.41437	0.2005915	0.26158275	2.4213820	20	2 20.6	21.2
360544 2003 <i>SV</i> ₂₃₃	17.7	X	218.74543	282.45518	56.40371	3.18752	0.2139179	0.27068168	2.3668104	20	3 11.9	21.7
360545 2003 <i>SQ</i> ₂₆₃	17.2	X	189.04913	184.07923	174.60757	6.59056	0.1500048	0.26615678	2.3935602	20	3 9.1	21.0
360546 2003 <i>SZ</i> ₂₈₂	16.4	X	30.91640	175.26564	278.78293	7.08288	0.0934638	0.25608874	2.4558909	20	—	—
360547 2003 <i>SF</i> ₂₉₄	17.5	X	79.02802	336.15712	33.62523	22.87991	0.0805542	0.36507007	1.9388843	20	—	—
360548 2003 <i>SQ</i> ₃₁₃	17.1	X	162.70201	220.61607	157.10412	5.59816	0.2398806	0.26386069	2.4074258	20	3 14.4	21.0
360549 2003 <i>SS</i> ₃₁₉	17.5	X	260.81756	166.88758	153.38665	6.89711	0.1180891	0.27246139	2.3564926	20	4 5.8	20.7
360550 2003 <i>SR</i> ₃₂₈	18.1	X	279.83919	147.03479	146.26653	1.90807	0.1847865	0.27329271	2.3517113	20	3 13.2	21.1
360551 2003 <i>SS</i> ₃₂₈	17.9	X	281.32651	244.91631	48.65294	2.04305	0.1762818	0.27347514	2.3506654	20	3 16.5	21.0
360552 2003 <i>SD</i> ₃₃₂												

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360561 2003 TG ₃₇	17.8	X	46.06030	53.43934	22.24470	15.30088	0.1068940	0.25334411	2.4735964	20	—	—
360562 2003 TM ₅₀	15.8	X	64.27703	46.83337	237.30375	15.22423	0.1702405	0.17843469	3.1247589	20	10 25.6	20.5
360563 2003 UM ₁₂	18.7	X	319.54614	296.27424	13.27629	1.20079	0.4123305	0.28340202	2.2954478	20	4 19.3	20.9
360564 2003 UM ₁₃	17.2	X	267.64638	131.87566	356.08181	19.17658	0.0660819	0.35601001	1.9716413	20	—	—
360565 2003 UT ₄₆	17.8	X	241.21682	131.29213	195.14378	1.93579	0.2148447	0.27064540	2.3670219	20	3 13.5	21.5
360566 2003 UX ₄₆	17.4	X	359.68931	197.04645	220.19057	4.35385	0.2681576	0.23956686	2.5675459	20	—	—
360567 2003 UV ₄₈	16.6	X	222.50387	284.37340	62.16855	13.12341	0.1585528	0.26827866	2.3809227	20	4 1.0	20.5
360568 2003 UO ₆₆	16.4	X	210.60036	302.45229	75.24258	14.30003	0.2445975	0.27105734	2.3646231	20	4 25.4	20.6
360569 2003 UP ₉₃	17.3	X	259.36924	115.39694	216.59876	5.98808	0.1387226	0.27371305	2.3493031	20	4 14.5	20.5
360570 2003 UN ₉₅	16.8	X	128.90227	355.35451	29.00573	7.12363	0.1336913	0.25839971	2.4412263	20	2 11.4	20.2
360571 2003 UL ₁₁₅	17.0	X	83.08575	31.97120	8.24613	6.17647	0.1246400	0.25194356	2.4827551	20	—	—
360572 2003 UU ₁₂₃	16.7	X	214.79187	300.28790	50.33883	6.81198	0.1380333	0.26667949	2.3904315	20	3 26.8	20.4
360573 2003 UU ₁₂₈	17.2	X	176.49434	327.89516	25.82610	2.41131	0.2084120	0.26216235	2.4178118	20	2 24.4	21.1
360574 2003 UG ₁₅₆	17.0	X	130.37654	234.12146	168.26340	6.99573	0.1410424	0.26142661	2.4223461	20	3 4.6	20.2
360575 2003 UT ₁₆₀	17.6	X	333.72080	226.72139	223.25692	5.58821	0.2792298	0.23880419	2.5730097	20	—	—
360576 2003 UZ ₁₈₆	17.3	X	13.95517	292.07072	141.12641	4.91015	0.1953660	0.24441585	2.5334741	20	—	—
360577 2003 UL ₁₉₁	17.3	X	245.76911	206.64695	120.74284	4.58609	0.2431541	0.27060101	2.3672808	20	3 19.1	21.2
360578 2003 UH ₂₀₃	17.0	X	133.01886	347.86589	20.71885	6.77279	0.1636877	0.25611720	2.4557089	20	1 30.5	20.5
360579 2003 UX ₂₀₃	17.5	X	237.90308	302.39305	19.52607	2.67028	0.2279064	0.26839921	2.3802098	20	3 5.8	21.3
360580 2003 UB ₂₄₁	17.4	X	343.15534	177.92041	266.70485	4.20009	0.2270462	0.23958613	2.5674083	20	—	—
360581 2003 UU ₂₇₇	15.2	X	220.20110	321.25918	44.84649	10.88216	0.0921083	0.15256503	3.4686945	20	4 26.3	20.5
360582 2003 UZ ₃₁₇	17.9	X	297.84758	231.61875	32.97349	4.53155	0.0716777	0.26975472	2.3722294	20	3 15.3	20.7
360583 2003 UY ₃₂₄	15.6	X	227.91736	240.28546	206.13065	17.03831	0.1227723	0.17220889	3.1996244	20	8 2.4	20.8
360584 2003 UY ₃₃₁	17.4	X	1.20437	271.06123	208.97424	5.78454	0.0836537	0.25541675	2.4601965	20	—	—
360585 2003 UW ₃₅₇	17.7	X	285.10557	137.31726	168.44121	1.03884	0.1871689	0.27382723	2.3486499	20	4 4.1	20.6
360586 2003 UD ₃₆₂	17.3	X	263.28241	178.00734	110.13384	5.72153	0.1187226	0.26711568	2.3878285	20	2 26.4	20.6
360587 2003 UE ₄₀₆	16.9	X	260.55069	236.53347	51.99100	7.19875	0.1582463	0.26815615	2.3816478	20	2 21.7	20.5
360588 2003 WF ₇₅	16.8	X	172.22892	327.56495	8.03795	6.15887	0.1543889	0.25646865	2.4534650	20	1 28.2	20.6
360589 2003 WN ₇₉	16.6	X	137.91664	339.47057	41.18196	7.61430	0.1297225	0.25661794	2.4525133	20	2 17.3	20.1
360590 2003 WV ₁₀₈	17.0	X	117.69621	36.50704	14.12346	5.22813	0.1057719	0.25826247	2.4420910	20	2 26.7	20.1
360591 2003 WQ ₁₃₈	16.3	X	289.55626	57.69390	72.40100	31.30665	0.2968903	0.23229850	2.6208276	20	12 14.6	18.4
360592 2003 WA ₁₄₈	17.3	X	49.14690	287.12045	76.51037	24.00872	0.0948256	0.35778452	1.9651167	20	—	—
360593 2003 WF ₁₅₉	17.2	X	37.56873	256.62182	93.63908	24.69619	0.0873454	0.35369758	1.9802255	20	—	—
360594 2003 YA ₄₄	17.7	X	334.16695	152.95646	305.62742	2.75316	0.1879574	0.23451492	2.6042883	20	—	—
360595 2003 YZ ₄₅	17.6	X	349.95910	58.38704	357.51248	3.82559	0.2605476	0.23537335	2.5979524	20	—	—
360596 2003 YR ₅₆	17.0	X	338.46329	12.52884	87.33688	13.45452	0.1310669	0.23795911	2.5790979	20	—	—
360597 2003 YX ₇₇	15.9	X	55.75416	294.26568	93.55737	27.65553	0.0510941	0.23804005	2.5785132	20	—	—
360598 2003 YK ₉₁	17.4	X	345.20802	248.80533	190.69247	4.68321	0.2566018	0.23499104	2.6007694	20	—	—
360599 2003 YE ₁₂₈	16.8	X	355.61468	24.21084	56.15345	8.39289	0.1578485	0.23576374	2.5950837	20	—	—
360600 2003 YZ ₁₆₆	16.2	X	324.06261	45.20617	111.30744	13.97131	0.1098017	0.24108936	2.5567250	20	—	—
360601 2003 YL ₁₆₈	16.7	X	331.15521	95.47324	50.89495	6.39468	0.0945061	0.24201281	2.5502171	20	—	—
360602 2003 YL ₁₇₁	16.9	X	13.48462	40.81176	56.40616	6.38986	0.0904934	0.24137392	2.5547152	20	—	—
360603 2004 BO ₈	17.1	X	234.47559	84.21683	134.74131	9.17095	0.1284874	0.23362416	2.6109039	20	—	—
360604 2004 BY ₅₂	16.9	X	1.16037	105.28008	306.30912	5.66413	0.0659722	0.23034192	2.6356479	20	—	—
360605 2004 BM ₇₁	16.6	X	17.71257	322.03662	127.52060	11.75616	0.1253533	0.23793676	2.5792594	20	—	—
360606 2004 BO ₇₁	16.6	X	260.84231	194.16552	341.54513	5.75211	0.1624462	0.22962186	2.6411550	20	—	—
360607 2004 BF ₈₂	16.5	X	272.36028	22.40710	159.59976	13.66911	0.1916030	0.23250036	2.6193104	20	—	—
360608 2004 BF ₈₃	17.0	X	301.57783	340.10642	130.20788	11.86959	0.1436463	0.23027751	2.6361394	20	12 29.2	19.8
360609 2004 BY ₈₅	16.2	X	328.59291	314.01106	134.29689	33.04317	0.2615077	0.23376150	2.6098811	20	—	—
360610 2004 BH ₁₁₃	16.9	X	297.48921	69.90399	59.80595	12.67539	0.2389358	0.23162001	2.6259432	20	—	—
360611 2004 BU ₁₁₈	16.6	X	322.52526	55.17389	35.30457	15.50212	0.2295745	0.23035276	2.6355652	20	—	—
360612 2004 CM ₁₂₆	17.3	X	65.20443	70.37734	310.63977	3.46296	0.0932788	0.23680697	2.5874565	20	—	—
360613 2004 CF ₆	17.3	X	286.64707	55.29532	86.66253	5.05466	0.1492097	0.22937549	2.6430459	20	—	—
360614 2004 CS ₅₄	17.1	X	263.27627	209.71231	307.89546	2.74748	0.1949315	0.22636371	2.6664382	20	12 25.0	20.3
360615 2004 CJ ₅₈	16.8	X	320.85313	84.60854	24.37852	8.31379	0.1520284	0.23154327	2.6265234	20	—	—
360616 2004 CP ₇₉	17.1	X	296.58210	1.87753	138.24388	8.62294	0.1319600	0.22956802	2.6415680	20	—	—
360617 2004 CM ₈₁	16.6	X	331.99048	109.84525	326.89187	14.27095	0.0995684	0.22760040	2.6567705	20	—	—
360618 2004 CT ₁₀₄	17.2	X	283.90416	306.47868	177.47315	4.32099	0.3567266	0.22665726	2.6641354	20	11 12.3	19.5
360619 2004 DX ₆	16.1	X	235.81260	212.84028	339.30081	12.85796	0.0903243	0.22626476	2.6672155	20	—	—
360620 2004 DU ₃₂	16.6	X	259.31565	174.57566	6.47822	4.84448	0.1516616	0.22796966	2.6539008	20	—	—
360621 2004 DC ₃₉	16.6	X	28.59419	264.70808	145.67913	13.18153	0.1803145	0.23346182	2.6121141	20	—	—
360622 2004 DW ₅₅	17.6	X	261.80627	185.08274	317.13919	1.58159	0.1077792	0.22462040	2.6802167	20	12 7.7	20.7
360623 2004 DS ₅₇	17.3	X	302.01026	337.54471	106.12882	2.19207	0.1859076	0.22480085	2.6787823	20	11 17.5	19.7
360624 2004 EU ₃₂	16.3	X	240.31634	238.04323	306.23431	11.94318	0.2030133	0.22324988	2.6911747	20	12 18.3	20.0
360625 2004 ES ₃₄	16.2	X	234.76102	165.35652	14.44178	15.19172	0.1116938	0.22163114	2.7042626	20	12 16.6	20.2
360626 2004 EV ₄₆	16.5	X	29.12563	357.95906	17.93582	3.43892	0.0873223	0.22202761	2.7010424	20	—	—
360627 2004 EP ₄₉	16.5	X	14.38428	351.81526	28.10961	10.88427	0.0720833	0.22075153	2.7114415	20	12 16.7	20.2
360628 2004 ET ₅₃	16.4	X	225.15636	142.84250	73.05612	7.04691	0.1334271	0.22439219	2.6820337	20	—	—
360629 2004 EM ₈₁	16.0	X	250.77745	121.85981	60.66782	14.51788	0.1663841	0.22483239	2.6785317	20	—	—
360630 2004 EG ₉₅	16.6	X	243.48411	28.97992	163.58742	14.29461	0.1916887	0.22646179	2.6656682	20	—	—
360631 2004 FT ₄₄	15.8	X	161.47304	78.43032	179.13866	25.03217	0.1051060	0.21952769	2.7215094	20	12 31.7	20.5
360632 2004 FL ₅₃	16.5	X	237.41220	241.39045	328.28348	10.81976	0.1486348	0.22909033	2.6452388	20	—	—
360633 2004 FD ₅₈	16.4	X	318.39337	92.17166	13.90820	15.15790	0.1206806	0.22714836	2.6602940	20	—	—
360634 2004 FK ₉₆	16.3	X	236.06500	176.15384	23.67023	17.29647	0.1310546	0.22577512	2.6710703	20	—	—
360635 2004 FB ₁₀₁	17.0	X	211.82090	70.49659								

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
360641 2004 HU ₇	16.5	X	242.38194	68.19069	82.71274	4.63509	0.1306129	0.21658894	2.7460717	20	11 18.1	20.1
360642 2004 HM ₅₀	17.0	X	177.87448	104.02624	181.43598	6.85570	0.4483805	0.21657981	2.7461488	20	—	—
360643 2004 HY ₅₃	16.9	X	1.11807	334.06797	353.98967	6.32626	0.2458492	0.31996318	2.1170740	20	11 7.5	18.6
360644 2004 JL ₄₅	16.0	X	125.60490	212.28545	82.65798	14.94372	0.1831414	0.21224481	2.7834152	20	—	—
360645 2004 KF ₁₄	16.0	X	211.59313	352.35209	206.28056	19.58186	0.1981298	0.21629263	2.7485791	20	12 3.1	20.5
360646 2004 LF ₁₆	16.0	X	143.22415	190.42335	124.93375	17.81553	0.2798507	0.21185068	2.7868663	20	—	—
360647 2004 LJ ₁₈	16.2	X	199.44019	115.74668	117.67643	12.05814	0.2523545	0.21782677	2.7356585	20	12 27.9	20.6
360648 2004 NE ₄	15.1	X	19.33657	305.28481	53.51620	15.87278	0.1661378	0.19481347	2.9470673	20	12 2.4	18.8
360649 2004 OA ₆	16.5	X	77.55031	300.31294	0.71205	5.41288	0.2880135	0.20030713	2.8929335	20	12 14.0	21.4
360650 2004 PW ₇	15.5	X	350.63506	162.59515	161.03708	17.32078	0.1045207	0.18476043	3.0530230	20	8 23.8	19.2
360651 2004 QY ₆	17.8	X	305.71600	290.62223	40.19705	6.03422	0.2253007	0.30291678	2.1957716	20	6 3.2	19.6
360652 2004 QD ₁₈	15.8	X	42.75485	122.66228	158.35045	11.70283	0.0429606	0.18727342	3.0256496	20	9 10.6	19.8
360653 2004 RV ₈	17.5	X	326.70551	348.30661	336.60345	4.76852	0.2018620	0.30450771	2.1881169	20	7 21.5	18.5
360654 2004 RK ₁₀	17.1	X	214.44591	23.40458	348.20918	23.41165	0.2035590	0.29148783	2.2527990	20	4 5.6	21.1
360655 2004 RO ₂₂	16.2	X	81.12705	311.73045	352.07958	8.09510	0.2187142	0.19701647	2.9250572	20	12 13.8	21.1
360656 2004 RG ₂₄	15.1	X	300.58987	285.65373	52.92124	26.75991	0.2249905	0.17505329	3.1648699	20	6 1.2	19.3
360657 2004 RL ₂₈	16.0	X	13.51892	328.90312	344.98597	9.27254	0.1266687	0.18654368	3.0335351	20	9 19.3	19.6
360658 2004 RS ₅₄	17.6	X	344.85514	174.63123	154.71034	5.72273	0.2680283	0.30863258	2.1685771	20	10 5.8	18.3
360659 2004 RR ₆₃	16.0	X	328.69231	175.17168	170.49817	10.07922	0.1817832	0.18111181	3.0938900	20	8 10.0	19.4
360660 2004 RM ₇₃	17.7	X	322.65875	170.29704	159.47128	4.96403	0.2140299	0.30387857	2.1911360	20	7 15.1	18.9
360661 2004 RD ₇₆	17.5	X	307.37108	183.19197	145.91545	7.09151	0.2206156	0.30099447	2.2051106	20	6 6.9	19.5
360662 2004 RB ₁₀₄	17.7	X	324.66221	52.33211	247.20363	4.94643	0.2081675	0.30086352	2.2057504	20	5 26.0	19.1
360663 2004 RR ₁₁₇	16.1	X	114.81150	55.54824	164.71874	15.34040	0.0559152	0.18737598	3.0245454	20	9 25.5	20.5
360664 2004 RB ₁₃₆	16.5	X	329.47997	307.44363	39.51797	3.27261	0.0593671	0.18241019	3.0791912	20	8 24.3	20.5
360665 2004 RY ₁₄₈	17.9	X	311.13234	145.21181	185.84252	4.08552	0.1741201	0.30259333	2.1973360	20	6 25.8	19.7
360666 2004 RE ₁₅₅	15.4	X	267.43412	23.82116	339.97217	28.01483	0.2021955	0.17233531	3.1980595	20	5 21.5	20.7
360667 2004 RD ₁₆₃	18.0	X	145.32210	254.39745	165.42464	3.22563	0.1950043	0.28520831	2.2857458	20	4 17.2	21.4
360668 2004 RT ₁₆₇	16.1	X	15.38419	99.24086	222.59508	7.71768	0.1213114	0.18595172	3.0399697	20	10 1.3	19.9
360669 2004 RT ₁₇₂	16.3	X	235.47878	239.08463	197.43473	12.51292	0.0452044	0.18093805	3.0958704	20	8 9.8	20.9
360670 2004 RL ₁₇₅	15.5	X	203.42844	206.02059	183.65098	26.18308	0.2723090	0.16523375	3.2890479	20	5 3.3	21.5
360671 2004 RV ₁₇₇	15.6	X	292.99226	180.30001	195.07934	17.14933	0.2019308	0.17847274	3.1243148	20	7 13.8	20.0
360672 2004 RF ₁₈₆	16.0	X	24.27880	143.53478	183.32744	8.73408	0.0885074	0.18986875	2.9980144	20	10 21.1	19.8
360673 2004 RD ₂₁₂	15.6	X	358.10008	27.22511	305.34272	12.42138	0.0745455	0.18402534	3.0611478	20	9 10.2	19.7
360674 2004 RJ ₂₁₆	15.5	X	303.26170	354.76981	345.17144	26.92942	0.1637992	0.17458812	3.1704891	20	6 24.6	20.1
360675 2004 RL ₂₂₅	15.9	X	275.83349	215.12787	161.01532	10.44016	0.1076834	0.17586618	3.1551100	20	7 7.7	20.5
360676 2004 RN ₂₂₅	17.8	X	76.36815	40.45567	10.38888	3.98311	0.2224585	0.27038924	2.3685167	20	1 10.2	19.8
360677 2004 RV ₂₃₈	16.5	X	270.84024	203.41564	182.44142	4.34570	0.1508644	0.17584092	3.1554121	20	7 7.5	21.0
360678 2004 RN ₂₄₃	15.8	X	146.96528	350.03768	163.90651	9.21840	0.2268181	0.17784981	3.1316059	20	8 12.6	21.2
360679 2004 RJ ₂₅₅	15.4	X	291.53439	316.39924	50.89299	17.91166	0.2212264	0.17613925	3.1518482	20	6 30.2	19.8
360680 2004 RJ ₂₆₈	16.0	X	128.68538	57.96993	172.69008	12.52910	0.1008365	0.19164056	2.9795072	20	10 27.4	20.7
360681 2004 RE ₂₇₂	16.6	X	343.00347	182.03990	154.51104	4.33337	0.0626942	0.18288065	3.0739081	20	8 29.2	20.3
360682 2004 RT ₂₇₄	15.6	X	344.27154	341.42429	335.05013	23.59283	0.1501148	0.17694766	3.1422410	20	8 8.9	19.4
360683 2004 RA ₂₉₉	16.5	X	41.61792	125.91464	169.66514	5.73380	0.2516278	0.18869671	3.0104159	20	10 29.3	20.5
360684 2004 RJ ₃₁₁	15.6	X	340.84290	316.29739	19.40707	10.43573	0.0980030	0.17997255	3.1069328	20	8 28.7	19.5
360685 2004 RS ₃₁₇	16.1	X	81.79182	80.59631	217.18077	9.17802	0.0575944	0.19421319	2.9531368	20	11 21.9	20.3
360686 2004 RE ₃₃₄	16.0	X	66.80966	278.86051	67.85275	8.55557	0.2495803	0.19874170	2.9081048	20	—	—
360687 2004 RP ₃₄₀	15.9	X	29.82302	270.12967	78.08235	13.34192	0.2326769	0.19132398	2.9827930	20	12 14.1	19.9
360688 2004 RU ₃₅₆	16.1	X	315.63528	129.82377	201.86607	8.51699	0.1236446	0.17773609	3.1329417	20	7 4.4	20.1
360689 2004 SB ₁₉	17.9	X	303.98224	129.02980	208.36452	3.76943	0.1704966	0.30152168	2.2025394	20	6 22.4	19.7
360690 2004 SV ₂₀	17.5	X	41.77641	290.16510	6.86085	6.77993	0.2525251	0.31395943	2.1439782	20	11 20.9	20.4
360691 2004 SA ₃₂	17.5	X	330.85164	304.80142	12.85085	5.40416	0.1729970	0.30265909	2.1970178	20	7 22.5	18.9
360692 2004 SQ ₃₇	16.3	X	108.59645	331.53905	190.27965	9.46750	0.0644337	0.17393899	3.1783722	20	7 3.7	21.1
360693 2004 SF ₄₇	17.5	X	287.52844	357.90934	339.38867	4.52110	0.2100221	0.29807959	2.2194629	20	5 15.6	20.1
360694 2004 SA ₄₉	18.0	X	21.03244	254.80413	29.50606	3.40555	0.1837536	0.30894911	2.1670957	20	9 24.9	19.9
360695 2004 SH ₄₉	15.8	X	331.32342	316.11671	39.78781	19.82876	0.1708994	0.18310653	3.0713796	20	9 14.3	19.6
360696 2004 SE ₅₈	15.7	X	303.81925	185.49237	192.95390	15.84488	0.1568726	0.17773314	3.1329762	20	8 10.1	19.8
360697 2004 TP ₉	17.0	X	159.39332	9.62199	24.98561	26.23910	0.2256991	0.28217851	2.3020783	20	4 4.2	20.8
360698 2004 TP ₁₂	17.7	X	245.58392	96.87538	224.59531	24.78458	0.1587621	0.41173487	1.7894694	20	2 22.6	20.7
360699 2004 TM ₂₀	18.1	X	73.73794	84.17020	3.30828	2.69944	0.1465838	0.27400914	2.3476103	20	2 16.1	20.3
360700 2004 TX ₂₀	18.2	X	210.21740	351.49007	15.55126	4.50764	0.1627924	0.28671399	2.2777364	20	4 7.5	21.7
360701 2004 TP ₃₂	17.6	X	299.01636	70.48071	276.13963	2.52859	0.1643605	0.29982195	2.2108559	20	6 29.2	19.7
360702 2004 TD ₃₃	17.4	X	128.96129	72.04595	359.14723	5.73297	0.1359241	0.28147176	2.3059302	20	4 6.9	20.5
360703 2004 TD ₃₄	17.6	X	91.05788	253.88998	236.90648	2.31542	0.1007849	0.28512405	2.2861961	20	5 6.7	20.2
360704 2004 TX ₃₈	17.7	X	4.52078	259.70891	31.66369	4.62076	0.1410453	0.30292136	2.1957494	20	8 27.1	19.4
360705 2004 TX ₅₀	17.7	X	221.53539	117.72566	268.82369	2.11540	0.1678141	0.29015739	2.2596801	20	5 13.6	21.0
360706 2004 TF ₅₂	15.0	X	293.31643	327.99789	34.81204	19.29500	0.1244328	0.17196013	3.2027094	20	7 15.7	19.6
360707 2004 TC ₅₆	15.3	X	212.06945	9.21313	43.82096	19.70444	0.1379730	0.16461285	3.2973133	20	6 6.4	20.7
360708 2004 TZ ₆₆	15.3	X	0.52341	300.93785	53.98761	7.75733	0.2857673	0.18536307	3.0464022	20	11 11.9	18.2
360709 2004 TG ₇₄	17.4	X	66.34444	54.89373	351.24490	2.49474	0.2161960	0.26558815	2.3969754	20	—	—
360710 2004 TH ₇₉	17.3	X	272.42277	326.38102	5.64471	6.67368	0.2326470	0.29392703	2.2403182	20	4 15.8	20.4
360711 2004 TZ ₈₉	17.6	X	162.49900	39.30706	358.94959	5.48039	0.0684946	0.28276746	2.2988807	20	3 26.7	20.6
360712 2004 TL ₉₃	16.1	X	25.51774	296.60036	16.71924	4.45754	0.2590047	0.18548816	3.0450324	20	10 27.5	19.9
360713 2004 TO ₁₀₂	16.9	X	210.18929	116.54922	220.85119	8.59035	0.1814455	0.28284559	2.29			

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
360721	2004	<i>TX</i> ₁₃₇	17.4	X	129.06124	79.54217	335.44431	4.84939	0.2183702	0.27775999	2.3264279	20	3 25.9	20.8
360722	2004	<i>TS</i> ₁₃₉	15.4	X	321.58872	334.10675	29.25177	21.64784	0.3116806	0.17828552	3.1265017	20	8 19.3	18.8
360723	2004	<i>TD</i> ₁₅₂	17.8	X	57.42721	285.10412	206.83973	4.88534	0.1665402	0.27833605	2.3232168	20	3 24.3	19.8
360724	2004	<i>TD</i> ₁₇₉	18.0	X	18.68492	88.39779	188.72954	4.17995	0.1816520	0.30563140	2.1827503	20	9 5.3	19.8
360725	2004	<i>TT</i> ₂₀₁	17.4	X	268.76192	55.39580	246.61967	5.69737	0.2005326	0.28546777	2.2843606	20	3 5.9	20.8
360726	2004	<i>TD</i> ₂₂₅	16.5	X	338.38326	132.02345	187.52568	6.49588	0.1954833	0.17832270	3.1260671	20	7 22.6	19.8
360727	2004	<i>TN</i> ₂₂₆	16.1	X	331.81664	320.43649	27.29285	9.65368	0.0594392	0.17984247	3.1084308	20	8 31.4	20.2
360728	2004	<i>TZ</i> ₂₃₇	17.6	X	279.11620	178.43597	168.09180	1.32487	0.2462437	0.29719917	2.2238440	20	5 13.8	20.2
360729	2004	<i>TK</i> ₂₄₇	15.4	X	316.69726	264.17746	115.58583	12.71421	0.2034126	0.18017693	3.1045829	20	9 7.0	18.9
360730	2004	<i>TC</i> ₂₇₃	15.4	X	344.41886	120.58621	236.03868	8.98474	0.0737556	0.17923188	3.1154865	20	9 22.4	19.5
360731	2004	<i>TT</i> ₂₈₂	17.5	X	78.73249	41.67138	32.57597	13.14808	0.1673827	0.27296000	2.3536219	20	2 15.4	20.2
360732	2004	<i>TH</i> ₂₈₅	17.8	X	45.00822	348.64446	195.77815	7.01532	0.0773678	0.28803164	2.2707845	20	5 11.2	20.1
360733	2004	<i>TM</i> ₃₀₂	17.4	X	97.47373	353.08242	71.73744	4.88909	0.2373242	0.27400820	2.3476157	20	3 9.6	20.2
360734	2004	<i>TL</i> ₃₁₈	17.8	X	348.63712	327.88935	10.01845	3.75932	0.2210060	0.30762094	2.1733289	20	10 20.5	18.9
360735	2004	<i>TH</i> ₃₄₈	16.0	X	332.19943	139.89141	208.20329	10.33935	0.1175799	0.17666208	3.1456265	20	8 21.3	20.0
360736	2004	<i>TP</i> ₃₅₅	15.6	X	342.41881	155.73622	169.40562	16.19118	0.2540719	0.17933467	3.1142959	20	8 6.2	18.7
360737	2004	<i>TF</i> ₃₆₈	17.3	X	273.81443	315.07601	32.00486	7.95800	0.1545034	0.29320221	2.2440088	20	5 19.9	20.2
360738	2004	<i>UD</i> ₁	16.3	X	50.28139	298.48593	20.04514	1.58722	0.3129255	0.18936685	3.0033094	20	12 11.8	20.8
360739	2004	<i>UN</i> ₅	17.8	X	48.93324	70.96206	49.03985	3.01778	0.1123628	0.27271365	2.3550391	20	2 16.1	20.0
360740	2004	<i>UE</i> ₁₁	17.2	X	158.70546	11.01152	28.29759	11.24143	0.1909506	0.27981543	2.3150210	20	4 4.3	20.7
360741	2004	<i>VU</i> ₁₇	15.6	X	274.27527	325.30792	65.18902	6.17134	0.1656739	0.17247447	3.1963391	20	7 16.9	20.1
360742	2004	<i>VR</i> ₁₈	15.3	X	321.08606	147.76784	224.12257	10.14600	0.0773782	0.17792761	3.1306931	20	9 6.1	19.6
360743	2004	<i>UV</i> ₂₃	17.2	X	48.76550	174.45838	238.08340	6.61266	0.2724969	0.26212082	2.4180672	20	—	—
360744	2004	<i>VB</i> ₃₀	15.3	X	24.69387	234.78876	62.83709	10.55333	0.0775417	0.17613000	3.1519585	20	9 15.1	19.6
360745	2004	<i>VG</i> ₃₀	15.7	X	358.20161	120.65591	214.25095	9.69501	0.1492550	0.17907849	3.1172653	20	9 20.6	19.4
360746	2004	<i>VC</i> ₃₉	15.1	X	82.18818	198.76305	56.18747	18.15335	0.1240988	0.17765177	3.1339329	20	10 13.8	19.9
360747	2004	<i>VP</i> ₆₆	15.3	X	305.91289	335.00840	53.43790	9.26894	0.0707825	0.17755265	3.1350991	20	9 14.9	19.5
360748	2004	<i>VA</i> ₇₁	16.7	X	242.64542	316.83309	51.39962	8.38620	0.1532322	0.29011702	2.2598897	20	5 12.9	19.7
360749	2004	<i>VE</i> ₇₆	17.2	X	302.45633	340.95303	13.59456	7.78550	0.1360510	0.30073291	2.2063890	20	7 27.8	19.3
360750	2004	<i>WY</i> ₅	17.9	X	74.08255	128.65409	294.03286	4.63665	0.2686653	0.26806574	2.3821833	20	1 23.7	19.7
360751	2004	<i>XG</i> ₄₈	17.1	X	58.70664	184.35003	260.21174	2.73923	0.1685510	0.26507026	2.4000966	20	1 17.6	19.1
360752	2004	<i>XM</i> ₅₇	17.2	X	112.01279	16.07428	98.94493	6.50769	0.0529196	0.27793812	2.3254337	20	5 8.6	20.2
360753	2004	<i>XV</i> ₇₈	17.6	X	84.63429	319.71429	105.77200	3.42669	0.2225551	0.26824966	2.3810943	20	2 16.8	20.0
360754	2004	<i>XQ</i> ₈₉	17.5	X	185.49637	85.04805	309.92267	4.11885	0.1646323	0.28310014	2.2970793	20	4 18.5	21.2
360755	2004	<i>XG</i> ₁₀₆	17.6	X	199.99957	10.44711	22.08124	3.16999	0.1671868	0.28459885	2.2890079	20	4 30.6	21.3
360756	2004	<i>XF</i> ₁₂₃	16.9	X	126.05193	188.86870	242.82984	6.82691	0.1020255	0.27637050	2.3342189	20	3 29.4	20.1
360757	2004	<i>XQ</i> ₁₃₄	16.9	X	102.67631	9.36936	56.98920	7.40799	0.1234779	0.27123406	2.3635959	20	3 2.4	19.9
360758	2004	<i>XF</i> ₁₃₇	17.6	X	74.17686	67.18098	15.06338	4.22572	0.1877876	0.26764828	2.3846597	20	2 17.8	19.9
360759	2004	<i>XC</i> ₁₆₄	16.8	X	98.33152	307.66826	126.93513	7.35400	0.2282784	0.27345506	2.3507805	20	3 23.0	19.8
360760	2004	<i>XF</i> ₁₆₇	17.0	X	183.29094	322.10586	69.05791	8.94939	0.1816498	0.28413090	2.2915204	20	4 17.3	20.7
360761	2004	<i>XY</i> ₁₈₀	17.2	X	77.34151	349.92379	102.59230	4.06032	0.1451316	0.26715261	2.3876084	20	3 2.5	19.7
360762	2005	FRIPON	17.5	X	29.10146	314.29798	134.79617	2.14528	0.1570737	0.25877166	2.4388864	20	—	—
360763	2005	<i>AN</i> ₁	16.7	X	55.06265	172.23912	287.96534	6.09543	0.0543424	0.26496720	2.4007189	20	1 24.1	19.3
360764	2005	<i>AH</i> ₄₉	17.1	X	276.69017	269.59489	177.91376	3.75850	0.2298108	0.23897044	2.5718162	20	10 2.6	19.8
360765	2005	<i>BS</i> ₂	17.4	X	298.74630	54.77155	107.05589	23.91009	0.0532078	0.37997234	1.8878525	20	—	—
360766	2005	<i>BN</i> ₉	16.5	X	258.93525	119.59277	327.27831	12.55321	0.1565678	0.23345797	2.6121428	20	9 11.9	20.0
360767	2005	<i>BG</i> ₃₈	16.8	X	213.80561	0.65426	313.19088	5.92523	0.1825504	0.26509048	2.3999745	20	2 5.6	20.7
360768	2005	<i>BQ</i> ₄₀	17.1	X	152.54765	282.42011	121.56082	7.76981	0.0973698	0.27148628	2.3621318	20	3 30.3	20.5
360769	2005	<i>CT</i> ₂	17.2	X	230.11803	112.13983	135.93723	23.01919	0.0844185	0.37986418	1.8882108	20	—	—
360770	2005	<i>CV</i> ₁₄	17.8	X	313.07292	191.42348	22.92039	1.32575	0.1322192	0.26026377	2.4295559	20	1 18.8	20.9
360771	2005	<i>CZ</i> ₁₄	17.6	X	293.22870	276.05570	341.27416	4.21117	0.1744473	0.26370022	2.4084024	20	2 12.9	20.7
360772	2005	<i>CU</i> ₁₆	17.3	X	344.66054	14.04678	142.95045	5.06340	0.1406058	0.25726559	2.4483955	20	—	—
360773	2005	<i>CG</i> ₇₃	18.0	X	318.60516	126.39861	140.14803	2.10903	0.1807150	0.25806799	2.4433178	20	1 8.6	21.1
360774	2005	<i>CJ</i> ₇₉	17.1	X	315.85783	94.13736	144.29711	6.75291	0.0765833	0.26477891	2.4018569	20	3 3.7	19.8
360775	2005	<i>EK</i> ₂₀	17.2	X	295.08881	325.72828	144.04644	6.03368	0.2069875	0.24086923	2.5582825	20	12 15.8	19.5
360776	2005	<i>EB</i> ₃₉	17.2	X	311.27755	35.22579	161.73999	6.49589	0.1853664	0.25453782	2.4658567	20	—	—
360777	2005	<i>EU</i> ₄₂	17.6	X	328.09679	46.47812	148.74538	9.95334	0.2187315	0.25873250	2.4391325	20	—	—
360778	2005	<i>EK</i> ₉₅	17.4	X	5.71530	266.71328	166.26571	23.65486	0.0734723	0.37478227	1.9052415	20	—	—
360779	2005	<i>EP</i> ₁₈₃	15.7	X	347.75782	340.08292	180.66508	3.18069	0.1706926	0.12451642	3.9717780	20	1 21.1	20.7
360780	2005	<i>EM</i> ₁₈₆	16.9	X	333.47553	105.53523	98.44582	4.21427	0.0642046	0.25980204	2.4324337	20	2 13.9	19.7
360781	2005	<i>ES</i> ₂₂₄	17.6	X	332.85554	118.07791	28.10192	22.03908	0.0703094	0.37845575	1.8928926	20	—	—
360782	2005	<i>EK</i> ₂₇₁	16.5	X	231.40012	281.28118	191.10119	9.09277	0.1780189	0.22834871	2.6509631	20	9 10.2	20.4
360783	2005	<i>EG</i> ₂₉₃	17.7	X	326.79409	279.74053	175.35858	21.97650	0.1168879	0.36891703	1.9253820	20	—	—
360784	2005	<i>FA</i> ₅	17.4	X	279.38833	180.75869	11.43489	3.77344	0.1111902	0.24499006	2.5295139	20	—	—
360785	2005	<i>FQ</i> ₈	17.0	X	250.07637	81.43775	118.92707	23.76955	0.0847349	0.37267008	1.9124336	20	—	—
360786	2005	<i>GJ</i> ₆	17.4	X	351.76528	73.48602	89.28188	3.75372	0.1281803	0.25278959	2.4772125	20	1 7.7	20.1
360787	2005	<i>GO</i> ₂₄	17.2	X	191.59113	146.73860	191.60026	2.49926	0.2139139	0.25451639	2.4659951	20	2 17.4	21.4
360788	2005	<i>GX</i> ₃₁	17.2	X	315.83675	267.65999	190.69235	21.80384	0.0968057	0.36779490	1.9292962	20	—	—

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
360801	2005	<i>GJ</i> ₁₅₆	17.3	X	203.39119	38.86127	203.25058	10.70681	0.1207568	0.23663069	2.5887414	20	—	—
360802	2005	<i>GN</i> ₁₆₈	17.6	X	165.47428	262.07269	41.14992	22.42417	0.0386321	0.37380213	1.9085705	20	—	—
360803	2005	<i>GG</i> ₁₇₀	17.7	X	223.76311	43.64944	215.39506	4.58374	0.1170746	0.24323606	2.5416597	20	—	—
360804	2005	<i>GZ</i> ₁₈₉	17.9	X	311.95050	65.16372	111.86129	1.14118	0.1691533	0.25216996	2.4812688	20	—	—
360805	2005	<i>HW</i> ₂	17.4	X	311.64936	118.40375	34.75408	5.21697	0.2056647	0.24367433	2.5386112	20	—	—
360806	2005	<i>JA</i>	17.3	X	308.94935	41.39665	90.24888	23.93600	0.0692061	0.36827052	1.9276348	20	—	—
360807	2005	<i>JB</i> ₃₅	16.4	X	51.99330	266.70038	89.07247	12.65328	0.0752928	0.22530653	2.6747726	20	—	—
360808	2005	<i>JM</i> ₅₂	14.7	X	20.08337	73.12665	88.44152	13.04476	0.1471017	0.12489410	3.9637669	20	3 23.3	19.7
360809	2005	<i>JH</i> ₆₃	17.2	X	52.18651	235.04291	106.12291	24.77813	0.1061128	0.35438447	1.9776659	20	—	—
360810	2005	<i>JH</i> ₆₈	16.4	X	153.12349	216.55896	74.44421	15.49474	0.2435495	0.23214724	2.6219659	20	—	—
360811	2005	<i>JR</i> ₆₈	16.7	X	265.49732	138.43366	90.34560	14.11196	0.1459464	0.24529250	2.5274343	20	—	—
360812	2005	<i>JC</i> ₇₂	17.7	X	249.18663	23.52968	198.82843	11.94501	0.1293419	0.24339097	2.5405812	20	—	—
360813	2005	<i>JL</i> ₇₄	16.5	X	299.06854	299.87073	228.18979	28.24923	0.1428772	0.24168767	2.5525037	20	—	—
360814	2005	<i>JD</i> ₇₇	17.5	X	336.80377	164.31149	23.08049	1.51655	0.1227955	0.25834280	2.4415848	20	1 17.9	20.3
360815	2005	<i>JT</i> ₈₄	17.1	X	243.71635	28.11953	218.24367	1.53631	0.0422763	0.24644919	2.5195198	20	—	—
360816	2005	<i>JA</i> ₁₁₈	17.1	X	134.02899	209.63551	126.79092	5.91435	0.2495560	0.23339552	2.6126087	20	1 2.7	20.9
360817	2005	<i>JB</i> ₁₂₅	16.7	X	196.19744	98.43480	197.32883	13.14956	0.1911099	0.23888958	2.5723965	20	1 2.1	21.2
360818	2005	<i>JW</i> ₁₃₁	16.6	X	147.02640	221.15943	89.12245	16.43431	0.1956142	0.23248480	2.6194272	20	—	—
360819	2005	<i>JL</i> ₁₄₈	16.1	X	163.51646	158.55145	137.92181	34.35209	0.2117239	0.23291341	2.6162127	20	—	—
360820	2005	<i>JJ</i> ₁₅₀	16.9	X	204.75378	189.84062	84.43990	8.26632	0.1654201	0.23909837	2.5708987	20	—	—
360821	2005	<i>JV</i> ₁₇₆	16.5	X	229.18384	103.11586	149.92977	13.90923	0.1220650	0.24092277	2.5579035	20	—	—
360822	2005	<i>KG</i> ₇	16.4	X	211.06923	91.78863	200.07446	15.99150	0.2104591	0.24041540	2.5615010	20	1 8.5	21.1
360823	2005	<i>KL</i> ₇	16.8	X	277.03891	70.34291	138.26018	13.89559	0.1992878	0.24257088	2.5463041	20	—	—
360824	2005	<i>KO</i> ₁₁	17.2	X	226.82038	126.86511	148.09923	5.89211	0.1547856	0.24250139	2.5467905	20	1 4.0	21.3
360825	2005	<i>LV</i> ₁	17.0	X	210.51818	208.61003	100.61930	12.24577	0.2292286	0.24279897	2.5447092	20	1 31.9	21.5
360826	2005	<i>LM</i> ₁₀	16.7	X	175.17516	244.40178	103.47608	13.72816	0.2938332	0.24148692	2.5539182	20	2 24.3	21.4
360827	2005	<i>LG</i> ₁₂	17.6	X	204.97985	74.04854	202.70720	8.56748	0.1427281	0.23845249	2.5755391	20	—	—
360828	2005	<i>LC</i> ₁₃	17.1	X	288.03189	325.01280	223.32216	12.40888	0.1678403	0.24236536	2.5477434	20	—	—
360829	2005	<i>LD</i> ₃₁	16.3	X	144.03108	118.28719	186.72740	16.40575	0.3992576	0.22263064	2.6961627	20	—	—
360830	2005	<i>LV</i> ₄₀	17.0	X	289.78344	354.73690	207.59765	6.37402	0.0758457	0.24274825	2.5450636	20	—	—
360831	2005	<i>LK</i> ₄₈	17.2	X	195.55502	355.58012	280.17731	3.28027	0.3136307	0.23187172	2.6240425	20	—	—
360832	2005	<i>LS</i> ₅₂	16.1	X	184.34151	239.36033	73.98400	16.09112	0.2628250	0.23309264	2.6148715	20	1 19.1	20.9
360833	2005	<i>MM</i> ₁₂	16.6	X	233.94264	129.30110	112.28274	13.88078	0.2302293	0.23439955	2.6051428	20	—	—
360834	2005	<i>MK</i> ₂₈	16.8	X	198.90026	358.84188	246.23903	7.01258	0.1109909	0.22642995	2.6659181	20	—	—
360835	2005	<i>MO</i> ₄₉	16.4	X	300.17033	353.27522	166.72725	13.20189	0.0864285	0.23740221	2.5831297	20	—	—
360836	2005	<i>NN</i> ₃	16.5	X	181.37838	201.64331	127.13062	15.47630	0.1831047	0.23478661	2.6022789	20	1 30.3	20.8
360837	2005	<i>NE</i> ₁₀	16.8	X	123.50766	217.49776	116.24723	7.31567	0.1488337	0.22668197	2.6639418	20	—	—
360838	2005	<i>NY</i> ₁₀	16.8	X	206.48913	145.13337	126.66672	5.09798	0.0827334	0.23270135	2.6178019	20	—	—
360839	2005	<i>ND</i> ₁₆	16.6	X	164.97379	178.93762	110.03053	12.83361	0.1039858	0.22724554	2.6595356	20	—	—
360840	2005	<i>NM</i> ₃₅	16.6	X	334.85246	96.53715	309.81750	3.33558	0.0697316	0.21180022	2.7873090	20	11 21.4	20.0
360841	2005	<i>NK</i> ₆₃	16.6	X	102.45761	131.32716	170.86237	13.88683	0.0374290	0.21843371	2.7305886	20	12 23.8	20.8
360842	2005	<i>NE</i> ₈₆	17.0	X	101.15898	49.52171	272.62783	3.69296	0.1091865	0.22109409	2.7086400	20	—	—
360843	2005	<i>NG</i> ₈₇	16.7	X	156.22296	258.75221	73.53847	13.63631	0.2832410	0.22974025	2.6402476	20	1 22.0	21.3
360844	2005	<i>OG</i> ₁₇	16.2	X	321.04634	183.41870	212.46514	6.77950	0.1038247	0.20343560	2.8631982	20	10 14.9	19.6
360845	2005	<i>OW</i> ₂₅	16.4	X	186.13909	109.92459	164.52611	13.23581	0.2585983	0.22796004	2.6539754	20	—	—
360846	2005	<i>QL</i> ₃	16.0	X	210.84163	40.10062	328.49843	10.03978	0.3183044	0.17566049	3.1575724	20	4 6.1	21.9
360847	2005	<i>QN</i> ₁₂	16.4	X	177.66170	326.59010	284.55491	6.84421	0.1667342	0.22136526	2.7064276	20	—	—
360848	2005	<i>QV</i> ₁₆	16.3	X	107.90903	170.89798	160.45391	8.53439	0.1754912	0.21794586	2.7346619	20	—	—
360849	2005	<i>QC</i> ₁₇	16.5	X	173.57386	146.86878	155.66725	13.29107	0.2708806	0.22746803	2.6578011	20	—	—
360850	2005	<i>QM</i> ₂₃	16.2	X	90.93671	164.99057	163.30581	13.48120	0.1250386	0.21387909	2.7692181	20	—	—
360851	2005	<i>QH</i> ₄₂	16.3	X	82.01822	200.14004	169.07791	13.99294	0.2323227	0.21807236	2.7336042	20	—	—
360852	2005	<i>QS</i> ₄₇	17.0	X	145.82571	183.68636	89.43151	4.38894	0.1290065	0.21639231	2.7477349	20	—	—
360853	2005	<i>QP</i> ₆₁	16.8	X	159.71039	77.20538	187.96884	8.66076	0.1715587	0.21962312	2.7207210	20	—	—
360854	2005	<i>QJ</i> ₆₅	16.5	X	121.64749	80.07682	204.77143	6.67070	0.1430451	0.21608339	2.7503531	20	12 26.1	21.1
360855	2005	<i>QL</i> ₇₃	15.8	X	221.51270	218.51521	188.33205	17.13940	0.3033103	0.17952969	3.1120401	20	6 2.3	21.5
360856	2005	<i>QP</i> ₁₁₅	15.6	X	88.98545	138.14636	195.74649	14.16548	0.1252652	0.21602791	2.7508240	20	—	—
360857	2005	<i>QO</i> ₁₂₁	17.2	X	161.72561	47.39965	231.97613	0.92542	0.1927258	0.22214587	2.7000837	20	—	—
360858	2005	<i>QV</i> ₁₂₂	16.7	X	18.55573	103.55015	252.66037	0.92457	0.0430063	0.20598591	2.8395164	20	11 15.7	20.5
360859	2005	<i>QU</i> ₁₃₀	16.7	X	159.87598	144.60687	105.53622	5.21541	0.0719569	0.21366730	2.7710477	20	12 22.6	20.8
360860	2005	<i>QB</i> ₁₃₂	16.8	X	142.20003	173.85823	111.17937	5.15561	0.0588805	0.21650453	2.7467853	20	—	—
360861	2005	<i>QK</i> ₁₃₇	16.6	X	287.92850	255.71495	171.28705	2.02442	0.0475032	0.20132678	2.8831574	20	10 11.2	20.3
360862	2005	<i>QT</i> ₁₅₈	16.7	X	167.11473	191.25331	110.53056	6.77216	0.1600262	0.22611361	2.6684040	20	—	—
360863	2005	<i>QQ</i> ₁₈₀	16.9	X	38.86841	321.63434	17.01150	4.54344	0.1531353	0.20550724	2.8439239	20	12 5.2	20.8
360864	2005	<i>QS</i> ₁₈₈	16.4	X	125.17420	266.27805	46.32339	9.41155	0.2219416	0.21916595	2.7245033	20	—	—
360865	2005	<i>QA</i> ₁₈₉	15.8	X	142.81793	182.75913	126.75005	12.55131	0.2062518	0.21952148	2.7215607	20	—	—
360866	2005	<i>RH</i> ₇	16.3	X	141.59344	354.63513	312.35394	8.12065	0.1924534	0.22156315	2.7048158	20	—	—
360867	2005	<i>RE</i> ₂₆	16.2	X	74.46496	296.87533	347.67902	1.44562	0.3000665	0.20346012	2.8629681	20	10 25.1	20.2
360868	2005	<i>RD</i> ₄₅	16.8	X	160.07363	20.78428	281.96027	3.24612	0.3046812	0.22532498	2.6746266	20	—	—
360869	2005	<i>RJ</i> ₄₆	16.6	X	233.86190	319.88718	133.06225	9.59757	0.0244202	0.19086223	2.9876019	20	9 7.2	20.8
360870	2005	<i>SK</i>												

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
360881	2005	SH ₇₈	16.7	X	186.86346	76.15479	181.07073	13.13196	0.1731426	0.21929525	2.7234322	20	—	—
360882	2005	SN ₈₀	16.9	X	284.81472	4.66020	51.05365	1.97459	0.1113433	0.19482073	2.9469942	20	9 13.1	20.6
360883	2005	SN ₈₄	16.5	X	329.45239	154.64389	188.37765	10.15617	0.0680385	0.19075496	2.9887218	20	8 15.4	20.5
360884	2005	SH ₈₆	16.3	X	254.86563	245.33905	179.73537	8.76579	0.0810106	0.18992393	2.9974338	20	8 16.8	20.6
360885	2005	SD ₉₀	16.5	X	65.49814	124.44546	204.87204	14.40377	0.1834557	0.20659664	2.8339176	20	12 26.9	21.1
360886	2005	SD ₉₃	16.1	X	217.30683	60.47053	17.17645	9.25583	0.0830069	0.18340099	3.0680912	20	7 23.0	20.8
360887	2005	SB ₉₄	16.5	X	1.62598	191.07823	174.42225	6.84058	0.0619161	0.20540539	2.8448639	20	11 8.2	20.1
360888	2005	SY ₁₀₂	15.7	X	303.49472	59.51588	357.86257	11.62295	0.0129021	0.19825273	2.9128845	20	10 18.4	19.7
360889	2005	SH ₁₀₉	16.2	X	159.60624	284.35867	198.93359	10.06027	0.2219841	0.17782769	3.1318657	20	7 15.9	21.7
360890	2005	SB ₁₁₀	16.7	X	229.24045	248.85510	197.72410	4.00654	0.1097955	0.18738002	3.0245020	20	8 10.1	21.2
360891	2005	SP ₁₂₀	15.8	X	83.62845	71.69040	206.73693	14.41949	0.1313858	0.20312024	2.8661610	20	11 10.8	20.1
360892	2005	SB ₁₂₁	16.5	X	82.52155	127.38676	206.71497	11.33448	0.2231865	0.21233601	2.7826182	20	—	—
360893	2005	SP ₁₃₈	16.9	X	137.44779	259.41162	19.97582	8.32840	0.1846297	0.21409459	2.7673596	20	—	—
360894	2005	SY ₁₄₂	15.9	X	204.28772	253.19948	167.09928	11.75188	0.1795377	0.17846422	3.1244143	20	6 10.6	21.2
360895	2005	SJ ₁₄₅	16.4	X	48.73736	178.75494	118.00954	3.04359	0.0986082	0.19895479	2.9060279	20	10 19.3	20.3
360896	2005	SE ₁₅₀	16.3	X	154.85596	59.12838	38.84355	6.96193	0.2122481	0.17239219	3.1973559	20	6 12.9	21.7
360897	2005	SE ₁₅₂	15.9	X	76.30397	279.57674	46.73662	17.38959	0.1111870	0.20582406	2.8410047	20	12 26.9	20.4
360898	2005	SW ₁₅₂	15.7	X	129.52439	124.28815	30.96833	27.61531	0.1357073	0.17974495	3.1095550	20	8 7.8	21.1
360899	2005	SY ₁₅₆	16.5	X	238.85698	268.16919	189.84006	8.98778	0.0606564	0.19248151	2.9708225	20	9 11.6	20.7
360900	2005	SG ₁₅₇	16.8	X	226.47011	26.42636	57.16260	2.16075	0.1229977	0.18582202	3.0413841	20	8 3.8	21.4
360901	2005	SV ₁₆₈	15.9	X	150.61984	294.81102	206.80900	13.28567	0.0999084	0.18510004	3.0492875	20	7 25.8	20.9
360902	2005	SE ₁₇₇	16.2	X	142.63520	350.64699	210.44456	12.19250	0.0447324	0.19637652	2.9314085	20	9 30.4	20.5
360903	2005	SE ₁₇₈	16.8	X	277.01210	180.61641	212.42708	9.51852	0.0702619	0.18883016	3.0089974	20	8 4.2	21.1
360904	2005	SB ₁₇₉	16.3	X	162.66044	250.05795	191.70361	17.26722	0.2858938	0.17251512	3.1958369	20	6 3.2	22.2
360905	2005	SN ₁₈₈	16.1	X	125.45909	238.49461	21.70965	15.11113	0.1138180	0.20480707	2.8504018	20	11 24.3	20.8
360906	2005	SQ ₂₀₀	16.6	X	62.57359	256.86963	57.23802	2.87951	0.0566449	0.20319006	2.8655044	20	11 20.4	20.5
360907	2005	SW ₂₀₆	17.0	X	93.85167	121.36706	193.63040	3.65538	0.1974892	0.21203290	2.7852695	20	—	—
360908	2005	SL ₂₁₁	16.5	X	56.64824	285.65790	20.10334	6.74354	0.1274513	0.20034880	2.8925323	20	11 10.8	20.6
360909	2005	SL ₂₂₁	16.9	X	35.01071	347.00484	6.03811	1.80177	0.0772941	0.20306970	2.8666365	20	12 7.1	20.6
360910	2005	SL ₂₂₂	15.9	X	218.38980	193.82116	206.04449	11.28748	0.1386959	0.17964805	3.1106731	20	5 31.6	20.9
360911	2005	SX ₂₃₅	16.5	X	74.00638	99.41348	228.96220	5.15740	0.1099584	0.20655432	2.8343047	20	12 27.6	20.6
360912	2005	ST ₂₃₉	16.7	X	135.55972	74.06490	180.37196	6.71969	0.0574982	0.20629679	2.8366629	20	12 1.6	20.9
360913	2005	SW ₂₃₉	16.4	X	214.24124	80.34722	357.58746	15.01768	0.1366044	0.18228005	3.0806566	20	7 16.9	21.5
360914	2005	SR ₂₆₃	16.1	X	276.75048	210.62049	191.55300	10.81925	0.1034698	0.18820513	3.0156556	20	8 11.2	20.3
360915	2005	SS ₂₈₂	16.4	X	247.83591	345.71630	72.41146	3.74547	0.0959342	0.18786116	3.0193356	20	7 30.6	20.7
360916	2005	SN ₂₈₃	16.3	X	341.85000	255.18534	82.16023	12.13998	0.0896427	0.19029050	2.9935830	20	9 4.6	20.2
360917	2005	ST ₂₉₀	16.3	X	288.98518	186.38360	197.53377	13.93927	0.0457134	0.18807333	3.0170643	20	8 11.5	20.6
360918	2005	TV ₁₄	16.5	X	135.46121	178.85503	124.45680	8.84795	0.1394431	0.21878886	2.7276328	20	—	—
360919	2005	TU ₁₅	16.5	X	194.64775	319.04941	203.66971	9.89322	0.0328568	0.19948432	2.9008830	20	10 15.5	20.7
360920	2005	TT ₁₆	15.8	X	170.67943	93.95114	5.44858	25.93390	0.2111612	0.17805995	3.1291417	20	6 30.4	21.6
360921	2005	TB ₂₀	16.8	X	24.29469	139.01437	194.67262	6.87596	0.0840726	0.20074261	2.8887481	20	10 31.1	20.5
360922	2005	TO ₂₅	16.2	X	304.82948	339.89260	36.93974	9.68859	0.1419908	0.18881464	3.0091623	20	8 22.1	20.0
360923	2005	TC ₃₉	15.9	X	194.08469	114.81879	329.29641	5.68013	0.1444328	0.17898708	3.1183266	20	7 1.1	20.9
360924	2005	TF ₄₃	16.6	X	162.59707	272.77137	196.14795	12.45607	0.1139848	0.18054219	3.1003942	20	6 29.9	21.7
360925	2005	TS ₅₄	16.0	X	134.51541	271.89883	45.97559	9.57309	0.2406145	0.21874191	2.7280232	20	—	—
360926	2005	TW ₅₄	16.0	X	191.80482	266.85975	198.43433	13.32989	0.1349766	0.18167993	3.0874368	20	7 21.9	21.2
360927	2005	TO ₆₁	16.0	X	307.12598	352.05505	10.07397	10.34512	0.1172312	0.18912573	3.0058616	20	8 8.3	19.9
360928	2005	TH ₆₆	16.6	X	247.98133	224.68364	213.21453	10.73261	0.0454316	0.18950560	3.0018433	20	8 27.6	21.1
360929	2005	TH ₁₀₄	15.5	X	218.24006	63.41849	352.81733	9.05905	0.1128276	0.17845217	3.1245549	20	6 21.9	20.4
360930	2005	TV ₁₀₉	16.3	X	235.24398	59.20380	346.04305	5.48978	0.0745331	0.18320555	3.0702728	20	7 1.2	20.8
360931	2005	TJ ₁₁₉	16.6	X	119.89796	174.87966	13.74879	10.37823	0.0053088	0.18840027	3.0135729	20	8 20.5	20.9
360932	2005	TJ ₁₃₃	16.2	X	125.43737	350.55230	208.15140	9.99758	0.0470339	0.18976528	2.9991041	20	9 5.8	20.7
360933	2005	TX ₁₃₅	16.4	X	69.53259	160.47215	185.90154	13.43860	0.1031640	0.21061176	2.7977848	20	—	—
360934	2005	TN ₁₅₀	16.7	X	159.81234	272.16908	179.22305	10.20098	0.1790487	0.17371465	3.1811081	20	6 9.6	22.1
360935	2005	TN ₁₅₁	16.8	X	172.78565	84.20027	42.08600	3.39923	0.1186951	0.18102790	3.0948460	20	8 2.8	21.7
360936	2005	TZ ₁₆₁	16.8	X	175.33511	194.71836	253.27069	2.56455	0.1154636	0.17615283	3.1516862	20	6 17.8	21.8
360937	2005	TM ₁₆₈	16.2	X	187.80654	107.32013	22.81501	9.57604	0.1024476	0.18636271	3.0354986	20	8 26.4	21.0
360938	2005	TV ₁₆₉	16.7	X	278.80208	50.45431	349.04351	6.59358	0.1274287	0.18943457	3.0025936	20	8 11.7	20.6
360939	2005	TN ₁₉₆	16.5	X	280.00312	357.50577	45.18939	10.38880	0.1127970	0.18897746	3.0074336	20	8 23.4	20.7
360940	2005	TO ₁₉₆	16.4	X	150.00686	119.54003	20.96291	7.24241	0.2154779	0.17870460	3.1216118	20	8 2.3	21.8
360941	2005	UY ₁₂	16.7	X	313.96887	187.90526	219.37180	10.56207	0.0898943	0.19689213	2.9262885	20	10 17.4	20.4
360942	2005	UF ₁₇	15.6	X	315.31419	105.21070	246.04595	8.30794	0.0466367	0.18521849	3.0479873	20	8 5.6	19.8
360943	2005	UX ₃₅	16.8	X	130.10465	33.68877	225.66495	12.24597	0.0380352	0.19978702	2.8979521	20	11 29.2	21.0
360944	2005	UA ₃₈	16.1	X	166.41930	52.51633	63.60592	10.41096	0.0644826	0.17598676	3.1536686	20	7 13.9	20.9
360945	2005	UV ₃₈	16.4	X	244.78256	41.71162	56.68932	12.47914	0.0669530	0.18883774	3.0089169	20	9 26.1	20.8
360946	2005	UK ₃₉	16.1	X	327.56444	134.10802	230.41364	8.93386	0.1148929	0.18899962	3.0071985	20	9 6.4	19.9
360947	2005	UH ₅₁	16.7	X	125.20766	70.84305	236.31321	9.67171	0.2344522	0.21402863	2.7679281	20	—	—
360948	2005	UH ₅₄	16.1	X	99.06415	287.83575	51.42738	10.01283	0.1851030	0.21313897	2.7756251	20	—	—
360949	2005	UV ₅₅	15.6	X	213.70556	214.35282	220.88994	18.35170	0.1752011	0.17821112	3.1273718	20	7 3.1	21.0
3														

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
360961	2005	UK ₁₂₄	15.7	X	144.61569	266.76452	231.17011	14.74804	0.1720444	0.17531990	3.1616605	20	7 17.6	21.1
360962	2005	UF ₁₂₉	17.0	X	96.45869	271.07437	17.32865	2.03485	0.0725892	0.20047022	2.8913642	20	11 28.8	21.1
360963	2005	UB ₁₄₁	16.0	X	205.36520	291.09078	138.49105	2.03336	0.1122996	0.17618958	3.1512479	20	6 25.0	20.9
360964	2005	UB ₁₆₉	16.5	X	341.38232	69.24410	285.62628	2.24876	0.1507954	0.19189611	2.9768613	20	9 20.9	19.7
360965	2005	UM ₁₇₅	15.8	X	171.78075	241.57231	241.88179	11.68846	0.1048775	0.17807904	3.1289180	20	7 24.5	20.9
360966	2005	UR ₁₇₆	16.3	X	216.84948	49.58634	39.92118	8.42645	0.1266462	0.18090898	3.0962021	20	8 2.6	21.2
360967	2005	UJ ₁₈₃	16.2	X	244.30469	355.94345	53.82770	6.07294	0.1480215	0.18028264	3.1033692	20	7 8.5	21.0
360968	2005	UJ ₁₉₇	16.6	X	231.69373	337.18444	81.64967	2.48905	0.1064045	0.17843562	3.1247480	20	7 10.2	21.1
360969	2005	UB ₂₀₉	16.3	X	155.33099	304.08844	217.66444	16.97721	0.1882199	0.18562370	3.0435499	20	8 23.8	21.7
360970	2005	UV ₂₁₁	16.3	X	153.45210	111.53798	71.66065	5.03592	0.0791804	0.18807125	3.0170866	20	9 24.2	20.9
360971	2005	UP ₂₁₂	16.3	X	197.42225	325.46134	88.53651	2.70213	0.1651153	0.17219679	3.1997743	20	5 27.6	21.6
360972	2005	UZ ₂₃₀	16.5	X	240.97610	2.27205	53.49474	1.69040	0.1622967	0.18082742	3.0971330	20	7 10.5	21.1
360973	2005	UV ₂₃₅	16.4	X	49.80671	231.16274	80.42782	7.18994	0.0847216	0.19555956	2.9395669	20	11 6.1	20.5
360974	2005	UE ₂₄₉	16.5	X	151.30212	53.65088	102.08929	2.55367	0.1085648	0.18153473	3.0890830	20	8 17.3	21.4
360975	2005	UK ₂₅₃	15.5	X	175.39590	257.02725	232.89933	9.28897	0.1585232	0.18128872	3.0918769	20	8 4.7	20.7
360976	2005	UQ ₂₅₇	16.8	X	246.35732	6.69471	66.38851	3.52185	0.0192360	0.18716230	3.0268470	20	8 28.5	21.1
360977	2005	UJ ₂₆₆	16.7	X	110.97444	19.86798	129.39902	2.32747	0.1230671	0.17084175	3.2166714	20	6 29.4	21.6
360978	2005	UK ₂₇₀	17.0	X	190.67533	309.55673	183.81164	3.08322	0.0707320	0.18855889	3.0118826	20	8 30.5	21.4
360979	2005	UM ₂₇₇	16.1	X	252.55674	181.05388	219.22793	8.41973	0.0894993	0.18148666	3.0896284	20	7 11.3	20.6
360980	2005	UD ₂₉₁	16.2	X	336.14705	92.07405	251.62843	8.87218	0.1233282	0.18846733	3.0128580	20	8 22.8	19.9
360981	2005	UQ ₃₀₇	16.1	X	9.83516	325.60691	46.55244	12.74449	0.0628503	0.19841378	2.9113080	20	11 23.4	20.0
360982	2005	UQ ₃₀₈	16.3	X	298.77983	355.89858	51.72276	11.68389	0.0199949	0.19032793	2.9931906	20	10 6.5	20.5
360983	2005	UC ₃₂₀	16.7	X	57.26401	71.74232	198.05821	5.93066	0.0653317	0.18885273	3.0087576	20	9 16.9	20.9
360984	2005	UT ₃₂₅	16.4	X	138.10158	120.38547	76.47239	2.60045	0.1307996	0.19212940	2.9744511	20	9 25.9	21.2
360985	2005	UK ₃₂₇	16.0	X	94.63220	165.96712	43.39300	11.10861	0.0528055	0.18059088	3.0998369	20	8 21.7	20.6
360986	2005	UO ₃₃₄	16.6	X	133.18018	230.51322	76.80728	7.88112	0.3424612	0.21369263	2.7708287	20	—	—
360987	2005	UR ₃₄₇	16.3	X	65.98625	254.24446	64.64133	8.85330	0.0549496	0.20041627	2.8918831	20	11 29.4	20.2
360988	2005	UQ ₃₅₀	15.8	X	234.39317	177.73061	222.22072	9.08131	0.0887406	0.17748202	3.1359308	20	6 20.7	20.5
360989	2005	UA ₃₅₂	15.7	X	256.48204	127.34699	261.56864	9.54473	0.1189077	0.18124550	3.0923684	20	6 28.7	20.3
360990	2005	UC ₃₆₃	17.0	X	181.65126	110.93795	4.82428	0.47254	0.1006132	0.18153787	3.0890472	20	7 28.9	21.9
360991	2005	UD ₃₆₅	16.2	X	135.90908	326.80187	209.18520	10.92659	0.0842362	0.18359898	3.0658850	20	8 21.2	21.0
360992	2005	UF ₃₈₆	16.1	X	31.23362	245.14818	48.27669	12.64491	0.0350439	0.18641288	3.0349540	20	9 16.1	20.4
360993	2005	UZ ₃₉₂	17.0	X	177.01090	305.83736	118.27407	3.03380	0.1279503	0.17225703	3.1990283	20	5 22.1	22.0
360994	2005	UK ₃₉₅	17.1	X	155.03381	93.52461	185.19092	7.98311	0.1826868	0.21595729	2.7514237	20	—	—
360995	2005	UY ₄₂₁	16.9	X	64.38929	330.58276	339.60975	1.19057	0.0789221	0.19985308	2.8973135	20	11 19.8	20.9
360996	2005	UX ₄₂₄	16.8	X	164.63998	138.53107	22.78832	4.51697	0.1141305	0.18777211	3.0202901	20	9 7.8	21.6
360997	2005	UM ₄₄₁	16.0	X	277.12795	16.27209	28.58881	10.54024	0.1668766	0.18650183	3.0339889	20	8 13.1	20.2
360998	2005	UD ₄₅₄	15.7	X	179.39112	36.03295	68.69039	17.88775	0.1897835	0.17444064	3.1722758	20	7 11.8	21.2
360999	2005	UU ₄₅₄	16.0	X	209.97250	231.73032	156.78884	17.44966	0.1760050	0.17335817	3.1854674	20	5 11.9	21.5
361000	2005	UM ₄₆₈	15.4	X	173.35986	60.36764	35.44224	16.29622	0.2191122	0.17247617	3.1963180	20	6 24.9	21.1
361001	2005	US ₄₇₅	15.5	X	243.63925	202.45761	198.28362	10.50092	0.0927084	0.17968614	3.1102336	20	7 1.3	20.2
361002	2005	UB ₄₈₆	15.9	X	187.88139	69.26580	340.40666	25.04604	0.2690098	0.17384211	3.1795529	20	5 1.5	22.0
361003	2005	UE ₅₁₂	15.9	X	195.65981	219.73396	211.77170	15.91557	0.1926769	0.17389802	3.1788713	20	6 14.5	21.4
361004	2005	US ₅₁₅	16.6	X	157.16384	350.19122	166.03290	13.59702	0.0249086	0.18601314	3.0393004	20	8 20.8	21.0
361005	2005	UM ₅₁₅	16.1	X	157.07812	39.96776	126.52866	12.52750	0.1182920	0.18630583	3.0361164	20	9 8.1	21.0
361006	2005	UE ₅₁₉	16.2	X	330.16676	263.73095	98.82428	13.14649	0.0765320	0.19059884	2.9903536	20	9 20.8	20.2
361007	2005	UG ₅₂₆	16.8	X	54.07184	136.81407	162.90628	1.68727	0.1331294	0.19679239	2.9272772	20	11 2.3	20.8
361008	2005	VB ₄₅	16.6	X	305.15517	204.33939	224.85516	5.28423	0.0763839	0.20033633	2.8926524	20	11 4.2	20.2
361009	2005	UV ₄₅	16.9	X	117.44857	358.71131	147.60276	0.51046	0.1070863	0.17309516	3.1886934	20	6 30.2	21.5
361010	2005	VS ₄₉	15.7	X	234.62923	17.25583	33.20347	9.74168	0.1438774	0.17749044	3.1358316	20	6 29.0	20.7
361011	2005	VQ ₇₇	16.3	X	30.66137	317.89804	21.74095	6.03108	0.2275856	0.19935248	2.9021618	20	12 5.1	20.2
361012	2005	VG ₉₂	17.1	X	78.09088	223.32541	77.48253	2.59654	0.1606791	0.20089069	2.8873283	20	12 3.5	21.5
361013	2005	VQ ₁₀₂	15.8	X	291.78245	16.25226	355.41040	11.27614	0.2143235	0.18556766	3.0441627	20	7 11.2	19.9
361014	2005	VT ₁₂₆	17.1	X	290.95920	234.97668	174.73072	2.18978	0.0715427	0.19537534	2.9414145	20	9 18.6	20.7
361015	2005	VU ₁₂₆	16.2	X	163.89553	310.32641	186.59047	10.56747	0.0801944	0.18711702	3.0273353	20	8 3.7	21.0
361016	2005	VQ ₁₃₃	16.4	X	241.74751	273.46497	135.07090	10.91510	0.0464366	0.18111295	3.0938770	20	7 15.7	20.9
361017	2005	WB ₁₁	16.5	X	236.64939	359.52355	69.03481	1.95790	0.0693479	0.18166839	3.0875676	20	8 2.1	20.9
361018	2005	WN ₂₉	16.1	X	212.59227	87.94920	58.89204	11.62184	0.0407325	0.19037409	2.9927067	20	10 18.8	20.4
361019	2005	WN ₃₆	15.7	X	108.18404	96.61602	79.27478	11.86746	0.0660931	0.17403450	3.1772092	20	7 23.7	20.4
361020	2005	WJ ₃₉	16.2	X	100.78015	110.49668	76.24681	2.62460	0.0863037	0.17502457	3.1652162	20	7 30.4	20.7
361021	2005	WV ₄₂	18.3	X	75.17383	276.64684	261.61728	3.24764	0.0361551	0.30592905	2.1813344	20	6 11.9	20.5
361022	2005	WQ ₅₁	15.9	X	116.06464	145.19309	74.59737	11.49609	0.0674135	0.18404133	3.0609704	20	10 1.5	20.6
361023	2005	WV ₅₆	16.5	X	197.80684	282.01118	162.60786	9.41721	0.1442728	0.17762878	3.1342033	20	7 4.1	21.6
361024	2005	WQ ₆₈	16.7	X	280.21411	183.07750	239.42551	5.22637	0.0325636	0.18860179	3.0114258	20	9 21.9	20.9
361025	2005	WK ₇₀	16.5	X	37.68649	258.26747	61.68402	13.06375	0.0898259	0.19350658	2.9603216	20	11 2.1	20.5
361026	2005	WY ₈₇	15.7	X	174.88674	26.63460	90.81129	15.82110	0.2276956	0.17201620	3.2020134	20	7 23.6	21.3
361027	2005	WS ₈₈	15.2	X	143.94604	244.71776	248.18275	13.70025	0.0301685	0.17264023	3.1942927	20	7 4.8	19.9
361028	2005	WA ₉₅	16.0	X	359.27878	177.84606	109.65954	3.70788	0.0863031	0.17671375	3.1450133	20	7 19.7	20.0
361029	2005	WC ₉₅	16.2	X	27.38692	241.08164	84.37434	7.25485	0.0569115	0.				

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361041 2005 <i>XM</i> ₄₅	15.7	X	69.79635	311.94095	275.74350	11.13965	0.1071745	0.17696591	3.1420250	20	8 11.9	20.2
361042 2005 <i>XK</i> ₄₈	18.2	X	126.92888	112.61120	35.26992	0.66843	0.1028579	0.30754525	2.1736855	20	7 19.1	21.1
361043 2005 <i>XO</i> ₇₂	15.7	X	249.68484	13.28026	73.56200	12.55451	0.1118768	0.18299925	3.0725798	20	9 10.6	20.3
361044 2005 <i>XG</i> ₇₆	15.7	X	286.36424	324.60928	110.62361	12.19103	0.0964806	0.19102040	2.9859524	20	10 17.6	19.8
361045 2005 <i>XQ</i> ₇₈	15.6	X	260.03178	4.02892	40.67695	11.84185	0.0692429	0.18069531	3.0986424	20	8 4.2	20.2
361046 2005 <i>XN</i> ₈₂	15.9	X	36.97490	177.93407	59.31851	10.98575	0.0235407	0.17445385	3.1721157	20	7 3.9	20.3
361047 2005 <i>YX</i> ₄	16.9	X	2.97804	1.58503	348.63712	2.96330	0.1153296	0.19029320	2.9935547	20	10 20.3	20.4
361048 2005 <i>YZ</i> ₁₂	18.0	X	88.40328	97.21901	107.23108	3.76546	0.1047108	0.30617590	2.1801618	20	8 22.6	20.6
361049 2005 <i>YN</i> ₁₈	16.1	X	340.15700	245.24392	71.08037	10.01335	0.1250272	0.18126836	3.0921084	20	7 29.1	19.9
361050 2005 <i>YC</i> ₂₀	17.6	X	55.10499	266.10070	295.05083	5.17746	0.0785169	0.30081671	2.2059792	20	6 22.8	19.8
361051 2005 <i>YF</i> ₂₀	18.0	X	104.30752	62.59136	90.32204	4.81842	0.0760531	0.30183593	2.2010104	20	6 23.4	20.5
361052 2005 <i>YC</i> ₄₃	17.2	X	178.33817	338.30149	113.12424	6.02380	0.0840788	0.30430739	2.1890771	20	6 29.1	20.2
361053 2005 <i>YH</i> ₄₃	17.8	X	254.12199	259.09942	138.32554	2.90492	0.0358670	0.30839953	2.1696694	20	7 28.1	20.2
361054 2005 <i>YZ</i> ₄₇	15.3	X	177.95150	0.31227	109.73879	29.22635	0.1348642	0.16996286	3.2277511	20	7 16.8	20.5
361055 2005 <i>YK</i> ₅₇	16.1	X	331.55014	288.31029	61.50752	3.95649	0.1026178	0.17984065	3.1084518	20	8 29.6	19.9
361056 2005 <i>YT</i> ₆₃	16.0	X	72.93321	290.48581	295.05014	8.50948	0.1056825	0.17109860	3.2134515	20	8 14.5	20.6
361057 2005 <i>YB</i> ₈₅	15.9	X	8.70853	262.06057	92.17468	11.37468	0.0558250	0.18985628	2.9981457	20	11 2.6	20.0
361058 2005 <i>YT</i> ₁₁₃	15.4	X	235.98430	342.33890	89.20179	9.67128	0.0584477	0.17474366	3.1686074	20	8 7.5	20.1
361059 2005 <i>YQ</i> ₁₁₉	16.2	X	93.08767	128.59961	119.55525	8.96883	0.1456598	0.17929684	3.1147340	20	10 16.1	21.1
361060 2005 <i>YN</i> ₁₂₀	15.6	X	268.72457	255.95215	122.28525	8.58838	0.0101067	0.17007261	3.2263623	20	7 15.8	20.1
361061 2005 <i>YQ</i> ₁₃₉	17.7	X	250.23488	49.92448	291.16777	6.51937	0.0310293	0.29886417	2.2155768	20	4 25.7	20.5
361062 2005 <i>YR</i> ₁₅₂	15.9	X	299.63025	287.93457	60.12715	10.81069	0.0923494	0.17731655	3.1378815	20	7 7.6	20.2
361063 2005 <i>YH</i> ₁₆₇	15.5	X	178.79994	329.78554	126.88154	13.17460	0.1541967	0.16794331	3.2535757	20	7 1.6	20.8
361064 2005 <i>YH</i> ₁₉₂	15.6	X	337.91640	232.08437	112.80841	10.72866	0.1720764	0.17648491	3.1477314	20	9 1.8	19.1
361065 2005 <i>YQ</i> ₂₁₁	17.4	X	167.88547	36.82763	23.12921	5.56036	0.2356759	0.29952446	2.2123195	20	5 7.3	21.1
361066 2005 <i>YO</i> ₂₁₅	15.8	X	180.42228	67.05438	74.53145	17.60412	0.0997606	0.18259221	3.0771445	20	9 6.3	20.9
361067 2005 <i>YX</i> ₂₁₇	16.3	X	272.16006	127.80464	273.14054	4.93794	0.0477849	0.17979783	3.1089453	20	8 12.1	20.6
361068 2005 <i>YQ</i> ₂₃₂	16.0	X	172.00168	172.81190	282.58912	3.70395	0.1527492	0.17160183	3.2071660	20	6 23.8	21.2
361069 2005 <i>YU</i> ₂₆₅	16.2	X	151.11766	37.12910	96.70158	3.32939	0.0734227	0.16818426	3.2504674	20	7 18.5	21.2
361070 2005 <i>YN</i> ₂₇₉	16.0	X	255.03644	320.05854	106.09822	10.95127	0.0690924	0.17845400	3.1245335	20	8 23.6	20.5
361071 2006 <i>AO</i> ₄	15.4	X	206.56391	50.43923	318.44270	24.38276	0.5856080	0.23184574	2.6242385	20	3 21.2	21.6
361072 2006 <i>AX</i> ₄₆	15.6	X	258.45555	273.39120	124.90478	10.00372	0.0714904	0.17343235	3.1845591	20	7 19.6	20.2
361073 2006 <i>AO</i> ₄₇	15.8	X	290.75602	250.11883	123.87638	16.70137	0.0806939	0.17469184	3.1692340	20	7 29.9	20.1
361074 2006 <i>AX</i> ₇₃	17.7	X	18.20633	281.25608	352.54131	4.61199	0.0420900	0.30750921	2.1738553	20	8 10.7	19.8
361075 2006 <i>BQ</i> ₁₂	17.5	X	120.56973	117.37103	324.99269	5.91694	0.1236935	0.28758612	2.2731291	20	4 8.3	20.6
361076 2006 <i>BH</i> ₂₄	15.8	X	340.81105	223.91656	131.01035	10.14364	0.1413135	0.18002463	3.1063337	20	9 22.4	19.4
361077 2006 <i>BO</i> ₃₁	17.8	X	108.58650	349.10934	107.58599	5.29415	0.1603513	0.28996509	2.2606791	20	4 23.9	20.7
361078 2006 <i>BX</i> ₄₅	16.9	X	56.42161	220.76915	320.07378	7.36379	0.0769570	0.29146842	2.2528990	20	5 21.4	19.4
361079 2006 <i>BQ</i> ₇₈	17.4	X	28.19401	326.27201	304.85907	3.42043	0.1630535	0.30525965	2.1845221	20	9 9.4	19.3
361080 2006 <i>BA</i> ₈₈	15.5	X	337.44018	228.52547	129.11388	11.93167	0.1230280	0.17660023	3.1463609	20	9 19.8	19.4
361081 2006 <i>BY</i> ₈₈	18.2	X	41.67818	169.20172	345.26089	1.88573	0.1608129	0.28557453	2.2837912	20	3 26.3	19.9
361082 2006 <i>BU</i> ₉₆	17.2	X	101.50363	150.12538	324.15040	6.45997	0.0346971	0.28735952	2.2743239	20	4 13.4	20.0
361083 2006 <i>BU</i> ₁₀₇	18.0	X	114.43664	15.96359	110.12319	3.65805	0.0962219	0.29579360	2.2308834	20	6 1.0	20.7
361084 2006 <i>BE</i> ₁₁₈	18.2	X	60.21592	314.07929	187.29896	1.64390	0.1264331	0.28609448	2.2810234	20	4 7.5	20.3
361085 2006 <i>BW</i> ₁₃₃	17.9	X	67.48124	354.42996	151.88015	7.32813	0.1597921	0.28796941	2.2711116	20	5 6.4	20.3
361086 2006 <i>BL</i> ₁₈₅	17.9	X	237.93130	276.68455	105.35705	2.76549	0.2175490	0.30296195	2.1955533	20	5 20.9	21.3
361087 2006 <i>BF</i> ₁₈₉	17.6	X	358.19002	182.26377	98.79223	4.32486	0.1643610	0.29588560	2.2304209	20	7 23.9	18.9
361088 2006 <i>BP</i> ₁₉₆	17.3	X	38.78380	252.06863	305.81802	4.83469	0.1543227	0.29007597	2.2601029	20	5 29.8	19.3
361089 2006 <i>BN</i> ₂₄₆	17.8	X	60.92514	56.87669	125.09767	2.78678	0.0641021	0.29402692	2.2398107	20	5 31.3	20.1
361090 2006 <i>BB</i> ₂₄₈	18.3	X	7.34864	105.12595	131.87736	4.63305	0.1364258	0.29118682	2.2543512	20	5 27.2	20.1
361091 2006 <i>BE</i> ₂₅₆	17.4	X	356.34999	258.72174	24.08695	2.09474	0.1664294	0.29747808	2.2224538	20	7 23.1	18.7
361092 2006 <i>BN</i> ₂₇₄	17.8	X	295.73051	349.30134	320.55999	1.21052	0.1277044	0.29067006	2.2570223	20	5 2.7	20.1
361093 2006 <i>BN</i> ₂₇₉	15.4	X	94.39313	63.39310	150.96917	10.64432	0.0437887	0.16829579	3.2490312	20	8 19.6	19.9
361094 2006 <i>CJ</i> ₆₀	18.8	X	112.15973	328.02343	164.65643	5.15365	0.1282404	0.43221784	1.7324775	20	6 14.0	20.3
361095 2006 <i>DD</i>	17.0	X	75.93690	141.23003	6.47020	22.94758	0.2081440	0.28963511	2.2623957	20	5 17.5	20.1
361096 2006 <i>DW</i> ₁₄	15.3	X	252.21874	303.77552	97.75912	10.47767	0.0807758	0.16855163	3.2457427	20	7 14.9	19.9
361097 2006 <i>DJ</i> ₂₄	15.3	X	228.11593	20.61168	61.13434	10.39594	0.0404840	0.17036499	3.2226698	20	8 14.8	20.1
361098 2006 <i>DL</i> ₂₄	17.3	X	358.18014	150.09212	146.08629	4.76869	0.1278584	0.29985680	2.2106846	20	8 16.5	19.0
361099 2006 <i>DU</i> ₂₆	17.5	X	111.58495	354.15349	159.72528	5.86137	0.0829806	0.29556833	2.2320168	20	7 4.9	20.4
361100 2006 <i>DV</i> ₃₆	16.9	X	269.50131	340.37578	350.73657	7.03273	0.1600053	0.28740632	2.2740771	20	4 19.8	20.1
361101 2006 <i>DP</i> ₅₉	17.2	X	291.21367	330.93202	341.44822	3.75075	0.0916359	0.28829570	2.2693977	20	5 4.8	19.8
361102 2006 <i>DU</i> ₅₉	17.2	X	350.76282	291.81789	352.05285	7.58085	0.0875751	0.29336806	2.2431630	20	7 10.1	19.4
361103 2006 <i>DR</i> ₇₀	18.1	X	144.22749	107.93308	328.92730	2.19308	0.1758958	0.29266720	2.2467427	20	5 4.9	21.4
361104 2006 <i>DZ</i> ₉₉	18.0	X	175.00376	59.66548	3.06622	6.55156	0.0702137	0.29279839	2.2460716	20	5 12.8	21.0
361105 2006 <i>DN</i> ₁₁₈	17.7	X	342.49899	195.32784	359.17378	2.47432	0.1319782	0.27663872	2.3327100	20	2 1.2	19.9
361106 2006 <i>DW</i> ₁₂₃	17.8	X	159.50289	76.56870	335.77136	3.01594	0.1618028	0.28944267	2.2633984	20	4 16.5	21.2
361107 2006 <i>DN</i> ₁₆₁	18.1	X	351.17644	57.92582	172.49662	1.38833	0.1764708	0.28423353	2.2909688	20	4 5.0	19.7
361108 2006 <i>DZ</i> ₁₉₈	17.8	X	63.38613	77.06001	69.61156	5.58369	0.1315618	0.28722095	2.2750554	20	4 23.9	20.0
361109 2006 <i>DF</i> ₂₀₆	17.3	X	68.16078	180.08753	336.96810	7.30820	0.0428547	0.28810880	2.2703790	20	4 27.5	20.0
361110 2006 <i>DS</i> ₂₀₉	17.0	X	315.51947	336.51977	347.50348	4.88425	0.2189340	0.29390147	2.2404480	20	6 14.5	18.7
361111 2006 <i>DR</i> ₂₁₁	18.0	X	35.83491	174.53673	350.55823	3.56826	0.1284251					

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361121 2006 <i>FD</i> ₄₄	17.3	X	0.66688	141.51345	94.90423	6.95172	0.1293281	0.28662059	2.2782312	20	5 12.4	19.2
361122 2006 <i>GW</i> ₁	17.8	X	353.33994	206.81981	34.88975	6.40269	0.1285941	0.28503021	2.2866979	20	5 2.3	19.5
361123 2006 <i>GW</i> ₂	20.2	X	8.36169	114.97546	135.98963	9.42010	0.1910095	0.56548625	1.4482872	20	8 14.5	18.4
361124 2006 <i>GC</i> ₄	17.8	X	41.04056	52.28550	186.36802	4.61531	0.1039571	0.29600194	2.2298364	20	7 30.5	20.0
361125 2006 <i>GP</i> ₁₅	17.2	X	352.91996	226.95408	40.27907	7.15723	0.1514844	0.28704533	2.2759833	20	6 12.9	18.9
361126 2006 <i>GR</i> ₁₅	17.4	X	78.81963	81.03636	44.51793	6.06315	0.1045178	0.28132400	2.3067376	20	4 13.1	19.8
361127 2006 <i>GT</i> ₂₀	16.9	X	280.76331	284.57407	47.89800	7.30486	0.1454492	0.28510998	2.2862713	20	5 11.4	19.4
361128 2006 <i>GG</i> ₂₁	18.1	X	293.23941	257.79671	348.32302	2.29659	0.1341586	0.27460104	2.3442357	20	2 2.2	21.0
361129 2006 <i>GQ</i> ₂₁	17.9	X	294.07646	5.64366	267.56256	1.02177	0.2157295	0.27765232	2.3270293	20	2 26.3	21.0
361130 2006 <i>GJ</i> ₂₃	17.7	X	342.98605	75.48837	179.76995	4.49911	0.1105534	0.28316648	2.2967205	20	5 6.8	19.8
361131 2006 <i>GH</i> ₂₆	17.4	X	341.69648	350.94004	198.37015	11.33415	0.1764978	0.27271245	2.3550460	20	1 13.8	20.2
361132 2006 <i>GM</i> ₂₈	17.6	X	315.11551	215.03830	41.84893	5.71631	0.1386803	0.27715833	2.3297935	20	3 18.6	20.2
361133 2006 <i>GZ</i> ₃₆	17.5	X	352.94850	85.51608	171.35856	2.99040	0.1867216	0.28490044	2.2873922	20	5 25.8	18.9
361134 2006 <i>GX</i> ₄₄	17.5	X	276.87163	106.35898	185.32498	6.15463	0.1528261	0.27909915	2.3189802	20	3 9.6	20.7
361135 2006 <i>HL</i> ₉	17.4	X	351.29971	169.49355	80.71306	2.48345	0.1807939	0.28470723	2.2884269	20	5 9.5	19.0
361136 2006 <i>HM</i> ₄₀	17.3	X	330.48062	242.57475	25.56284	7.35785	0.1044921	0.28276099	2.2989157	20	5 1.5	19.4
361137 2006 <i>HV</i> ₄₃	17.8	X	228.80379	307.62654	29.25759	2.77336	0.1361022	0.27294277	2.3537210	20	3 20.6	21.4
361138 2006 <i>HP</i> ₄₄	16.9	X	146.37516	359.78985	56.45608	11.57291	0.0921132	0.27510413	2.3413768	20	4 8.9	20.2
361139 2006 <i>HN</i> ₅₇	18.3	X	33.38434	111.19134	34.25919	2.13947	0.1251518	0.27525793	2.3405045	20	2 24.4	20.2
361140 2006 <i>HL</i> ₆₁	18.1	X	305.14041	54.28376	202.47531	8.52801	0.2127850	0.27572688	2.3378500	20	2 16.1	21.3
361141 2006 <i>HQ</i> ₆₅	17.7	X	272.67371	253.95280	53.88101	8.11299	0.1684876	0.27529435	2.3402981	20	3 29.1	21.0
361142 2006 <i>HG</i> ₈₁	17.5	X	214.34728	60.20641	268.94257	0.91228	0.1053388	0.26951533	2.3736339	20	2 25.2	20.9
361143 2006 <i>HV</i> ₈₂	18.2	X	322.94935	11.89897	226.36331	0.52251	0.1457630	0.27462044	2.3441252	20	2 29.3	20.9
361144 2006 <i>HK</i> ₈₃	17.9	X	272.92800	121.51666	194.40745	5.80279	0.2833129	0.27377840	2.3489292	20	3 22.5	21.3
361145 2006 <i>HE</i> ₈₄	17.8	X	305.63909	136.27885	141.59816	3.81202	0.1988080	0.27562768	2.3384109	20	3 23.1	20.4
361146 2006 <i>HT</i> ₈₄	17.5	X	57.90680	37.91462	80.11807	6.78945	0.0451357	0.27027591	2.3691787	20	2 24.6	20.3
361147 2006 <i>HN</i> ₈₇	17.9	X	22.39766	14.73082	192.40866	2.43141	0.1452339	0.28452250	2.2894174	20	5 10.2	19.7
361148 2006 <i>HU</i> ₉₅	17.8	X	223.02861	129.31659	193.14395	0.77724	0.1987324	0.26795757	2.3828243	20	2 23.2	21.6
361149 2006 <i>HC</i> ₉₉	18.4	X	276.10784	219.28246	74.30685	2.24043	0.1872748	0.27303069	2.3532157	20	3 9.6	21.8
361150 2006 <i>HL</i> ₁₀₅	16.5	X	311.06284	151.66049	117.03839	24.23969	0.1380878	0.27724786	2.3292919	20	4 9.5	19.8
361151 2006 <i>HO</i> ₁₀₈	17.6	X	27.43507	49.53701	152.64333	6.09116	0.1274085	0.28241428	2.3007969	20	5 13.2	19.7
361152 2006 <i>HD</i> ₁₅₂	17.9	X	328.00317	141.48301	100.92319	3.01380	0.1783998	0.27743203	2.3282609	20	3 10.6	20.3
361153 2006 <i>HJ</i> ₁₅₂	18.1	X	340.65831	212.60461	39.41601	5.43513	0.1121754	0.28456604	2.2891838	20	4 25.6	20.1
361154 2006 <i>JX</i> ₁	17.1	X	336.42776	32.38657	212.82265	9.75850	0.1469779	0.27897686	2.3196578	20	3 31.5	19.5
361155 2006 <i>JN</i> ₁₃	16.9	X	222.13327	218.90261	68.25807	14.07883	0.1557889	0.26176432	2.4202622	20	1 13.2	20.9
361156 2006 <i>JJ</i> ₃₁	17.8	X	294.87384	135.22876	150.45980	4.68336	0.2479426	0.27449302	2.3448506	20	3 11.9	21.1
361157 2006 <i>JF</i> ₄₄	16.8	X	208.00699	298.63546	67.01514	8.36167	0.1332223	0.27559889	2.3385737	20	4 8.8	20.4
361158 2006 <i>JN</i> ₄₉	16.4	X	195.53390	314.42492	44.90972	15.29042	0.1611256	0.27043790	2.3682326	20	3 23.6	20.4
361159 2006 <i>JU</i> ₅₂	17.5	X	260.21003	291.38013	53.86785	3.99218	0.2004571	0.28045481	2.3115012	20	4 26.8	20.8
361160 2006 <i>JP</i> ₆₂	17.5	X	30.36547	77.35175	174.00095	6.37618	0.0773551	0.29878165	2.2159848	20	7 27.9	19.9
361161 2006 <i>KS</i> ₃	17.2	X	39.92897	5.31592	206.21891	6.91896	0.0673075	0.28782087	2.2718929	20	6 11.3	19.6
361162 2006 <i>KJ</i> ₇	17.3	X	113.75798	10.73706	62.10749	5.41560	0.0392871	0.27138710	2.3627073	20	3 12.1	20.2
361163 2006 <i>KB</i> ₉	17.5	X	295.80129	21.82765	238.03421	4.71780	0.1596029	0.27168464	2.3609819	20	2 17.5	20.7
361164 2006 <i>KK</i> ₂₃	18.1	X	358.90742	175.79041	56.17375	0.99899	0.2527546	0.28005221	2.3137160	20	4 20.9	19.3
361165 2006 <i>KD</i> ₄₁	17.5	X	292.19526	350.73405	229.12708	6.52121	0.0611630	0.26467330	2.4024957	20	1 7.5	20.7
361166 2006 <i>KN</i> ₆₄	17.5	X	274.57358	352.76369	264.78543	2.17943	0.1462812	0.26692925	2.3889402	20	1 25.5	20.9
361167 2006 <i>KY</i> ₆₄	17.9	X	343.83953	326.14159	254.45744	1.64854	0.1672379	0.27489957	2.3425381	20	3 6.1	20.0
361168 2006 <i>KS</i> ₈₁	17.2	X	333.98049	145.35227	118.96151	7.22774	0.1035424	0.27942405	2.3171823	20	5 6.9	19.6
361169 2006 <i>KC</i> ₈₃	17.4	X	336.72294	239.52165	12.51468	2.45462	0.1920878	0.27969384	2.3156920	20	4 6.4	19.3
361170 2006 <i>KN</i> ₉₂	17.5	X	298.03611	71.84291	211.18618	6.10512	0.1114219	0.27615455	2.3354357	20	3 31.3	20.4
361171 2006 <i>KH</i> ₁₀₇	17.4	X	330.19789	248.94715	38.89764	7.86169	0.1087664	0.28572731	2.2829771	20	5 31.7	19.5
361172 2006 <i>KM</i> ₁₀₇	17.0	X	23.17802	284.21313	230.61409	9.30021	0.0651469	0.27371151	2.3493119	20	2 14.3	19.8
361173 2006 <i>LZ</i> ₅	17.0	X	223.72259	205.06523	107.97958	3.51683	0.2052884	0.25930687	2.4355293	20	2 14.1	21.0
361174 2006 <i>OF</i> ₈	17.4	X	240.24547	174.41059	127.48745	2.93037	0.1701104	0.26127452	2.4232860	20	2 15.5	21.1
361175 2006 <i>OV</i> ₁₉	16.1	X	153.19001	264.41534	63.59986	15.54640	0.1708865	0.24506556	2.5289943	20	—	—
361176 2006 <i>PF</i> ₆	17.4	X	227.69117	233.80953	107.22476	2.67487	0.1813251	0.26277566	2.4140483	20	3 23.8	21.1
361177 2006 <i>PC</i> ₁₆	17.0	X	253.41851	201.30180	118.52394	5.66669	0.1875222	0.26353336	2.4094189	20	3 21.9	20.8
361178 2006 <i>PH</i> ₁₈	17.2	X	196.32725	237.87170	96.41162	2.24421	0.1518665	0.25528871	2.4610191	20	2 16.7	21.1
361179 2006 <i>PJ</i> ₂₅	17.6	X	256.28623	114.89387	161.43182	1.32621	0.1651583	0.25821272	2.4424047	20	1 30.1	21.4
361180 2006 <i>QK</i> ₃	16.0	X	100.95867	181.97068	165.25714	35.16539	0.2171687	0.23428332	2.6060044	20	—	—
361181 2006 <i>QL</i> ₂₄	17.4	X	207.45389	280.22061	61.36462	3.23719	0.2077208	0.25677259	2.4515285	20	3 7.1	21.5
361182 2006 <i>QV</i> ₃₂	17.3	X	248.01185	127.76729	167.43705	11.24726	0.2583193	0.25900079	2.4374478	20	2 7.6	21.6
361183 Tandon	16.9	X	318.70917	81.19191	335.79894	8.96097	0.1400774	0.21950819	2.7216706	20	11 8.7	19.9
361184 2006 <i>QM</i> ₃₈	16.0	X	68.00006	23.14065	323.48224	12.59661	0.1616389	0.22999863	2.6382699	20	—	—
361185 2006 <i>QP</i> ₃₈	17.0	X	151.91199	349.95595	154.25370	14.10764	0.2131919	0.24113598	2.5563955	20	—	—
361186 2006 <i>QE</i> ₄₁	16.8	X	166.00256	265.27520	51.96101	3.97080	0.1087430	0.24578705	2.5240428	20	—	—
361187 2006 <i>QW</i> ₇₀	17.0	X	288.66974	111.51977	347.94969	8.80479	0.1616123	0.22099686	2.7094345	20	11 11.7	20.1
361188 2006 <i>QD</i> ₈₆	16.8	X	36.11433	243.95963	159.72794	7.77255	0.1832531	0.23238265	2.6201948	20	—	—
361189 2006 <i>QC</i> ₁₃₃	16.5	X	55.61538	291.53192	67.52696	8.30031	0.1249396	0.22839868	2.6505764	20	—	—
361190 2006 <i>QR</i> ₁₃₆	16.2	X	69.21697	2.11499	345.69089	11.92118	0.1718693	0.22498002	2.6773599	20	—	—
361191 2006 <i>QF</i> ₁₆₉	16.5	X	112.52043	356.15960	352.66845	9.07957	0.1801876	0.23500363	2.6006765	20	—	—
361192 2006 <i>QZ</i> ₁₇₈												

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361201 2006 RQ ₃₂	16.6	X	56.21500	352.68694	2.32498	11.33476	0.0955066	0.22478132	2.6789375	20	—	—
361202 2006 RZ ₃₃	16.6	X	350.53308	99.39476	328.16623	7.47831	0.1702741	0.22487023	2.6782313	20	—	—
361203 2006 RE ₃₉	16.6	X	47.12312	16.89884	13.61100	14.25744	0.1753975	0.22757017	2.6570057	20	—	—
361204 2006 RX ₄₅	17.1	X	131.04306	244.29381	71.88845	2.37516	0.0375608	0.23182497	2.6243952	20	—	—
361205 2006 RA ₇₅	18.5	X	135.09174	168.08648	180.05575	19.13094	0.0672261	0.38429945	1.8736546	20	—	—
361206 2006 RF ₇₈	16.7	X	318.24422	59.39186	12.74225	9.54452	0.0866508	0.21926821	2.7236561	20	11 30.8	20.1
361207 2006 RZ ₈₅	17.4	X	24.60402	16.80246	11.26640	4.97661	0.0213700	0.22494113	2.6776684	20	—	—
361208 2006 RK ₈₉	16.8	X	196.49640	300.10664	336.57222	2.02149	0.1467400	0.23960059	2.5673050	20	—	—
361209 2006 RH ₉₁	16.9	X	51.40311	177.46074	188.93106	6.23424	0.0681596	0.22529278	2.6748814	20	—	—
361210 2006 RN ₉₄	16.9	X	100.40463	354.53122	355.56477	4.97951	0.1413987	0.23213919	2.6220265	20	—	—
361211 2006 RR ₉₅	17.0	X	350.39631	76.06554	350.91577	1.47895	0.0656609	0.22282472	2.6945969	20	—	—
361212 2006 SK ₁	16.5	X	9.75431	191.20960	186.61664	9.24615	0.1472673	0.22046679	2.7137756	20	12 19.1	19.9
361213 2006 SA ₁₂	17.6	X	35.75702	210.88602	197.61807	20.57077	0.0827865	0.37377367	1.9086673	20	—	—
361214 2006 SO ₁₈	16.7	X	356.13430	231.03506	165.01598	6.31478	0.1451525	0.21850097	2.7300282	20	12 21.1	19.9
361215 2006 SM ₃₂	17.1	X	0.57838	15.72198	4.36675	13.14926	0.1623643	0.21800608	2.7336567	20	12 6.5	20.5
361216 2006 SY ₃₉	16.6	X	226.34501	220.08870	10.20576	10.85009	0.0789208	0.23695474	2.5863807	20	—	—
361217 2006 SL ₄₄	16.7	X	196.29489	303.54123	327.52647	9.31696	0.1862270	0.24119200	2.5559996	20	—	—
361218 2006 SL ₅₀	16.9	X	255.58877	107.39537	203.63684	21.08332	0.2530502	0.26001797	2.4310868	20	3 1.0	21.3
361219 2006 SW ₇₀	16.8	X	8.50594	184.29415	191.51543	7.79809	0.0425991	0.21700368	2.7425717	20	11 30.8	20.4
361220 2006 SD ₈₇	17.1	X	219.33794	15.19348	183.99908	3.23347	0.0221553	0.22443814	2.6816676	20	—	—
361221 2006 SU ₈₈	17.2	X	218.86720	266.53856	31.08099	5.54509	0.0750029	0.24601963	2.5224518	20	1 26.8	20.9
361222 2006 SB ₉₆	17.1	X	248.90149	127.10810	37.82892	3.45952	0.0691203	0.22114648	2.7082122	20	12 23.8	20.7
361223 2006 SS ₉₈	17.4	X	155.37778	307.88356	14.38040	2.49442	0.1194070	0.23801435	2.5786988	20	—	—
361224 2006 SH ₉₉	17.6	X	50.00132	182.90742	198.02985	1.77499	0.0934514	0.22635464	2.6665094	20	—	—
361225 2006 SOW ₁₀₆	16.8	X	18.22149	190.15770	195.99788	4.58484	0.0847677	0.22231681	2.6986994	20	—	—
361226 2006 SA ₁₀₈	16.3	X	118.60839	115.51485	193.23979	13.35526	0.0936786	0.23057784	2.6338498	20	—	—
361227 2006 SG ₁₁₃	17.4	X	77.05208	182.79814	176.46360	14.16556	0.0888903	0.23217762	2.6217371	20	—	—
361228 2006 SH ₁₂₄	16.2	X	88.80296	322.39847	35.59675	22.17601	0.0851432	0.23127703	2.6285387	20	—	—
361229 2006 SB ₁₂₇	17.6	X	39.76318	0.80097	53.21146	20.74673	0.0970004	0.37548003	1.9028804	20	—	—
361230 2006 SB ₁₃₃	16.2	X	329.60842	97.40103	319.21963	10.97037	0.0964239	0.21723429	2.7406303	20	11 28.0	19.6
361231 2006 ST ₁₅₂	16.7	X	348.32078	17.62050	31.68543	8.91170	0.1182043	0.21823534	2.7322430	20	12 22.2	20.0
361232 2006 SL ₁₆₅	17.3	X	0.44757	117.40180	301.41722	3.93764	0.0540860	0.22640516	2.6661127	20	—	—
361233 2006 SF ₁₆₇	17.3	X	157.78719	320.80491	354.83208	11.45998	0.1192636	0.23964174	2.5670110	20	—	—
361234 2006 SO ₁₇₀	17.3	X	252.07074	23.06780	212.25791	1.49797	0.1119746	0.24254862	2.5464599	20	—	—
361235 2006 SG ₁₇₉	16.4	X	14.37286	25.12720	21.83333	11.91882	0.1716247	0.22422810	2.6833420	20	—	—
361236 2006 SM ₁₈₄	17.7	X	270.95137	266.25816	189.45470	9.00069	0.1442507	0.21142300	2.7906234	20	10 13.4	21.2
361237 2006 SZ ₁₉₆	16.6	X	41.88172	176.73214	204.85482	13.69982	0.2532363	0.22351229	2.6890679	20	—	—
361238 2006 SO ₂₀₇	16.7	X	187.19364	263.64275	4.22612	9.79352	0.0363018	0.23144979	2.6272306	20	—	—
361239 2006 SQ ₂₁₂	16.3	X	68.22471	157.35387	223.30898	11.97078	0.1460619	0.22949075	2.6421609	20	—	—
361240 2006 SF ₂₂₃	16.6	X	238.56079	183.12749	339.37345	4.73810	0.0560009	0.21864892	2.7287966	20	12 7.9	20.2
361241 2006 SG ₂₂₉	16.8	X	113.96830	325.27684	13.92027	11.97805	0.1372199	0.23541935	2.5976140	20	—	—
361242 2006 SV ₂₃₂	17.0	X	171.29533	327.95220	341.39502	5.95254	0.1407118	0.24138368	2.5546463	20	—	—
361243 2006 SX ₂₄₉	17.6	X	53.69199	147.91046	237.18269	1.39559	0.0197209	0.22926043	2.6439302	20	—	—
361244 2006 SO ₂₅₂	16.9	X	34.00605	195.83412	204.79831	5.90044	0.0317395	0.22855971	2.6493312	20	—	—
361245 2006 SB ₂₆₀	17.6	X	173.30170	285.86954	339.31581	1.60185	0.0310852	0.22928991	2.6437035	20	—	—
361246 2006 SE ₂₆₀	17.2	X	173.03968	90.30722	200.27940	14.55342	0.1243177	0.23649702	2.5897167	20	—	—
361247 2006 SC ₂₆₂	16.8	X	118.74661	313.76615	32.56590	6.58441	0.1755918	0.23443679	2.6048669	20	—	—
361248 2006 SE ₂₆₃	16.5	X	234.41187	164.11241	266.64002	5.46640	0.2025763	0.19679707	2.9272308	20	7 18.0	21.2
361249 2006 SY ₂₆₃	16.4	X	222.40881	19.43068	238.12426	8.59834	0.1524798	0.23853454	2.5749484	20	—	—
361250 2006 SV ₂₇₃	16.7	X	299.46605	224.05525	224.79645	3.58893	0.0329636	0.21244235	2.7816895	20	11 27.4	20.1
361251 2006 SY ₂₇₃	16.1	X	229.07518	90.88335	48.36687	15.59881	0.0993488	0.20658350	2.8340378	20	10 23.5	20.2
361252 2006 SY ₂₇₉	15.9	X	349.34914	216.14841	211.31324	21.13428	0.0675698	0.22301733	2.6930452	20	—	—
361253 2006 SA ₃₀₁	16.7	X	354.33948	225.78988	189.40786	5.84191	0.0556534	0.22411085	2.6842778	20	—	—
361254 2006 SN ₃₁₆	16.5	X	138.48125	273.21909	29.52366	11.66917	0.0740315	0.23065784	2.6332407	20	—	—
361255 2006 SY ₃₁₇	16.9	X	280.37613	37.80412	52.04353	5.70510	0.1357235	0.21225314	2.7833424	20	10 21.9	20.2
361256 2006 SK ₃₁₈	17.1	X	258.67319	337.48011	151.10950	5.25413	0.0746797	0.21664244	2.7456195	20	11 20.1	20.7
361257 2006 SS ₃₂₂	16.5	X	347.02840	84.15585	22.33815	22.21594	0.0783311	0.23024790	2.6363654	20	—	—
361258 2006 SY ₃₂₇	17.1	X	164.53562	116.19538	183.01174	7.31994	0.0536510	0.23340783	2.6125169	20	—	—
361259 2006 SS ₃₃₅	17.3	X	5.15569	348.04740	76.14092	4.93210	0.0759754	0.22605220	2.6688872	20	—	—
361260 2006 SG ₃₄₂	17.2	X	235.38643	12.80748	256.61374	4.13842	0.1725510	0.24483552	2.5305782	20	1 4.2	21.2
361261 2006 SS ₃₅₃	16.8	X	96.11188	315.41644	39.14923	13.88153	0.1424459	0.23178702	2.6246817	20	—	—
361262 2006 SE ₃₅₇	16.5	X	113.20901	303.98885	49.19219	9.56593	0.1421861	0.23373198	2.6101008	20	—	—
361263 2006 SD ₃₆₆	16.1	X	42.05677	348.35335	34.64529	13.87477	0.1051436	0.22347791	2.6893437	20	—	—
361264 2006 SB ₃₇₀	16.9	X	118.26509	330.36105	355.44206	2.98041	0.0748196	0.23214157	2.6220086	20	—	—
361265 2006 SS ₃₇₂	16.5	X	62.57619	355.54720	344.18401	9.07564	0.1378978	0.22278399	2.6949253	20	—	—
361266 2006 SA ₃₇₆	16.0	X	123.88490	26.76302	105.23533	5.86655	0.2037623	0.18718905	3.0265586	20	6 28.1	20.9
361267 2006 I' iwi	17.3	X	240.97585	151.64000	14.96717	7.27246	0.1476705	0.22186073	2.7023966	20	12 2.8	21.0
361268 2006 SU ₃₉₈	16.9	X	317.23337	226.35851	218.97988	4.32041	0.0899277	0.22078727	2.7111488	20	12 19.4	20.0
361269 2006 SR ₃₉₉	16.8	X	138.34434	346.36097	332.05094	4.90377	0.1260112	0.23463302	2.6034144	20	—	—
361270 2006 SD ₄₀₄	17.1	X	156.15916	279.06017	15.23992	5.95733	0.1170909	0.23034449	2.6356283	20	—	—
361271 2006 SK ₄₀₅	17.0	X	37.66129	132.23088	246.16294	2.64148	0.0173772	0.22412397	2.6841730	20	—	—
361272 2006 SD ₄₀₇	16.3	X	116.96241	220.91997	106.24118	9.70254	0.2029106	0.23208839	2.6224091	20	—	—
361273 2006 SV ₄₀₇	16.1	X	118.68889	279.26377	24.21119	13.96878	0.1466713	0.22671745	2.6636638	20	—	—
361274 2006 SQ ₄₁₁	17.0	X	62.73018	334.54384	34.55386	6.03680	0.1930036	0.22887525	2.6468957	20	—	—
361275 2006 TC ₄	16.8	X	33.77270	184.72000	190.25170	8.93249	0.1592552	0.22072280	2.7116767	2		

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361281 2006 TR ₂₉	16.9	X	265.66989	36.03978	85.48232	1.83831	0.0208184	0.21532021	2.7568482	20	11 25.9	20.7
361282 2006 TC ₃₁	16.9	X	13.34939	349.99185	33.76685	10.11035	0.2499599	0.21882758	2.7273111	20	—	—
361283 2006 TP ₃₁	17.0	X	354.58901	25.08536	36.30509	7.08955	0.0381380	0.22132168	2.7067828	20	—	—
361284 2006 TS ₃₄	16.6	X	41.34249	355.94585	27.81222	6.76083	0.0338637	0.22288175	2.6941372	20	—	—
361285 2006 TY ₃₄	17.0	X	57.55966	325.96949	17.56876	5.28747	0.0087122	0.21795120	2.7346172	20	12 17.2	20.7
361286 2006 TB ₃₅	17.1	X	317.04346	73.22789	11.46651	3.15233	0.0876479	0.21666771	2.7454060	20	12 16.7	20.5
361287 2006 TX ₃₅	16.5	X	283.69284	88.91797	29.36020	7.62350	0.1036232	0.21557170	2.7547037	20	12 6.1	20.0
361288 2006 TL ₄₀	16.9	X	275.69015	251.32369	225.25577	1.95910	0.0637930	0.21451019	2.7637840	20	11 27.7	20.2
361289 2006 TV ₄₁	17.4	X	167.17723	266.46713	47.42871	1.24483	0.1848237	0.23725311	2.5842118	20	—	—
361290 2006 TQ ₄₇	17.0	X	26.67892	243.13974	112.14822	1.36305	0.0817774	0.21448547	2.7639963	20	12 2.9	20.6
361291 2006 TW ₄₇	16.4	X	84.19645	310.84023	39.17554	15.31465	0.0722445	0.22522110	2.6754490	20	—	—
361292 2006 TA ₄₉	16.6	X	62.03204	122.63126	231.14709	11.89255	0.1608312	0.22368258	2.6877030	20	—	—
361293 2006 TV ₅₂	16.7	X	283.24460	338.19331	108.40189	1.75313	0.0395519	0.20926770	2.8097515	20	11 1.8	20.3
361294 2006 TN ₅₅	17.7	X	344.40498	215.57264	194.93550	21.77471	0.1017315	0.36144264	1.9518351	20	—	—
361295 2006 TY ₅₇	16.3	X	131.65907	265.48042	24.90016	12.63710	0.1101008	0.22742366	2.6581467	20	—	—
361296 2006 TX ₅₈	17.0	X	184.19174	229.25870	0.59843	4.75209	0.0531120	0.22070003	2.7118633	20	12 27.9	20.8
361297 2006 TL ₆₃	16.4	X	197.14528	57.01548	233.86179	8.29781	0.2536605	0.24393797	2.5367818	20	—	—
361298 2006 TN ₇₈	16.6	X	117.11062	109.02194	213.38085	9.46239	0.0521301	0.22573867	2.6713579	20	—	—
361299 2006 TX ₇₉	16.7	X	89.68421	326.33884	344.50230	6.26597	0.0175641	0.21863066	2.7289485	20	12 17.4	20.5
361300 2006 TM ₈₀	16.0	X	105.45481	115.66212	225.60205	21.25852	0.0712346	0.22881156	2.6473869	20	—	—
361301 2006 TF ₉₁	17.0	X	135.87089	313.50969	1.35276	2.05785	0.1846962	0.23082238	2.6319892	20	—	—
361302 2006 TZ ₁₀₀	16.5	X	135.05519	64.26039	229.64177	9.26306	0.0184392	0.22428287	2.6829051	20	—	—
361303 2006 TB ₁₀₄	16.4	X	205.04941	185.00642	46.11105	9.62036	0.0361930	0.22501369	2.6770928	20	—	—
361304 2006 TV ₁₀₈	17.3	X	192.79866	247.44602	73.97632	26.73265	0.0461716	0.38937928	1.8573232	20	—	—
361305 2006 TH ₁₂₁	16.7	X	160.66306	266.56571	146.93282	14.12042	0.1630033	0.22589641	2.6701141	20	—	—
361306 2006 TM ₁₂₂	16.8	X	150.06592	40.19119	240.88392	10.30544	0.0641495	0.22346460	2.6894505	20	—	—
361307 2006 TW ₁₂₃	17.2	X	149.78917	247.27798	79.03004	2.70825	0.2097705	0.23771426	2.5808686	20	—	—
361308 2006 UV	17.3	X	300.28073	75.03288	220.48611	5.97379	0.1437338	0.26183049	2.4198544	20	4 17.5	20.2
361309 2006 UW ₄	16.8	X	46.97986	329.21271	36.43892	6.66209	0.0361487	0.22337305	2.6901853	20	—	—
361310 2006 UO ₅	15.9	X	334.50239	59.21892	51.86874	22.29943	0.0666592	0.22530872	2.6747552	20	—	—
361311 2006 UT ₆	16.2	X	80.66435	303.70823	46.73129	14.62700	0.0893746	0.22579024	2.6709511	20	—	—
361312 2006 UG ₁₀	17.2	X	336.70477	94.76051	342.27699	5.92422	0.0202989	0.22164550	2.7041458	20	—	—
361313 2006 UJ ₁₇	17.9	X	175.16060	309.93553	42.91611	22.88490	0.0963377	0.39051905	1.8537076	20	2 9.8	20.6
361314 2006 UZ ₁₉	17.0	X	38.33390	21.46060	2.61045	6.05166	0.0581243	0.22397571	2.6853574	20	—	—
361315 2006 UJ ₂₅	17.1	X	19.69673	17.55367	22.35049	5.73939	0.0036487	0.22285932	2.6943180	20	—	—
361316 2006 UH ₂₈	16.8	X	283.22675	268.50662	211.99183	7.02966	0.0768209	0.21793826	2.7347255	20	12 13.1	20.2
361317 2006 UC ₃₁	16.9	X	130.76126	87.60829	221.05971	4.59065	0.0811959	0.22812545	2.6526924	20	—	—
361318 2006 UU ₃₁	16.5	X	342.48093	202.20774	215.18589	8.75448	0.0446468	0.21791939	2.7348833	20	12 17.6	20.1
361319 2006 UG ₃₄	17.2	X	340.36272	227.21415	198.40482	4.97024	0.0473678	0.21896583	2.7261630	20	12 25.6	20.8
361320 2006 UL ₃₅	17.3	X	164.77941	285.47917	40.51147	23.14326	0.0619902	0.38229035	1.8802135	20	—	—
361321 2006 UJ ₃₅	17.0	X	25.84078	2.88151	24.98857	6.57266	0.0468309	0.22064715	2.7122966	20	—	—
361322 2006 UR ₃₈	16.6	X	38.10774	121.03972	239.37324	1.49834	0.0945533	0.21862190	2.7290214	20	12 26.8	20.4
361323 2006 UK ₄₂	16.9	X	288.78618	38.90324	53.39015	5.18715	0.0345675	0.21207856	2.7848696	20	11 16.9	20.6
361324 2006 UO ₄₂	17.3	X	110.33900	118.54926	211.01481	3.26922	0.1194723	0.22720364	2.6598625	20	—	—
361325 2006 UE ₅₀	17.1	X	89.91966	41.43788	249.35099	5.44266	0.0091730	0.21607707	2.7504068	20	11 21.1	20.8
361326 2006 UL ₅₂	17.3	X	128.98994	203.86656	135.16953	2.68412	0.1541885	0.23516718	2.5944706	20	—	—
361327 2006 UX ₅₇	16.4	X	125.53492	232.30470	57.25243	5.26721	0.0408623	0.22069442	2.7119092	20	—	—
361328 2006 UK ₅₉	17.3	X	280.45010	111.81949	2.61445	2.90345	0.0422027	0.21594818	2.7515011	20	12 3.6	20.9
361329 2006 UO ₆₁	16.6	X	254.09809	83.91810	243.84745	10.20176	0.2971393	0.26181483	2.4199509	20	3 16.7	20.9
361330 2006 UJ ₆₅	16.8	X	27.13492	9.79040	0.54107	5.90305	0.0531523	0.21926830	2.7236553	20	12 19.3	20.4
361331 2006 UC ₆₆	17.3	X	63.62491	196.06131	191.94111	4.21055	0.1142656	0.23258779	2.6186540	20	—	—
361332 2006 UJ ₇₂	16.7	X	340.94753	243.35519	210.27220	21.58663	0.0570800	0.22574852	2.6712802	20	—	—
361333 2006 UJ ₇₉	16.7	X	247.15673	214.25405	15.53432	11.72691	0.1404466	0.23572390	2.5953761	20	—	—
361334 2006 UZ ₈₅	17.1	X	169.16838	47.32205	271.30397	3.11382	0.2154985	0.23975028	2.5662362	20	1 9.0	21.3
361335 2006 UY ₉₀	16.7	X	354.05869	350.88237	33.69864	5.50164	0.1616500	0.21253694	2.7808641	20	12 1.3	19.8
361336 2006 UK ₉₃	17.0	X	308.10053	244.86913	199.54365	8.48046	0.0795530	0.21549993	2.7553152	20	12 3.2	20.4
361337 2006 UG ₉₅	17.3	X	49.48270	268.72570	90.18289	2.92672	0.0903786	0.22124861	2.7073788	20	—	—
361338 2006 UA ₉₆	16.9	X	164.41168	147.63814	116.61530	3.37489	0.0282118	0.22448886	2.6812636	20	—	—
361339 2006 UT ₁₀₀	16.5	X	205.93554	37.93107	193.11790	11.24188	0.1128105	0.22501829	2.6770563	20	—	—
361340 2006 UT ₁₁₂	16.8	X	356.31900	25.48185	19.77935	5.55463	0.0693189	0.21991780	2.7182900	20	12 24.6	20.3
361341 2006 UC ₁₂₄	17.0	X	331.05011	243.80294	190.04933	4.76407	0.0987606	0.21910850	2.7249794	20	12 25.8	20.3
361342 2006 UO ₁₂₇	15.7	X	226.29578	6.18660	221.63535	21.32596	0.0378214	0.22917869	2.6445588	20	—	—
361343 2006 UF ₁₃₃	16.8	X	230.75554	139.55064	42.32340	6.55609	0.0669070	0.21916725	2.7244925	20	12 21.2	20.5
361344 2006 UQ ₁₃₄	16.9	X	265.88232	264.80192	195.82869	5.37740	0.1249287	0.20858644	2.8158661	20	10 14.6	20.5
361345 2006 UA ₁₃₅	16.7	X	48.59103	313.59835	52.88183	6.95428	0.0780585	0.22176278	2.7031923	20	—	—
361346 2006 UK ₁₅₄	16.5	X	311.51026	259.38545	222.49805	10.50179	0.0710866	0.22771304	2.6558943	20	—	—
361347 2006 UJ ₁₅₇	17.0	X	315.17954	229.63396	188.14964	6.01047	0.0275711	0.21414828	2.7668970	20	11 10.6	20.6
361348 2006 UW ₁₆₈	16.5	X	60.04491	300.21149	56.45640	6.98348	0.0320503	0.22319589	2.6916087	20	—	—
361349 2006 UW ₁₈₄	16.8	X	350.01868	103.56262	296.97861	6.19215	0.1406210	0.21682967	2.7440388	20	12 15.7	20.0
361350 2006 UQ ₁₈₇	17.1	X	174.26871	328.41757	337.62279	13.11054	0.2949176	0.24276206	2.5449671	20	1 4.9	21.7
361351 2006 UY ₁₉₇	17.3	X	128.35672	296.21078	46.62725	11.31163	0.2111828	0.23486100	2.6017293	20	—	—
361352 2006 UH ₂₀₀	16.2	X	86.97805	55.79441	275.00692	4.91225	0.0397401	0.22216823	2.6999025	20	—	—
361353 2006 UB ₂₀₄	16.4	X	79.25603	116.20719	231.66776	5.13397	0.1363744	0.22555274	2.6728257	20	—	—
361354 2006 UZ ₂₁₁	16.8	X	274.74536	90.36488	350.82010	4.37108	0.1233248	0.20540311	2.8448850	20	9 30.3	20.3
361355 2006 UX ₂₁₁	17.1	X	258.54875									

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
361361	2006	UA ₂₃₈	17.0	X	33.88600	180.42422	198.95941	5.29727	0.0301574	0.22221201	2.6995479	20	—	—
361362	2006	UE ₂₄₇	17.1	X	178.99558	225.69579	13.79852	3.22598	0.0854339	0.22339831	2.6899825	20	12 31.5	21.0
361363	2006	UX ₂₅₉	16.9	X	298.92443	96.56026	22.32584	5.78326	0.1096224	0.22042974	2.7140797	20	—	—
361364	2006	UJ ₂₆₀	16.9	X	107.53083	100.84965	206.39040	4.36993	0.0503274	0.22275765	2.6951378	20	—	—
361365	2006	UR ₂₆₃	17.2	X	21.17751	60.43919	301.39742	1.58665	0.0928395	0.21787212	2.7352789	20	12 5.9	20.8
361366	2006	UD ₂₆₄	17.5	X	3.48825	135.89223	272.90268	1.61904	0.1135190	0.22172731	2.7034806	20	—	—
361367	2006	UC ₂₇₁	16.3	X	261.82171	253.10721	244.98499	10.28844	0.1340117	0.21353255	2.7722134	20	11 25.8	19.9
361368	2006	UF ₂₇₅	17.1	X	288.47060	99.97240	353.15495	4.37897	0.0873027	0.21411706	2.7671660	20	11 11.4	20.5
361369	2006	UB ₂₇₆	16.6	X	204.12618	22.81787	203.92146	13.69439	0.0493884	0.22549777	2.6732601	20	—	—
361370	2006	UL ₂₈₁	17.1	X	149.05745	279.28716	49.80938	12.03974	0.1982117	0.23630188	2.5911423	20	1 2.9	21.2
361371	2006	UP ₂₉₉	17.2	X	62.79479	198.50657	157.44299	4.17716	0.1355734	0.22908766	2.6452593	20	—	—
361372	2006	UL ₃₁₈	16.7	X	192.49840	335.68526	226.90299	6.12184	0.0889515	0.21163919	2.7887226	20	11 28.4	20.7
361373	2006	UY ₃₃₂	16.4	X	161.98847	309.72012	157.57376	12.91671	0.2439566	0.18497910	3.0506164	20	7 1.1	21.9
361374	2006	UY ₃₃₈	16.5	X	188.70489	264.75097	76.96646	4.70323	0.3081949	0.23982707	2.5656884	20	2 24.9	21.2
361375	2006	VN ₃	17.1	X	297.98685	36.75796	51.50592	2.65307	0.1088086	0.213994611	2.7686398	20	11 19.2	20.2
361376	2006	VU ₂₀	17.0	X	264.00381	61.89473	46.38169	4.04036	0.0446000	0.20886479	2.8133638	20	11 2.5	20.7
361377	2006	VN ₂₃	16.6	X	63.89767	307.20024	65.34603	7.19467	0.0112570	0.22258552	2.6965270	20	—	—
361378	2006	VY ₂₆	16.7	X	297.80087	211.99948	229.73371	3.46539	0.0392351	0.21018036	2.8016118	20	11 14.9	20.4
361379	2006	VK ₃₈	17.8	X	319.72413	168.28179	267.40652	1.02639	0.0519011	0.21485401	2.7608347	20	12 8.6	21.1
361380	2006	VF ₃₉	16.9	X	104.59442	281.53371	46.00753	4.58146	0.1427102	0.22558708	2.6725545	20	—	—
361381	2006	VA ₄₉	16.6	X	193.03898	221.06000	247.41072	8.38288	0.2082965	0.19019888	2.9945443	20	7 25.2	21.8
361382	2006	VS ₅₁	16.1	X	143.63624	17.95555	254.58384	9.62850	0.0777429	0.21605690	2.7505779	20	—	—
361383	2006	VY ₅₃	16.7	X	168.17581	244.93790	43.84787	18.41484	0.1297982	0.22872456	2.6480581	20	—	—
361384	2006	VL ₅₆	16.7	X	352.72501	295.08158	100.91602	1.74915	0.0791101	0.21301633	2.7766904	20	12 6.5	20.2
361385	2006	VF ₆₀	16.6	X	232.53882	184.92028	317.43827	0.99887	0.0248099	0.20871294	2.8147282	20	11 7.5	20.3
361386	2006	VO ₇₀	17.1	X	274.57947	328.76578	126.94662	1.76316	0.1042460	0.20641888	2.8355443	20	10 23.7	20.7
361387	2006	VN ₇₂	16.6	X	246.97203	75.38241	68.03795	4.59962	0.0379730	0.21114551	2.7930679	20	11 26.1	20.5
361388	2006	VD ₈₅	16.4	X	10.42435	324.71464	85.78560	9.60251	0.1869924	0.21976921	2.7195151	20	—	—
361389	2006	VX ₉₁	16.7	X	288.17969	102.29922	27.03700	9.37527	0.1122071	0.21687858	2.7436262	20	12 28.9	20.0
361390	2006	VF ₁₀₃	17.0	X	151.24523	74.21333	227.13234	11.01282	0.0761263	0.23258257	2.6186931	20	—	—
361391	2006	VL ₁₀₅	16.8	X	339.77376	4.61292	31.60656	2.37702	0.0351082	0.21100501	2.7943076	20	11 14.4	20.5
361392	2006	VF ₁₁₉	16.6	X	129.17178	87.52824	239.71399	13.03891	0.1174140	0.23091226	2.6313062	20	—	—
361393	2006	WQ ₁₂₁	17.0	X	157.18753	282.99331	329.84098	4.35310	0.0660925	0.21953984	2.7214091	20	12 24.7	21.1
361394	2006	VX ₁₂₆	16.4	X	67.40210	111.26443	255.32853	8.17403	0.1061342	0.22392534	2.6857601	20	—	—
361395	2006	VM ₁₄₀	16.2	X	284.50761	353.08626	74.07949	13.49211	0.0726380	0.20335855	2.8639214	20	10 10.9	20.1
361396	2006	VC ₁₄₂	16.7	X	314.40571	188.24950	243.41543	2.44686	0.0763687	0.21285999	2.7780498	20	11 24.7	20.1
361397	2006	WL ₂₁	16.5	X	122.08442	270.68113	109.31327	4.71039	0.1933459	0.23691432	2.5866748	20	2 6.2	20.1
361398	2006	WM ₂₇	16.9	X	10.49027	325.33474	95.72605	23.66981	0.1180105	0.36642909	1.9340874	20	—	—
361399	2006	WO ₃₁	16.8	X	227.55100	329.63429	118.79493	3.19459	0.1428837	0.19613131	2.9338513	20	8 9.4	21.1
361400	2006	WZ ₃₁	16.8	X	48.75986	253.18313	116.95047	4.12434	0.1240372	0.22087068	2.7104662	20	—	—
361401	2006	WL ₃₇	17.0	X	203.35595	40.08089	156.92385	4.53053	0.0389973	0.21441402	2.7646104	20	12 10.1	20.8
361402	2006	WQ ₃₇	16.7	X	155.40984	77.42316	175.77189	4.95824	0.0831583	0.21706505	2.7420547	20	12 21.8	20.9
361403	2006	WK ₃₈	16.6	X	73.39380	133.62799	196.90925	6.96671	0.0605160	0.21688917	2.7435369	20	12 26.5	20.7
361404	2006	WJ ₆₆	16.2	X	237.46029	253.21952	197.45891	4.66598	0.0635958	0.19797599	2.9155984	20	8 31.8	20.3
361405	2006	WC ₆₉	16.4	X	114.64174	251.53226	81.73780	14.38208	0.1394528	0.22398455	2.6852868	20	—	—
361406	2006	WZ ₇₅	16.5	X	145.92724	246.73931	67.63606	5.80702	0.1047484	0.22859802	2.6490352	20	—	—
361407	2006	WL ₈₆	15.7	X	168.85899	75.65723	252.32945	12.38361	0.1907462	0.23679932	2.5875122	20	1 16.0	20.0
361408	2006	WC ₉₄	16.5	X	193.32607	136.22504	93.85945	5.25897	0.0299062	0.21901679	2.7257401	20	—	—
361409	2006	WK ₉₉	16.9	X	102.63509	59.33381	237.72901	2.43600	0.0696280	0.21487847	2.7606252	20	12 19.0	20.8
361410	2006	WN ₁₀₄	17.1	X	187.63741	331.43908	226.49748	3.72750	0.0494041	0.20913759	2.8109168	20	11 20.4	21.0
361411	2006	WO ₁₀₆	16.7	X	211.75170	299.54170	217.18005	1.29598	0.0323600	0.20617791	2.8377532	20	10 29.8	20.5
361412	2006	WY ₁₂₃	16.6	X	233.81727	129.65538	32.26485	7.34713	0.0676729	0.21257155	2.7805623	20	11 27.4	20.4
361413	2006	WQ ₁₃₀	17.9	X	43.16294	237.70324	182.42544	16.01605	0.1321234	0.37212811	1.9142900	20	—	—
361414	2006	WD ₁₄₁	17.5	X	120.92298	269.63529	56.65389	2.78634	0.1846866	0.22874548	2.6478967	20	—	—
361415	2006	WN ₁₅₂	17.3	X	260.58812	177.62679	150.11372	6.62734	0.1587733	0.25550747	2.4596141	20	4 11.8	20.8
361416	2006	WE ₁₆₁	16.5	X	222.73026	104.51987	74.79341	9.83728	0.1085804	0.21333681	2.7739089	20	12 1.7	20.4
361417	2006	WQ ₁₆₃	16.8	X	158.64178	219.20601	69.40480	14.54999	0.1621491	0.22729485	2.6591509	20	—	—
361418	2006	WB ₁₆₅	17.1	X	254.15362	199.42483	253.83025	1.03283	0.0514847	0.20298468	2.8674370	20	9 28.6	20.8
361419	2006	WR ₁₇₅	15.6	X	98.37769	309.05240	45.10458	15.90156	0.1739479	0.22764241	2.6564436	20	—	—
361420	2006	WE ₁₈₁	16.6	X	207.27943	286.08633	234.81138	5.70717	0.0111967	0.20613285	2.8381668	20	10 31.5	20.5
361421	2006	WL ₁₈₃	15.9	X	2.44837	336.48053	28.91606	7.93242	0.0451591	0.20816555	2.8196604	20	11 5.4	19.6
361422	2006	XS ₃	17.2	X	75.47888	247.58121	94.37278	26.47834	0.1125302	0.36399417	1.9427031	20	—	—
361423	2006	XC ₇	16.6	X	210.79376	166.53971	298.55727	2.53239	0.2067100	0.19207217	2.9750419	20	8 7.4	21.6
361424	2006	XJ ₈	15.6	X	151.13823	35.55588	86.04832	18.03628	0.1795796	0.18089284	3.0963863	20	7 7.7	20.8
361425	2006	XU ₁₈	17.7	X	300.99660	85.59567	35.82930	21.90099	0.0817129	0.36144592	1.9518233	20	—	—
361426	2006	XZ ₂₇	17.2	X	186.12618	109.01338	120.85425	1.55160	0.0133407	0.21559663	2.7544913	20	—	—
361427	2006	XK ₂₈	16.1	X	89.16224	244.70647	84.32653	12.99305	0.0669441	0.21700425	2.7425669	20	—	—
361428	2006	XD ₅₆	16.1	X	148.20454	59.10897	110.49113	11.11719	0.1301604	0.18559853	3.0438251	20	9 3.9	21.0
361429	2006	YQ ₂	16.0	X	209.44894	258.36727	356.55771	36.87964	0.0821518	0.23676455	2.5877656	20	—	—
361430	2006	YU ₁₆	17.4	X	97.09508	268.09544	113.31678	24.11644	0.0997762	0.37127412	1.9172243</			

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361441 2007 BA ₁₄	16.8	X	158.29312	95.38319	53.16845	1.60483	0.1184239	0.18384254	3.0631767	20	8 15.8	21.6
361442 2007 BX ₁₅	17.1	X	166.19211	48.72022	55.65417	2.14557	0.1217685	0.17745637	3.1362330	20	6 29.2	22.1
361443 2007 BL ₂₄	16.8	X	140.63150	239.36684	258.96262	0.13234	0.1290829	0.17857944	3.1230702	20	7 16.3	21.7
361444 2007 BG ₃₀	15.7	X	219.50856	114.68407	323.77971	9.65806	0.0440380	0.18177112	3.0864041	20	7 28.9	20.2
361445 2007 BA ₄₀	16.4	X	90.20570	283.98099	302.98193	4.56235	0.0787631	0.18568587	3.0428705	20	9 4.4	20.8
361446 2007 BC ₄₈	16.0	X	111.50050	215.07968	349.23048	9.31414	0.0912631	0.18151754	3.0892780	20	9 3.8	20.6
361447 2007 BD ₆₆	16.3	X	196.54963	309.63250	150.25231	10.25098	0.0868714	0.17954505	3.1118627	20	7 24.2	21.1
361448 2007 BB ₇₁	16.4	X	207.80811	321.27563	156.41444	10.20534	0.0659636	0.18596544	3.0398201	20	8 30.8	20.7
361449 2007 BD ₇₁	16.5	X	93.68065	227.27395	294.46240	4.33490	0.1108678	0.17005627	3.2265689	20	6 22.9	21.1
361450 Houellebecq	16.1	X	308.51055	18.22639	332.13266	8.72273	0.0401126	0.18215611	3.0820539	20	7 31.2	20.2
361451 2007 BD ₇₉	16.8	X	176.05411	21.46913	102.77392	3.12372	0.1181742	0.18132540	3.0914599	20	8 2.8	21.6
361452 2007 BF ₁₀₂	15.6	X	134.23917	238.38381	248.29379	13.38898	0.1798511	0.17342806	3.1846116	20	6 27.7	20.9
361453 2007 CE ₅	16.3	X	173.35530	124.91903	329.35141	10.05761	0.2194644	0.17569069	3.1572106	20	6 24.7	21.8
361454 2007 CF ₅	16.1	X	99.77180	253.60020	335.85687	5.30255	0.1589189	0.18195981	3.0842701	20	9 26.5	21.0
361455 2007 CQ ₁₈	16.4	X	65.50799	227.48247	345.50305	9.46323	0.0268730	0.17489046	3.1668340	20	7 12.7	20.9
361456 2007 CN ₁₉	16.0	X	263.87861	15.17334	98.77924	16.39968	0.0914922	0.20558155	2.8432385	11	8.8	20.0
361457 2007 BF ₂₇	16.5	X	215.64015	270.87026	166.63051	7.54166	0.2764423	0.18510858	3.0491937	20	7 4.2	21.9
361458 2007 CY ₂₇	16.8	X	133.10596	3.84626	139.42884	1.51323	0.1238709	0.17553002	3.1591369	20	7 14.3	21.7
361459 2007 CO ₃₃	16.2	X	131.85750	256.22317	316.90401	9.29251	0.0585760	0.18972686	2.9995090	20	9 30.2	20.8
361460 2007 CP ₃₃	16.6	X	170.63576	353.18765	150.76055	1.34545	0.1569983	0.18475645	3.0530669	20	8 21.1	21.5
361461 2007 CK ₄₄	15.5	X	140.25537	2.75143	127.67200	14.77386	0.1071771	0.17599428	3.1535788	20	7 4.9	20.4
361462 2007 CQ ₄₇	15.4	X	122.67166	20.83069	162.78000	18.45907	0.1543176	0.17815780	3.1279957	20	8 23.9	20.4
361463 2007 CC ₆₀	16.0	X	109.27083	245.50370	313.62790	12.67066	0.1988130	0.17783455	3.1317852	20	8 31.1	21.1
361464 2007 CC ₆₃	16.1	X	128.16025	121.30742	21.39123	1.81150	0.1103868	0.17395047	3.1872323	20	7 7.8	21.0
361465 2007 CZ ₇₁	16.4	X	138.37017	148.53120	21.09493	2.41473	0.0557671	0.18226980	3.0807720	20	8 18.8	21.0
361466 2007 DV ₁₄	16.3	X	18.80863	148.10096	124.02746	10.33463	0.0652835	0.17645624	3.1480723	20	7 27.9	20.4
361467 2007 DJ ₂₆	16.6	X	149.01418	343.55113	138.34374	6.06626	0.0762523	0.17195904	3.2027229	20	7 1.3	21.4
361468 2007 DO ₂₈	16.3	X	210.61279	278.99938	150.85368	9.70440	0.0565729	0.17347276	3.1840645	20	7 4.3	21.1
361469 2007 DF ₂₉	16.4	X	53.13299	144.17136	93.76925	2.34144	0.1410176	0.17150827	3.2083322	20	8 12.4	20.6
361470 2007 DD ₃₁	15.3	X	64.89196	225.79134	342.45457	10.41831	0.0793210	0.17039942	3.2223582	20	7 13.4	19.8
361471 2007 DK ₃₉	15.6	X	251.14973	279.48148	160.34281	10.70174	0.0161382	0.18050868	3.1007778	20	9 10.7	19.8
361472 2007 DM ₄₃	15.4	X	93.61844	238.74997	323.99980	13.07573	0.1126609	0.17545660	3.1600181	20	8 14.2	20.0
361473 2007 DD ₄₄	16.6	X	16.88414	59.07626	182.50744	8.46711	0.0118317	0.16908359	3.2389314	20	6 12.2	21.2
361474 2007 DZ ₄₈	15.4	X	60.77218	233.04780	343.11479	22.49336	0.0755849	0.17041662	3.2220189	20	7 23.0	20.2
361475 2007 DW ₄₉	15.3	X	72.36279	44.83079	178.04814	23.50704	0.0803708	0.17351271	3.1835757	20	7 25.5	20.1
361476 2007 DR ₅₂	16.0	X	186.31414	332.13852	179.91869	10.66020	0.0542475	0.18455497	3.0552885	20	9 18.7	20.3
361477 2007 DB ₅₅	15.8	X	176.13276	287.73624	160.50877	14.31161	0.1601853	0.17386268	3.1793021	20	6 19.7	21.3
361478 2007 DF ₇₀	16.4	X	23.27018	99.61060	163.12931	11.04447	0.0426098	0.17215128	3.2003383	20	7 18.5	20.9
361479 2007 DO ₇₉	15.7	X	190.12932	268.71537	169.88613	23.51832	0.3777745	0.18018896	3.1044447	20	6 17.3	22.0
361480 2007 DY ₈₂	15.8	X	92.83386	101.43931	119.45885	26.17081	0.2800435	0.17450567	3.1714877	20	9 30.5	21.5
361481 2007 DW ₈₅	16.2	X	160.58637	341.95730	154.78127	5.48359	0.1062299	0.17888854	3.1194716	20	8 1.6	21.0
361482 2007 DP ₈₆	16.1	X	108.03613	68.16852	145.32126	2.58849	0.1414106	0.18198144	3.0840256	20	9 15.8	20.9
361483 2007 DG ₈₇	16.1	X	158.11972	121.00792	349.34996	11.40422	0.0706648	0.17263999	3.1942957	20	6 27.8	21.1
361484 2007 DR ₉₂	15.9	X	62.48841	270.91942	347.25518	9.67887	0.2257732	0.17702469	3.1413295	20	9 28.9	20.7
361485 2007 DH ₉₈	16.0	X	152.30694	150.49836	335.64066	16.71353	0.1350187	0.17627022	3.1502867	20	7 16.9	21.2
361486 2007 DO ₉₉	15.4	X	229.36772	62.08307	346.59942	13.96746	0.1160764	0.17612750	3.1519884	20	6 24.8	20.4
361487 2007 DG ₁₀₃	16.4	X	175.39505	84.04632	345.11010	5.14997	0.1452526	0.16998254	3.2275019	20	5 24.9	21.7
361488 2007 DH ₁₁₀	15.8	X	179.49086	283.59635	172.60222	16.33741	0.1674916	0.17461744	3.1701342	20	6 30.9	21.3
361489 2007 DK ₁₁₂	15.9	X	70.26382	265.99579	9.84861	10.93599	0.1224151	0.18090265	3.0962743	10	16.7	20.5
361490 2007 DT ₁₁₆	16.2	X	182.74608	270.67852	223.76530	3.52353	0.1503412	0.18366404	3.0651610	20	8 19.1	21.1
361491 2007 DP ₁₁₇	15.9	X	253.78773	52.39087	354.36648	8.64489	0.0694492	0.17476631	3.1683336	20	7 27.7	20.5
361492 2007 EA ₁₂	15.4	X	111.34695	176.71921	356.95453	17.53079	0.0819959	0.17426230	3.1744397	20	7 31.5	20.3
361493 2007 ET ₁₂	15.3	X	210.60517	268.83863	164.96387	26.11406	0.1865147	0.17735776	3.1373953	20	7 1.7	20.9
361494 2007 EU ₁₈	15.9	X	259.70759	202.95979	178.21121	9.79209	0.1103669	0.17500393	3.1654650	20	6 23.9	20.6
361495 2007 EN ₂₈	15.8	X	120.64538	0.56206	172.63055	12.03781	0.1389543	0.17566629	3.1575029	20	8 6.9	20.9
361496 2007 EH ₃₁	16.6	X	137.15494	61.00871	104.54678	3.13079	0.1377459	0.17975282	3.1094643	20	8 16.6	21.6
361497 2007 EM ₃₁	16.2	X	208.88873	312.73355	144.29963	13.87468	0.1182383	0.18236103	3.0797445	20	7 31.9	20.9
361498 2007 EZ ₃₇	15.7	X	162.35201	313.58388	184.31796	15.1975	0.0862807	0.17542120	3.1604433	20	8 2.1	20.8
361499 2007 EH ₆₀	15.3	X	78.05120	275.02986	328.64635	15.32855	0.1747705	0.18118106	3.0931016	20	9 19.0	20.8
361500 2007 ER ₇₅	15.6	X	62.82003	68.77472	187.64697	19.29354	0.1949286	0.17237044	3.1976250	20	9 23.8	20.2
361501 2007 EF ₇₈	15.9	X	356.22673	116.92987	176.12616	11.16835	0.0585803	0.16938097	3.2351392	20	7 19.4	20.4
361502 2007 ES ₉₁	16.5	X	162.75141	16.34807	92.58169	2.54513	0.1318861	0.17489973	3.1667222	20	7 1.5	21.4
361503 2007 EO ₁₀₄	15.9	X	105.34641	184.32233	358.94865	15.78379	0.0265464	0.17248571	3.1962002	20	7 28.8	20.7
361504 2007 EK ₁₁₀	15.7	X	124.34794	21.56098	172.47293	11.39242	0.0752086	0.17533069	3.1615309	20	9 1.3	20.4
361505 2007 EO ₁₁₄	15.9	X	107.00371	354.37326	201.15456	10.23136	0.1983295	0.17406500	3.1768381	20	8 24.9	21.1
361506 2007 EK ₁₂₆	15.8	X	138.10316	179.75006	331.98351	14.46831	0.0098694	0.17657427	3.1466693	20	7 25.6	20.3
361507 2007 EB ₁₃₆	15.7	X	10.65457	148.54646	178.49168	16.90093	0.1162340	0.18079283	3.0975280	20	10 2.2	19.5
361508 2007 EX ₁₃₆	15.5	X	111.62747	107.88085	152.15023	27.35031	0.1959226	0.16901627	3.2397913	20	7 23.5	21.1
361509 2007 EP ₁₄₅	15.7	X	66.78819	117.41751	160.30045	10.86320	0.0808985	0.18245729	3.0786612	20	10 13.9	20.1
361510 2007 ET ₁₅₇	16.4	X	133.23725	58.48286	142.10035	10.48740	0.1708807	0.18446457	3.0562866	20	9 28.2	21.5
361511 2007 EZ ₁₈₁	15.6	X	51.68341	96.33486	205.68715	24.19064	0.2749858	0.17376047	3.1805488	20	11 17.4	20.4
361512 2007 EE ₂₀₀	15.6	X	131.96413	9.01010	176.86813	17.96444	0.1592405	0.17581681	3.1557005	20	9 3.9	20.8
361513 2007 ER ₂₀₂	15.7	X	152.68866	108.76460	37.15703	18.703						

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361521 2007 FG ₂₀	15.7	X	88.87548	125.30180	118.41407	11.22003	0.1917505	0.17795426	3.1303805	20	10 12.1	20.7
361522 2007 FR ₂₄	16.2	X	123.56973	167.03279	349.89855	10.98291	0.0855441	0.17283030	3.1919503	20	7 20.9	21.1
361523 2007 FN ₃₄	16.0	X	77.73260	240.14213	26.97449	17.05343	0.1860412	0.17883709	3.1200699	20	10 22.8	20.7
361524 2007 FN ₃₅	15.4	X	204.59510	321.20613	131.24115	11.42526	0.0373397	0.17545121	3.1600828	20	7 27.5	20.0
361525 2007 FO ₄₂	15.9	X	177.22761	64.41367	31.80167	26.29676	0.2288351	0.17601695	3.1533080	20	6 27.9	21.8
361526 2007 FG ₄₆	16.5	X	104.95420	51.84580	167.91404	0.99660	0.1242439	0.17514336	3.1637848	20	9 17.4	21.4
361527 2007 GL ₃₀	15.6	X	136.62780	317.74619	207.15338	26.42094	0.1475656	0.17192732	3.2031169	20	8 7.8	21.2
361528 2007 GK ₃₅	15.7	X	338.53291	276.48157	48.68051	9.31371	0.0622431	0.16832351	3.2486744	20	8 9.7	20.1
361529 2007 GT ₅₁	15.5	X	259.01399	221.93475	195.93712	22.20031	0.0726425	0.17235067	3.1978695	20	8 9.3	20.4
361530 Victorfranzhess	16.3	X	152.44591	99.72144	66.76906	12.73247	0.2207029	0.18033665	3.1027495	20	9 8.3	21.8
361531 2007 HQ ₁₆	16.3	X	156.31688	304.97992	175.36814	10.19664	0.1751326	0.17347338	3.1840570	20	7 9.5	21.8
361532 2007 HF ₄₄	19.2	X	291.19904	314.15735	116.37103	2.99272	0.3150276	0.48683699	1.6003452	20	—	—
361533 2007 HM ₆₈	15.2	X	263.68595	234.44945	188.09858	10.68507	0.0652733	0.17666651	3.1455739	20	8 25.2	19.7
361534 2007 HD ₈₈	15.5	X	71.44937	213.72636	30.76369	16.39639	0.1063624	0.17194166	3.2029388	20	9 15.3	20.2
361535 2007 HY ₉₄	15.7	X	129.21943	141.47220	45.16850	17.77780	0.1179707	0.17474003	3.1686512	20	9 11.0	20.9
361536 2007 JE ₇	15.5	X	312.84062	242.60375	50.74339	10.82709	0.0425408	0.15386365	3.4491496	20	5 21.2	20.1
361537 2007 JH ₁₆	18.1	X	213.57670	200.48566	115.11650	29.17646	0.1203564	0.51364583	1.5441644	20	1 3.6	19.2
361538 2007 JZ ₂₀	18.6	X	185.06394	139.01237	200.49160	40.47817	0.3352057	0.65644162	1.3112092	20	—	—
361539 2007 KN ₃	17.8	X	291.74764	229.70957	107.81739	6.00909	0.3269103	0.30719625	2.1753315	20	5 6.4	20.5
361540 2007 PP ₇	15.8	X	262.29622	137.22227	242.96159	12.26219	0.2074357	0.21575220	2.7531670	20	6 13.5	19.8
361541 2007 PF ₉	16.9	X	156.53715	195.46465	160.44608	7.35394	0.1324180	0.26997924	2.3709140	20	1 31.2	20.4
361542 2007 PL ₂₄	17.4	X	295.19916	131.29900	209.43704	4.43586	0.1841312	0.29556526	2.2320322	20	6 9.0	19.7
361543 2007 PQ ₂₄	17.7	X	250.00398	167.47427	180.08072	5.52649	0.1774488	0.28694285	2.2765251	20	4 21.8	20.9
361544 2007 PA ₂₇	18.0	X	21.11273	15.47862	283.27865	1.18633	0.1531830	0.30633909	2.1793874	20	10 9.5	19.9
361545 2007 PS ₂₇	17.5	X	296.04538	333.75900	4.22236	7.02772	0.2233000	0.29688224	2.2254264	20	5 27.4	20.0
361546 2007 PP ₃₅	17.7	X	300.20635	5.64626	313.76509	2.07737	0.2062614	0.29345093	2.2427407	20	5 9.9	20.2
361547 2007 PM ₃₇	17.0	X	221.29045	175.29722	188.35860	6.79961	0.1290154	0.28456641	2.2891819	20	4 16.6	20.3
361548 2007 PS ₄₂	17.8	X	312.12815	179.60804	147.47963	6.57845	0.2773007	0.29703092	2.2246837	20	6 2.1	19.6
361549 2007 PL ₅₀	17.5	X	297.80876	309.43915	147.29798	6.62273	0.1232780	0.28980105	2.2615321	20	4 15.1	20.1
361550 2007 QF ₆	17.4	X	226.08424	179.03564	189.39787	2.43292	0.1787870	0.28563170	2.2834865	20	4 24.4	20.8
361551 2007 QN ₇	17.6	X	337.37342	176.57855	150.90149	3.45463	0.1787008	0.30232059	2.1986574	20	8 25.9	18.8
361552 2007 QJ ₈	17.2	X	161.08645	357.44731	19.00034	4.57380	0.2065121	0.27080023	2.3661196	20	3 9.6	21.0
361553 2007 QM ₁₀	17.8	X	233.95016	32.06335	322.26819	2.75667	0.1442856	0.28397659	2.2923505	20	4 14.4	21.1
361554 2007 QT ₁₃	17.4	X	214.11278	326.37285	24.27476	5.18231	0.1223068	0.27887086	2.3202456	20	3 23.9	20.7
361555 2007 QP ₁₆	17.5	X	221.21384	25.62870	335.31921	7.84743	0.1546937	0.28392685	2.2926182	20	4 7.4	21.1
361556 2007 RJ	17.8	X	292.11255	103.68717	203.48584	4.99348	0.1620814	0.28961979	2.2624755	20	4 18.3	20.5
361557 2007 RS ₂	16.7	X	212.32299	39.59445	313.32890	7.71692	0.1456858	0.27828312	2.3235114	20	3 19.8	20.4
361558 2007 RM ₄	17.5	X	307.42392	85.75236	238.29635	2.26998	0.1829656	0.29563100	2.2317013	20	6 4.7	19.4
361559 2007 RD ₁₀	17.1	X	249.12299	175.70696	192.99813	9.59329	0.2135040	0.28846615	2.2685036	20	5 15.8	20.5
361560 2007 RX ₁₄	17.7	X	306.14516	120.11816	196.54462	5.58712	0.2248283	0.29405756	2.2396551	20	5 14.3	19.8
361561 2007 RH ₃₇	17.2	X	155.14889	208.60099	170.52554	2.62380	0.2407360	0.26873803	2.3782087	20	3 8.8	21.1
361562 2007 RN ₄₁	17.4	X	339.36511	287.67961	22.97031	6.07015	0.2248010	0.30025947	2.2087077	20	8 1.3	18.4
361563 2007 RZ ₅₀	17.2	X	353.76563	264.88810	250.84910	5.44068	0.0537985	0.26369736	2.4084198	20	1 7.5	20.0
361564 2007 RP ₅₃	17.7	X	29.46248	31.23431	229.53202	5.49197	0.1581410	0.29808777	2.2194223	20	8 22.5	19.9
361565 2007 RB ₅₅	17.1	X	304.88026	285.41280	188.56409	28.32508	0.3615445	0.23592711	2.5938856	20	—	—
361566 2007 RH ₈₄	17.7	X	349.42677	187.14601	135.96625	4.30064	0.1807226	0.30217844	2.1993469	20	9 20.9	19.0
361567 2007 RF ₉₂	17.7	X	258.18646	151.17084	180.95479	6.72614	0.1430531	0.28362612	2.2942385	20	4 13.9	20.7
361568 2007 RL ₉₃	17.3	X	314.99065	252.69716	44.56091	5.56383	0.1590783	0.28979911	2.2615421	20	5 10.7	19.6
361569 2007 RJ ₉₇	17.5	X	313.70591	290.53258	159.44913	6.64386	0.3159226	0.23337035	2.6127966	20	12 26.9	19.0
361570 2007 RM ₉₈	17.2	X	297.60310	286.36135	37.93556	6.12779	0.2081795	0.29071739	2.2567773	20	5 12.9	19.5
361571 2007 RP ₉₈	17.2	X	71.31240	22.53509	42.79004	7.59584	0.1144154	0.25777314	2.4451806	20	1 10.5	19.9
361572 2007 RG ₁₂₈	18.0	X	18.47963	75.28643	41.49752	1.88556	0.1477710	0.25634033	2.4542837	20	—	—
361573 2007 RB ₁₃₇	17.6	X	113.08549	23.74459	38.05524	1.82553	0.1635559	0.26825532	2.3810608	20	3 12.9	20.5
361574 2007 RO ₁₄₂	17.1	X	190.53701	346.68180	21.38584	11.62484	0.2907477	0.27238284	2.3569455	20	3 26.1	21.3
361575 2007 RO ₁₄₃	17.2	X	319.73465	139.96969	191.17842	5.98556	0.2114574	0.29847369	2.2175088	20	7 8.9	18.8
361576 2007 RQ ₁₄₈	17.1	X	138.91892	339.12575	63.08082	5.41391	0.1578099	0.27009677	2.3702262	20	3 18.2	20.5
361577 2007 RF ₁₆₆	17.8	X	45.34602	47.24844	12.34706	2.35880	0.2314924	0.25244282	2.4794805	20	—	—
361578 2007 RS ₁₇₄	17.4	X	239.95204	161.35000	155.29343	7.37437	0.1401049	0.27617579	2.3353159	20	3 5.2	20.7
361579 2007 RY ₁₇₄	17.1	X	109.87441	346.35583	44.83504	5.91091	0.1887524	0.26013297	2.4303703	20	2 3.7	20.2
361580 2007 RW ₁₈₄	17.1	X	175.07537	165.15559	203.37720	5.89257	0.1239110	0.27243434	2.3566486	20	3 4.9	20.6
361581 2007 RE ₂₀₈	17.4	X	146.33553	248.28360	141.77377	2.88031	0.2121847	0.26858546	2.3791092	20	3 13.2	20.9
361582 2007 RS ₂₀₈	17.5	X	48.48382	359.72463	69.80532	2.62244	0.1588389	0.25441592	2.4666443	20	—	—
361583 2007 RF ₂₂₈	17.2	X	27.96566	201.66158	214.29559	11.31789	0.1550588	0.24133504	2.5549895	20	—	—
361584 2007 RA ₂₃₃	16.8	X	253.03986	308.93251	46.48454	7.88563	0.1493566	0.28665992	2.2780228	20	5 7.7	19.9
361585 2007 RT ₂₃₈	17.3	X	272.46407	276.26335	57.75976	6.01132	0.1442101	0.28969214	2.2620988	20	5 3.4	20.0
361586 2007 RB ₂₄₀	17.5	X	302.12208	272.00944	54.44396	8.00971	0.2605766	0.29398740	2.2400115	20	5 14.7	19.6
361587 2007 RS ₂₄₀	17.3	X	253.66777	122.14164	227.41070	5.90035	0.1418018	0.28742741	2.2739658	20	5 1.0	20.1

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ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361601 2007 RY ₃₂₃	17.6	X	60.76950	33.02773	47.63704	1.84132	0.1572031	0.25712217	2.4493059	20	1 17.8	19.8
361602 2007 RX ₃₂₄	17.4	X	175.36801	171.03574	217.12722	4.67699	0.0968179	0.27618821	2.3352459	20	3 29.7	20.8
361603 2007 RJ ₃₂₅	16.9	X	316.51427	282.18323	216.53344	3.63857	0.1823083	0.23864798	2.5741324	20	—	—
361604 2007 SK ₄	15.8	X	65.41212	339.34018	29.00330	34.23226	0.2424839	0.24273162	2.5451799	20	—	—
361605 2007 SU ₁₇	18.1	X	307.85038	97.45224	185.05499	2.12723	0.1886591	0.28800594	2.2709196	20	4 1.3	20.3
361606 2007 SS ₂₃	17.2	X	222.62777	304.81207	19.90091	13.67376	0.2237422	0.27168804	2.3609622	20	3 1.6	21.3
361607 2007 SY ₂₃	16.3	X	317.57012	256.00113	202.66387	28.53385	0.3158953	0.23171948	2.6251917	20	—	—
361608 2007 TK ₃	17.2	X	87.46947	346.07250	47.61343	5.57675	0.1102625	0.25632439	2.4543854	20	—	—
361609 2007 TS ₇	16.2	X	36.98772	349.78253	43.02305	12.90241	0.1843551	0.24089189	2.5581221	20	—	—
361610 2007 TH ₁₈	17.4	X	98.61945	9.84229	40.74684	2.77209	0.1975819	0.26030830	2.4292789	20	2 14.7	20.2
361611 2007 TY ₁₈	18.2	X	42.44024	301.77657	6.08852	8.05768	0.4083306	0.31162935	2.1546520	20	12 22.7	21.9
361612 2007 TO ₃₀	17.5	X	121.47338	355.47450	52.65571	2.11143	0.1838453	0.26332748	2.4106746	20	3 8.5	20.8
361613 2007 TZ ₄₄	16.9	X	102.63412	32.00857	43.68689	5.39005	0.1148784	0.26570400	2.3962787	20	3 12.9	19.8
361614 2007 TO ₄₇	17.6	X	309.53334	329.30156	314.73047	2.63887	0.2123538	0.28460757	2.2889611	20	3 31.7	20.3
361615 2007 TT ₅₅	16.9	X	54.90046	118.14045	22.93958	6.73227	0.0751648	0.26762258	2.3848124	20	3 25.3	19.4
361616 2007 TS ₆₄	17.5	X	208.63693	194.18981	154.43301	1.73811	0.2002888	0.27245933	2.3565044	20	3 14.4	21.2
361617 2007 TD ₇₅	16.8	X	213.29091	16.43167	328.88681	8.88735	0.2360575	0.27424304	2.3462753	20	3 11.0	20.9
361618 2007 TG ₇₆	17.4	X	227.50222	330.58786	13.92178	4.93192	0.1752602	0.28120916	2.3073656	20	3 26.2	20.9
361619 2007 TJ ₈₀	17.2	X	358.38519	272.32987	175.24426	5.58289	0.2522201	0.24269697	2.5454221	20	—	—
361620 2007 TK ₈₂	17.7	X	103.65849	280.52278	133.36398	3.89499	0.1203738	0.26633877	2.3924698	20	2 11.9	20.3
361621 2007 TZ ₈₆	17.3	X	250.10177	144.91270	188.01375	6.61115	0.1383107	0.27801795	2.3249886	20	4 5.9	20.5
361622 2007 TB ₉₂	16.8	X	117.94701	306.61399	107.68713	5.77847	0.2286039	0.26362730	2.4088465	20	3 20.0	20.3
361623 2007 TD ₁₁₄	17.3	X	192.07834	343.59554	3.32819	6.48959	0.1561584	0.26941616	2.3742164	20	2 28.0	21.0
361624 2007 TN ₁₁₄	17.3	X	108.33756	25.94095	9.18545	9.43380	0.1798601	0.25873154	2.4391385	20	2 7.1	20.5
361625 2007 TP ₁₄₂	16.8	X	135.83606	5.19215	14.51778	9.72478	0.1956982	0.26278998	2.4139607	20	2 20.9	20.4
361626 2007 TP ₁₄₅	17.2	X	96.33390	19.50596	36.03289	7.02004	0.1366868	0.25975902	2.4327023	20	2 10.4	20.2
361627 2007 TG ₁₄₈	16.6	X	185.50603	322.70042	44.41008	6.73756	0.1858815	0.27115117	2.3640776	20	3 20.1	20.5
361628 2007 TO ₁₅₇	17.2	X	262.72351	78.20079	210.70447	9.79622	0.1995571	0.27638945	2.3341122	20	2 12.9	20.9
361629 2007 TD ₁₆₄	17.4	X	127.69395	19.64965	21.24681	3.89549	0.1105874	0.26549383	2.3975431	20	2 25.9	20.5
361630 2007 TF ₁₇₅	17.5	X	125.41037	3.04754	30.34786	8.06664	0.1027677	0.26183882	2.4198031	20	2 15.1	20.8
361631 2007 TL ₁₇₆	17.6	X	1.37818	54.31433	14.44915	6.46880	0.1717361	0.24039517	2.5616447	20	—	—
361632 2007 TE ₁₈₁	17.1	X	175.01995	252.14139	139.15091	6.79790	0.1145637	0.27360486	2.3499224	20	4 7.3	20.6
361633 2007 TP ₁₈₂	16.7	X	164.91304	296.63764	100.98797	10.72329	0.1262522	0.27081065	2.3660589	20	4 8.8	20.4
361634 2007 TY ₁₈₅	17.0	X	171.21632	329.72317	45.38980	8.20264	0.1169666	0.27040990	2.3683960	20	3 14.9	20.5
361635 2007 TF ₂₀₀	17.5	X	241.44588	118.28131	207.87312	2.02674	0.1044770	0.27548288	2.3392303	20	3 20.8	20.9
361636 2007 TP ₂₁₂	17.5	X	290.54904	215.68101	241.84563	7.78755	0.3110946	0.22728253	2.6592470	20	10 24.3	20.0
361637 2007 TP ₂₁₇	17.6	X	334.67713	35.69348	263.65729	2.69597	0.1764895	0.28884850	2.2665013	20	6 24.4	19.0
361638 2007 TX ₂₁₈	17.5	X	122.28982	38.29654	347.21405	6.71982	0.1504019	0.26548660	2.3975866	20	2 4.8	20.6
361639 2007 TO ₂₄₃	16.8	X	196.89428	347.54452	349.33915	13.11503	0.2327067	0.27035232	2.3687323	20	2 22.1	20.8
361640 2007 TH ₂₄₄	17.0	X	239.13139	22.38315	300.53383	5.28832	0.2618137	0.27768169	2.3268652	20	3 2.8	20.9
361641 2007 TR ₂₅₁	17.3	X	352.01685	244.80189	358.30033	5.39278	0.0726456	0.28175247	2.3043984	20	5 3.9	19.6
361642 2007 TE ₂₅₆	17.7	X	352.62442	236.47184	59.70431	2.09160	0.1857347	0.29487471	2.2355156	20	8 8.5	19.1
361643 2007 TB ₂₆₀	17.2	X	13.59474	256.57551	13.10240	5.31983	0.1565757	0.29459738	2.2369183	20	8 10.3	19.0
361644 2007 TH ₂₉₉	17.8	X	318.26207	330.84956	314.70750	0.92794	0.2020763	0.28618246	2.2805558	20	4 20.4	20.1
361645 2007 TE ₃₀₁	17.0	X	322.87258	308.90061	227.51963	5.62744	0.0797998	0.25512539	2.4620692	20	—	—
361646 2007 TU ₃₀₃	16.1	X	313.51108	216.58010	274.53121	14.87314	0.1270367	0.24231135	2.5481220	20	—	—
361647 2007 TJ ₃₁₆	17.7	X	312.35589	306.70044	183.48859	2.98111	0.1745022	0.23902779	2.5714048	20	—	—
361648 2007 TZ ₃₁₇	17.8	X	340.70254	252.88889	213.39189	2.39507	0.1115948	0.24119812	2.5559563	20	—	—
361649 2007 TO ₃₁₈	17.7	X	313.91322	55.45445	51.98914	5.71238	0.1881717	0.23398756	2.6081999	20	—	—
361650 2007 TR ₃₂₀	17.5	X	343.92787	281.91973	356.81826	2.63786	0.1799109	0.29150575	2.2527066	20	6 10.1	18.8
361651 2007 TO ₃₂₆	17.4	X	318.80820	176.11005	289.42593	2.94891	0.2094217	0.23648737	2.5897872	20	—	—
361652 2007 TS ₃₂₈	17.2	X	322.31913	121.10150	20.81431	11.81785	0.1978278	0.24361929	2.5389936	20	—	—
361653 2007 TX ₃₃₀	17.6	X	300.04672	219.81668	237.03784	6.52054	0.2752125	0.22917067	2.6446205	20	11 24.8	19.6
361654 2007 TK ₃₃₈	17.2	X	309.66441	265.76479	18.61736	7.87858	0.1212164	0.28378083	2.2934046	20	4 17.9	19.7
361655 2007 TL ₃₃₈	17.3	X	338.61077	148.79785	26.51029	6.79386	0.0678062	0.26254880	2.4154387	20	1 12.5	20.2
361656 2007 TG ₃₅₃	17.6	X	353.28457	261.57851	179.60081	2.85742	0.2569809	0.24071334	2.5593869	20	—	—
361657 2007 TP ₃₅₆	17.4	X	284.66657	177.98247	151.36542	6.76320	0.1963898	0.28952457	2.2629716	20	5 6.7	20.2
361658 2007 TE ₃₅₇	17.0	X	165.10973	333.88645	39.96449	6.95420	0.1527364	0.26737779	2.3862677	20	3 8.8	20.7
361659 2007 TS ₃₈₀	17.2	X	350.39590	247.37411	190.37524	4.52958	0.2282526	0.23892987	2.5721073	20	—	—
361660 2007 TB ₃₈₃	17.8	X	317.44896	68.48117	31.91125	4.64834	0.1970631	0.23439794	2.6051548	20	—	—
361661 2007 TH ₃₈₆	17.3	X	40.91499	343.88649	40.43050	3.31217	0.1512449	0.24185115	2.5513534	20	—	—
361662 2007 TB ₃₉₁	16.6	X	122.84313	106.52308	324.75192	5.79085	0.0968767	0.26797964	2.3826935	20	3 25.2	19.7
361663 2007 TS ₄₀₇	17.3	X	167.58059	327.93095	30.50068	5.07830	0.2017829	0.26488512	2.4012148	20	2 23.2	21.1
361664 2007 TS ₄₀₉	17.3	X	193.00734	173.23636	171.45165	7.34873	0.0446721	0.26674723	2.3900268	20	2 20.8	20.7
361665 2007 TH ₄₁₀	17.3	X	92.30360	316.89573	91.49257	3.00515	0.1802469	0.25838566	2.4413147	20	1 30.3	20.0
361666 2007 TF ₄₁₉	17.3	X	181.48279	204.29360	161.77261	4.05493	0.0699253	0.26675143	2.3900017	20	3 8.5	20.6
361667 2007 TX ₄₂₂	17.7	X	278.13392	248.63646	63.17350	5.59431	0.1636008	0.27853999	2.3220827	20	4 8.9	20.8
361668 2007 TQ ₄₂₄	17.2	X	358.45251	11.22802	212.23346	5.88132	0.0704147	0.27559924	2.3385718	20	4 17.6	19.6
361669 2007 TN ₄₃₀	17.4	X	316.96057	99.51704	108.34939	6.06150	0.1118062	0.25927101	2.4357539	20	1 18.5	20.4
361670 2007 TR ₄₅₀	16.8	X	258.72505	226.08285	81.69156	7.75231	0.1339869	0.27390913	2.3481818	20	3 18.1	20.2
361671 2007 TU ₄₅₀	17.0	X	349.46476	127.60063	165.63101	3.89241	0.1588240	0.29227155	2.2487699	20	7 21.7	18.5
361672 2007 TW ₄₅₁	16.3	X	272.82575	92.10054	230.89286	22.51806	0.2513117	0.28003471	2.3138124	20	3 30.3	20.2
361673 2007 UU ₁	17.7	X	29.24714	27.62317	37.82504	1.42222	0.1835154	0.24399549	2.5363831	20	—	—
361674 2007 UB ₅	17.4	X	339.60874	61.67720	357.10027	14.5971						

ELEMENTS AND OPPOSITION DATES IN 2020

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
361681	2007	UO ₄₆	17.5	X	168.36834	252.82971	105.56529	2.50976	0.2264733	0.26533510	2.3984992	20	2 23.9	21.3
361682	2007	UY ₅₀	16.7	X	128.74992	322.38637	86.23271	10.61796	0.1058838	0.26202622	2.4186492	20	3 12.3	20.2
361683	2007	UO ₉₁	17.5	X	298.11873	59.22803	48.62002	13.91863	0.2167927	0.23019543	2.6367660	20	12 11.5	19.9
361684	2007	UJ ₁₁₄	17.4	X	315.44252	84.32661	359.05457	2.89646	0.1649132	0.23104389	2.6303067	20	12 17.6	19.8
361685	2007	UL ₁₁₄	16.9	X	88.44076	198.13557	250.12815	5.93100	0.0382003	0.26239296	2.4163950	20	2 21.8	19.9
361686	2007	UP ₁₁₄	17.3	X	304.02102	210.60105	260.12043	4.19055	0.2233325	0.23200880	2.6230088	20	—	—
361687	2007	UX ₁₂₈	17.5	X	179.46511	225.82574	171.19178	6.42574	0.1083383	0.27110122	2.3643680	20	4 18.3	21.0
361688	2007	UN ₁₂₉	17.2	X	160.19343	321.14533	79.40267	6.76181	0.0870249	0.26687105	2.3892875	20	4 2.9	20.6
361689	2007	VY ₇	19.3	X	21.85994	9.52099	108.05975	6.36406	0.5041774	0.40308370	1.8149830	20	—	—
361690	2007	Laurelanmaurer	17.3	X	233.70087	263.70180	70.81628	3.17481	0.2284229	0.27583262	2.3372525	20	3 18.1	21.1
361691	2007	VZ ₄₅	17.3	X	260.21892	30.06988	267.91629	5.59771	0.1298547	0.27172500	2.3607481	20	2 29.3	20.9
361692	2007	VU ₅₁	17.3	X	298.83151	249.46916	260.53455	5.16937	0.1170407	0.24039781	2.5616259	20	—	—
361693	2007	VO ₁₀₁	17.6	X	355.90499	28.87878	40.29562	3.21553	0.1764523	0.23579004	2.5948908	20	—	—
361694	2007	VL ₁₀₂	15.8	X	354.00215	339.60920	66.41910	20.29049	0.1704919	0.23125790	2.6286837	20	—	—
361695	2007	VE ₁₀₈	17.3	X	323.10537	191.95008	52.32080	2.01966	0.1338337	0.26937595	2.3744526	20	3 13.2	19.7
361696	2007	VM ₁₂₅	17.1	X	7.28043	306.93906	137.63747	7.01330	0.2507526	0.24133327	2.5550020	20	—	—
361697	2007	VS ₁₅₃	17.4	X	358.00921	355.23140	247.25330	1.77157	0.1086440	0.28156251	2.3054347	20	5 16.9	20.0
361698	2007	VT ₁₅₅	17.1	X	1.80585	153.51725	264.84396	3.96984	0.1748376	0.23714795	2.5849757	20	—	—
361699	2007	VD ₁₆₂	17.1	X	234.00715	246.52492	37.41691	7.14695	0.0950363	0.25828757	2.4419328	20	1 23.8	20.7
361700	2007	VA ₁₆₅	17.1	X	305.94700	179.25260	66.47208	5.86216	0.1914740	0.26364394	2.4087452	20	2 12.6	20.2
361701	2007	VZ ₁₇₁	17.4	X	278.55698	215.98056	261.97336	5.20315	0.1508968	0.22874381	2.6479095	20	11 26.5	20.5
361702	2007	VN ₁₉₅	17.7	X	307.32669	14.25722	248.31626	3.05430	0.1470055	0.27892264	2.3199584	20	3 9.0	20.5
361703	2007	VO ₂₀₂	18.0	X	258.23878	329.23938	343.86174	4.24408	0.1795898	0.28268419	2.2993321	20	3 14.4	21.2
361704	2007	VZ ₂₀₆	16.6	X	106.44370	348.88539	78.05650	7.34844	0.0903571	0.26183507	2.4198262	20	3 4.1	19.7
361705	2007	VC ₂₄₅	17.0	X	348.26872	14.13248	57.45265	4.12230	0.1379150	0.23549077	2.5970887	20	—	—
361706	2007	VY ₂₅₀	17.0	X	217.70187	8.01560	317.02989	6.33812	0.1129512	0.26809794	2.3819926	20	2 22.8	20.4
361707	2007	VU ₂₅₁	16.7	X	285.59106	13.45195	95.82068	10.57480	0.2996960	0.22525941	2.6751455	20	11 7.8	19.3
361708	2007	VG ₂₅₈	17.3	X	311.02647	91.76765	161.85890	6.61767	0.1175653	0.26996998	2.3709682	20	3 9.9	20.1
361709	2007	VP ₂₆₇	17.4	X	317.46592	256.37779	229.58436	8.16022	0.1024141	0.23884793	2.5726955	20	—	—
361710	2007	VB ₂₉₀	17.2	X	23.78457	352.86399	68.61735	6.83039	0.2064445	0.24064625	2.5598626	20	—	—
361711	2007	VA ₂₉₅	16.9	X	158.83253	337.70048	71.63056	6.34467	0.1291968	0.26981858	2.3718551	20	4 14.7	20.4
361712	2007	VX ₂₉₅	16.8	X	269.69205	282.77839	189.06359	12.56112	0.2270318	0.22437524	2.6821687	20	10 23.6	20.0
361713	2007	VL ₃₀₃	16.6	X	162.06474	279.70156	118.63888	10.94378	0.2150186	0.27142663	2.3624779	20	4 11.2	20.7
361714	2007	VL ₃₀₇	16.9	X	296.30043	223.00510	62.71345	8.05029	0.1056276	0.27453120	2.3446332	20	4 7.7	19.8
361715	2007	VO ₃₁₃	17.1	X	201.20775	276.69059	44.12489	3.52816	0.1905333	0.26111655	2.4242633	20	2 5.3	21.0
361716	2007	VM ₃₂₁	16.5	X	346.62677	14.44472	77.98521	14.66918	0.1396688	0.23752967	2.5822055	20	—	—
361717	2007	VX ₃₂₂	17.0	X	170.42924	57.44190	310.82142	5.36902	0.0327977	0.26413978	2.4057298	20	2 23.5	20.1
361718	2007	VA ₃₂₄	17.5	X	192.26943	320.74709	47.88123	2.45163	0.1984120	0.27048135	2.3679789	20	3 25.1	21.3
361719	2007	VJ ₃₂₉	17.7	X	352.59376	234.76548	212.10188	1.79290	0.1709707	0.23773601	2.5807112	20	—	—
361720	2007	VZ ₃₃₄	17.3	X	296.23675	186.99546	102.74130	2.83994	0.1458044	0.27247397	2.3564200	20	4 4.7	20.1
361721	2007	WS ₉	17.2	X	295.27794	188.14839	36.43268	7.32190	0.0581648	0.26240161	2.4163419	20	1 21.6	20.5
361722	2007	WF ₁₉	17.7	X	310.02609	188.25129	133.01669	2.82349	0.2529741	0.28723818	2.2749644	20	5 23.4	19.6
361723	2007	WO ₂₇	17.1	X	307.61125	159.14402	333.78533	2.47896	0.1302840	0.23537439	2.5979447	20	—	—
361724	2007	WK ₃₁	17.4	X	343.09344	195.90083	264.51005	2.15059	0.1237785	0.23785205	2.5798717	20	—	—
361725	2007	WF ₃₃	17.4	X	296.20568	99.92713	21.51440	4.71784	0.1164650	0.23218243	2.6217009	20	—	—
361726	2007	WS ₄₃	17.7	X	21.10763	60.04386	14.64603	2.3451	0.1600274	0.24222718	2.5487122	20	—	—
361727	2007	WY ₄₉	17.5	X	310.35675	179.90837	140.52990	2.75807	0.2401733	0.28773882	2.2723248	20	5 25.2	19.4
361728	2007	WT ₅₀	16.7	X	209.12436	227.09138	90.18616	5.67122	0.0765170	0.26059500	2.4274968	20	2 7.7	20.2
361729	2007	WU ₅₂	16.8	X	328.28575	22.01280	96.62518	10.52475	0.1649429	0.23933881	2.5691766	20	—	—
361730	2007	WS ₅₅	16.2	X	12.59191	318.82354	69.36561	34.15541	0.2861100	0.23457462	2.6038464	20	—	—
361731	2007	WN ₆₁	17.5	X	317.45937	129.39302	341.49024	4.17641	0.1743567	0.23381578	2.6094772	20	—	—
361732	2007	WV ₆₂	17.6	X	193.96983	275.86972	51.12920	3.70069	0.1004747	0.25694046	2.4504606	20	2 4.6	21.2
361733	2007	XF ₃	17.1	X	17.31216	209.17249	209.94024	3.32874	0.1962544	0.23883614	2.5727802	20	—	—
361734	2007	XG ₁₀	17.4	X	307.31499	147.47024	333.81741	2.19212	0.1433012	0.23423724	2.6063461	20	—	—
361735	2007	XJ ₁₁	16.9	X	354.75350	234.23177	206.30321	11.39892	0.2684645	0.23676639	2.5877522	20	—	—
361736	2007	XQ ₁₂	17.3	X	69.51401	185.60411	276.70774	5.72469	0.0834354	0.25983219	2.4322456	20	2 20.3	20.2
361737	2007	XQ ₁₄	17.5	X	7.34246	22.36144	61.33384	2.35613	0.1071232	0.23973619	2.5663368	20	—	—
361738	2007	XR ₁₇	16.6	X	268.88264	269.87806	65.35714	11.14016	0.2695775	0.28063295	2.3105229	20	4 18.3	20.1
361739	2007	XV ₁₈	17.3	X	333.91457	41.89096	49.96731	5.30593	0.2032435	0.23363034	2.6108578	20	—	—
361740	2007	XH ₂₂	17.2	X	344.76059	14.19328	70.57437	6.37761	0.1557625	0.23453437	2.6041443	20	—	—
361741	2007	XQ ₂₃	17.5	X	23.68412	13.86085	59.84693	3.97147	0.1567625	0.24160280	2.5531015	20	—	—
361742	2007	XW ₂₈	17.5	X	14.79351	11.02774	71.89536	4.40928	0.1267255	0.24081835	2.5586428	20	—	—
361743	2007	XG ₃₃	17.2	X	296.90307	88.85557	0.74638	5.30535	0.1440148	0.22324320	2.6912284	20	11 17.1	20.1
361744	2007	XV ₃₆	17.3	X	42.76134	33.44572	34.84863	3.63560	0.1861531	0.24536090	2.5269645	20	—	—
361745	2007	XU ₃₉	16.5	X	299.65465	141.19057	295.42368	12.18660	0.1617445	0.22040412	2.7142900	20	10 28.5	19.7
361746	2007	XD ₄₁	16.7	X	10.56405	223.96918	283.52443	5.29130	0.0733966	0.25348976	2.4726488	20	1 22.0	19.3
361747	2007	XZ ₅₀	16.5	X	295.71466	48.32476	71.38734	15.06638	0.2082158	0.22342859	2.6897395	20	12 22.5	19.0
361748	2007	XH ₅₂	17.8	X	305.50462	189.69142	285.79323	2.37433	0.1444436	0.23130274	2.6283439	20	—	—
361749	2007	XW ₅₂	16.3	X	227.87914	100.90858	126.04556	12.34845	0.1558364	0.22681727	2.6628823	20	—	—
361750	2007	XP ₅₅	17.1	X	197.95798	228.24683	126.63654	4.79182	0.1111538	0.26713465	2.3877154	20	3 14.5	20.6
361751	2007	XO												

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ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361761 2007 YE ₆₆	17.4	X	231.19148	76.69370	94.53597	2.89439	0.2108418	0.21797156	2.7344469	20	11 19.2	21.2
361762 2007 YR ₆₇	16.6	X	191.75769	284.50060	55.34858	6.92186	0.1788356	0.25651775	2.4531518	20	2 22.4	20.6
361763 2007 YN ₇₃	17.1	X	213.68454	269.96655	327.62086	4.44015	0.1203175	0.22887125	2.6469265	20	—	—
361764 Antonbuslov	17.5	X	182.65205	290.47586	280.40289	18.77701	0.0899995	0.38122804	1.8837047	20	—	—
361765 2008 AE ₅	16.5	X	222.87278	231.47330	310.41457	8.37172	0.1305752	0.21823868	2.7322152	20	12 1.9	20.5
361766 2008 AR ₆	17.0	X	102.94534	343.95345	95.05397	6.22137	0.0846480	0.26081244	2.4261474	20	3 14.3	20.1
361767 2008 AF ₈	17.4	X	332.99113	328.28583	132.72205	3.38975	0.1108873	0.22890001	2.6467048	20	—	—
361768 2008 AD ₁₁	16.8	X	22.07713	295.55439	127.81895	14.14153	0.1262793	0.23383726	2.6093173	20	—	—
361769 2008 AG ₁₇	17.3	X	316.06930	310.46044	145.21085	2.97207	0.0584379	0.22319692	2.6916004	20	12 31.5	20.6
361770 2008 AC ₂₁	16.7	X	154.34354	148.37532	119.45607	5.77761	0.0726863	0.22110047	2.7085879	20	—	—
361771 2008 AV ₂₇	16.8	X	265.95830	325.14328	139.55455	9.75361	0.2504320	0.21208874	2.7847805	20	10 4.5	20.5
361772 2008 AY ₂₉	16.2	X	91.09594	169.48695	217.55600	1.06083	0.1594952	0.24641253	2.5197698	20	—	—
361773 2008 AM ₃₄	17.1	X	359.07775	106.60761	313.68826	2.49887	0.1048079	0.22737590	2.6585189	20	—	—
361774 2008 AF ₃₈	16.5	X	158.21386	173.96811	130.04599	14.78813	0.0708441	0.23461419	2.6035537	20	—	—
361775 2008 AK ₄₂	16.7	X	209.72544	201.95427	338.27778	5.10955	0.0104268	0.21656839	2.7462453	20	11 29.6	20.5
361776 2008 AK ₅₆	16.4	X	190.44926	125.26642	121.02991	13.90259	0.3106966	0.22248235	2.6973605	20	12 31.8	21.1
361777 2008 AT ₅₇	17.1	X	126.91742	180.19933	140.02399	5.23682	0.1237824	0.23258710	2.6186591	20	—	—
361778 2008 AM ₆₈	16.7	X	210.83236	3.97562	116.28665	7.49629	0.2793314	0.20469951	2.8514002	20	8 23.8	21.6
361779 2008 AA ₈₁	16.6	X	152.39826	184.61479	140.33730	14.98160	0.0781377	0.23574891	2.5951926	20	—	—
361780 2008 AW ₈₄	17.1	X	263.48020	95.17175	357.32298	7.07730	0.1943246	0.21388419	2.7691741	20	9 20.5	20.6
361781 2008 AF ₈₇	17.2	X	307.38151	26.87950	62.96686	1.03081	0.0988470	0.22367804	2.6877393	20	12 10.2	20.1
361782 2008 AW ₈₈	17.3	X	295.13668	195.43350	285.18073	1.25701	0.0476169	0.22557779	2.6726278	20	—	—
361783 2008 AU ₉₀	16.9	X	294.28214	10.40193	126.09644	9.96250	0.0738575	0.22824629	2.6517561	20	—	—
361784 2008 AN ₉₇	17.3	X	289.68286	126.74644	344.70589	4.44344	0.0677276	0.22116896	2.7080287	20	12 11.9	20.7
361785 2008 AR ₉₉	16.9	X	295.70022	234.03520	206.37155	4.29883	0.0937964	0.21570261	2.7535889	20	11 7.4	20.0
361786 2008 AG ₁₀₂	16.9	X	357.61303	133.82689	304.14245	5.15749	0.1424425	0.23169734	2.6253589	20	—	—
361787 2008 AZ ₁₁₂	16.3	X	30.07016	353.26824	59.20726	10.73346	0.1594001	0.23430025	2.6058788	20	—	—
361788 2008 AM ₁₂₉	16.1	X	161.83242	139.50520	84.43988	13.20380	0.0566422	0.21529796	2.7570381	20	11 25.7	20.2
361789 2008 BV ₃	16.1	X	157.00870	292.38025	317.69291	9.60821	0.0479534	0.22186565	2.7023567	20	12 22.9	20.1
361790 2008 BE ₅	17.2	X	312.50004	110.04567	357.83794	2.50268	0.0542104	0.22557864	2.6726211	20	—	—
361791 2008 BP ₃₁	17.1	X	240.89888	13.08529	145.99522	6.27135	0.0748129	0.21645419	2.7472112	20	12 4.9	20.9
361792 2008 BM ₃₈	16.2	X	275.68103	142.03674	322.14831	5.76993	0.0268046	0.21144239	2.7904528	20	11 13.3	20.0
361793 2008 BR ₃₉	16.9	X	327.68174	52.94692	50.65905	5.07695	0.0852153	0.22790136	2.6544309	20	—	—
361794 2008 BS ₄₀	16.2	X	358.23569	253.52425	133.16969	14.53595	0.0929851	0.21822431	2.7323351	20	12 8.2	19.8
361795 2008 BN ₅₀	17.1	X	58.18261	181.54026	177.87263	6.18382	0.0478255	0.22307492	2.6925817	20	—	—
361796 2008 BX ₅₃	15.2	X	331.32058	286.32857	4.55152	11.78653	0.0680409	0.17692818	3.1424717	20	6 9.4	19.6
361797 2008 BA ₅₄	16.9	X	206.10183	23.08707	173.55488	3.03478	0.0364094	0.21632326	2.7483196	20	12 13.5	20.7
361798 2008 CK ₁₆	16.9	X	246.49952	5.93003	159.25166	5.32888	0.0974680	0.21729063	2.7401566	20	12 16.1	20.6
361799 2008 CR ₁₈	16.3	X	52.09380	330.02154	8.02823	6.24239	0.0600420	0.21089000	2.7953234	20	12 8.6	20.2
361800 2008 CH ₂₀	17.2	X	267.24260	356.76637	133.36152	9.15025	0.2523233	0.21681562	2.7441573	20	11 9.4	20.6
361801 2008 CR ₂₀	16.9	X	326.15774	277.20466	136.97264	5.41996	0.0721944	0.21477275	2.7615311	20	11 21.8	20.3
361802 2008 CS ₂₀	16.5	X	312.71813	344.67597	154.01734	12.56035	0.1339815	0.23169874	2.6253483	20	—	—
361803 2008 CD ₂₄	16.5	X	342.78406	262.88605	140.21424	4.68502	0.0715656	0.21342526	2.7731424	20	12 1.4	19.9
361804 2008 CD ₂₅	16.5	X	207.71931	65.66710	105.92549	4.06517	0.1166626	0.20935406	2.8089788	20	11 5.1	20.7
361805 2008 CG ₃₀	16.6	X	149.65271	120.06752	123.93381	9.60625	0.0962433	0.21444445	2.7643488	20	12 5.7	21.0
361806 2008 CA ₃₆	17.0	X	234.58794	1.84775	178.76314	4.87556	0.0376559	0.21885041	2.7271214	20	12 28.6	20.7
361807 2008 CZ ₃₇	17.1	X	207.06779	275.72103	292.37181	4.04484	0.1092702	0.21669667	2.7451614	20	12 19.6	21.0
361808 2008 CL ₃₈	16.6	X	50.35732	235.28176	132.09993	7.04030	0.0414978	0.22189174	2.7021448	20	—	—
361809 2008 CD ₄₈	16.7	X	247.35508	313.61379	166.31952	13.95161	0.4283621	0.21366128	2.7710998	20	9 6.9	21.4
361810 2008 CN ₅₀	16.3	X	290.34969	112.94543	333.19285	8.41176	0.1218536	0.21470245	2.7621338	20	10 29.9	19.7
361811 2008 CT ₅₂	17.1	X	64.25029	335.96992	12.82452	5.21444	0.1261393	0.22070699	2.7118062	20	—	—
361812 2008 CY ₅₈	17.4	X	256.87750	290.74461	169.06968	4.50266	0.0717019	0.20912199	2.8110565	20	10 10.1	21.0
361813 2008 CN ₇₁	16.8	X	274.66325	27.18643	84.73407	9.29927	0.1905909	0.21761366	2.7374443	20	11 6.4	20.1
361814 2008 CL ₇₃	16.3	X	197.32863	206.85409	357.27694	8.42453	0.2407156	0.21415428	2.7668453	20	11 19.9	21.0
361815 2008 CB ₇₇	16.6	X	251.43172	156.36816	357.72234	8.49468	0.1259539	0.21870136	2.7283603	20	12 2.7	20.3
361816 2008 CW ₉₀	16.6	X	346.72107	21.32172	62.00289	14.65412	0.2164206	0.23073072	2.6326862	20	—	—
361817 2008 CC ₉₄	16.9	X	290.88648	18.81029	89.82559	4.56217	0.1551815	0.21709577	2.7417960	20	12 1.6	19.8
361818 2008 CF ₁₀₁	17.5	X	210.55062	186.59415	19.00770	4.60650	0.0478521	0.22379129	2.6868325	20	12 30.4	21.2
361819 2008 CE ₁₀₄	16.5	X	30.07668	293.44847	19.46125	5.77338	0.0688309	0.20318882	2.8655161	20	10 9.9	20.1
361820 2008 CG ₁₀₈	16.2	X	210.91230	277.12943	281.80515	6.73877	0.0912379	0.21782930	2.7356373	20	12 15.1	20.2
361821 2008 CK ₁₂₈	17.3	X	314.59670	104.86913	333.14023	5.12261	0.0634881	0.21594032	2.7515678	20	12 3.5	20.8
361822 2008 CF ₁₃₇	16.3	X	43.27947	63.38007	296.12454	5.40685	0.0348101	0.21873812	2.7280546	20	12 23.8	20.0
361823 2008 CL ₁₄₇	16.6	X	186.59805	74.38180	168.76468	11.60049	0.0419275	0.22096859	2.7096655	20	—	—
361824 2008 CG ₁₅₇	16.8	X	342.20751	344.47763	37.32992	3.02792	0.0245072	0.20613761	2.8381230	20	10 29.1	20.4
361825 2008 CV ₁₆₅	16.8	X	153.05598	239.81772	33.25294	8.53278	0.1137571	0.21650195	2.7468072	20	—	—
361826 2008 CB ₁₇₇	16.5	X	285.83466	344.17813	144.69671	14.41513	0.0570291	0.22249741	2.6972388	20	12 30.9	20.1
361827 2008 CF ₁₇₈	16.1	X	177.25161	156.59123	82.20251	8.54005	0.0919291	0.21934172	2.7230475	20	12 26.9	20.3
361828 2008 CX ₁₇₈	16.3	X	171.25524	273.11190	336.95341							

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361841 2008 DG ₃₈	16.7	X	140.53708	89.87492	193.66112	6.03743	0.0143281	0.21400322	2.7681472	20	—	—
361842 2008 DE ₃₉	16.6	X	144.13639	120.57710	179.66535	13.37082	0.1986148	0.214448199	2.7640262	20	—	—
361843 2008 DR ₄₄	16.5	X	12.75416	352.11904	31.51637	5.84864	0.0203603	0.21413678	2.7669961	20	12 11.3	20.2
361844 2008 DD ₄₇	16.4	X	235.37255	325.09099	152.55492	7.91897	0.1513656	0.20239234	2.8730289	20	9 24.7	20.6
361845 2008 DL ₄₈	16.5	X	121.79264	346.50544	204.77416	8.67819	0.0740085	0.18902605	3.0069182	20	8 25.5	21.1
361846 2008 DC ₅₂	16.4	X	202.19224	126.73628	135.67612	17.76550	0.1861078	0.22494765	2.6776167	20	—	—
361847 2008 DW ₅₆	17.0	X	136.24215	253.49325	93.00431	6.15449	0.0360201	0.23412980	2.6071434	20	—	—
361848 2008 DX ₆₀	17.0	X	164.28606	111.45235	140.84287	4.92949	0.1486977	0.21362512	2.7714125	20	12 25.7	21.5
361849 2008 DF ₆₂	17.1	X	262.50132	107.03010	351.84731	1.52519	0.0644736	0.20601192	2.8392774	20	10 15.5	20.9
361850 2008 DR ₇₀	16.1	X	159.75157	187.96713	25.94578	10.87484	0.0552081	0.20713035	2.8290474	20	11 6.1	20.4
361851 2008 DG ₇₁	16.8	X	59.71296	191.12533	132.78477	5.19655	0.0623641	0.20996285	2.8035463	20	12 2.3	20.7
361852 2008 DT ₇₇	16.9	X	341.20005	18.73352	53.70482	3.80250	0.0477481	0.21900954	2.7258002	20	—	—
361853 2008 DQ ₈₂	16.3	X	0.38639	237.49963	106.76830	3.25597	0.0321854	0.19733227	2.9219356	20	10 6.0	20.2
361854 2008 DM ₈₈	16.5	X	290.56414	331.27712	130.83854	5.99586	0.1202189	0.21217404	2.7840341	20	11 25.7	19.9
361855 2008 EX ₁	16.3	X	194.91510	12.53437	194.30144	8.49734	0.0776704	0.21099870	2.7943632	20	12 7.5	20.4
361856 2008 EO ₁₃	16.1	X	72.51181	253.72216	44.04109	6.57524	0.0780894	0.20364989	2.8611893	20	11 14.6	20.2
361857 2008 EK ₂₃	16.3	X	148.92769	101.69700	90.88656	8.48217	0.1444626	0.19812673	2.9141194	20	10 4.8	21.1
361858 2008 EH ₄₇	15.9	X	219.12879	258.28700	179.32270	16.47347	0.0652940	0.18482333	3.0523303	20	7 21.6	20.7
361859 2008 ET ₅₇	16.9	X	317.83571	308.06496	156.37334	5.25536	0.1136468	0.22316424	2.6918632	20	—	—
361860 2008 ED ₆₀	16.3	X	179.96761	236.46707	344.54782	10.24303	0.1472839	0.20988664	2.8042250	20	12 1.3	20.9
361861 2008 ED ₆₉	16.9	X	147.36585	173.24162	149.52484	36.34220	0.7393800	0.19823756	2.9130331	20	1 30.6	23.5
361862 2008 EF ₇₁	16.8	X	184.86931	226.37717	4.39934	8.49063	0.1205565	0.21469592	2.7621898	20	12 21.9	21.1
361863 2008 EH ₇₆	18.7	X	233.96111	262.35805	15.45316	21.23440	0.1379519	0.39245184	1.8476164	20	—	—
361864 2008 EZ ₈₆	16.4	X	261.22008	329.25559	171.72997	9.43764	0.0933919	0.21175584	2.7876984	20	12 5.4	20.2
361865 2008 ES ₉₃	15.9	X	86.95464	194.81020	144.54723	15.70877	0.0119491	0.21800800	2.7341422	20	—	—
361866 2008 EA ₁₀₉	16.5	X	136.10508	278.75927	328.58801	8.78983	0.1348228	0.20999277	2.8032800	20	11 22.1	21.1
361867 2008 EK ₁₂₆	16.0	X	10.49227	317.65458	6.96958	12.33847	0.0823017	0.19258137	2.9697955	20	9 27.0	19.8
361868 2008 EB ₁₄₉	17.3	X	198.10611	29.82290	184.74504	8.99009	0.0911299	0.21010647	2.8022686	20	12 18.3	21.5
361869 2008 EY ₁₆₆	16.1	X	209.79429	201.49435	23.42180	13.32786	0.0872913	0.21768232	2.7368686	20	—	—
361870 2008 FL ₉	16.7	X	80.67621	281.62970	1.12008	1.67390	0.0275694	0.20598093	2.8395621	20	10 30.7	20.5
361871 2008 FJ ₁₂	16.2	X	167.85655	171.74212	164.72476	34.03838	0.2078984	0.23714109	2.5850256	20	1 28.5	20.9
361872 2008 FR ₁₄	16.6	X	195.30301	291.09427	178.52320	12.09706	0.0719126	0.19109410	2.9851846	20	8 4.2	21.2
361873 2008 FD ₁₆	16.5	X	0.92373	80.02648	182.81633	5.02316	0.0251015	0.21161570	2.7889290	20	12 6.2	20.3
361874 2008 FX ₁₇	16.5	X	178.57952	194.52486	355.09117	4.54968	0.0365741	0.20534532	2.8454187	20	10 29.4	20.5
361875 2008 FU ₂₂	16.8	X	144.73080	138.05967	73.24396	6.33812	0.0548276	0.19776753	2.9176469	20	10 20.1	21.1
361876 2008 FG ₂₉	18.4	X	70.29408	44.31466	352.31188	21.26116	0.0924346	0.39221908	1.8483473	20	—	—
361877 2008 FT ₃₆	16.6	X	84.90743	135.09042	154.69713	2.88850	0.2418785	0.19941250	2.9015794	20	12 4.2	21.4
361878 2008 FN ₅₄	16.4	X	89.99575	246.72298	34.90589	7.74245	0.0971010	0.19758687	2.9194250	20	11 14.9	20.8
361879 2008 FQ ₅₄	16.0	X	118.82364	352.28506	195.69452	13.79201	0.1101971	0.18639691	3.0351273	20	8 20.3	20.8
361880 2008 FF ₅₅	16.4	X	163.09678	319.93240	192.13699	6.79128	0.1845581	0.19144226	2.9815643	20	8 22.9	21.4
361881 2008 FJ ₅₈	16.6	X	137.52190	47.11957	183.66687	8.15881	0.1097608	0.19663649	2.9288243	20	11 5.2	21.2
361882 2008 FE ₆₅	15.9	X	344.97781	125.09072	188.20843	9.10343	0.1104086	0.17811357	3.1285136	20	7 28.8	19.9
361883 2008 FP ₆₆	15.7	X	351.78283	265.81319	42.30672	10.51248	0.0343429	0.18013916	3.1050168	20	8 8.4	20.1
361884 2008 FM ₇₀	16.0	X	45.19036	217.67664	34.95925	16.90646	0.0665511	0.17904009	3.1177110	20	8 18.3	20.5
361885 2008 FF ₇₅	16.2	X	273.29889	333.53148	100.78936	6.47581	0.1051837	0.19890534	2.9065095	20	9 25.1	20.1
361886 2008 FD ₇₉	17.0	X	65.39974	321.89657	306.92222	0.62737	0.1390151	0.19086935	2.9875276	20	10 7.5	21.3
361887 2008 FZ ₈₁	16.4	X	218.07711	256.21571	178.68020	11.96148	0.1267836	0.18768522	3.0212222	20	7 12.5	21.3
361888 2008 FP ₈₉	16.9	X	247.81296	167.80765	331.90791	8.96481	0.1113617	0.21620936	2.7508117	20	11 9.4	20.7
361889 2008 FV ₈₉	16.9	X	246.41651	133.65846	355.73930	9.24483	0.0865990	0.21163847	2.7887289	20	10 28.4	20.7
361890 2008 FV ₉₃	16.5	X	120.16578	104.48192	156.89433	6.38546	0.0231469	0.20096455	2.8866208	20	11 21.1	20.6
361891 2008 FP ₁₀₀	16.3	X	188.23974	38.75629	61.08971	11.47234	0.1074004	0.18248977	3.0782959	20	7 16.9	21.2
361892 2008 GQ ₁₁₆	16.0	X	87.47465	193.40708	27.71010	9.78959	0.0690073	0.18453222	3.0553396	20	8 29.6	20.5
361893 2008 FF ₁₂₁	15.9	X	272.66143	187.86756	162.99440	12.02223	0.0945750	0.17624882	3.1505418	20	6 5.5	20.6
361894 2008 FP ₁₂₄	16.1	X	20.06026	111.05422	212.31496	15.87382	0.1397501	0.18968019	3.0000009	20	10 14.8	19.9
361895 2008 FS ₁₃₀	16.7	X	125.57957	72.40431	116.25026	5.56784	0.1160818	0.18662698	3.0326323	20	9 2.7	21.4
361896 2008 FU ₁₃₄	16.4	X	96.82539	348.06653	213.74374	9.02787	0.0704752	0.18287314	3.0739922	20	8 8.5	21.1
361897 2008 GN ₂	16.5	X	50.10385	292.85247	356.15560	10.92481	0.1730166	0.19316656	2.9637945	20	10 16.3	20.7
361898 2008 GN ₅	17.1	X	137.39878	295.97568	334.49952	4.19517	0.1264867	0.21049605	2.7988100	20	12 22.8	21.6
361899 2008 GW ₁₄	16.7	X	142.47808	291.03437	11.61899	7.24959	0.2026864	0.21366541	2.7710641	20	—	—
361900 2008 GC ₁₇	16.4	X	108.55381	114.87488	87.14039	7.73500	0.1892467	0.18453672	3.0554898	20	9 9.9	21.4
361901 2008 GX ₁₉	15.4	X	39.02979	218.96483	53.16293	25.64989	0.2496575	0.17861964	3.1226016	20	10 7.2	19.9
361902 2008 GJ ₃₁	16.4	X	127.26218	60.45210	107.18798	6.50995	0.0550253	0.18299286	3.0726514	20	8 3.4	20.8
361903 2008 GH ₃₃	16.3	X	347.85500	312.58107	13.93226	15.00783	0.1983241	0.18515280	3.0487082	20	9 1.5	19.6
361904 2008 GJ ₃₆	15.7	X	4.06196	254.86855	76.74551	11.89076	0.0470867	0.18816350	3.0161004	20	9 29.4	19.9
361905 2008 GE ₃₈	16.6	X	94.42852	93.85576	136.11278	2.52734	0.1373854	0.18529556	3.0471420	20	9 22.2	21.1
361906 2008 GV ₄₀	16.0	X	40.60274	261.36356	47.08669	15.95014	0.1172587	0.19093978	2.9867929	20	10 25.9	20.0
361907 2008 GK ₄₂	15.8	X	128.87137	344.26830	185.81936	10.78779	0.0712208	0.18336149	3.0685318	20	8 6.4	20.6
361908 2008 GR ₄₇	15.7	X	190.97801	279.14193	207.87179	20.82742	0.0860127	0.18504834	3.0498554	20	8 16.5	20.8
361909 2008 GY ₅₉	16.3	X	80.96204	63.01451	208.86778	9.55714	0.0834182	0.19188085	2.9770191	20	10 22.6	20.5
361910 2008 GL ₆₇	15.5	X	63.73263	214.06513	48.40190	10.09423	0.1086641	0.18599537	3.0394940	20	9 27.5	19.9
361911 2008 GK ₆₈	16.3	X	8.97511	117.81554	196.38420	15.94614	0.2385985	0.17928758	3.1148412	20	9 23.4	19.6
361912 2008 GP ₉₂	15.9	X	198.94617	89.13556	45.60113	11.85257	0.1203498	0.19268528	2.9687277	20	9 13.9	20.7
361913 2008 GE ₉₇	16.1	X	10.32490	265.68455	64.74460	9.82516	0.1178791	0.18845989	3.0129373	20	10 11.4	19.9

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
361921 2008 <i>GV</i> ₁₁₂	18.0	X	259.37788	82.73185	177.97633	22.88282	0.0262617	0.39496818	1.8397606	20	—	—
361922 2008 <i>GL</i> ₁₂₁	15.9	X	229.64758	71.29220	35.51223	17.63046	0.1137502	0.19518886	2.9432876	20	9 15.7	20.5
361923 2008 <i>GS</i> ₁₂₆	16.0	X	272.86018	257.88498	142.40996	10.51474	0.0259608	0.18906822	3.0064710	20	8 18.2	20.2
361924 2008 <i>GW</i> ₁₂₇	16.1	X	148.98552	30.70992	118.36980	10.95037	0.0494661	0.17960167	3.1112087	20	8 4.2	20.6
361925 2008 <i>GL</i> ₁₃₂	15.4	X	3.95989	244.33216	77.12085	12.24690	0.1945941	0.17784891	3.1316166	20	9 27.1	19.1
361926 2008 <i>GU</i> ₁₃₂	15.7	X	350.72211	113.46247	181.20086	15.84110	0.0919217	0.17272648	3.1932293	20	7 13.1	20.0
361927 2008 <i>GD</i> ₁₃₃	16.4	X	9.04191	117.24905	200.11172	15.53805	0.2193158	0.17779018	3.1323062	20	9 24.8	19.9
361928 2008 <i>GC</i> ₁₃₄	15.9	X	287.92458	250.47179	126.80207	11.12442	0.0716891	0.17770057	3.1333591	20	7 31.8	20.0
361929 2008 <i>GA</i> ₁₃₅	15.9	X	96.00173	152.41663	74.89973	14.76978	0.0772765	0.18592105	3.0403040	20	9 21.5	20.6
361930 2008 <i>GR</i> ₁₄₀	16.7	X	100.43543	60.76120	157.00500	2.10479	0.0914516	0.18594183	3.0400775	20	9 8.1	21.0
361931 2008 <i>GE</i> ₁₄₆	15.9	X	351.27069	209.82078	129.46277	12.50724	0.0668502	0.18357480	3.0661543	20	9 18.2	20.0
361932 2008 <i>HK</i> ₅	16.6	X	58.06982	48.99191	212.74235	3.16722	0.2642675	0.18389699	3.0625720	20	10 6.1	21.1
361933 2008 <i>HP</i> ₇	15.6	X	42.65655	170.47827	73.26526	18.56453	0.1678867	0.17699506	3.1416801	20	8 14.9	20.0
361934 2008 <i>HD</i> ₁₆	16.6	X	83.79958	97.34080	200.15993	13.35150	0.2656491	0.19085676	2.9876590	20	12 12.3	21.8
361935 2008 <i>HF</i> ₁₈	15.8	X	128.05138	120.83790	59.96240	21.12500	0.1504639	0.18614261	3.0378909	20	9 7.7	21.1
361936 2008 <i>HO</i> ₂₄	16.3	X	213.46503	305.70343	150.06400	12.14998	0.0943598	0.18528655	3.0472409	20	8 6.2	21.0
361937 2008 <i>HJ</i> ₂₇	16.2	X	254.96223	211.18554	197.92064	10.24784	0.0494076	0.18332622	3.0689254	20	7 30.3	20.7
361938 2008 <i>HS</i> ₃₃	15.9	X	132.51637	67.60646	60.71176	26.29408	0.2265972	0.17771719	3.1331637	20	6 30.1	21.4
361939 2008 <i>HY</i> ₃₈	17.1	X	126.12430	243.82325	4.68741	6.00768	0.0489217	0.20323744	2.8650590	20	11 10.6	21.3
361940 2008 <i>HF</i> ₄₄	16.3	X	33.99242	113.21292	149.17405	14.31150	0.1588893	0.17579458	3.1559665	20	8 18.3	20.3
361941 2008 <i>HK</i> ₅₀	16.1	X	36.83659	20.59863	212.39458	8.69270	0.0116012	0.17227920	3.1987538	20	6 26.1	20.7
361942 2008 <i>HC</i> ₅₂	16.9	X	127.28891	32.02834	159.05041	4.14838	0.0616402	0.18649919	3.0340175	20	9 2.0	21.3
361943 2008 <i>HW</i> ₅₂	16.1	X	6.62748	97.98370	204.63061	15.51634	0.0208082	0.18256385	3.0774631	20	8 12.3	20.6
361944 2008 <i>HL</i> ₅₃	15.9	X	86.88495	76.55340	121.07445	10.55637	0.0205327	0.17570746	3.1570097	20	7 17.5	20.4
361945 2008 <i>HO</i> ₅₇	15.9	X	343.39319	147.27373	179.69845	16.08796	0.2376972	0.17612495	3.1520187	20	8 10.6	19.1
361946 2008 <i>HV</i> ₅₈	16.1	X	1.69015	239.55149	52.48004	12.17134	0.0627887	0.17791920	3.1307916	20	8 1.6	20.4
361947 2008 <i>HE</i> ₆₂	16.8	X	120.01969	299.60668	210.79375	15.24284	0.1663730	0.17525168	3.1624810	20	7 10.5	22.0
361948 2008 <i>HK</i> ₆₂	16.2	X	40.44993	81.38180	210.14452	12.36672	0.2237589	0.18093211	3.0959382	20	10 14.9	20.3
361949 2008 <i>HM</i> ₆₂	16.1	X	95.89208	91.38433	121.79129	13.24208	0.0401974	0.18095042	3.0957294	20	8 23.1	20.5
361950 2008 <i>HD</i> ₆₄	16.0	X	306.92743	169.13450	182.18711	9.47178	0.0773453	0.17773422	3.1329635	20	7 22.1	20.2
361951 2008 <i>JO</i> ₂	16.2	X	336.04372	214.12022	125.63837	11.71965	0.0639552	0.18766642	3.0214240	20	8 25.4	20.1
361952 2008 <i>JM</i> ₅	16.7	X	68.83078	132.84875	215.95484	5.36213	0.0246051	0.21271691	2.7792953	20	—	—
361953 2008 <i>JY</i> ₅	15.9	X	80.65858	206.82807	60.56550	9.69892	0.2964523	0.18564063	3.0433649	20	11 8.3	20.9
361954 2008 <i>JV</i> ₆	16.0	X	28.76794	67.96332	209.85167	10.18561	0.0515235	0.17948364	3.1125724	20	8 13.9	20.4
361955 2008 <i>JB</i> ₉	15.6	X	315.61722	276.38008	66.13491	13.54601	0.0335645	0.17722511	3.1389607	20	8 1.8	20.1
361956 2008 <i>JW</i> ₁₂	16.2	X	86.77814	149.38200	124.86973	9.58192	0.0697427	0.19074852	2.9887891	20	11 3.1	20.7
361957 2008 <i>JC</i> ₁₅	15.2	X	25.27784	144.99590	124.71676	27.75555	0.1789914	0.17607060	3.1526674	20	8 18.4	19.1
361958 2008 <i>JR</i> ₁₇	16.1	X	38.85660	104.46702	183.68027	13.61901	0.2443817	0.18049559	3.1009278	20	10 13.5	20.1
361959 2008 <i>JT</i> ₁₇	15.8	X	5.61900	162.49831	125.93985	12.04548	0.0640292	0.17608540	3.1524907	20	7 29.8	20.0
361960 2008 <i>JC</i> ₁₈	16.3	X	56.97233	147.11837	86.84550	12.24762	0.0389415	0.17567445	3.1574051	20	7 30.0	20.7
361961 2008 <i>JK</i> ₁₈	15.8	X	56.09211	116.97783	205.64532	11.49429	0.0746779	0.19311917	2.9642793	20	11 24.4	20.0
361962 2008 <i>JY</i> ₂₁	16.0	X	4.13168	112.73078	190.15346	12.18348	0.1683749	0.17689710	3.1428398	20	8 19.3	19.6
361963 2008 <i>JZ</i> ₂₁	16.7	X	108.84591	152.40107	146.45834	10.03837	0.0787676	0.20382578	2.8595430	20	12 26.1	21.2
361964 2008 <i>JC</i> ₃₀	16.4	X	57.21460	70.24968	206.78730	7.50735	0.0574287	0.18492411	3.0512212	20	9 23.9	20.7
361965 2008 <i>JC</i> ₃₁	15.8	X	71.02615	144.81585	95.70968	10.81490	0.0427859	0.18091418	3.0961428	20	8 29.1	20.3
361966 2008 <i>JE</i> ₃₂	15.6	X	62.09181	181.76547	73.53545	11.50841	0.0576975	0.18076179	3.0978826	20	9 12.6	20.1
361967 2008 <i>JG</i> ₃₃	15.8	X	76.79207	96.89356	175.79217	15.96925	0.1237421	0.18640752	3.0350121	20	10 25.6	20.4
361968 2008 <i>JN</i> ₃₆	15.8	X	214.60549	318.91984	130.11521	11.07836	0.0234639	0.17820467	3.1274472	20	8 6.1	20.3
361969 2008 <i>JK</i> ₃₇	15.9	X	52.72763	13.54384	214.13606	14.13329	0.0554410	0.17217437	3.2000575	20	7 13.2	20.5
361970 2008 <i>JV</i> ₃₇	16.3	X	36.05858	75.88151	210.65068	8.74612	0.0390202	0.18116975	3.0932303	20	9 3.7	20.6
361971 2008 <i>KY</i> ₁	17.8	X	32.05291	29.75843	75.27894	20.60260	0.0510858	0.38693847	1.8651257	20	—	—
361972 2008 <i>KE</i> ₇	15.9	X	11.10293	179.60996	128.98004	12.51849	0.0726879	0.17915041	3.1164309	20	9 6.2	20.0
361973 2008 <i>KC</i> ₁₁	16.5	X	73.01009	157.52706	115.77939	4.85643	0.1381741	0.18810145	3.1067637	20	10 23.7	20.9
361974 2008 <i>KM</i> ₁₂	15.8	X	359.01203	253.24434	58.83599	11.00472	0.0995965	0.17794770	3.1304574	20	8 27.7	19.9
361975 2008 <i>KP</i> ₁₅	15.9	X	39.07048	126.28560	134.48194	11.45647	0.1308136	0.17640025	3.1487385	20	8 21.1	19.9
361976 2008 <i>KO</i> ₁₆	16.2	X	207.40711	339.35705	149.47649	10.62154	0.0471651	0.18683262	3.0304067	20	9 16.9	20.6
361977 2008 <i>KS</i> ₁₆	16.1	X	86.79165	150.00292	134.05096	10.79381	0.0928262	0.19173090	2.9785711	20	11 17.2	20.7
361978 2008 <i>KO</i> ₁₉	16.1	X	38.88577	65.59278	212.74916	10.79555	0.1046775	0.18064406	3.0992284	20	9 5.1	20.4
361979 2008 <i>KB</i> ₃₁	15.9	X	290.06225	329.66913	92.51539	17.3581	0.1117147	0.18993928	2.9972723	20	10 7.9	20.1
361980 2008 <i>KA</i> ₃₉	15.9	X	92.09313	142.56497	138.29972	12.18453	0.0651016	0.19216313	2.9741030	20	11 16.8	20.5
361981 2008 <i>KL</i> ₄₂	15.8	X	94.93067	119.62696	152.54473	15.88882	0.1422238	0.19013448	2.9952205	20	11 16.8	20.7
361982 2008 <i>LD</i> ₆	16.2	X	21.14486	206.30572	74.32677	10.64919	0.0906087	0.17723238	3.1388748	20	8 18.4	20.4
361983 2008 <i>LR</i> ₁₁	16.1	X	23.42624	202.87704	103.86221	12.53227	0.0854747	0.18182602	3.0857829	20	9 27.3	20.3
361984 2008 <i>LK</i> ₁₂	18.1	X	181.16519	88.85602	198.05433	21.36277	0.0668760	0.37680370	1.8984214	20	—	—
361985 2008 <i>LW</i> ₁₃	16.4	X	75.24949	70.11646	162.44110	10.34686	0.1742505	0.17903437	3.1177774	20	9 7.6	21.0
361986 2008 <i>LR</i> ₁₄	16.1	X	312.88253	189.86973	157.54463	9.68781	0.0931942	0.17399986	3.1776309	20	7 24.5	20.3
361987 2008 <i>MB</i>	15.9	X	27.07172	165.82115	137.07681	12.64583	0.0428700	0.18322452	3.0700608	20	9 19.6	20.1
361988 2008 <i>NA</i> ₄	15.4	X	36.34540	281.52023	15.23617	23.72102	0.2228983	0.17367180	3.1816313	20	10 13.0	19.5
361989 2008 <i>QQ</i> ₁₅	16.6	X	92.02346	113.27211	177.95989	20.97827	0.3658511	0.18396330	3.0618360	20	12 17.0	22.5
361990 2008 <i>RA</i> ₂₅	15.2	X	35.53650	62.72066	202.00182	14.18122	0.3750916	0.16849955	3.2464114	20	9 24.6	19.4
361991 2008 <i>RY</i> ₁₂₃	15.8	X	312.34034	289.88088	287.92711	1.67550	0.1077106	0.12558				

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Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V		
362001	2008	UO ₄₃	18.3	X	205.25369	54.83956	12.76902	2.75824	0.0997994	0.31110920	2.1570530	20	6 27.2	21.2
362002	2008	UR ₁₁₂	17.7	X	198.45422	88.83534	348.95470	3.56358	0.0302840	0.31051893	2.1597857	20	7 9.2	20.3
362003	2008	UA ₁₃₂	18.9	X	212.78189	39.89375	23.72900	3.02696	0.0498190	0.30989697	2.1626745	20	7 5.9	21.5
362004	2008	UM ₁₄₄	17.8	X	133.52941	239.54281	202.43528	2.32081	0.1546601	0.29323588	2.2438370	20	4 29.8	21.0
362005	2008	UV ₃₆₃	16.8	X	65.47360	39.41615	68.31626	26.12139	0.2148519	0.28264677	2.2995350	20	3 31.8	19.8
362006	2008	UR ₃₆₉	18.0	X	160.69206	112.43548	313.17261	3.90014	0.1258178	0.29459359	2.2369375	20	5 2.9	21.2
362007	2008	VQ ₁₈	17.7	X	113.75847	34.43298	57.19506	7.00619	0.1513821	0.29101276	2.2552500	20	4 21.2	20.5
362008	2008	VZ ₅₅	17.7	X	351.06053	293.12357	345.09495	3.19803	0.0295915	0.30877474	2.1679114	20	6 30.6	19.8
362009	2008	YV ₆₉	18.8	X	191.29194	12.57771	59.09434	3.35023	0.0591846	0.30498024	2.1858561	20	6 17.4	21.6
362010	2008	VZ ₇₇	18.2	X	110.26084	292.57813	208.65131	3.77526	0.0949864	0.29785458	2.2205805	20	6 16.9	21.0
362011	2008	WJ ₇₄	17.8	X	82.25404	59.79744	60.41759	3.09105	0.1379648	0.28205310	2.3027606	20	4 15.8	20.3
362012	2008	WQ ₁₀₆	17.7	X	160.22512	62.17738	32.28611	6.20910	0.0533118	0.30183762	2.2010022	20	6 9.3	20.6
362013	2008	WX ₁₂₀	17.9	X	75.38339	182.58837	289.72562	4.64639	0.1101238	0.27939282	2.3173549	20	3 15.9	20.4
362014	2008	WB ₁₂₆	17.9	X	70.32909	326.22099	125.30986	3.22165	0.1420286	0.27191592	2.3596429	20	2 15.4	20.1
362015	2008	WN ₁₂₆	17.3	X	60.28902	53.02745	85.13898	7.70680	0.0746267	0.28550183	2.2841789	20	3 31.2	19.8
362016	2008	WB ₁₂₉	17.3	X	137.64353	18.27184	60.77286	8.83938	0.1460904	0.28462336	2.2888765	20	5 1.2	20.5
362017	2008	WQ ₁₄₀	17.8	X	164.65237	67.06854	9.30467	5.66107	0.0935825	0.29879365	2.2159254	20	5 20.8	21.0
362018	2008	YY ₁₂	17.3	X	41.77514	35.70709	110.43998	11.16657	0.1635680	0.27538184	2.3398024	20	3 21.9	19.5
362019	2008	YA ₁₇	17.7	X	65.69516	348.50859	109.44598	2.27880	0.1502302	0.27217860	2.3581245	20	2 17.8	19.9
362020	2008	YR ₁₈	17.3	X	1.48275	278.34363	202.11415	6.26168	0.0624572	0.28296791	2.2977949	20	4 14.5	19.8
362021	2008	YY ₂₁	16.9	X	273.15162	196.48069	121.30833	18.79231	0.1551542	0.28669163	2.2778548	20	4 18.7	20.4
362022	2008	YF ₂₂	17.7	X	141.75065	283.15869	128.87263	2.47551	0.1320780	0.28009639	2.3134727	20	3 28.9	20.9
362023	2008	YD ₃₈	17.0	X	78.74336	84.37720	100.27306	7.74697	0.0402163	0.29644743	2.2276020	20	6 27.7	19.5
362024	2008	YJ ₅₂	17.4	X	354.25692	105.04411	90.46039	5.45531	0.1679470	0.27202409	2.3590174	20	2 21.2	19.5
362025	2008	YR ₆₂	18.0	X	98.30214	257.57056	176.67609	2.39313	0.1745886	0.27649232	2.3335333	20	3 10.3	20.8
362026	2008	YE ₆₉	16.1	X	251.41923	24.28607	63.98989	15.32156	0.1052733	0.22969205	2.6406170	20	9 24.2	19.9
362027	2008	YA ₇₃	18.1	X	83.44873	143.72176	302.44657	5.00608	0.2072378	0.27712516	2.3299794	20	3 8.1	20.6
362028	2008	YT ₉₅	18.4	X	164.02383	40.02560	17.99453	0.53125	0.0723597	0.28765844	2.2727481	20	4 25.1	21.3
362029	2008	YP ₉₉	18.2	X	90.43156	161.89151	279.59899	1.41681	0.1793680	0.27597225	2.3364641	20	3 9.2	20.8
362030	2008	YH ₁₀₀	18.3	X	35.92546	101.65508	8.23948	0.101247	0.1544683	0.26734090	2.3864872	20	1 7.2	20.2
362031	2008	YS ₁₂₁	17.2	X	328.31329	339.23311	269.19429	5.18073	0.1326605	0.28291737	2.2980685	20	3 22.0	19.6
362032	2008	YK ₁₄₁	17.6	X	165.68365	314.20639	96.45359	6.91781	0.0860121	0.28652222	2.2787520	20	4 21.3	20.8
362033	2008	YV ₁₄₃	17.5	X	10.53056	294.15921	279.96458	4.54559	0.1796656	0.27993996	2.3143344	20	4 22.1	19.1
362034	2008	YD ₁₄₆	17.3	X	42.40849	29.31817	126.70132	8.53749	0.1526887	0.27596641	2.3364970	20	4 15.2	19.5
362035	2008	YZ ₁₄₆	17.7	X	73.67727	338.89713	205.67336	3.48991	0.1846702	0.29620934	2.2287955	20	7 5.9	20.3
362036	2008	YO ₁₆₀	16.6	X	29.91346	224.55500	172.53769	14.58703	0.1114531	0.23812516	2.5778987	20	—	—
362037	2008	YX ₁₆₇	17.9	X	95.15889	62.77466	21.72754	3.18944	0.2075206	0.27803523	2.3248922	20	3 26.1	20.5
362038	2009	AG ₂	17.3	X	90.93446	21.19307	68.28949	7.45316	0.0762101	0.27547844	2.3392554	20	3 9.8	20.1
362039	2009	AB ₂₂	17.3	X	120.76219	312.35792	116.53693	7.89787	0.0648801	0.27965598	2.3159009	20	3 19.8	20.3
362040	2009	AA ₂₆	17.6	X	355.10970	115.38313	122.96646	6.82466	0.1245834	0.28481340	2.2878582	20	5 4.9	19.7
362041	2009	AR ₃₈	17.8	X	342.07520	90.94148	136.13984	3.77575	0.1812822	0.27995286	2.3142634	20	3 26.8	20.2
362042	2009	BB ₄	17.7	X	25.10516	320.97280	216.90696	6.05899	0.1253171	0.27753757	2.3276706	20	3 25.9	19.8
362043	2009	BE ₄	17.4	X	62.18826	205.75721	259.33251	6.04605	0.2080044	0.27300015	2.3533912	20	2 25.8	19.5
362044	2009	BC ₅	17.2	X	18.83536	109.67300	119.56903	7.30083	0.0524995	0.29202254	2.2500481	20	6 2.2	19.5
362045	2009	BE ₉	17.7	X	69.76453	298.18671	140.52211	2.12893	0.2122270	0.27012546	2.3700583	20	2 5.6	19.6
362046	2009	BH ₉	16.6	X	139.31364	326.94042	124.16411	25.84231	0.1977188	0.28928019	2.2642459	20	5 30.1	20.7
362047	2009	BG ₁₄	16.7	X	17.17897	294.84751	263.28692	22.45947	0.3035491	0.28358835	2.2944422	20	3 31.3	18.6
362048	2009	BM ₁₆	17.6	X	76.17416	265.69328	166.08339	2.37928	0.1814507	0.26699201	2.3885658	20	2 2.8	19.7
362049	2009	BK ₃₈	17.3	X	353.99254	121.14794	115.72175	4.26118	0.2001162	0.27827551	2.3235537	20	4 23.5	18.8
362050	2009	BB ₃₉	18.3	X	29.87124	108.61326	16.55174	1.66698	0.1333829	0.26600184	2.3944896	20	1 19.2	20.5
362051	2009	BJ ₃₉	17.8	X	45.38424	152.95959	3.55236	2.51027	0.0751026	0.27598722	2.3363796	20	3 29.5	20.3
362052	2009	BW ₄₂	18.1	X	52.66069	19.56940	101.26168	2.37496	0.1404596	0.27067679	2.3668389	20	2 26.9	20.2
362053	2009	BF ₄₃	17.8	X	66.86734	76.25970	17.75689	1.30095	0.1797716	0.26961526	2.3730474	20	2 18.7	20.0
362054	2009	BH ₄₃	17.9	X	25.66832	192.12016	330.58685	4.00563	0.0835432	0.27206471	2.3587825	20	3 5.0	20.2
362055	2009	BQ ₄₅	17.8	X	6.44665	305.60912	246.31569	2.00652	0.0770674	0.27318372	2.3523368	20	3 14.2	20.1
362056	2009	BS ₄₆	17.9	X	73.71014	247.21786	182.98142	2.37178	0.1880926	0.26586952	2.3952840	20	1 28.1	20.1
362057	2009	BF ₅₁	17.3	X	101.07398	306.24673	134.80689	4.02488	0.2389725	0.27541181	2.3396327	20	4 4.5	20.3
362058	2009	BJ ₅₁	17.1	X	351.17465	43.43220	135.34463	6.92153	0.0548225	0.26573812	2.3960735	20	2 4.3	19.7
362059	2009	BZ ₅₁	17.7	X	317.16083	118.59037	96.13958	2.15378	0.1487136	0.26697978	2.3886388	20	1 20.9	20.7
362060	2009	BQ ₅₂	17.6	X	336.90789	148.25164	7.86201	1.04701	0.1318369	0.25952535	2.4341623	20	—	—
362061	2009	BP ₅₃	18.2	X	46.68507	72.96843	31.72373	1.76365	0.1452393	0.26681604	2.3896159	20	1 22.2	20.1
362062	2009	BS ₅₄	18.0	X	50.86516	66.70572	37.62167	1.96451	0.1448475	0.26784013	2.3835208	20	1 30.0	20.1
362063	2009	BZ ₅₇	17.0	X	15.14035	184.44557	313.76086	6.94163	0.1128783	0.26340783	2.4101844	20	1 12.9	19.3
362064	2009	BZ ₆₀	17.6	X	64.15350	145.13261	316.10980	6.23505	0.1614218	0.27196393	2.3593653	20	2 19.6	19.8
362065	2009	BN ₆₂	17.0	X	29.45305	12.70342	147.22459	5.91374	0.1650833	0.27002564	2.3706424	20	3 12.5	18.7
362066	2009	BP ₆₂	17.7	X	36.64931	235.81495	273.06544	5.37429	0.1423459	0.27614557	2.3354863	20	3 3.4	19.7
362067	2009	BE ₆₃	17.8	X	82.02833	113.35065	138.97414	7.69082	0.1886843	0.27090798	2.3654922	20	2 14.4	20.1
362068	2009	BT ₆₇	17.5	X	10.99960	3.10643	138.19200	7.36192	0.1106059	0.26284136	2.4136460	20	1 9.1	20.1
362069	2009	BU ₇₁	17.4	X	292.66778	305.52561	287.17553	1.40111	0.1645842	0.26292804	2.4131155	20	1 12.6	20.5
362070	2009	BY ₇₂	17.3	X	72.732									

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362081 2009 BV ₁₂₃	18.5	X	80.13198	256.97905	198.74740	1.02058	0.1461462	0.27166444	2.3610990	20	3 8.9	21.0
362082 2009 BN ₁₂₅	17.1	X	155.28804	322.21124	103.75835	7.47678	0.1695708	0.28344911	2.2951936	20	5 5.2	20.7
362083 2009 BL ₁₂₇	18.3	X	25.82915	342.55994	148.55266	1.75590	0.1211431	0.26569738	2.3963184	20	1 19.9	20.6
362084 2009 BW ₁₂₈	17.3	X	98.92722	326.92757	66.64002	5.81861	0.1559972	0.26125305	2.4234188	20	1 15.7	20.0
362085 2009 BX ₁₂₈	17.2	X	110.04102	15.42431	25.98409	7.04987	0.1578005	0.26625233	2.3929875	20	2 12.7	20.2
362086 2009 BY ₁₃₀	17.6	X	99.78359	323.19960	90.84960	4.40122	0.1897850	0.26648077	2.3916198	20	2 19.3	20.5
362087 2009 BW ₁₃₈	17.8	X	317.16160	46.26164	162.21287	1.35704	0.1224408	0.26558985	2.3969652	20	1 16.4	20.7
362088 2009 BP ₁₄₅	17.9	X	108.08508	292.56138	105.20536	2.20108	0.1902858	0.26779973	2.3837605	20	2 7.2	20.8
362089 2009 BM ₁₄₈	17.6	X	290.20148	17.87851	180.17887	4.51459	0.0374952	0.25517617	2.4617426	20	—	—
362090 2009 BH ₁₄₉	18.1	X	55.90057	73.20467	49.19061	1.96461	0.1349679	0.27156936	2.3616500	20	3 5.6	20.2
362091 2009 BP ₁₅₉	16.5	X	75.66213	1.90599	340.41120	11.83599	0.1829506	0.23712328	2.5851550	20	—	—
362092 2009 BT ₁₇₂	17.2	X	25.65912	277.59032	189.44655	6.25007	0.1996775	0.26288680	2.4133679	20	—	—
362093 2009 BA ₁₈₀	17.6	X	335.93075	130.38876	84.04276	2.21882	0.1327599	0.27462297	2.3441108	20	2 19.5	20.1
362094 2009 BA ₁₈₁	17.8	X	20.83562	137.45832	65.61261	4.79116	0.1198133	0.27227339	2.3575772	20	3 16.2	19.9
362095 2009 BB ₁₈₂	18.0	X	38.89778	256.61816	215.08554	1.62033	0.1559246	0.26550409	2.3974814	20	1 16.4	20.0
362096 2009 BG ₁₈₄	17.3	X	168.32889	280.76329	116.44015	7.37885	0.1050943	0.27986993	2.3147205	20	4 8.1	20.7
362097 2009 BN ₁₈₅	16.9	X	39.47204	352.23454	122.63324	5.88315	0.0836504	0.26522210	2.3991804	20	1 21.5	19.5
362098 2009 BS ₁₈₆	17.6	X	110.69258	209.68827	194.31818	5.01935	0.2244354	0.27142906	2.3624637	20	2 21.5	20.6
362099 2009 BJ ₁₈₉	17.5	X	309.39643	87.85082	150.89795	5.79430	0.1215856	0.26919400	2.3755224	20	2 15.0	20.3
362100 2009 BF ₁₉₀	17.5	X	330.68179	80.62962	163.68116	6.42603	0.1159784	0.27292715	2.3538108	20	3 28.4	19.9
362101 2009 CK ₃	17.7	X	107.17491	44.98433	4.70740	1.23008	0.1759993	0.27103403	2.3647587	20	2 19.3	20.6
362102 2009 CV ₂₀	17.3	X	133.26130	284.70588	154.04595	5.77635	0.1271408	0.28257684	2.2999144	20	4 24.5	20.5
362103 2009 CO ₂₂	17.7	X	331.06568	85.94363	148.50554	5.44570	0.2030861	0.27206801	2.3587635	20	2 29.0	20.1
362104 2009 CF ₂₃	17.8	X	22.15165	16.63635	157.96781	6.46450	0.0701779	0.27450321	2.3447926	20	3 17.9	20.2
362105 2009 CK ₂₃	18.2	X	299.82818	0.35044	208.75375	1.77829	0.1242364	0.26080348	2.4262029	20	—	—
362106 2009 CK ₂₅	18.0	X	348.60176	179.65904	356.89319	4.31573	0.0515027	0.26525923	2.3989565	20	1 30.3	20.9
362107 2009 CQ ₂₅	17.2	X	207.89277	25.15888	348.87104	5.40309	0.2041411	0.28407688	2.2918110	20	4 11.8	20.9
362108 2009 CD ₂₇	17.3	X	108.85577	272.15618	125.57950	6.88274	0.1295043	0.26429496	2.4047880	20	1 30.0	20.2
362109 2009 CB ₃₂	17.8	X	61.17501	281.26540	137.40177	4.32451	0.1649903	0.25771959	2.4455193	20	—	—
362110 2009 CC ₃₃	17.9	X	320.78011	107.22928	138.18498	8.33979	0.0585264	0.27194557	2.3594715	20	3 24.7	20.7
362111 2009 CR ₃₉	17.1	X	316.52074	86.23832	149.24788	6.32140	0.0599303	0.27066361	2.3669158	20	3 1.9	20.0
362112 2009 CT ₄₇	16.7	X	324.13642	223.54490	355.74744	12.64316	0.1521627	0.26473722	2.4021090	20	2 9.9	19.7
362113 2009 CN ₅₆	17.3	X	24.04400	335.93171	169.13223	7.12989	0.0442286	0.26518388	2.3994109	20	2 6.9	20.1
362114 2009 CZ ₅₆	17.4	X	340.59055	172.16118	314.81448	2.41797	0.1372609	0.25447086	2.4662893	20	—	—
362115 2009 CV ₅₈	17.7	X	308.12020	40.27715	190.73839	0.91516	0.1424702	0.26361536	2.4089192	20	1 31.5	20.9
362116 2009 CW ₅₈	16.4	X	103.71170	119.47073	180.39736	22.25384	0.1246301	0.22556367	2.6727394	20	12 28.2	21.0
362117 2009 CE ₆₃	17.5	X	332.94340	309.97459	239.53704	3.71185	0.1670543	0.26281691	2.4137957	20	1 6.2	20.3
362118 2009 CP ₆₃	18.1	X	28.07663	255.26118	234.27986	1.50479	0.1550211	0.26509643	2.3999386	20	1 20.9	20.2
362119 2009 CP ₆₅	18.0	X	101.29128	48.59195	34.23692	2.70971	0.1892376	0.27502503	2.3418257	20	3 29.6	20.9
362120 2009 DV ₂	17.1	X	289.15349	326.18318	332.21113	6.74376	0.1155159	0.27974817	2.3153921	20	4 6.5	20.0
362121 2009 DY ₆	17.0	X	65.11553	272.33873	209.28487	3.20277	0.1331388	0.27119680	2.3638124	20	3 18.8	19.4
362122 2009 DD ₁₂	17.9	X	58.11823	343.94282	129.01594	1.88840	0.1398046	0.27011315	2.3701303	20	2 24.8	20.0
362123 2009 DG ₁₃	17.2	X	310.93792	59.84736	176.36361	7.63331	0.1750937	0.26263937	2.4148834	20	2 4.9	20.3
362124 2009 DJ ₁₃	16.9	X	322.80491	117.17287	342.66879	11.78075	0.1599207	0.24028875	2.5624010	20	—	—
362125 2009 DU ₁₅	17.5	X	83.12304	150.01103	323.84421	3.35226	0.0416732	0.27401190	2.3475946	20	3 21.6	20.4
362126 2009 DJ ₂₃	17.1	X	12.27124	332.90129	149.90639	6.19084	0.0289193	0.25611604	2.4557163	20	—	—
362127 2009 DM ₂₅	17.6	X	269.77465	141.52646	106.81813	2.28110	0.1559274	0.25949291	2.4343651	20	1 9.7	21.3
362128 2009 DC ₂₉	17.7	X	54.95312	309.80450	156.27867	2.96079	0.1842855	0.26587814	2.3952323	20	2 13.5	19.5
362129 2009 DL ₃₂	17.5	X	312.15464	73.33510	128.36483	2.29501	0.1332874	0.25604415	2.4561760	20	1 1.2	20.8
362130 2009 DO ₄₀	17.6	X	320.84866	106.86654	119.94656	2.02782	0.1440859	0.26720122	2.3873188	20	2 12.2	20.1
362131 2009 DW ₄₂	18.0	X	41.03845	83.21408	7.27179	4.97235	0.1956205	0.26440159	2.4041414	20	—	—
362132 2009 DM ₄₇	17.7	X	24.65970	158.64749	340.19114	2.39242	0.1602596	0.26530188	2.3986994	20	1 28.7	19.7
362133 2009 DT ₆₀	17.4	X	99.71305	285.60566	112.06691	5.50511	0.0755233	0.25629992	2.4545416	20	1 10.1	20.4
362134 2009 DW ₆₃	16.8	X	139.48059	324.59381	118.38208	6.77945	0.1668325	0.27982386	2.3149746	20	5 11.3	20.3
362135 2009 DA ₇₀	17.3	X	297.43278	17.19875	252.92465	1.70619	0.1606807	0.27041944	2.3683403	20	3 5.5	20.3
362136 2009 DC ₈₀	16.9	X	173.49504	209.61611	115.37099	2.82413	0.1761364	0.25267644	2.4779519	20	1 16.4	20.7
362137 2009 DZ ₈₀	17.5	X	294.70344	55.13346	206.05580	2.10244	0.1715291	0.26390578	2.4071516	20	2 18.6	20.8
362138 2009 DY ₈₁	16.6	X	105.52440	260.22346	103.99292	4.11701	0.1763965	0.24589740	2.5232876	20	—	—
362139 2009 DD ₈₃	17.5	X	333.31744	128.48389	38.53247	3.76017	0.1322113	0.25391689	2.4698751	20	—	—
362140 2009 DH ₈₄	17.0	X	175.37505	210.77762	140.38342	5.36280	0.0838510	0.26199931	2.4188148	20	2 12.5	20.2
362141 2009 DH ₈₅	18.2	X	65.89585	346.17217	136.77981	2.90443	0.0449662	0.27180591	2.3602796	20	3 11.9	21.0
362142 2009 DU ₈₇	16.6	X	217.60535	97.02619	149.35629	15.37309	0.0836356	0.24218652	2.5489974	20	—	—
362143 2009 DL ₉₃	17.3	X	320.94494	136.54990	64.86888	3.73337	0.1210992	0.25835178	2.4415282	20	1 14.4	20.2
362144 2009 DS ₉₇	17.3	X	63.49759	55.56128	19.99735	5.27889	0.2011930	0.26161721	2.4211694	20	1 21.1	19.4
362145 2009 DV ₉₇	17.5	X	275.55614	161.76208	101.90567	1.61452	0.2257742	0.26007736	2.4307167	20	1 27.8	21.3
362146 2009 DH ₉₉	17.6	X	25.05150	75.79470	70.11041	2.90369	0.1175027	0.26456014	2.4031808	20	2 11.3	19.8
362147 2009 DF ₁₀₉	16.8	X	274.04325	142.28813	122.01520	10.27582	0.0902992	0.26585313	2.3953825	20	2 10.4	20.1
362148 2009 DS ₁₁₁	16.9	X	210.95302	159.90774	168.49252	8.91449	0.2198367	0.26129098	2.4231843	20	2 20.1	21.1
362149 2009 DF ₁₁₉	16.7	X	189.62559	154.05498	161.32737	6.24324	0.1533046	0.25802088	2.4436152	20	1 16.8	20.6
362150 2009 DD ₁₂₀	17.9	X	296.20104	254.00801	135.06000	0.77759	0.1276182	0.25505717	2.4625082	20	—	—
362151 2009 DD ₁₂₁	17.7	X	308.06624	82.89759	175.23554	6.37125	0.1175851	0.26849095	2.3796675	20	3 11.4	20.7
362152 2009 DZ ₁₂₃	17.3	X	81.22694	259.98733	184.75804	10.18200	0.1923592	0.26887755	2.3773859	20	3 1.6	20.0
362153 2009 DT ₁₂₄	17.3	X	48.20132	25.80621	359.03001	7.32628	0.0271638	0.23849738	2.5752158	20	—	—
362154 2009 DN ₁₂₇	17.0	X	210.62757	26								

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362161 2009 DZ ₁₄₁	17.2	X	8.36640	120.88785	25.72989	5.40257	0.1604731	0.26163540	2.4210572	20	1 8.4	19.5
362162 2009 EL ₁	16.3	X	306.40509	164.52615	77.52155	40.78799	0.2595997	0.25934093	2.4353161	20	1 29.3	20.5
362163 2009 EZ ₄	17.6	X	348.09630	119.39857	47.47525	2.09942	0.1209128	0.25908760	2.4369033	20	1 7.2	20.3
362164 2009 EA ₈	17.6	X	325.70899	122.82628	113.78720	5.60812	0.1902849	0.26775338	2.3840356	20	2 27.1	20.2
362165 2009 EG ₁₂	17.3	X	319.77114	131.27593	69.68676	6.45040	0.0902713	0.26018016	2.4300764	20	1 17.0	20.3
362166 2009 EW ₁₇	17.5	X	302.10004	75.85199	192.24363	4.57295	0.1757042	0.26898132	2.3767744	20	3 6.7	20.5
362167 2009 EA ₂₃	17.5	X	244.12509	51.91451	187.07984	3.82076	0.1580743	0.24570124	2.5246304	20	—	—
362168 2009 EE ₂₃	17.6	X	307.44402	197.38062	18.55228	2.55131	0.1494297	0.25846792	2.4407968	20	1 11.6	20.9
362169 2009 FU ₃	17.6	X	5.34489	72.79259	105.49817	3.34804	0.1412081	0.26502050	2.4003970	20	2 20.2	19.9
362170 2009 FK ₁₁	18.1	X	40.26298	228.08382	224.16348	2.19596	0.1511179	0.25889376	2.4381195	20	—	—
362171 2009 FR ₁₂	17.7	X	239.29867	288.97607	359.65464	5.30948	0.2002565	0.25600179	2.4564469	20	1 29.9	21.8
362172 2009 FD ₁₅	17.7	X	311.17235	81.85391	173.39642	2.96401	0.1760609	0.26906807	2.3762636	20	3 2.3	20.3
362173 2009 FX ₂₀	17.8	X	0.41838	319.62131	178.66452	2.50598	0.1389166	0.25585831	2.4573651	20	—	—
362174 2009 FE ₂₀	17.3	X	247.90309	222.73653	354.06822	3.31739	0.1080571	0.24383658	2.5374850	20	—	—
362175 2009 FB ₂₁	17.5	X	300.70092	258.83973	317.89802	1.64426	0.1461624	0.25598189	2.4565742	20	1 5.1	20.7
362176 2009 FP ₂₁	17.1	X	240.49652	167.53435	121.43004	5.16668	0.1345968	0.25661282	2.4525459	20	2 2.2	20.6
362177 2009 Anji	17.9	X	297.45043	219.16378	25.30257	1.58885	0.1449177	0.26061071	2.4273992	20	2 5.7	21.1
362178 2009 FV ₃₁	17.7	X	7.43830	67.30472	9.98322	6.02535	0.1531148	0.24359701	2.5391484	20	—	—
362179 2009 FM ₃₃	17.4	X	342.19738	30.84589	159.20485	5.16789	0.0461630	0.26460081	2.4029345	20	2 7.1	20.3
362180 2009 FD ₃₄	17.5	X	347.85457	161.19412	55.40038	1.92477	0.1358769	0.26906725	2.3762684	20	3 15.1	19.6
362181 2009 FN ₅₁	17.3	X	268.31958	98.00752	171.92012	7.54398	0.0770262	0.26238480	2.4164451	20	2 10.6	20.8
362182 2009 FV ₆₁	17.6	X	251.55013	22.22560	177.94482	7.92336	0.1341730	0.23996561	2.5647008	20	—	—
362183 2009 FM ₆₂	17.5	X	335.21549	316.71360	214.47922	4.75094	0.1393049	0.25456151	2.4657037	20	—	—
362184 2009 FZ ₆₄	16.4	X	150.58991	317.62038	19.67719	17.05025	0.2830701	0.23892639	2.5721323	20	1 26.6	21.0
362185 2009 FR ₆₆	17.2	X	355.43748	264.63867	172.38641	8.57249	0.1394617	0.23948268	2.5681476	20	—	—
362186 2009 FF ₆₇	17.7	X	322.68373	12.92245	167.05320	1.39956	0.1806347	0.25343802	2.4729853	20	—	—
362187 2009 FO ₇₀	16.7	X	117.84429	320.38748	15.23724	14.34334	0.0188376	0.24136449	2.5547817	20	—	—
362188 2009 FP ₇₂	16.7	X	313.64695	94.50907	73.40765	3.39425	0.0376182	0.24470883	2.5314515	20	—	—
362189 2009 FT ₇₂	17.5	X	144.75202	95.83799	181.38396	6.93314	0.2964569	0.22107328	2.7088100	20	—	—
362190 2009 FF ₇₅	17.3	X	182.36304	100.69085	181.84228	4.28496	0.2319956	0.23321456	2.6139600	20	—	—
362191 2009 FJ ₇₇	17.5	X	292.45054	302.78253	322.56205	2.77964	0.1048386	0.26550620	2.3974686	20	3 2.0	20.3
362192 2009 FM ₇₇	16.5	X	259.68391	187.96206	22.73783	4.26908	0.0246960	0.24021279	2.5629411	20	—	—
362193 2009 GK ₁	16.4	X	226.55100	17.69489	224.03748	14.29537	0.0933554	0.23531539	2.5983790	20	—	—
362194 2009 HY ₃	17.5	X	325.77892	127.15500	54.18612	9.53486	0.1537244	0.25462993	2.4652620	20	—	—
362195 2009 HQ ₆	16.7	X	284.32260	92.74137	105.67064	6.42254	0.0600463	0.24432899	2.5340746	20	—	—
362196 2009 HE ₉	16.1	X	71.53612	190.68111	143.39933	11.42665	0.2707616	0.21569842	2.7536247	20	—	—
362197 2009 HD ₁₅	17.3	X	289.20522	76.12144	154.92028	6.42775	0.0630931	0.25618187	2.4552956	20	1 19.8	20.7
362198 2009 HC ₁₈	16.9	X	277.59752	54.67317	212.39457	11.57081	0.1504298	0.25700176	2.4500709	20	2 6.9	20.7
362199 2009 HU ₁₈	16.5	X	247.00467	8.42332	209.00952	18.39079	0.1540819	0.23699154	2.5861130	20	—	—
362200 2009 HX ₂₁	16.8	X	194.28939	220.34057	37.45709	27.82711	0.2811678	0.23190611	2.6237831	20	—	—
362201 2009 HW ₂₇	17.1	X	244.15151	10.15120	206.85396	7.78500	0.1331475	0.23874603	2.5734276	20	—	—
362202 2009 HW ₂₈	17.2	X	245.02498	177.84083	67.76349	5.34847	0.2421831	0.24076801	2.5589994	20	—	—
362203 2009 HJ ₃₁	17.1	X	355.06399	345.72204	115.68674	6.11902	0.1336822	0.24144598	2.5542069	20	—	—
362204 2009 HN ₃₁	16.6	X	27.81205	253.50159	121.52562	6.91070	0.0526106	0.22403420	2.6848901	20	12 27.5	20.1
362205 2009 HB ₃₄	17.3	X	176.55487	36.42594	194.25045	6.43834	0.0833345	0.22510320	2.6763830	20	12 18.5	21.3
362206 2009 HZ ₄₂	17.8	X	281.59126	121.08815	45.93118	12.54227	0.2030687	0.23939867	2.5687484	20	—	—
362207 2009 HB ₄₃	17.2	X	287.20917	146.31345	45.18117	12.53990	0.1190829	0.24417309	2.5351531	20	—	—
362208 2009 HQ ₄₄	16.7	X	47.57958	282.16994	152.41516	11.77815	0.0928352	0.24209723	2.5496242	20	—	—
362209 2009 HQ ₄₈	16.7	X	350.42643	312.24315	167.02486	13.82834	0.0241462	0.23931835	2.5693231	20	—	—
362210 2009 HS ₄₈	16.8	X	202.50589	94.43917	183.96200	14.13825	0.1405300	0.23901777	2.5714767	20	—	—
362211 2009 HK ₅₁	16.6	X	175.32057	235.62517	57.80266	13.82828	0.1738506	0.23562608	2.5960944	20	—	—
362212 2009 HV ₅₉	16.9	X	240.73860	133.59397	88.48588	5.40870	0.2200283	0.23779870	2.5802576	20	—	—
362213 2009 HK ₆₂	16.0	X	219.79675	334.82585	227.09289	13.37232	0.1006173	0.22638639	2.6662601	20	12 28.5	19.8
362214 2009 HL ₆₅	16.9	X	244.47133	170.30532	72.07319	9.91320	0.0814209	0.24191326	2.5509167	20	—	—
362215 2009 HH ₆₆	16.5	X	233.69153	1.54988	166.01739	14.21820	0.1794213	0.22450846	2.6811076	20	11 25.3	20.5
362216 2009 HL ₆₆	16.8	X	260.64288	323.19225	170.29389	14.29870	0.1286567	0.22229912	2.6988426	20	11 24.0	20.5
362217 2009 HB ₇₃	16.9	X	258.72376	108.83066	93.49020	9.45457	0.1115214	0.23784976	2.5798883	20	—	—
362218 2009 HJ ₇₃	16.4	X	278.27650	50.36303	129.66921	12.81054	0.2284862	0.23836839	2.5761448	20	—	—
362219 2009 HP ₇₅	16.7	X	271.08827	93.25506	128.87003	5.79646	0.1510638	0.24504745	2.5291189	20	—	—
362220 2009 HV ₇₈	16.8	X	42.99087	316.49789	114.11265	6.77146	0.0181317	0.24588126	2.5233980	20	—	—
362221 2009 HW ₇₈	16.4	X	258.92276	244.88793	36.39428	14.97845	0.1303765	0.25779746	2.4450268	20	2 18.6	20.3
362222 2009 HD ₇₉	17.1	X	291.41648	334.51006	216.21354	12.19404	0.1043432	0.24302114	2.5431580	20	—	—
362223 2009 HD ₈₆	17.6	X	204.06920	85.11088	176.70415	7.23209	0.1708801	0.23684655	2.5871683	20	—	—
362224 2009 HH ₈₈	16.5	X	230.82778	170.25571	36.69985	14.42969	0.1845977	0.23242443	2.6198808	20	—	—
362225 2009 HG ₉₀	17.0	X	204.53515	30.90187	214.15037	13.96892	0.1524696	0.23430408	2.6058504	20	—	—
362226 2009 HP ₉₃	16.4	X	315.49467	278.60942	179.69125	12.76991	0.1594041	0.22630359	2.6669103	20	—	—
362227 2009 HW ₉₃	16.8	X	224.47815	61.47613	115.61940	11.33947	0.1320007	0.22284461	2.6944365	20	12 1.9	20.7
362228 2009 HQ ₉₆	16.5	X	228.55441	120.91760	76.92818	14.28784	0.1337079	0.22936765	2.6431062	20	12 31.6	20.1
362229 2009 HU ₉₇	17.1	X	197.74778	205.94827	56.46538	6.00793	0.2504592	0.23215126	2.6219356	20	—	—
362230 2009 HD ₉₈	16.7	X	169.68414	240.18911	67.79798	15.26848	0.2217418	0.23273187	2.6175730	20	—	—
362231 2009 HT ₁₀₂	17.0	X	190.91670	76.89127	104.42279	13.87185	0.1942387	0.21704193	2.7422494	20	10 30.7	21.7
362232 2009 JL	16.5	X	179.77999	232.15347	53.62824	13.47773	0.2344013	0.23197366	2.6232737	20	—	—
362233 2009 JX ₁	16.5	X	163.14399	170.18332	137.71768	11.77466	0.2485110	0.23061411	2.6335736	20	—	—
362234 2009 JM ₅	16.6	X	102.17795	118.89865	205.79382	7.45271	0.0456745	0.22527498	2.6750223	20	—	—
362235 2009 JN ₇	16.9	X	138.33615	244.66310	67.25766	3.77705	0.1006650	0.22945079	2.6424677	20	—	—
362236 2009												

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362241 2009 KO ₇	16.9	X	235.42505	164.14473	78.61159	13.95726	0.2244757	0.23736834	2.5833754	20	—	—
362242 2009 KB ₈	16.4	X	196.90928	131.34544	145.85352	11.68040	0.1750508	0.23260288	2.6185407	20	—	—
362243 2009 KF ₉	17.2	X	215.08875	222.36782	97.37667	1.88302	0.2745939	0.24454872	2.5325563	20	2 15.2	21.7
362244 2009 KZ ₁₀	16.8	X	263.43818	37.84760	120.47604	13.73780	0.0957453	0.22716706	2.6601480	20	—	—
362245 2009 KD ₁₅	16.9	X	222.00328	172.85556	77.97443	6.06874	0.1817188	0.23473119	2.6026884	20	—	—
362246 2009 KY ₁₆	17.5	X	256.09745	42.80690	169.49062	3.96178	0.1321358	0.23800844	2.5787415	20	—	—
362247 2009 KO ₁₇	16.5	X	312.85658	73.57817	66.39088	12.69241	0.0628877	0.23592204	2.5939228	20	—	—
362248 2009 KV ₂₃	17.3	X	288.34331	12.03408	166.91400	6.84068	0.1991150	0.24035635	2.5619205	20	—	—
362249 2009 KJ ₂₄	16.5	X	345.03961	240.74268	199.44881	21.45820	0.0471529	0.22631015	2.6668589	20	—	—
362250 2009 KN ₂₄	16.8	X	166.15396	132.55450	137.24223	12.32637	0.1695705	0.22600162	2.6692855	20	—	—
362251 2009 KJ ₂₆	16.7	X	252.26280	153.86858	81.79982	8.08167	0.1012241	0.23988393	2.5652830	20	—	—
362252 2009 LV ₇	16.1	X	115.18322	220.74066	68.07707	14.12611	0.1875005	0.21572334	2.7534126	20	12 26.2	20.8
362253 2009 LW ₅	16.3	X	186.18270	274.77024	68.10487	6.76560	0.3046926	0.24146022	2.5541064	20	2 25.5	21.0
362254 2009 LG ₅	16.4	X	103.66976	198.27368	128.17176	12.14820	0.2006702	0.21150842	2.7898720	20	—	—
362255 2009 LF ₆	16.3	X	185.28368	175.66853	111.31371	14.94776	0.2322560	0.22551855	2.6730959	20	—	—
362256 2009 MT ₁	17.1	X	177.63776	11.91077	232.32358	8.38188	0.1432168	0.22467185	2.6798076	20	12 30.3	21.3
362257 2009 MX ₉	16.0	X	16.45756	175.80218	138.65892	10.05241	0.1821810	0.18478428	3.0527603	20	9 29.4	19.8
362258 2009 NT ₁	16.3	X	221.31468	136.46616	223.18998	10.41469	0.2535080	0.24585562	2.5235735	20	4 4.8	20.7
362259 2009 NV ₁	15.8	X	196.83077	66.32689	11.66664	10.10880	0.0651875	0.17706285	3.1408781	20	6 29.6	20.7
362260 2009 OE ₃	16.7	X	190.84278	151.31353	128.22495	13.99262	0.2514507	0.22555915	2.6727751	20	—	—
362261 2009 OG ₄	15.6	X	0.12570	66.59776	227.64900	10.49856	0.0607899	0.17638595	3.1489086	20	7 25.6	19.9
362262 2009 ON ₅	16.9	X	156.61171	106.18136	177.23749	9.23320	0.2391915	0.21655892	2.7463254	20	—	—
362263 2009 OZ ₁₀	15.8	X	13.50961	29.63731	274.79836	8.16438	0.1463087	0.18212673	3.0823853	20	9 4.8	19.7
362264 2009 OP ₂₅	16.3	X	18.10850	98.27365	206.73807	9.41208	0.0958655	0.18334165	3.0687532	20	9 9.4	20.2
362265 2009 PT ₄	15.3	X	30.09133	288.77944	320.65795	11.27163	0.0380874	0.16935793	3.2354326	20	7 13.2	19.7
362266 2009 PN ₅	15.3	X	38.46122	8.19270	265.58697	13.03592	0.0228573	0.17929839	3.1147160	20	8 16.2	19.9
362267 2009 PO ₅	15.7	X	341.59447	90.60117	237.33552	9.74576	0.1074220	0.17775920	3.1326701	20	8 9.9	19.7
362268 2009 PT ₁₂	15.7	X	15.90819	321.88710	342.78988	8.79457	0.2178012	0.17936335	3.1139639	20	9 20.8	19.1
362269 2009 PV ₁₈	16.1	X	346.44891	320.70826	13.66884	4.81797	0.1353855	0.17683887	3.1435296	20	9 1.9	19.7
362270 2009 PH ₁₉	15.9	X	17.34965	119.92590	180.13516	9.44309	0.0841612	0.17467832	3.1693975	20	8 31.6	20.0
362271 2009 PY ₂₀	15.9	X	53.18952	112.67296	169.59778	9.59426	0.1043335	0.18212313	3.0824259	20	10 4.7	20.1
362272 2009 QC ₅	16.8	X	90.89072	302.85438	342.43508	6.52357	0.2832962	0.19909983	2.9046164	20	12 5.3	21.9
362273 2009 QZ ₁₂	15.9	X	6.49339	150.45919	179.53880	5.49799	0.1684545	0.18212599	3.0823937	20	10 4.6	19.4
362274 2009 QE ₂₄	15.9	X	333.98601	164.77742	167.60775	15.86634	0.1593443	0.17385063	3.1794491	20	8 2.0	19.7
362275 2009 QJ ₃₄	15.9	X	318.83601	345.10346	337.92964	7.29849	0.1146521	0.16986686	3.2289671	20	6 30.7	20.0
362276 2009 QJ ₃₉	16.3	X	23.92384	145.64162	174.06346	13.56137	0.1662799	0.18302725	3.0722664	20	10 21.9	20.2
362277 2009 QY ₅₀	15.7	X	325.84514	348.08342	353.80162	9.57724	0.0829097	0.17460411	3.1702955	20	8 11.3	19.8
362278 2009 QG ₅₄	15.4	X	323.05327	292.11241	57.83727	9.99513	0.1054448	0.17427868	3.1742408	20	8 17.4	19.5
362279 2009 RK ₉	15.6	X	46.65948	272.21892	7.53923	9.01184	0.0712729	0.17495788	3.1660204	20	9 17.0	20.0
362280 2009 RB ₁₅	15.8	X	48.82640	95.81973	190.12774	16.04619	0.2225329	0.18066818	3.0989526	20	10 20.5	20.0
362281 2009 RV ₂₁	15.8	X	95.82515	351.63593	198.00870	10.18075	0.1635177	0.17392527	3.1785393	20	8 3.2	20.8
362282 2009 RM ₂₆	15.1	X	11.27330	261.39417	23.01177	16.20242	0.4348042	0.17856442	3.1232453	20	9 26.7	17.8
362283 2009 RK ₂₇	15.4	X	340.45034	334.41982	7.03429	9.48514	0.2149152	0.17430679	3.1738996	20	8 31.6	18.6
362284 2009 SL ₆	16.4	X	46.07742	51.64878	212.91724	8.62820	0.1338923	0.17763455	3.1341354	20	9 1.8	20.7
362285 2009 SO ₈	15.1	X	316.14841	322.74411	29.18656	14.98761	0.1658936	0.17290682	3.1910086	20	8 3.8	19.2
362286 2009 SO ₁₂	16.0	X	355.14294	132.89574	181.16768	16.76164	0.2275396	0.17531377	3.1617343	20	8 19.9	19.3
362287 2009 SS ₇₈	15.5	X	72.45342	307.05763	313.25921	6.79802	0.1556766	0.17988428	3.1079492	20	10 2.8	20.1
362288 2009 SE ₉₉	15.3	X	232.19934	155.63750	188.02512	9.31681	0.0460195	0.14599771	3.5719498	20	4 16.4	20.5
362289 2009 SG ₁₁₅	16.0	X	33.32937	96.29200	208.98178	8.83001	0.0599903	0.17823201	3.1271274	20	9 27.4	20.4
362290 2009 SR ₁₇₈	16.2	X	84.19637	160.80275	51.80354	5.44990	0.1192380	0.17180195	3.2046750	20	8 18.3	20.9
362291 2009 SR ₂₂₅	16.1	X	64.18118	291.99970	240.89019	6.09919	0.0735747	0.15505978	3.4313889	20	5 25.0	20.7
362292 2009 SY ₂₂₉	15.9	X	312.80342	183.49965	197.07749	9.04828	0.1047823	0.17554869	3.1589129	20	9 4.0	20.0
362293 2009 SV ₂₃₈	15.0	X	349.00230	284.21456	41.16940	19.35565	0.1671302	0.17206029	3.2014664	20	9 4.6	19.0
362294 2009 SZ ₂₄₁	15.9	X	34.06252	220.54975	84.99327	7.67057	0.1244293	0.18036425	3.1024330	20	10 13.4	20.0
362295 2009 SJ ₂₄₇	15.5	X	69.83173	252.52540	30.33461	20.28596	0.2948505	0.18597204	3.0397482	20	11 11.9	20.5
362296 2009 SB ₂₆₃	15.8	X	68.32909	194.88868	88.89292	3.62734	0.1729961	0.18507951	3.0495130	20	11 3.0	20.3
362297 2009 SK ₂₆₃	15.4	X	343.96606	314.71820	25.50332	13.37314	0.0471944	0.17335145	3.1855497	20	9 9.1	19.8
362298 2009 SJ ₂₇₃	16.1	X	24.57499	236.38121	63.83668	1.24843	0.1505240	0.17685608	3.1433257	20	9 22.2	19.9
362299 2009 SV ₂₇₇	16.0	X	22.96338	122.00098	181.36978	16.10964	0.3194053	0.18072951	3.0982515	20	10 22.3	19.6
362300 2009 SU ₂₉₀	15.7	X	65.14090	221.07812	47.28282	14.19682	0.1969201	0.17719026	3.1393722	20	10 16.6	20.4
362301 2009 SU ₃₀₄	15.7	X	279.79099	31.22034	359.58886	7.83295	0.0125006	0.17161125	3.2070487	20	8 17.4	20.2
362302 2009 SY ₃₀₄	16.8	X	93.54229	285.84879	20.21992	1.44659	0.1455785	0.19789378	2.9164058	20	12 22.5	21.4
362303 2009 SQ ₃₁₂	16.8	X	19.17850	269.05124	37.42899	1.86155	0.2001829	0.18010267	3.1054362	20	9 29.1	20.2
362304 2009 SB ₃₂₈	16.3	X	49.10273	76.83640	231.91237	1.38607	0.2127425	0.18359988	3.0658751	20	11 15.4	20.7
362305 2009 SE ₃₄₉	16.7	X	39.68667	206.98773	97.58824	1.08840	0.2942808	0.18110192	3.0940026	20	11 10.4	20.8
362306 2009 TD ₄	15.2	X	44.77832	30.62403	248.34093	15.24857	0.1953260	0.17667629	3.1454579	20	9 24.1	19.7
362307 2009 TU ₂₁	15.9	X	47.05323	249.63630	55.21546	2.55074	0.1565990	0.18183772	3.0856505	20	10 31.3	20.0
362308 2009 TQ ₃₁	15.1	X	349.91313	296.26646	35.64065	26.75384	0.2472994	0.17345902	3.1842326	20	9 23.6	18.7
362309 2009 TF ₃₂	15.6	X	9.99426	298.30954	44.20637	12.95479	0.1183563	0.18045843	3.1013535	20	10 22.7	19.4
362310 2009 UM ₃	18.0	X	302.19178	128.77888	162.40623	12.73596	0.7865987	0.25883385	2.4384957	20	1 30.8	23.3
362311 2009 UN ₇₁	17.6	X	98.47522	138.76950	229.91417	20.44331	0.0336263	0.38847634	1.8602001	20	—	—
362312 2009 UE ₈₆	15.9	X	26.75383	278.62671	12.27342	5.71120	0.2148503	0.18009285	3.1055491	20	9 23.5	19.5
362313 2009 UL ₁₀₇	16.1	X	33.85075	243.56140	74.44088	6.04589	0.2922259	0.17953427	3.1119872	20	11 19.2	20.1
362314 2009 UH ₁₃₄	14.6	X	270.58566	33.97330								

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
362321	2010	<i>BC</i> ₁₂₅	12.9	X	325.70410	232.12809	173.99281	26.97806	0.0744933	0.08249355	5.2262404	20	10 14.8	19.6
362322	2010	<i>CS</i> ₁₄₀	17.7	X	245.08507	101.70464	144.38958	20.93002	0.0526601	0.38072561	1.8853616	20	—	—
362323	2010	<i>FM</i> ₈₇	18.2	X	51.77509	8.21313	218.18744	4.70240	0.1398660	0.31045175	2.1600973	20	8 5.7	20.5
362324	2010	<i>GO</i> ₁₀₈	17.6	X	354.50954	234.29535	44.84583	8.10635	0.1379007	0.30369749	2.1920069	20	7 11.6	19.3
362325	2010	<i>HA</i> ₂₉	17.7	X	338.31492	214.71459	95.89911	4.06426	0.1973192	0.29436221	2.2381096	20	7 25.8	18.8
362326	2010	<i>HW</i> ₃₀	16.5	X	142.90783	243.65744	127.24845	10.55206	0.1567156	0.25478658	2.4642514	20	2 10.8	20.1
362327	2010	<i>HR</i> ₇₈	17.8	X	13.56590	90.35494	146.80509	2.59351	0.0945850	0.29927976	2.2135253	20	6 6.9	19.7
362328	2010	<i>JB</i> ₇₄	18.0	X	39.25231	223.92166	56.78723	5.84000	0.1049593	0.31624738	2.1336250	20	10 8.1	20.2
362329	2010	<i>JD</i> ₇₇	18.4	X	32.77200	187.70454	51.96248	7.03463	0.1184686	0.30535342	2.1840749	20	7 24.5	20.5
362330	2010	<i>JJ</i> ₈₄	18.5	X	36.19038	126.04331	163.05160	4.76438	0.2088145	0.31384970	2.1444779	20	10 31.8	20.9
362331	2010	<i>JQ</i> ₁₅₁	18.1	X	357.66443	45.25029	229.18229	1.32599	0.1746018	0.30293843	2.1956670	20	7 10.8	19.1
362332	2010	<i>KW</i> ₃₄	16.2	X	166.05055	149.83841	209.76839	15.54624	0.1258654	0.25462730	2.4652790	20	2 12.0	20.2
362333	2010	<i>KG</i> ₃₈	18.0	X	260.12232	211.25595	143.35340	6.30338	0.1115782	0.29535981	2.2330671	20	5 22.4	20.8
362334	2010	<i>KY</i> ₄₉	16.7	X	88.35838	162.57364	164.67655	11.21896	0.1990299	0.22487733	2.6781749	20	—	—
362335	2010	<i>KZ</i> ₁₂₀	16.9	X	259.81083	124.45862	173.51558	10.73860	0.2591563	0.26711606	2.3878262	20	2 19.6	21.0
362336	2010	<i>LN</i> ₁₈	16.1	X	312.66256	223.72279	272.39406	10.67568	0.0694171	0.23145293	2.6272068	20	—	—
362337	2010	<i>LO</i> ₃₇	17.2	X	13.62049	200.47251	176.93666	4.25264	0.0814644	0.21428856	2.7656893	20	12 13.4	20.8
362338	2010	<i>LW</i> ₄₀	15.7	X	211.24245	151.66611	272.09899	9.66791	0.1404193	0.17807884	3.1289203	20	6 22.1	20.5
362339	2010	<i>LS</i> ₅₀	16.5	X	105.09646	332.31332	349.35299	11.83926	0.1662860	0.22669557	2.6638353	20	—	—
362340	2010	<i>LV</i> ₆₃	17.6	X	345.84892	72.42263	204.54908	3.64759	0.2217598	0.28912357	2.2650635	20	6 9.7	18.8
362341	2010	<i>LK</i> ₉₅	16.8	X	100.42589	136.71353	173.53471	5.60257	0.0494817	0.22122653	2.7075589	20	—	—
362342	2010	<i>LM</i> ₈₅	17.2	X	17.23389	354.35067	26.32410	4.35293	0.0799803	0.21531144	2.7569231	20	12 22.1	20.8
362343	2010	<i>LC</i> ₁₃₅	16.0	X	68.25809	36.38058	298.59494	13.20410	0.1144852	0.21719468	2.7409636	20	—	—
362344	2010	<i>MB</i> ₁₀	17.4	X	285.97873	189.80798	131.25363	6.71653	0.2613465	0.27705094	2.3303955	20	4 18.1	20.6
362345	2010	<i>MD</i> ₃₄	17.0	X	58.91112	7.28279	330.52896	4.12162	0.0835059	0.21474361	2.7617808	20	12 21.5	20.9
362346	2010	<i>MW</i> ₃₇	16.9	X	69.96428	290.38299	61.98029	7.06954	0.1584616	0.22103246	2.7091435	20	—	—
362347	2010	<i>ME</i> ₄₆	16.8	X	159.10388	110.94455	185.09004	11.31854	0.2057050	0.23525186	2.5988468	20	—	—
362348	2010	<i>MO</i> ₆₃	15.8	X	238.75880	199.86101	186.54366	15.82584	0.0790326	0.17499704	3.1655480	20	6 10.8	20.7
362349	2010	<i>MZ</i> ₆₅	17.0	X	150.13354	131.11383	181.45759	10.40590	0.1221852	0.23430378	2.6058527	20	—	—
362350	2010	<i>MD</i> ₆₈	16.0	X	280.52277	250.88975	159.15323	17.62280	0.1458350	0.19076558	2.9886108	20	8 22.9	19.9
362351	2010	<i>MR</i> ₇₂	16.7	X	351.07324	4.96009	28.41445	3.56705	0.0621342	0.20866538	2.8151559	20	11 27.4	20.1
362352	2010	<i>MW</i> ₇₃	17.9	X	298.61195	229.85513	89.67601	4.45695	0.3201144	0.28003196	2.3138275	20	4 21.6	20.7
362353	2010	<i>ML</i> ₈₉	16.8	X	52.60253	283.84871	99.25768	7.21984	0.1616973	0.22161368	2.7044046	20	—	—
362354	2010	<i>MB</i> ₉₀	16.7	X	22.89660	112.48853	253.45536	3.35160	0.0837123	0.21011552	2.8021882	20	12 10.4	20.3
362355	2010	<i>ME</i> ₉₄	16.4	X	200.69677	280.16502	336.18330	10.77188	0.1590954	0.23469207	2.6029776	20	—	—
362356	2010	<i>MN</i> ₉₇	16.3	X	120.28607	338.44691	15.00698	6.94731	0.3300092	0.23452249	2.6042323	20	1 21.0	20.3
362357	2010	<i>MK</i> ₁₀₉	17.8	X	257.01187	147.88189	157.92703	5.12067	0.2387364	0.26446278	2.4037705	20	3 1.1	21.8
362358	2010	<i>NO</i> ₄	16.8	X	335.11395	171.05648	323.65800	5.99826	0.1144521	0.28620118	2.2804564	20	5 29.2	19.1
362359	2010	<i>NQ</i> ₅	17.4	X	289.76600	164.45123	111.99701	7.56180	0.0974578	0.27288386	2.3540598	20	3 18.1	20.4
362360	2010	<i>NW</i> ₅	17.4	X	216.43103	98.20844	205.87455	0.86668	0.1897140	0.26116988	2.4239333	20	1 27.3	21.4
362361	2010	<i>NY</i> ₅	17.5	X	228.99391	25.84890	263.73755	2.02848	0.1697466	0.26020075	2.4299482	20	1 20.9	21.5
362362	2010	<i>NW</i> ₁₁	15.9	X	258.52709	227.74333	154.77608	13.25321	0.0577174	0.17781004	3.1320730	20	7 1.8	20.5
362363	2010	<i>NX</i> ₁₃	16.6	X	41.62114	325.01839	38.83841	5.92982	0.0971816	0.21406345	2.7676279	20	—	—
362364	2010	<i>NP</i> ₁₉	15.8	X	203.39044	56.80794	14.86275	9.73640	0.1039470	0.17348186	3.1839531	20	6 26.3	20.9
362365	2010	<i>NL</i> ₂₄	16.3	X	246.43966	257.91686	211.56374	10.52546	0.0586101	0.19835018	2.9119304	20	10 6.9	20.5
362366	2010	<i>NP</i> ₂₄	16.4	X	270.16657	266.36708	99.03304	2.20473	0.1583206	0.17666179	3.1456299	20	6 10.2	20.7
362367	2010	<i>NH</i> ₂₈	16.3	X	220.32556	7.08757	194.55107	7.62386	0.0649547	0.21906279	2.7253585	20	—	—
362368	2010	<i>ND</i> ₃₉	16.0	X	101.07227	197.55705	126.14055	16.40025	0.2002655	0.22241139	2.6979343	20	—	—
362369	2010	<i>NC</i> ₄₅	16.2	X	207.19971	246.79505	260.56080	15.02686	0.0635785	0.18141256	3.0904696	20	7 26.1	21.1
362370	2010	<i>ND</i> ₄₈	16.4	X	114.41218	168.17379	179.00449	7.72711	0.1935388	0.23069408	2.6329650	20	—	—
362371	2010	<i>NE</i> ₄₈	16.1	X	260.29526	32.68884	356.10310	7.89337	0.1044379	0.17840646	3.1250885	20	7 6.8	20.7
362372	2010	<i>NG</i> ₅₀	16.0	X	241.44773	242.77793	178.36661	15.12931	0.0341694	0.18273362	3.0755567	20	7 31.0	20.6
362373	2010	<i>NW</i> ₅₅	16.3	X	113.54895	57.36818	122.47625	8.10183	0.0710342	0.21194292	2.7860577	20	12 9.5	20.4
362374	2010	<i>NS</i> ₅₇	15.7	X	256.69741	193.76638	179.57040	17.24332	0.1028615	0.17406077	3.1768895	20	6 12.5	20.6
362375	2010	<i>NK</i> ₆₁	16.8	X	119.37009	153.90310	151.01380	6.49021	0.1140417	0.22116865	2.7080313	20	—	—
362376	2010	<i>ND</i> ₆₆	17.5	X	4.02985	142.11374	137.64512	4.97113	0.1644397	0.29507497	2.2345040	20	8 4.3	19.0
362377	2010	<i>NT</i> ₇₁	15.8	X	248.69665	42.74974	12.22890	23.21929	0.1646382	0.17946630	3.1127730	20	7 25.7	20.9
362378	2010	<i>NQ</i> ₇₃	16.7	X	69.08857	108.07563	219.90873	4.35347	0.0634380	0.21094281	2.7948568	20	12 17.8	20.6
362379	2010	<i>NJ</i> ₇₆	16.0	X	296.47717	244.96362	116.06009	10.12896	0.1886883	0.18183078	3.0857290	20	7 5.4	19.9
362380	2010	<i>NV</i> ₇₉	15.3	X	202.12303	214.87482	221.34731	12.62312	0.1237698	0.17174278	3.2054111	20	6 27.8	20.5
362381	2010	<i>NA</i> ₁₀₃	16.6	X	68.13827	240.30628	104.33542	6.23030	0.0259042	0.21493612	2.7601315	20	—	—
362382	2010	<i>NY</i> ₁₀₅	16.4	X	99.75421	322.32885	15.61951	12.56633	0.1560784	0.22397637	2.6853521	20	—	—
362383	2010	<i>NV</i> ₁₀₆	16.5	X	295.04873	36.46019	340.21071	2.66381	0.1387101	0.18481742	3.0523953	20	8 1.7	20.3
362384	2010	<i>NM</i> ₁₁₃	17.1	X	81.93095	141.11009	203.86627	5.05773	0.0878298	0.21940122	2.7225551	20	—	—
362385	2010	<i>NW</i> ₁₁₃	15.7	X	65.49502	48.18057	253.45789	10.90956	0.0426696	0.20287453	2.8684747	20	11 4.9	19.8
362386	2010	<i>NY</i> ₁₁₃	16.3	X	222.59039	242.85882	1.56533	10.48332	0.2462184	0.23684335	2.5871915	20	—	—
362387	2010	<i>OL</i> ₉	16.2	X	252.40142	28.08459	34.11903	2.87674	0.1122627	0.18284080	3.0743547	20	8 7.9	20.7
362388	2010	<i>OH</i> ₂₄	17.2	X	161.36015	171.64195	155.43092	5.56716	0.2455613	0.23969067	2.5666617	20	1 14.1	21.4
362389	2010	<i>OW</i> ₃₄	17.2											

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362401 2010 <i>OL</i> ₁₁₀	15.9	X	90.59060	310.21676	59.96890	14.12619	0.2676480	0.22657518	2.6647788	20	—	—
362402 2010 <i>OG</i> ₁₁₄	15.3	X	112.28723	286.05742	237.57243	17.31606	0.0977684	0.16904563	3.2394162	20	7 10.9	20.4
362403 2010 <i>OK</i> ₁₂₄	15.7	X	220.04746	27.94435	42.83568	28.61998	0.1868632	0.17187971	3.2037083	20	7 4.8	21.3
362404 2010 <i>PL</i>	17.3	X	254.35780	165.37432	140.65870	1.76994	0.1915814	0.27170538	2.3608618	20	3 2.2	20.7
362405 2010 <i>PD</i> ₄	16.1	X	143.89460	283.60384	16.58164	7.16326	0.0464094	0.22033301	2.7148740	20	—	—
362406 2010 <i>PG</i> ₄	15.4	X	202.30961	15.49792	58.25041	23.10481	0.0771090	0.16968037	3.2313325	20	6 26.6	20.5
362407 2010 <i>PJ</i> ₄	15.6	X	211.95285	328.60369	109.01110	16.58672	0.0925250	0.17228857	3.1986378	20	7 13.0	20.4
362408 2010 <i>PY</i> ₉	17.3	X	349.43416	102.59635	176.74642	5.48557	0.1920107	0.28994477	2.2607847	20	6 26.1	18.8
362409 2010 <i>PO</i> ₁₀	16.9	X	6.38323	23.25170	242.20584	6.59557	0.2019070	0.29276887	2.2462235	20	7 17.3	18.4
362410 2010 <i>PJ</i> ₁₀	16.8	X	203.52315	104.42900	205.85174	5.68660	0.1673209	0.25521503	2.4614927	20	1 23.1	20.8
362411 2010 <i>PO</i> ₂₆	16.6	X	269.65500	196.25566	222.43950	5.28885	0.0857790	0.19908505	2.9047602	20	8 27.7	20.7
362412 2010 <i>PR</i> ₃₈	16.1	X	304.31221	158.25438	198.13831	14.72347	0.0520276	0.17811188	3.1285333	20	7 26.2	20.6
362413 2010 <i>PF</i> ₅₅	16.5	X	101.65968	272.20175	30.17286	4.38870	0.1908559	0.21270446	2.7794038	20	12 31.2	21.1
362414 2010 <i>PO</i> ₅₅	16.4	X	10.16670	342.03548	11.66743	11.74889	0.1271322	0.19754812	2.9198068	20	11 5.7	20.1
362415 2010 <i>PH</i> ₅₇	17.2	X	249.47786	138.08195	162.28739	5.01512	0.1955491	0.26615974	2.3935425	20	2 19.2	21.1
362416 2010 <i>PK</i> ₅₇	17.2	X	279.12653	96.14014	170.17821	1.37082	0.1646328	0.26774632	2.3840775	20	2 8.5	20.7
362417 2010 <i>PK</i> ₅₈	15.2	X	331.20231	352.86002	5.37585	12.09544	0.2313813	0.18816534	3.0160807	20	9 6.3	18.1
362418 2010 <i>PN</i> ₆₁	17.6	X	238.55077	89.52141	233.91734	0.24033	0.2071656	0.26585935	2.3953451	20	3 8.5	21.5
362419 2010 <i>PH</i> ₆₉	15.6	X	247.93687	144.06530	238.84372	9.75868	0.0561243	0.16835453	3.2482754	20	6 18.9	20.4
362420 2010 <i>PY</i> ₇₁	16.1	X	318.71097	181.68006	199.09755	11.21606	0.1244892	0.18845424	3.0129976	20	9 14.6	19.8
362421 2010 <i>PM</i> ₇₅	16.6	X	200.84385	214.65012	157.15841	9.80835	0.1623017	0.26509330	2.3999575	20	4 8.7	20.5
362422 2010 <i>PZ</i> ₇₈	17.1	X	220.17246	234.08669	108.35057	2.86932	0.1875138	0.26618427	2.3933954	20	3 18.4	21.0
362423 2010 <i>PB</i> ₇₉	17.5	X	232.39206	314.23076	346.51683	2.13723	0.2062680	0.26252464	2.4155869	20	2 5.7	21.4
362424 2010 <i>QB</i> ₁	17.4	X	226.21378	105.35065	208.21393	2.00461	0.2022928	0.26030026	2.4293289	20	2 15.2	21.4
362425 2010 <i>QO</i> ₃	17.6	X	235.30853	132.83489	183.38659	0.89028	0.1904625	0.26288337	2.4133889	20	2 26.9	21.5
362426 2010 <i>QC</i> ₄	18.0	X	261.09586	275.58005	23.86882	1.34096	0.1875889	0.26775152	2.3840466	20	3 1.3	21.7
362427 2010 <i>QX</i> ₅	17.6	X	245.06908	304.43908	24.15205	1.45699	0.1979614	0.26922796	2.3753227	20	3 21.6	21.4
362428 2010 <i>RM</i> ₁	17.2	X	57.78198	182.04342	170.90358	5.49220	0.1327158	0.22142276	2.7059590	20	—	—
362429 2010 <i>RU</i> ₄	17.5	X	282.62886	248.74311	39.84487	3.02755	0.2020000	0.27058580	2.3673695	20	3 8.8	20.8
362430 2010 <i>RU</i> ₁₀	15.8	X	338.54258	301.99766	349.57523	4.96758	0.0702675	0.17788456	3.1311981	20	6 23.2	20.0
362431 2010 <i>RQ</i> ₄₆	16.1	X	184.52488	288.17772	357.18269	12.33020	0.1430016	0.23547084	2.5972353	20	—	—
362432 2010 <i>RR</i> ₄₇	16.3	X	149.38307	172.76523	0.51401	11.04360	0.0377830	0.19066043	2.9897096	20	9 6.5	20.7
362433 2010 <i>RF</i> ₄₈	17.4	X	257.57927	124.38771	185.60706	2.11361	0.2237361	0.26580295	2.3956839	20	3 7.4	21.2
362434 2010 <i>RF</i> ₅₁	15.7	X	182.81385	110.90531	14.22889	9.93796	0.0469524	0.18397182	3.0617415	20	8 16.7	20.3
362435 2010 <i>RS</i> ₅₁	16.3	X	129.76522	239.71434	13.37978	17.22860	0.1055527	0.20976718	2.8052895	20	11 19.5	20.9
362436 2010 <i>RJ</i> ₅₂	15.8	X	321.29317	30.88803	324.11377	10.09469	0.0381457	0.19127857	2.9832650	20	8 23.0	19.7
362437 2010 <i>RK</i> ₅₂	17.2	X	221.75760	95.97068	240.05682	1.57825	0.1989052	0.26157642	2.4214211	20	3 9.6	21.2
362438 2010 <i>RV</i> ₅₈	18.1	X	274.76400	109.69775	198.18396	4.75320	0.2497020	0.22726116	2.3547657	20	3 17.4	21.6
362439 2010 <i>RW</i> ₆₁	17.7	X	286.04850	308.29921	357.71545	2.92735	0.2096487	0.27161311	2.3613964	20	4 1.9	20.6
362440 2010 <i>RJ</i> ₆₃	16.9	X	97.61202	143.77021	167.14956	5.53783	0.1173668	0.22244834	2.6976355	20	—	—
362441 2010 <i>RD</i> ₇₀	16.6	X	199.21747	2.43835	284.83215	4.45816	0.1796930	0.24125496	2.5555549	20	—	—
362442 2010 <i>RE</i> ₇₉	17.1	X	257.53518	319.77667	321.24238	4.46929	0.1626054	0.26065330	2.4271348	20	2 6.4	20.8
362443 2010 <i>RD</i> ₈₇	17.3	X	303.25758	37.32216	247.56313	1.96848	0.1563202	0.27171862	2.3607850	20	4 3.7	20.0
362444 2010 <i>RU</i> ₉₇	16.7	X	66.31774	84.40579	239.12012	5.57674	0.0420311	0.21092900	2.7949788	20	12 6.4	20.7
362445 2010 <i>RH</i> ₉₈	17.1	X	186.74435	19.25690	268.82766	3.28238	0.2425987	0.24099454	2.5573956	20	—	—
362446 2010 <i>RN</i> ₁₀₁	16.5	X	226.19823	41.84450	199.46229	12.84898	0.1260161	0.23369816	2.6103527	20	—	—
362447 2010 <i>RR</i> ₁₀₆	16.6	X	134.09625	263.83980	11.34336	8.15118	0.0614726	0.21519088	2.7579527	20	12 26.2	20.8
362448 2010 <i>RS</i> ₁₀₆	16.5	X	67.11462	305.79202	14.66657	1.76208	0.0663390	0.20890504	2.8130024	20	12 5.9	20.5
362449 2010 <i>RQ</i> ₁₀₇	16.1	X	248.71080	65.17935	17.54617	9.29026	0.0742545	0.18864017	3.0110174	20	9 6.7	20.4
362450 2010 <i>RW</i> ₁₀₇	16.6	X	335.26617	166.63461	191.80324	13.02515	0.0142450	0.19123789	2.9836881	20	9 15.6	20.8
362451 2010 <i>RJ</i> ₁₁₀	16.7	X	209.63090	321.57340	315.88688	3.38369	0.1310506	0.24402959	2.5361468	20	—	—
362452 2010 <i>RG</i> ₁₁₀	17.3	X	265.37432	295.52346	33.55341	1.68946	0.1959565	0.27137238	2.3627927	20	4 11.4	20.4
362453 2010 <i>RP</i> ₁₁₅	17.4	X	141.45294	116.01579	232.72583	2.85664	0.1579836	0.24153880	2.5535525	20	1 13.3	21.0
362454 2010 <i>RA</i> ₁₁₆	16.2	X	233.60763	280.57029	171.14158	10.27870	0.0188555	0.18864569	3.0109587	20	9 2.9	20.4
362455 2010 <i>RC</i> ₁₂₅	17.2	X	290.01703	151.55135	135.17909	2.13652	0.1742306	0.26863041	2.3788439	20	3 18.4	20.3
362456 2010 <i>RG</i> ₁₂₆	16.1	X	209.20520	270.83020	160.05593	9.80555	0.0877665	0.17546712	3.1598919	20	7 1.8	21.0
362457 2010 <i>RN</i> ₁₂₇	17.4	X	281.25939	202.59728	113.96812	2.17176	0.1991800	0.27296950	2.3535673	20	4 13.3	20.4
362458 2010 <i>RS</i> ₁₃₄	16.8	X	5.56807	191.10123	167.22553	2.27006	0.1064603	0.20448025	2.8534382	20	11 8.1	20.1
362459 2010 <i>RT</i> ₁₃₉	16.5	X	355.98037	207.12592	165.36262	6.26869	0.0813455	0.20659507	2.8339319	20	11 11.1	20.0
362460 2010 <i>RV</i> ₁₄₃	15.9	X	284.09388	126.78193	214.36091	8.46205	0.0824676	0.17463757	3.1698905	20	6 8.2	20.4
362461 2010 <i>RJ</i> ₁₄₄	15.8	X	162.96100	289.53889	197.87341	25.08580	0.2180174	0.17284118	3.1918164	20	7 20.6	21.7
362462 2010 <i>RO</i> ₁₄₆	16.7	X	60.23323	326.83390	8.13902	5.31274	0.0462924	0.21070048	2.7969994	20	12 13.1	20.7
362463 2010 <i>RP</i> ₁₄₇	17.3	X	135.74940	271.16180	23.32151	5.00544	0.0956348	0.22177887	2.7030616	20	—	—
362464 2010 <i>RP</i> ₁₅₀	17.1	X	229.79250	335.37674	281.40601	1.41826	0.1049715	0.24244220	2.5472051	20	—	—
362465 2010 <i>RB</i> ₁₅₁	17.1	X	151.19145	298.10534	352.01810	7.84466	0.1426719	0.23014756	2.6371316	20	—	—
362466 2010 <i>RG</i> ₁₅₄	15.9	X	229.53391	85.05051	343.97857	9.76757	0.0820425	0.17984485	3.1084035	20	7 25.7	20.6
362467 2010 <i>RO</i> ₁₅₅	16.8	X	82.75686	267.09216	63.19554	4.60465	0.1253785	0.21761386	2.7374425	20	—	—
362468 2010 <i>RM</i> ₁₆₁	16.0	X	354.79364	175.49815	185.38783	15.17178	0.1418665	0.20507380	2.8479296	20	10 30.4	19.3
362469 2010 <i>RA</i> ₁₆₅	16.6	X	139.63268	355.35811	301.90681	1.68690	0.1208104	0.22654522	2.6650137	20	—	—
362470 2010 <i>RN</i> ₁₆₆	15.7	X	326.58951	336.18457	343.72666	11.63107	0.0679317	0.18032983	3.1028278	20	7 15.7	19.9
362471 2010 <i>RQ</i> ₁₇₇	16.8	X	107.07804	172.87611	122.88206	4.28033	0.0767557	0.21378315	2.7700466	20	12 22.4	20.9

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362481 2010 SN ₂₈	16.5	X	35.55418	69.73579	206.20413	8.17787	0.0761525	0.18731265	3.0252271	20	8 25.9	20.6
362482 2010 SX ₃₂	16.4	X	102.00317	116.32488	147.50463	7.14769	0.0123930	0.20413406	2.8566634	20	11 3.1	20.4
362483 2010 SE ₃₄	16.9	X	334.98218	270.30395	9.92083	6.76044	0.2835370	0.27905573	2.3192208	20	5 1.4	18.3
362484 2010 SF ₃₄	16.0	X	99.75518	336.08083	28.80732	33.39396	0.1922769	0.23203531	2.6228090	20	—	—
362485 2010 SX ₃₈	16.2	X	209.12373	269.53631	2.83332	14.91346	0.0819501	0.23825093	2.5769914	20	—	—
362486 2010 SZ ₄₁	16.1	X	270.31119	255.54877	110.21932	10.69000	0.0728137	0.17288366	3.1912935	20	6 23.3	20.6
362487 2010 TD ₁	16.5	X	146.57456	100.03961	20.34424	4.46630	0.1128033	0.17060764	3.2196135	20	6 29.2	21.6
362488 2010 TH ₁₀	16.8	X	96.57087	113.26539	189.87243	3.93259	0.0848456	0.21532331	2.7568217	20	12 21.1	20.9
362489 2010 TD ₁₃	16.1	X	344.57150	348.37065	358.08471	10.22014	0.0963433	0.19287743	2.9667557	20	9 16.3	19.7
362490 2010 TK ₁₆	16.0	X	8.42475	291.10506	346.70260	9.78940	0.0749564	0.17980255	3.1088909	20	7 23.5	20.0
362491 2010 TS ₁₆	17.0	X	90.84483	37.40499	318.58691	5.18607	0.0423137	0.22407864	2.6845350	20	—	—
362492 2010 TS ₁₇	15.3	X	290.57636	322.05123	80.03913	29.10105	0.1677066	0.17721498	3.1390803	20	9 5.4	20.0
362493 2010 TM ₂₅	15.6	X	279.11827	62.10192	356.48912	10.76393	0.0998423	0.19021545	2.9943704	20	9 9.9	19.4
362494 2010 TM ₂₅	17.0	X	52.99971	55.45617	275.26803	2.70572	0.0986433	0.21172227	2.7879931	20	12 6.9	21.0
362495 2010 TZ ₂₇	17.0	X	91.51293	38.45290	264.34711	3.15523	0.0559132	0.21318414	2.7752330	20	12 12.3	21.0
362496 2010 TH ₂₈	16.5	X	125.28458	12.09492	229.72328	4.72891	0.0230112	0.20441098	2.8540828	20	11 1.8	20.5
362497 2010 TE ₂₉	16.3	X	196.82835	258.01337	202.04431	8.55600	0.0671071	0.18033964	3.1027152	20	7 24.4	21.1
362498 2010 TP ₃₃	16.7	X	161.95245	29.28340	190.67963	10.50061	0.0570424	0.20497990	2.8487994	20	11 18.8	21.0
362499 2010 TK ₃₄	17.4	X	165.78462	281.25028	33.24434	9.75738	0.2115244	0.23808570	2.5781836	20	1 1.9	21.7
362500 2010 TT ₃₉	16.6	X	229.48037	105.70253	347.78610	7.30259	0.1182891	0.18550440	3.0448547	20	8 20.7	21.1
362501 2010 TP ₅₀	16.2	X	5.91570	353.87793	37.69694	10.72637	0.1144120	0.21068549	2.7971320	20	12 23.1	19.8
362502 2010 TX ₅₉	16.9	X	105.74462	335.62451	8.95669	13.35779	0.2919820	0.23203994	2.6227741	20	—	—
362503 2010 TL ₆₆	16.8	X	155.66190	1.24280	234.25512	4.42297	0.1125793	0.21540352	2.7561374	20	11 29.8	21.0
362504 2010 TA ₇₄	16.5	X	198.28233	279.62181	197.28296	10.56210	0.0816886	0.18380173	3.0636301	20	8 14.7	21.3
362505 2010 TM ₇₅	16.7	X	44.04376	269.91477	27.76776	8.09807	0.0325691	0.19532283	2.9419416	20	10 4.2	20.7
362506 2010 TQ ₇₇	17.0	X	49.34809	282.00903	31.85000	4.49984	0.0736172	0.20190119	2.8776864	20	11 5.6	21.0
362507 2010 TA ₇₉	15.6	X	1.90990	89.51719	205.95353	11.39082	0.0858219	0.18102404	3.0946848	20	7 31.3	19.7
362508 2010 TW ₇₉	17.3	X	199.00043	110.45629	167.75812	3.43593	0.1207450	0.23559098	2.5963522	20	—	—
362509 2010 TV ₈₁	16.2	X	319.67648	349.80964	8.16846	9.97032	0.1089644	0.18627313	3.0364718	20	8 23.3	20.0
362510 2010 TH ₈₄	16.4	X	170.25570	72.35195	27.42706	5.49490	0.1046337	0.17162866	3.2068318	20	6 27.3	21.5
362511 2010 TP ₈₄	17.5	X	268.47746	230.93371	44.23365	2.58309	0.1719950	0.25861852	2.4398491	20	2 10.2	21.2
362512 2010 TU ₈₄	17.2	X	115.33163	173.66165	118.56303	1.70286	0.0479276	0.21591173	2.7518107	20	12 26.0	21.2
362513 2010 TY ₈₄	16.9	X	49.25622	288.82366	52.21140	2.64253	0.0800117	0.21074494	2.7966060	20	12 12.3	20.7
362514 2010 TH ₈₅	16.5	X	34.01692	337.45131	27.50076	6.21122	0.0493306	0.21302894	2.7765808	20	12 19.1	20.3
362515 2010 TQ ₈₆	15.9	X	210.65178	56.55743	29.97363	10.88058	0.0566389	0.18066827	3.0989516	20	7 29.8	20.7
362516 2010 TB ₈₈	16.9	X	75.54580	97.02694	182.72897	5.92667	0.0282196	0.20013462	2.8945957	20	10 21.1	20.8
362517 2010 TR ₉₀	16.8	X	289.65762	300.44570	109.98884	1.95472	0.0138465	0.19475261	2.9476813	20	9 25.5	20.8
362518 2010 TT ₉₄	16.2	X	235.14844	55.45363	19.40798	10.44052	0.1232601	0.18251453	3.0780175	20	8 5.4	20.9
362519 2010 TO ₁₀₄	16.3	X	201.16942	134.03652	103.84790	3.59103	0.0284999	0.22504404	2.6768521	20	—	—
362520 2010 TP ₁₀₄	15.3	X	243.95067	9.18198	29.84276	19.96686	0.1033429	0.17032310	3.2231982	20	6 28.6	20.4
362521 2010 TQ ₁₁₂	16.4	X	111.25722	187.76466	347.51767	2.11811	0.0853792	0.17583316	3.1555050	20	7 27.9	21.1
362522 2010 TT ₁₁₂	17.1	X	38.02932	25.56081	258.85632	1.47471	0.0654094	0.18986297	2.9980753	20	9 10.4	21.0
362523 2010 TN ₁₁₆	16.4	X	93.80406	281.82537	29.96922	6.84861	0.0576555	0.21264285	2.7799406	20	12 25.8	20.6
362524 2010 TL ₁₄₀	15.6	X	2.46067	50.25272	240.89967	9.04849	0.0753155	0.17869422	3.1217327	20	7 26.3	19.8
362525 2010 TT ₁₅₁	16.4	X	106.91981	57.95177	97.30625	2.44827	0.0916107	0.17046901	3.2213587	20	6 27.7	21.2
362526 2010 TO ₁₅₃	16.6	X	259.58197	54.77313	359.45414	2.32313	0.0281708	0.18365326	3.0652810	20	8 18.4	20.9
362527 2010 TY ₁₅₈	16.7	X	330.41050	264.31469	108.64755	3.10352	0.1125510	0.19449944	2.9502386	20	9 29.8	20.1
362528 2010 TA ₁₈₈	16.9	X	55.66104	157.16239	180.57569	7.39829	0.0685594	0.20967067	2.8061503	20	12 14.7	20.9
362529 2010 UW ₅	16.1	X	284.31631	24.87410	354.61323	10.14618	0.0598814	0.18021430	3.1041537	20	8 3.9	20.4
362530 2010 UY ₉	15.7	X	258.70173	357.35501	38.71263	9.24119	0.0806590	0.17513306	3.1639088	20	7 17.9	20.3
362531 2010 UP ₁₀	15.7	X	145.39025	276.52605	216.91268	15.04679	0.0560960	0.16913278	3.2383033	20	7 7.7	20.8
362532 2010 UT ₁₃	15.5	X	67.16057	207.62422	37.99580	23.45800	0.0668106	0.18044334	3.1015263	20	9 4.5	20.3
362533 2010 UY ₁₇	16.1	X	302.24552	150.61085	214.76086	7.55366	0.0392105	0.18080238	3.0974190	20	8 6.7	20.5
362534 2010 UW ₁₈	15.9	X	72.50352	279.88972	58.51373	14.56226	0.2077479	0.21026446	2.8008647	20	—	—
362535 2010 UC ₂₀	17.0	X	163.44231	83.06400	225.87177	2.17180	0.1136456	0.23147905	2.6270092	20	—	—
362536 2010 UW ₂₃	15.3	X	79.68181	86.85762	43.00805	10.72689	0.0356715	0.15078711	3.4959073	20	4 18.3	20.2
362537 2010 UR ₃₂	16.3	X	73.70054	238.03006	6.52026	10.14834	0.0455107	0.18361414	3.0657163	20	9 5.9	20.6
362538 2010 UY ₃₄	15.9	X	264.35808	68.41761	8.29707	10.07929	0.0929008	0.18777425	3.0202671	20	9 14.8	20.0
362539 2010 UV ₄₀	16.3	X	10.22347	333.56132	2.97142	2.09993	0.0997179	0.19159849	2.9799432	20	10 12.9	20.0
362540 2010 UR ₄₃	17.3	X	194.54695	177.77485	113.15200	2.42162	0.1597290	0.23685804	2.5870846	20	—	—
362541 2010 UU ₄₃	16.6	X	114.16187	177.85861	75.99344	3.79069	0.0532605	0.19951239	2.9006108	20	11 5.9	20.9
362542 2010 UG ₄₄	16.0	X	259.69379	214.61318	193.07467	10.61209	0.1181393	0.17898542	3.1183459	20	7 24.5	20.6
362543 2010 UM ₄₄	15.9	X	209.31448	94.86935	3.27037	9.63460	0.0443517	0.17793875	3.1305624	20	8 12.5	20.5
362544 2010 UV ₅₂	15.9	X	13.41175	297.77773	13.86164	9.46255	0.0825102	0.18604414	3.0389629	20	9 15.2	19.8
362545 2010 UK ₅₄	16.0	X	312.25974	320.53741	34.77629	16.13292	0.1026158	0.18003807	3.1061790	20	8 11.3	20.3
362546 2010 UW ₅₉	15.6	X	45.82783	47.86233	249.55193	8.65789	0.0817341	0.18504047	3.0499419	20	10 6.6	19.9
362547 2010 UZ ₅₉	16.8	X	185.27258	277.96504	54.80931	12.47087	0.3044262	0.24343280	2.5402901	20	2 15.2	21.6
362548 2010 UK ₆₀	15.7	X	345.44373	77.36916	250.25017	9.26084	0.1189321	0.17662723	3.1460403	20	8 15.7	19.7
362549 2010 UD ₆₄	16.5	X	232.49099	234.21540	244.26665	6.84969	0.0261441	0.18952514	3.0016369	20	10 2.6	20.8
362550 2010 UJ ₆₆	16.4	X	85.69474	109.64141	229.88938	4.76778	0.1166967	0.21482382	2.7610934	20	—	—
362551 2010 UX ₇₁	16.1	X	216.37183	59.73355	8.33250	10.73598	0.0541539	0.17388055	3.1790843	20	7 11.4	20.9
362552 2010 UU ₉₃	16.0	X	346.12397	298.19466	14.27105	10.77786	0.0541303	0.17545015	3.1600956	20	8 5.6	20.3
362553 2010 UH ₁₀₀	15.6	X	341.99755	341.18168	2.68719	11.76776	0.0913310	0.18704130	3.0281522	20	9 9.4	19.3
362554 2010 VZ ₁	16.3	X	216.674									

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362561 2010 VJ ₅₃	16.7	X	55.56525	239.38760	94.44159	3.29434	0.0703465	0.20292497	2.8679994	20	12 8.2	20.5
362562 2010 VQ ₆₀	15.8	X	19.28366	349.09455	280.93958	10.49510	0.0527657	0.17521033	3.1629785	20	7 23.3	20.0
362563 2010 VG ₆₉	16.6	X	124.11412	336.93861	6.85463	4.90624	0.3096738	0.23117291	2.6293279	20	1 10.1	20.6
362564 2010 VZ ₆₉	16.1	X	12.44405	272.73205	40.82753	10.19410	0.1056212	0.18560358	3.0437699	20	9 20.9	20.0
362565 2010 VX ₇₀	15.5	X	208.03812	29.97545	68.11499	20.88717	0.1080699	0.17642253	3.1484734	20	8 7.7	20.7
362566 2010 VK ₇₂	15.7	X	273.88532	331.72123	48.50709	10.01759	0.0820560	0.17474011	3.1686503	20	7 16.5	20.2
362567 2010 VS ₇₇	16.2	X	344.29627	304.77455	51.77386	10.99253	0.1124584	0.18998164	2.9968266	20	10 3.8	19.9
362568 2010 VP ₇₈	15.7	X	257.65251	19.80051	17.81806	10.43720	0.1038710	0.17664545	3.1458239	20	7 15.9	20.4
362569 2010 VK ₈₅	15.4	X	102.70090	128.74055	64.73377	23.10916	0.1258957	0.16665341	3.2703426	20	8 22.9	20.8
362570 2010 VW ₈₆	17.3	X	152.86233	284.54001	20.54561	4.86809	0.1399124	0.23175317	2.6249373	20	—	—
362571 2010 VL ₈₈	15.8	X	26.56589	246.70493	39.85983	5.54176	0.1062939	0.17813919	3.1282136	20	9 3.9	19.8
362572 2010 VQ ₉₀	15.3	X	93.13606	333.19245	259.51702	10.15707	0.1054903	0.17600888	3.1534043	20	9 13.4	20.2
362573 2010 VL ₁₀₂	15.4	X	9.49181	56.17016	237.53973	13.83541	0.0795907	0.17486539	3.1671367	20	8 6.5	19.8
362574 2010 VH ₁₀₃	15.6	X	152.99726	128.69848	67.98832	11.03574	0.0559566	0.18457479	3.0550697	20	10 11.9	20.3
362575 2010 VP ₁₀₅	17.4	X	179.39680	101.28249	212.32745	8.28794	0.2729185	0.23811464	2.5779747	20	1 12.9	22.0
362576 2010 VT ₁₁₅	15.9	X	7.85677	304.36558	15.87360	9.88057	0.1029244	0.18531146	3.0469677	20	9 19.7	19.6
362577 2010 VH ₁₁₆	16.3	X	267.79383	129.02179	277.27995	5.95668	0.0931604	0.17823841	3.1270526	20	8 6.5	20.7
362578 2010 VX ₁₁₆	15.8	X	307.26040	301.71856	27.76281	7.78639	0.1478346	0.17101322	3.2145209	20	6 15.1	20.0
362579 2010 VO ₁₂₀	15.7	X	224.18412	25.98243	74.60553	10.38701	0.0908905	0.17697680	3.1418961	20	8 29.3	20.5
362580 2010 VS ₁₂₀	15.8	X	113.11321	220.66736	71.75381	16.20120	0.1299070	0.20467460	2.8516316	20	12 24.3	20.4
362581 2010 VW ₁₃₁	16.9	X	131.46143	211.69211	120.83107	5.70509	0.2577937	0.23089205	2.6314598	20	—	—
362582 2010 VJ ₁₃₈	15.6	X	28.18974	27.75335	276.38152	9.86618	0.1001053	0.18892621	3.0079775	20	9 21.7	19.7
362583 2010 VE ₁₆₃	16.4	X	302.57079	284.11828	57.34313	2.08882	0.1749949	0.17598383	3.1537036	20	6 20.5	20.2
362584 2010 VK ₁₆₈	15.7	X	337.06505	235.19855	104.66857	11.91897	0.0597784	0.17964462	3.1107127	20	8 27.9	19.9
362585 2010 VO ₁₇₃	15.5	X	114.20945	139.06496	67.01105	10.62009	0.0431256	0.17452005	3.1713134	20	9 8.4	20.3
362586 2010 VZ ₁₇₃	15.8	X	343.57597	276.70270	60.26957	11.63386	0.1149164	0.18220322	3.0815226	20	9 6.3	19.7
362587 2010 VO ₁₇₄	15.7	X	194.34957	151.15582	23.13407	10.20143	0.0322229	0.19234658	2.9722117	20	10 27.2	20.1
362588 2010 VN ₁₇₅	16.2	X	193.42913	54.88347	225.33430	12.88127	0.2445821	0.22869639	2.6482756	20	—	—
362589 2010 VX ₁₈₁	15.8	X	78.04372	169.42330	71.77815	8.14440	0.1386161	0.17562230	3.1580302	20	9 20.9	20.5
362590 2010 VN ₁₈₂	16.1	X	26.80444	286.04341	76.87652	15.83930	0.1649205	0.20274018	2.8697418	20	12 20.9	19.8
362591 2010 VT ₁₉₄	15.9	X	50.99019	262.10041	346.76309	9.03780	0.0581764	0.17396104	3.1781037	20	8 13.2	20.2
362592 2010 VA ₂₀₅	15.8	X	263.00740	207.37555	214.51730	8.85237	0.0420195	0.18119401	3.0929542	20	8 26.4	20.3
362593 2010 VJ ₂₀₅	17.3	X	91.13889	39.61417	297.92203	1.83066	0.0818722	0.21604623	2.7506685	20	—	—
362594 2010 VS ₂₀₇	16.3	X	357.00123	66.35408	289.09649	4.82312	0.1035741	0.19448800	2.9503544	20	10 16.0	20.0
362595 2010 VA ₂₁₁	15.3	X	93.27012	340.53203	246.77318	14.97988	0.1273900	0.17983365	3.1085324	20	9 8.1	20.2
362596 2010 VC ₂₁₇	16.2	X	19.92938	40.12572	310.67802	9.01422	0.0547396	0.20186235	2.8780555	20	11 8.0	20.2
362597 2010 WG ₇	16.2	X	187.51154	242.64356	71.65350	15.79707	0.1961091	0.23455350	2.6040028	20	1 20.5	20.7
362598 2010 WM ₂₁	15.7	X	72.26537	199.02404	64.79614	14.82972	0.0819756	0.18210313	3.0826516	20	10 8.2	20.3
362599 2010 WE ₃₅	15.8	X	195.93791	48.30673	76.06295	11.36328	0.0637241	0.17540179	3.1606764	20	8 30.1	20.7
362600 2010 WG ₄₇	15.4	X	43.50031	199.64146	71.77089	10.11690	0.0703411	0.17446763	3.1719486	20	9 5.9	19.8
362601 2010 WS ₅₃	16.4	X	177.54846	243.47107	60.01947	14.04091	0.1983660	0.22804975	2.6532794	20	—	—
362602 2010 WX ₅₅	15.6	X	334.35245	283.05577	47.05252	10.29500	0.1649568	0.17680860	3.1438885	20	8 5.9	19.3
362603 2010 WB ₆₂	15.7	X	1.70118	47.39441	259.40772	5.22811	0.0851172	0.17370282	3.1812525	20	8 15.5	19.8
362604 2010 WE ₆₈	15.6	X	352.30102	47.15792	269.29925	7.87388	0.0811105	0.17398435	3.1778198	20	8 12.7	19.7
362605 2010 XZ ₃₃	16.1	X	135.94870	246.02815	75.69338	10.49340	0.1484211	0.21986697	2.7187090	20	—	—
362606 2010 XP ₆₅	16.6	X	42.90972	156.67163	216.30408	5.28835	0.0217806	0.20992993	2.8038394	20	—	—
362607 2010 XG ₇₃	16.0	X	36.17409	128.23966	188.81068	6.16065	0.1314884	0.19173594	2.9785189	20	10 31.3	19.9
362608 2010 XU ₇₉	14.7	X	132.32126	256.84887	109.24559	12.03439	0.1228665	0.12603988	3.9397082	20	2 6.3	20.6
362609 2011 BL ₂	15.4	X	357.84672	259.40552	87.37186	11.23533	0.1094472	0.17811661	3.1284779	20	10 11.7	19.4
362610 2011 LW	16.9	X	244.50199	330.68695	253.35142	19.25633	0.0466951	0.38035509	1.8865858	20	—	—
362611 2011 QL ₁₇	17.8	X	54.27782	170.53976	247.52777	2.10168	0.2043655	0.25834562	2.4415670	20	—	—
362612 2011 QQ ₅₁	17.5	X	335.82182	213.81231	207.24165	20.63052	0.0882634	0.35148069	1.9885434	20	—	—
362613 2011 QA ₉₈	17.6	X	192.57306	315.95587	94.75125	6.39295	0.1899483	0.29876732	2.2160556	20	5 18.8	21.1
362614 2011 RW ₁₂	17.9	X	91.33933	118.07352	334.69232	2.87135	0.1789095	0.27990394	2.3145330	20	3 29.0	20.6
362615 2011 RY ₁₇	17.0	X	286.56280	239.08929	200.99655	10.97528	0.1639711	0.22220874	2.6995743	20	10 15.7	20.1
362616 2011 RP ₁₉	15.4	X	38.27358	195.53935	356.58163	11.04707	0.0581246	0.18543510	3.0456132	20	5 7.1	19.6
362617 2011 SL ₁₆	17.1	X	191.63317	0.36737	17.91679	6.81645	0.1136220	0.28945528	2.2633327	20	4 4.2	20.2
362618 2011 SD ₃₂	17.4	X	167.20085	32.55472	34.17697	7.44787	0.0749689	0.29066908	2.2570274	20	5 10.2	20.5
362619 2011 SP ₃₅	17.3	X	330.91113	49.21531	32.63847	6.44744	0.2356604	0.23160663	2.6260444	20	—	—
362620 2011 SG ₃₈	17.4	X	112.36357	279.76133	141.40587	3.11499	0.1374708	0.27221771	2.3578986	20	3 6.9	20.3
362621 2011 SY ₅₁	17.5	X	155.05905	9.54720	4.47869	4.45826	0.1675708	0.27400914	2.3476104	20	2 26.6	20.9
362622 2011 SB ₆₇	16.9	X	88.22617	223.94918	196.85959	10.44059	0.2434021	0.26343310	2.4100302	20	2 15.9	19.7
362623 2011 SG ₆₈	17.7	X	343.13717	352.14592	157.89768	23.02173	0.0278678	0.38453224	1.8728984	20	—	—
362624 2011 SO ₉₇	17.5	X	98.76541	273.47264	178.21333	4.79148	0.1971077	0.27683840	2.3315881	20	4 8.7	20.4
362625 2011 ST ₁₀₄	17.1	X	299.32075	71.56399	346.22970	8.44296	0.2257151	0.21511692	2.7585847	20	9 24.8	20.0
362626 2011 SZ ₁₁₅	17.4	X	151.25039	219.46468	189.94244	9.13957	0.1719521	0.28628100	2.2800325	20	4 7.0	20.7
362627 2011 ST ₁₂₂	17.4	X	90.79536	223.60616	189.43924	6.78824	0.1687295	0.26552519	2.3973543	20	1 28.6	20.2
362628 2011 SO												

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
362641	2011	<i>SJ</i> ₁₈₄	17.5	X	82.17756	80.66524	67.54728	4.75618	0.0585032	0.28918281	2.2647542	20	5 12.7	19.9
362642	2011	<i>SN</i> ₁₈₅	17.2	X	145.03536	347.48469	57.75944	7.41744	0.1017119	0.27786609	2.3258356	20	3 23.3	20.4
362643	2011	<i>SZ</i> ₁₈₅	17.3	X	35.16745	230.92400	247.28650	2.24457	0.1256136	0.26560391	2.3968807	20	1 18.3	19.5
362644	2011	<i>SA</i> ₂₀₂	17.7	X	158.17105	223.08438	207.09045	5.64130	0.1334194	0.29447148	2.2375559	20	5 9.1	20.9
362645	2011	<i>SL</i> ₂₁₄	17.2	X	153.58247	16.79892	13.26089	6.85834	0.1008657	0.27762081	2.3272053	20	3 10.9	20.4
362646	2011	<i>SY</i> ₂₁₈	16.4	X	316.77596	323.66075	99.43629	9.07337	0.1884664	0.22409506	2.6844039	20	11 20.6	18.9
362647	2011	<i>SG</i> ₂₁₉	16.2	X	277.03727	264.46878	214.73508	12.14145	0.2282173	0.22351954	2.6890098	20	11 13.5	19.1
362648	2011	<i>SB</i> ₂₂₂	16.9	X	34.34261	36.86716	346.81775	10.39835	0.1307427	0.23259110	2.6186291	20	—	—
362649	2011	<i>SV</i> ₂₂₂	15.7	X	186.31780	228.86134	206.58279	18.47330	0.2000695	0.17807958	3.1289116	20	6 11.5	21.2
362650	2011	<i>SN</i> ₂₃₀	17.5	X	123.39473	196.07168	205.05380	2.14194	0.2206235	0.27281238	2.3544709	20	3 3.4	20.7
362651	2011	<i>SA</i> ₂₃₂	17.7	X	223.04194	74.28107	200.04842	23.01919	0.1285687	0.38338947	1.8766182	20	—	—
362652	2011	<i>SR</i> ₂₄₅	17.1	X	65.34357	224.94277	187.36398	9.16036	0.1723871	0.25611757	2.4557066	20	—	—
362653	2011	<i>SF</i> ₂₇₂	17.2	X	345.67044	282.91127	141.30782	6.98360	0.2712007	0.23277751	2.6172309	20	—	—
362654	2011	<i>SM</i> ₂₇₅	16.2	X	45.68005	281.79593	11.17137	26.50124	0.0335747	0.21359480	2.7716747	20	10 2.7	19.8
362655	2011	<i>SD</i> ₂₇₆	17.7	X	106.20607	43.35685	6.60341	2.81234	0.1650566	0.27271155	2.3550512	20	2 16.9	20.5
362656	2011	<i>TC</i> ₂	16.4	X	55.78904	192.00464	197.76984	6.29750	0.2452693	0.24240459	2.5474685	20	—	—
362657	2011	<i>TL</i> ₉	17.5	X	22.10894	140.07291	284.63860	3.28214	0.1204915	0.24610308	2.5218815	20	—	—
362658	2011	<i>UN</i>	17.1	X	280.20346	34.90317	62.64343	17.29604	0.2581342	0.21814269	2.7330167	20	10 20.7	20.4
362659	2011	<i>UR</i> ₅	16.8	X	31.19190	359.35068	42.74416	13.80219	0.2048600	0.23917176	2.5703728	20	—	—
362660	2011	<i>UK</i> ₆	17.6	X	23.00113	334.80341	221.74042	7.69647	0.1457353	0.28177793	2.3042596	20	4 22.6	19.3
362661	2011	<i>UP</i> ₇	17.4	X	292.51169	74.16204	44.51014	3.68013	0.0651169	0.22934768	2.6432595	20	12 28.8	20.5
362662	2011	<i>UK</i> ₈	16.0	X	143.87289	82.59433	49.84796	10.33562	0.2278421	0.17855040	3.1234089	20	7 18.4	21.5
362663	2011	<i>UO</i> ₉	17.9	X	344.16776	42.24807	47.16586	2.71479	0.1227055	0.23548786	2.5971101	20	—	—
362664	2011	<i>UY</i> ₉	17.7	X	54.06373	61.80354	53.43885	4.82327	0.0793623	0.26646131	2.3917362	20	2 17.4	20.3
362665	2011	<i>UW</i> ₁₀	17.4	X	25.21999	284.14486	204.09048	6.67091	0.1780079	0.27025369	2.3693086	20	1 8.4	19.4
362666	2011	<i>UR</i> ₁₂	18.0	X	228.75314	163.59331	212.14582	2.45859	0.0409468	0.29650264	2.2273254	20	5 18.6	20.7
362667	2011	<i>UG</i> ₂₂	16.7	X	312.51955	188.72343	304.92383	4.77809	0.1646814	0.24137867	2.5546817	20	—	—
362668	2011	<i>UT</i> ₂₃	17.2	X	105.41962	228.49942	233.61759	5.93279	0.0430304	0.28241771	2.3007782	20	4 4.9	20.0
362669	2011	<i>UL</i> ₃₈	17.7	X	53.50370	279.81276	184.12349	2.98754	0.0879314	0.26184633	2.4197568	20	1 29.6	20.3
362670	2011	<i>UM</i> ₄₇	17.4	X	112.44672	49.32919	28.09899	7.24921	0.0778142	0.27563463	2.3383716	20	3 21.4	20.3
362671	2011	<i>UT</i> ₄₇	17.0	X	357.09736	336.59034	237.75875	5.12536	0.0634040	0.28348958	2.2949751	20	3 30.3	19.6
362672	2011	<i>UG</i> ₅₂	18.0	X	81.05738	277.37202	173.38472	3.34320	0.0608018	0.26881485	2.3777556	20	2 19.4	20.8
362673	2011	<i>UJ</i> ₅₂	17.8	X	116.47709	255.22822	154.61632	2.69783	0.2192274	0.26814230	2.3817298	20	3 8.4	21.0
362674	2011	<i>UE</i> ₅₃	17.0	X	268.24936	342.98807	173.65471	5.41456	0.1667524	0.22899280	2.6459898	20	12 29.7	20.0
362675	2011	<i>UO</i> ₆₁	17.0	X	7.28480	208.57926	22.32481	8.57328	0.0789366	0.23573996	2.5952582	20	—	—
362676	2011	<i>UL</i> ₆₅	16.7	X	301.01150	71.45253	32.41783	14.57371	0.0967032	0.22534945	2.6744329	20	12 17.6	20.0
362677	2011	<i>UT</i> ₇₅	17.2	X	296.33866	184.18803	325.23379	4.14697	0.1994975	0.23698240	2.5861794	20	—	—
362678	2011	<i>UH</i> ₈₂	16.7	X	318.19831	56.44291	31.36034	12.09453	0.1637542	0.22534768	2.6744470	20	12 27.2	19.6
362679	2011	<i>UT</i> ₈₄	17.3	X	194.34033	322.04733	24.48266	7.01160	0.1203523	0.27428365	2.3460438	20	2 29.8	20.9
362680	2011	<i>UW</i> ₈₆	15.5	X	181.21891	213.70699	239.41057	15.86174	0.2677154	0.17767479	3.1336622	20	6 26.7	21.2
362681	2011	<i>UV</i> ₈₇	16.9	X	241.70102	293.31736	215.06007	3.10979	0.0826927	0.21739785	2.7392556	20	11 20.8	20.5
362682	2011	<i>UW</i> ₉₀	16.1	X	17.17539	253.23005	251.09647	21.44346	0.0724744	0.27091073	2.3654762	20	1 17.7	19.2
362683	2011	<i>UD</i> ₉₃	17.6	X	350.32942	317.37708	217.60053	5.91654	0.0696500	0.27151692	2.3619541	20	1 24.0	20.3
362684	2011	<i>UP</i> ₉₉	17.1	X	99.55901	49.06216	27.78550	6.78770	0.0926577	0.27026213	2.3692593	20	3 6.4	19.9
362685	2011	<i>US</i> ₁₀₁	17.6	X	142.54732	210.12977	186.86541	5.85801	0.1140191	0.27251382	2.3561903	20	3 6.5	20.8
362686	2011	<i>UO</i> ₁₁₂	17.0	X	6.52106	305.74326	220.53985	9.98916	0.1024275	0.26600612	2.3944639	20	2 2.5	19.7
362687	2011	<i>UN</i> ₁₂₂	17.5	X	1.52771	278.74232	207.38378	8.31756	0.1588475	0.25451280	2.4660183	20	—	—
362688	2011	<i>UJ</i> ₁₂₈	16.3	X	359.86210	222.18170	191.78275	15.62424	0.1669790	0.23016424	2.6370041	20	—	—
362689	2011	<i>UY</i> ₁₂₈	17.1	X	323.36342	276.13604	216.38350	14.19300	0.0713298	0.24156909	2.5533390	20	—	—
362690	2011	<i>UC</i> ₁₃₂	17.8	X	326.90982	50.97594	237.59200	4.60475	0.1264019	0.30107413	2.2047216	20	5 25.5	19.5
362691	2011	<i>UZ</i> ₁₃₅	17.3	X	327.68926	264.41258	209.84831	7.96844	0.1172548	0.23960652	2.5672626	20	—	—
362692	2011	<i>UJ</i> ₁₃₆	17.4	X	155.82783	39.13621	22.97572	7.35584	0.0940511	0.28391911	2.2926599	20	4 21.9	20.4
362693	2011	<i>UF</i> ₁₃₇	17.2	X	340.46932	21.05224	244.56403	5.79104	0.0869621	0.29023636	2.2592702	20	5 18.9	19.4
362694	2011	<i>UW</i> ₁₃₈	17.4	X	68.66045	203.92558	225.55333	6.58981	0.0764378	0.25892028	2.4379531	20	1 5.5	20.2
362695	2011	<i>UW</i> ₁₄₆	16.6	X	204.48411	149.55069	58.06546	12.30898	0.1006888	0.22385380	2.6863323	20	12 17.8	20.5
362696	2011	<i>UO</i> ₁₅₁	17.2	X	164.23150	230.16572	178.34891	6.99750	0.1042032	0.28234834	2.3011551	20	4 16.0	20.4
362697	2011	<i>UJ</i> ₁₅₂	17.5	X	0.70327	218.58795	62.26533	5.08680	0.1464528	0.30372333	2.1918826	20	7 30.8	19.1
362698	2011	<i>UF</i> ₁₅₆	15.9	X	146.42302	48.39264	68.33759	15.28190	0.1597944	0.17537725	3.1609712	20	6 26.1	21.1
362699	2011	<i>UA</i> ₁₅₇	17.1	X	315.94234	208.79976	61.39763	7.99886	0.0886423	0.28663740	2.2781421	20	4 16.3	19.6
362700	2011	<i>UF</i> ₁₅₈	17.6	X	127.86111	336.43711	105.10838	6.23144	0.1313237	0.28127057	2.3070297	20	4 23.4	20.8
362701	2011	<i>UH</i> ₁₆₁	15.7	X	350.70768	328.81798	56.21583	26.94708	0.1524518	0.21762920	2.7373139	20	11 25.2	18.8
362702	2011	<i>UP</i> ₁₆₃	17.7	X	350.23677	326.78099	2.50935	2.05620	0.0527326	0.31700287	2.1302337	20	9 21.1	19.5
362703	2011	<i>UA</i> ₁₆₆	17.5	X	345.51667	180.73298	268.41904	1.30723	0.0505219	0.23441311	2.6050424	20	—	—
362704	2011	<i>UN</i> ₁₇₆	17.0	X	294.18690	230.94455	276.09198	3.39985	0.1422738	0.23555301	2.5966313	20	—	—
362705	2011	<i>UB</i> ₁₈₀	16.0	X	196.55591	36.59558	56.03279	11.51334	0.1351028	0.18462114	3.0545584	20	7 15.3	21.0
362706	2011	<i>UX</i> ₁₈₃	16.1	X	260.94250	278.41182	251.35791	10.79179	0.0254447	0.23180932	2.6245134	20	—	—
362707	2011	<i>UJ</i> ₁₈₆	17.9	X	274.68367	266.45467	85.68885	4.83977	0.1962570	0.30687481	2.1768503	20	5 23.9	20.4
362708	2011	<i>UM</i> ₁₉₁	16.8	X	141.16132	237.42652	210.33831	23.88006	0.1615245	0.29059321	2.2574202	20	5 16.9	20.3
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Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
362721 2011 UT ₂₄₇	16.6 ^m	X	319.12869	78.28594	53.92726	22.43010	0.1079216	0.23783659	2.5799836	20	—	—
362722 2011 UN ₂₅₀	16.8	X	266.64282	322.20955	222.29118	7.16458	0.1967982	0.23308214	2.6149500	20	—	—
362723 2011 UR ₂₅₀	17.6	X	26.54710	17.88748	116.38810	3.55586	0.1211572	0.25897016	2.4376400	20	1 28.1	19.9
362724 2011 UU ₂₅₀	17.2	X	303.80680	49.61855	68.86109	13.03963	0.1204086	0.22799419	2.6537104	20	—	—
362725 2011 UW ₂₅₀	16.4	X	210.51352	227.02894	211.03150	6.49739	0.1054689	0.18643678	3.0346945	20	7 10.5	21.1
362726 2011 UD ₂₅₄	16.8	X	271.04565	49.36528	51.88568	17.83038	0.1793238	0.21597228	2.7512964	20	10 21.5	20.3
362727 2011 UH ₂₆₆	16.8	X	359.69751	343.04828	62.44876	6.22442	0.0503690	0.22561601	2.6723260	20	12 29.1	20.2
362728 2011 UX ₂₆₆	17.9	X	146.90323	241.96421	62.61472	22.17802	0.0766199	0.36373026	1.9436427	20	—	—
362729 2011 UR ₂₇₆	17.4	X	151.80549	26.64996	11.00787	6.90667	0.1147657	0.27460241	2.3442278	20	3 19.7	20.7
362730 2011 UX ₂₇₆	16.9	X	289.06385	212.27417	285.38856	6.18108	0.0593970	0.23147283	2.6270562	20	—	—
362731 2011 UW ₂₈₂	16.9	X	296.28498	55.75700	209.18046	7.47681	0.0905549	0.28037523	2.3119386	20	3 4.9	19.8
362732 2011 UB ₂₈₄	16.4	X	32.84450	41.03009	317.50711	5.54276	0.0402124	0.22355443	2.6887301	20	12 10.9	20.0
362733 2011 UL ₂₉₄	17.1	X	282.25408	71.89035	84.38455	4.98862	0.0779648	0.23433087	2.6056518	20	—	—
362734 2011 US ₂₉₄	17.7	X	155.58957	23.85795	8.52905	6.80622	0.1126739	0.27599657	2.3363268	20	3 16.6	20.9
362735 2011 UF ₂₉₉	17.6	X	123.04064	52.76237	81.58727	2.85177	0.0588006	0.29326418	2.2436927	20	6 19.1	20.4
362736 2011 UY ₂₉₉	17.5	X	314.37743	268.74835	189.23221	2.22632	0.0591590	0.22766428	2.6562735	20	—	—
362737 2011 UJ ₃₀₃	17.9	X	7.45947	54.89388	2.46877	3.25511	0.1413630	0.23742753	2.5829461	20	—	—
362738 2011 UM ₃₀₅	16.8	X	53.76561	22.73012	339.19061	8.48062	0.1758763	0.23888684	2.5724162	20	—	—
362739 2011 UO ₃₀₇	16.8	X	5.51515	150.12220	310.63584	6.41144	0.1303381	0.24445761	2.5331856	20	—	—
362740 2011 UE ₃₁₀	17.2	X	325.29786	209.56311	238.55445	1.06344	0.1767109	0.23039370	2.6352530	20	—	—
362741 2011 UD ₃₁₄	17.1	X	249.63144	317.14050	212.11576	12.08737	0.1051903	0.23097046	2.6308641	20	12 26.7	20.7
362742 2011 UM ₃₁₅	16.7	X	263.19487	34.95276	68.29282	9.99377	0.1226726	0.21345550	2.7728805	20	10 19.5	20.4
362743 2011 UB ₃₁₇	18.1	X	97.40941	89.37962	355.09849	1.12124	0.1533994	0.26888707	2.3773298	20	3 20.7	21.0
362744 2011 UO ₃₂₅	17.4	X	216.14645	315.93804	71.47404	6.76616	0.0783358	0.29198970	2.2502168	20	5 16.1	20.3
362745 2011 UP ₃₂₅	17.2	X	136.25441	216.40387	204.47764	5.90166	0.0889068	0.27549278	2.3391742	20	3 27.8	20.3
362746 2011 UF ₃₃₄	17.7	X	100.01520	302.77724	171.99248	5.18642	0.0741014	0.28366073	2.2940519	20	4 23.8	20.4
362747 2011 UJ ₃₃₅	17.4	X	90.74857	30.77843	33.68384	6.03870	0.1961769	0.26679745	2.3897269	20	2 22.8	20.1
362748 2011 UX ₃₃₅	16.4	X	239.56661	124.14402	27.63590	22.55840	0.0222018	0.23271278	2.6177162	20	11 28.0	20.2
362749 2011 UP ₃₃₉	17.7	X	102.75899	329.28458	125.93358	4.32143	0.1263644	0.28236876	2.3010441	20	4 8.9	20.5
362750 2011 UJ ₃₆₁	17.3	X	101.97843	44.13547	53.15337	7.05607	0.0595910	0.27383620	2.3485987	20	4 1.7	20.2
362751 2011 UU ₃₈₃	17.5	X	197.16449	85.30704	287.30909	6.04958	0.1187145	0.28424637	2.2908998	20	3 30.2	21.1
362752 2011 UB ₃₉₆	15.5	X	148.09969	283.20074	191.27553	24.93992	0.2923999	0.17569550	3.1571529	20	6 28.8	21.6
362753 2011 UT ₄₀₄	17.1	X	48.25743	41.61778	39.43746	7.12752	0.0969836	0.25966921	2.4332631	20	—	—
362754 2011 UX ₄₀₄	16.5	X	226.61955	305.27286	177.48329	8.41626	0.1608370	0.21135003	2.7912656	20	9 19.7	20.5
362755 2011 VE	17.1	X	349.58969	221.58146	203.29331	4.12510	0.1703965	0.23013930	2.6371947	20	—	—
362756 2011 VS ₁₀	16.8	X	145.82585	168.47657	241.44068	6.36923	0.1053595	0.27396558	2.3478592	20	3 24.4	20.1
362757 2011 VQ ₂₂	16.8	X	46.70061	31.20140	359.90065	11.88677	0.1958562	0.24071862	2.5593495	20	—	—
362758 2011 WR ₆	17.7	X	13.71040	358.69840	243.79297	5.19357	0.1126066	0.29562590	2.2317270	20	6 16.8	19.6
362759 2011 WB ₁₃	15.4	X	160.86009	26.99561	62.29223	27.54742	0.1440411	0.17412206	3.1761440	20	6 3.5	20.6
362760 2011 WP ₁₅	15.3	X	115.31230	55.48880	68.62002	12.51937	0.0502254	0.17538896	3.1608305	20	5 24.8	19.8
362761 2011 WL ₂₇	17.2	X	176.09020	229.24479	154.08034	6.35866	0.1372848	0.27720286	2.3295440	20	3 28.6	20.7
362762 2011 WB ₃₀	16.2	X	181.02826	96.46390	350.28648	6.45377	0.2227858	0.17748611	3.1358827	20	6 21.1	21.6
362763 2011 WD ₃₇	16.6	X	289.93828	98.21315	53.69675	27.92614	0.1259248	0.23608919	2.5926983	20	—	—
362764 2011 WM ₃₈	16.7	X	351.45432	172.08280	239.92272	3.28835	0.0574528	0.22490322	2.6779693	20	12 26.4	20.1
362765 2011 WY ₄₁	16.3	X	287.17801	116.04096	93.72148	10.10824	0.0756777	0.25536295	2.4605421	20	—	—
362766 2011 WB ₄₄	17.3	X	21.51688	20.85603	35.46168	4.80004	0.2376469	0.23457835	2.6038188	20	—	—
362767 2011 WA ₅₇	17.8	X	15.86034	12.01120	139.64253	1.96335	0.1309718	0.26000281	2.4311814	20	2 1.3	19.8
362768 2011 WA ₆₂	17.0	X	306.29985	262.52127	228.10190	3.94236	0.1394887	0.23054958	2.6340650	20	—	—
362769 2011 WE ₇₇	16.9	X	111.08944	194.19859	260.09250	5.60402	0.1007750	0.27638547	2.3341347	20	4 10.6	20.0
362770 2011 WD ₈₃	17.6	X	75.30787	343.48981	195.32533	2.09429	0.0941629	0.28918517	2.2647418	20	6 22.7	20.1
362771 2011 WU ₈₃	17.1	X	353.00567	253.36879	712.42538	5.10248	0.0858722	0.23982099	2.5657318	20	—	—
362772 2011 WO ₉₀	16.9	X	292.40611	0.21972	214.01918	5.95122	0.1397939	0.21114494	2.7930728	20	10 20.6	20.1
362773 2011 WE ₉₉	16.7	X	342.98471	148.57578	240.30925	3.28353	0.0793158	0.21470142	2.7621426	20	11 12.7	20.0
362774 2011 WS ₁₀₀	17.1	X	299.41224	76.04354	89.12423	3.91301	0.0713639	0.24028071	2.5624581	20	—	—
362775 2011 WT ₁₀₀	17.1	X	195.41625	135.73418	236.99847	4.05364	0.1618515	0.28120893	2.3073668	20	3 30.8	20.8
362776 2011 WT ₁₀₄	17.1	X	336.31552	91.19717	31.55013	14.45700	0.0916243	0.24146055	2.5541041	20	—	—
362777 2011 WK ₁₀₅	16.3	X	216.45193	170.06023	280.27483	4.25987	0.0905781	0.19134748	2.9825488	20	8 3.3	20.7
362778 2011 WY ₁₀₅	16.1	X	125.61674	155.23578	9.74433	18.87870	0.0302434	0.17450782	3.1714615	20	8 2.2	21.0
362779 2011 WZ ₁₀₆	17.9	X	35.77045	200.49764	38.56312	4.26520	0.0757028	0.29959067	2.2119936	20	7 20.5	20.1
362780 2011 WB ₁₀₇	16.7	X	71.28838	256.64865	158.15467	0.76705	0.1485947	0.24636632	2.5200848	20	1 1.4	19.4
362781 2011 WK ₁₁₃	16.7	X	314.59131	60.43903	23.76243	9.31947	0.1590831	0.21936993	2.7228141	20	12 11.2	19.6
362782 2011 WE ₁₁₄	16.1	X	328.27518	234.96872	189.91455	28.11635	0.1603413	0.22219165	2.6997127	20	12 12.8	19.6
362783 2011 WN ₁₁₅	16.4	X	356.24934	78.23165	23.07107	13.69214	0.1157423	0.23929545	2.5694870	20	—	—
362784 2011 WF ₁₂₀	17.1	X	43.99028	168.56888	280.31653	4.88265	0.0975034	0.25155457	2.4853139	20	—	—
362785 2011 WJ ₁₂₁	16.2	X	235.48439	134.51614	341.19210	7.75568	0.1610729	0.20141507	2.8823147	20	9 18.1	20.3
362786 2011 WT ₁₂₆	17.2	X	10.14599	340.11109	224.05195	5.90918	0.1417027	0.28153118	2.3056058	20	4 5.4	19.1
362787 2011 WE ₁₂₉	17.4	X	348.48694	259.19323	174.06539	1.02129	0.0843027	0.22937358	2.6430606	20	—	—
362788 2011 WM ₁₃₂	17.6	X	301.02783	68.99593	227.42038	6.10315	0.1					

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
362801	2011	XG ₃	17.0	X	343.72133	2.09241	128.57725	8.95529	0.1203641	0.24068058	2.5596192	20	—	—
362802	2011	YY ₂	15.0	X	128.78062	245.99155	280.11294	20.32151	0.0411185	0.17728507	3.1382529	20	7 27.0	19.8
362803	2011	YF ₃	17.1	X	81.75780	250.51618	137.43946	6.16541	0.1564177	0.24693641	2.5162046	20	—	—
362804	2011	YR ₄	16.4	X	322.36025	92.79675	311.20162	5.26712	0.0838395	0.20632106	2.8364405	20	10 27.2	20.0
362805	2011	YZ ₄	15.6	X	140.84896	62.03316	73.79832	5.94279	0.1066092	0.17021281	3.2245903	20	7 12.2	20.5
362806	2011	YQ ₅	16.2	X	198.46940	316.22938	112.31296	5.72471	0.1147041	0.17297926	3.1901176	20	6 16.9	21.2
362807	2011	YJ ₁₂	17.0	X	209.07558	271.05665	159.52276	1.42037	0.1602165	0.17525148	3.1624834	20	6 27.1	22.1
362808	2011	YM ₁₂	16.2	X	323.08437	320.63653	116.45979	5.99141	0.0044409	0.21173997	2.7878377	20	12 14.1	20.0
362809	2011	YF ₁₈	15.9	X	231.96171	283.87963	113.20032	5.90827	0.1731037	0.17293171	3.1907023	20	6 7.5	21.0
362810	2011	YG ₂₇	15.9	X	194.85301	353.54801	89.24820	9.53319	0.0690709	0.17344824	3.1843646	20	7 2.4	20.6
362811	2011	YB ₃₄	16.2	X	195.74351	232.46535	315.35709	5.03382	0.0343948	0.20513564	2.8473573	20	11 16.3	20.4
362812	2011	YV ₃₇	15.8	X	102.10902	69.89114	146.29564	5.57676	0.0702830	0.17863516	3.1224207	20	9 5.4	20.4
362813	2011	YB ₄₆	16.8	X	77.50756	290.11099	74.49248	7.06326	0.0560929	0.22553121	2.6729958	20	—	—
362814	2011	YA ₄₇	16.3	X	1.14764	319.17879	91.85495	9.28009	0.0918478	0.21658936	2.7460681	20	—	—
362815	2011	YL ₅₀	16.3	X	62.40882	219.11640	146.05776	7.79531	0.3227089	0.23823880	2.5770790	20	—	—
362816	2011	YT ₅₇	16.4	X	134.48142	113.89719	52.75031	1.88412	0.1261398	0.17459699	3.1703817	20	8 14.4	21.3
362817	2011	YN ₇₀	16.7	X	3.29722	192.32123	230.89172	2.60327	0.0836339	0.23004911	2.6378839	20	—	—
362818	2011	YK ₇₃	15.5	X	142.82144	47.84135	100.81956	10.86777	0.0346053	0.17340098	3.1849432	20	7 26.5	20.1
362819	2011	YT ₇₃	15.3	X	103.00349	79.03242	110.51784	16.54924	0.0320821	0.17225413	3.1990642	20	7 29.6	19.9
362820	2011	YW ₇₄	16.2	X	148.00289	85.79839	68.52620	5.39587	0.0948782	0.17670033	3.1451725	20	8 12.7	21.0
362821	2011	YL ₇₇	16.2	X	9.31255	312.94351	33.73307	2.34100	0.0654481	0.19856950	2.9097858	20	10 23.0	19.9
362822	2011	YV ₇₇	17.4	X	142.13922	250.74331	175.56126	6.63269	0.0735405	0.27737291	2.3285917	20	4 11.7	20.4
362823	2011	YP ₇₈	16.1	X	201.36617	7.64369	88.39292	11.77362	0.0866699	0.17818421	3.1276866	20	7 26.6	20.9
362824	2011	YF ₇₉	16.3	X	10.85570	281.18799	102.17484	6.99688	0.0559336	0.20847896	2.8168338	20	12 12.4	20.0
362825	2012	AQ ₁	15.6	X	147.88276	77.93727	86.57642	8.43710	0.1103758	0.18088643	3.0964595	20	8 27.1	20.5
362826	2012	AR ₃	16.6	X	252.63108	207.42627	300.33137	2.76087	0.0852887	0.21021169	2.8013334	20	12 1.5	20.3
362827	2012	AA ₄	16.1	X	87.56375	197.43322	104.03889	7.46928	0.0908172	0.20902320	2.8119422	20	12 9.3	20.2
362828	2012	AS ₈	15.6	X	46.42751	142.97986	119.23782	17.66133	0.0751513	0.17669900	3.1451883	20	8 27.9	20.0
362829	2012	AS ₁₂	15.1	X	130.73151	178.90431	340.70278	16.33129	0.0593538	0.17255781	3.1953098	20	7 31.7	20.0
362830	2012	AZ ₁₃	16.2	X	193.55093	18.47275	121.22773	6.36566	0.1152199	0.18375028	3.0642018	20	9 9.9	20.9
362831	2012	AF ₁₇	15.1	X	145.68754	237.04207	297.94467	14.15276	0.0823157	0.17834918	3.1257576	20	8 27.8	20.1
362832	2012	AC ₁₉	16.1	X	310.01045	333.56212	125.17579	10.18527	0.1084136	0.21130108	2.7916967	20	12 22.6	19.4
362833	2012	AJ ₁₉	16.4	X	50.23837	308.38254	80.10708	12.59656	0.0462548	0.22320978	2.6914970	20	—	—
362834	2012	AE ₂₁	15.8	X	169.94972	331.83980	168.52883	8.05545	0.1403814	0.17902517	3.1178843	20	8 14.7	20.9
362835	2012	AS ₂₂	16.3	X	124.19449	354.97047	304.59717	4.18246	0.0212992	0.21635556	2.7480461	20	—	—
362836	2012	BH	15.8	X	294.43617	56.45650	306.43099	8.09317	0.0733078	0.18063960	3.0992795	20	7 22.4	19.8
362837	2012	BU ₂	15.1	X	91.50549	293.18360	301.99947	15.80059	0.0827961	0.18299563	3.0726204	20	9 10.1	19.8
362838	2012	BR ₃	15.3	X	210.62983	298.05411	112.14023	22.32909	0.0787356	0.16914970	3.2380873	20	6 11.9	20.4
362839	2012	BV ₁₀	15.5	X	18.52865	172.04838	153.30980	11.09753	0.0399544	0.18087538	3.0965856	20	10 5.5	19.7
362840	2012	BO ₁₂	17.3	X	343.23773	104.30937	148.49223	2.45470	0.1425682	0.26476342	2.4019505	20	4 30.9	19.6
362841	2012	BW ₁₅	16.5	X	351.06342	280.73114	131.95259	2.94633	0.0275784	0.20979484	2.8050430	20	12 19.9	20.1
362842	2012	BV ₂₀	15.7	X	6.59357	298.62229	18.85924	12.42742	0.0940485	0.18537728	3.0462465	20	9 15.2	19.6
362843	2012	BJ ₂₁	15.3	X	97.27567	281.61899	274.12346	14.25674	0.0518545	0.17286130	3.1915688	20	7 28.8	20.1
362844	2012	BD ₂₂	15.5	X	115.99247	313.66250	274.72546	8.56192	0.0348060	0.18966692	3.0001409	20	9 29.2	20.0
362845	2012	BE ₂₂	16.8	X	140.38051	57.71559	218.91676	3.55878	0.0225587	0.21448821	2.7639728	20	—	—
362846	2012	BS ₂₅	15.9	X	257.96352	31.95160	95.69616	14.69143	0.1797933	0.20991769	2.8039484	20	11 5.5	19.8
362847	2012	BD ₂₈	16.7	X	123.19950	220.50759	74.82932	6.79582	0.0488950	0.21276597	2.7788682	20	—	—
362848	2012	BQ ₃₀	15.7	X	110.97321	69.30426	124.39979	11.32719	0.0724619	0.17807275	3.1289917	20	8 19.3	20.3
362849	2012	BS ₃₀	16.2	X	308.76808	328.48212	128.57355	15.29395	0.0706144	0.21370154	2.7707517	20	12 21.0	19.8
362850	2012	BY ₃₁	16.3	X	121.08640	123.95548	52.91448	6.43282	0.1397082	0.17260137	3.1947721	20	8 16.4	21.4
362851	2012	BR ₃₂	15.9	X	145.86334	178.51133	327.14970	10.07707	0.0633881	0.17333080	3.1858028	20	7 28.7	20.7
362852	2012	BS ₃₂	15.8	X	178.60414	21.51355	100.84002	12.39542	0.0494818	0.17741673	3.1367002	20	8 5.3	20.5
362853	2012	BE ₃₃	16.2	X	104.99188	189.52082	82.44230	6.88114	0.0818082	0.19976800	2.8981360	20	11 20.2	20.5
362854	2012	BJ ₃₃	15.2	X	33.87501	164.33107	108.65165	17.99927	0.0879478	0.17693816	3.1423535	20	8 27.0	19.5
362855	2012	BN ₃₆	16.8	X	48.08320	132.33286	164.45469	2.85965	0.0427014	0.19370495	2.9583001	20	10 8.6	20.7
362856	2012	BP ₃₈	16.1	X	309.77303	283.57238	115.03758	12.15175	0.1020950	0.19570295	2.9381309	20	10 5.4	19.9
362857	2012	BL ₄₃	16.0	X	82.56154	119.74042	115.57087	9.16900	0.1477206	0.17702990	3.1412678	20	9 19.1	20.7
362858	2012	BO ₄₇	15.6	X	283.22276	14.33404	340.78997	9.98646	0.0996423	0.16926459	3.2366219	20	6 22.5	20.2
362859	2012	BS ₅₄	15.2	X	47.29982	178.91737	128.72023	9.56506	0.0808029	0.18432237	3.0578583	20	10 28.4	19.6
362860	2012	BJ ₅₈	16.5	X	212.17539	67.86927	38.21176	2.79462	0.0571605	0.18398653	3.0615782	20	8 23.1	20.9
362861	2012	BQ ₅₈	16.0	X	134.76887	182.67038	105.37413	9.29761	0.1920391	0.21534546	2.7566327	20	—	—
362862	2012	BS ₅₈	16.3	X	60.96709	256.42610	100.96174	6.42625	0.0657318	0.21771288	2.7366125	20	—	—
362863	2012	BB ₆₀	15.7	X	114.53985	79.37410	106.68060	10.47841	0.1585657	0.17177900	3.2049604	20	8 22.4	20.8
362864	2012	BE ₆₀	15.4	X	36.36276	330.13601	312.01955	16.46176	0.1919916	0.17992282	3.1075054	20	9 14.5	19.6
362865	2012	BA ₆₄	16.1	X	170.61524	81.85192	153.39146	4.77347	0.0532956	0.20976031	2.8053508	20	12 16.7	20.3
362866	2012	BA ₆₅	15.8	X	286.20083	234.96387	129.17738	17.19457	0.02157637	0.18146934	3.0898250	20	6 22.0	20.2
362867	2012	BO ₆₇	16.5	X	344.52179	253.31114	149.65707	6.87912	0.0721249	0.20854591	2.8162309	20	12 2.9	20.1
362868	2012	BD ₇₆	15.9	X	76.01893	145.32106	136.22007	10.07744	0.0523228	0.18871107	3.0102632	20	10 28.1	20.3
362869	2012	BH ₇₈	16.0	X	107.11132	171.84485	56.67053	2.45476	0.1212027	0.18040659	3.1019476	20	10 1.5	20.7
362870	2012	BU ₇₉	17.3	X	234.61617	174.08212								

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
362881 2012 BR ₁₀₅	16.1	X	256.37889	218.48209	173.18446	11.18274	0.0458322	0.17377063	3.1804248	20	7 11.2	20.8
362882 2012 BJ ₁₀₆	15.3	X	273.60013	297.46492	92.42652	12.38379	0.0948918	0.17817896	3.1277482	20	7 26.5	19.7
362883 2012 BQ ₁₀₇	16.0	X	147.56121	175.25776	118.66586	26.43179	0.0979949	0.21888838	2.7268060	20	—	—
362884 2012 BE ₁₀₈	16.9	X	131.31542	352.02135	327.84592	2.38732	0.1034674	0.22401723	2.6850256	20	—	—
362885 2012 BF ₁₀₉	16.7	X	269.57207	358.48495	107.72555	3.16984	0.0415330	0.19858865	2.9095988	20	11 6.4	20.7
362886 2012 BG ₁₁₀	16.3	X	141.83996	211.01875	142.19276	9.46120	0.1072545	0.23755952	2.5819892	20	1 13.9	19.9
362887 2012 BG ₁₁₁	16.6	X	216.53409	315.72230	216.19004	0.86148	0.0277684	0.19951613	2.9005746	20	11 22.7	20.6
362888 2012 BU ₁₁₂	15.5	X	38.71347	123.38811	147.01363	14.70960	0.0255655	0.17023311	3.2243211	20	8 17.4	20.0
362889 2012 BA ₁₁₆	16.6	X	47.99423	55.74592	306.35005	5.46163	0.0259762	0.21089938	2.7952405	20	12 29.7	20.4
362890 2012 BC ₁₂₅	16.2	X	99.04100	28.13904	216.07870	4.32867	0.0885588	0.18263946	3.0766137	20	10 7.4	20.9
362891 2012 BT ₁₂₇	15.2	X	61.15081	123.20094	143.39520	10.58063	0.0608765	0.17651093	3.1474220	20	9 18.9	19.6
362892 2012 BF ₁₂₉	16.9	X	129.57063	185.35997	161.04835	5.68689	0.0704984	0.22946040	2.6423939	20	—	—
362893 2012 BH ₁₂₉	16.6	X	68.29791	145.26808	210.09601	3.08421	0.1049982	0.21322886	2.7748850	20	—	—
362894 2012 BK ₁₃₀	16.4	X	147.00583	267.56060	27.95031	6.83849	0.0305083	0.21948396	2.7218709	20	—	—
362895 2012 BS ₁₃₁	15.6	X	220.01494	76.06614	66.01238	11.47098	0.0903566	0.19476394	2.9475669	20	10 17.2	20.0
362896 2012 BP ₁₃₂	16.4	X	357.98848	210.35083	243.67840	10.28944	0.0902743	0.22622493	2.6675285	20	—	—
362897 2012 BF ₁₄₄	16.0	X	277.86308	267.72548	123.81565	2.88130	0.0814874	0.17673397	3.1341422	20	8 4.2	20.2
362898 2012 BO ₁₄₅	17.1	X	275.15165	198.98972	135.95496	7.67855	0.1588366	0.28189148	2.3036407	20	5 8.6	20.2
362899 2012 BB ₁₄₆	15.5	X	227.37567	279.77173	136.25925	10.87905	0.0301168	0.17122780	3.2118349	20	7 9.2	20.2
362900 2012 CV ₂	16.5	X	146.51267	136.68658	163.98356	4.64846	0.0719173	0.22015191	2.7163626	20	—	—
362901 2012 CH ₅	15.8	X	202.79183	33.41065	58.21120	8.40142	0.1181522	0.17183480	3.2042666	20	7 20.6	20.9
362902 2012 CX ₅	15.7	X	335.23623	239.74928	109.86202	11.92582	0.0586742	0.18033464	3.1027726	20	9 7.8	19.9
362903 2012 CC ₁₆	15.9	X	46.46097	134.01019	144.45770	9.51025	0.0212268	0.17808326	3.1288686	20	9 8.7	20.2
362904 2012 CO ₁₇	16.5	X	32.32670	269.39172	152.38298	5.40721	0.0204443	0.22394000	2.6856429	20	—	—
362905 2012 CB ₁₉	15.3	X	160.91067	74.61927	97.15347	9.68274	0.0371682	0.18096551	3.0955572	20	9 19.4	20.0
362906 2012 CH ₁₉	15.8	X	232.97632	82.35919	35.43887	9.26952	0.1044310	0.18942036	3.0027438	20	9 27.8	20.3
362907 2012 CU ₂₄	16.0	X	63.74713	20.07804	244.28840	4.27971	0.1321499	0.17397524	3.1779307	20	9 24.9	20.6
362908 2012 CP ₂₇	16.9	X	218.40535	288.69610	60.58638	2.83973	0.1920058	0.26662165	2.3907772	20	3 25.1	20.7
362909 2012 CE ₃₀	16.2	X	88.69869	220.76063	75.90966	10.53529	0.0388568	0.20172587	2.8793535	20	11 28.0	20.2
362910 2012 CM ₃₀	16.3	X	97.81115	139.12280	82.43950	2.55237	0.1150515	0.17703589	3.1411970	20	9 12.6	20.9
362911 Miguelhurtado	15.3	X	47.57503	144.76414	133.97220	10.31610	0.0792732	0.17868182	3.1218771	20	9 20.4	19.6
362912 2012 CJ ₃₆	15.9	X	138.70460	172.36833	96.46745	10.46436	0.0943631	0.20500882	2.8485315	20	12 21.1	20.2
362913 2012 CK ₃₇	15.9	X	227.92351	257.86124	195.31570	6.36527	0.0672622	0.18263203	3.0766971	20	8 20.8	20.4
362914 2012 CV ₃₈	16.4	X	349.63251	142.83663	282.36249	2.27880	0.0793585	0.21274576	2.7790441	20	—	—
362915 2012 CS ₄₀	13.7	X	347.65923	279.06181	127.83318	10.80812	0.0419417	0.08170616	5.2597631	20	11 13.6	20.5
362916 2012 CE ₄₂	17.0	X	337.12329	314.21802	123.46519	5.28544	0.0489133	0.20979880	2.8050076	20	—	—
362917 2012 CK ₄₃	15.7	X	97.75268	127.56562	75.16522	10.43402	0.1064915	0.17038288	3.2224442	20	8 21.5	20.6
362918 2012 CH ₅₁	15.4	X	255.33601	262.68247	156.33371	17.43895	0.1115626	0.17669899	3.1451884	20	8 4.6	20.0
362919 2012 CP ₅₂	15.6	X	208.77008	117.81376	17.90985	10.46039	0.0688612	0.18726353	3.0257561	20	9 25.2	20.1
362920 2012 DV ₂	15.4	X	320.19883	232.48778	134.68284	11.04276	0.0858236	0.17538695	3.1608547	20	9 3.8	19.4
362921 2012 DS ₃	15.7	X	201.09953	253.44794	175.41041	12.43926	0.0613811	0.16705304	3.2651249	20	6 22.2	20.8
362922 2012 DK ₆	15.2	X	60.39540	144.91580	149.23022	11.40811	0.1139459	0.18387525	3.0628133	20	11 1.3	19.7
362923 2012 DN ₁₀	15.3	X	332.46025	283.59048	83.39589	5.04155	0.0545975	0.17933850	3.1142516	20	9 24.7	19.4
362924 2012 DW ₁₈	15.6	X	36.26883	202.62956	119.20915	10.28605	0.0522079	0.18714150	3.0270713	20	10 28.8	19.9
362925 2012 DX ₃₀	17.3	X	29.84841	274.44863	187.29345	27.45194	0.3966356	0.23442868	2.6049269	20	—	—
362926 2012 DO ₄₂	14.9	X	118.55805	337.65961	155.90912	10.69636	0.0350666	0.15156496	3.4839360	20	6 8.6	20.1
362927 2012 DO ₄₇	16.4	X	182.50858	189.67701	139.46990	14.44363	0.1847394	0.24378101	2.5378706	20	1 30.3	20.6
362928 2012 DP ₆₈	15.7	X	11.03828	155.40240	155.22244	11.03108	0.0810800	0.17597825	3.1537702	20	9 6.9	19.8
362929 2012 DW ₇₇	15.1	X	126.66448	100.64349	81.67609	13.10666	0.0258845	0.16880827	3.2424521	20	8 21.4	20.0
362930 2012 DW ₇₇	14.7	X	325.71210	243.31139	114.55474	16.63340	0.0310540	0.17385836	3.1793548	20	9 5.5	19.2
362931 2012 ES ₄	14.9	X	337.14199	106.25120	173.69202	10.26870	0.0464970	0.15063490	3.4982618	20	6 7.6	19.8
362932 2012 FO ₂	15.8	X	332.71037	231.00130	156.76782	3.36191	0.1250288	0.18978360	2.9989111	20	10 22.0	19.2
362933 2012 FP ₇	16.6	X	16.47962	174.41796	181.74162	1.64639	0.0758746	0.19079937	2.9882580	20	11 13.9	20.5
362934 2012 HU ₂₁	15.6	X	83.65672	213.28053	115.52463	10.78260	0.0823142	0.18662561	3.0326472	20	12 31.5	20.1
362935 2012 JB ₅	15.7	X	327.80836	345.63706	108.21328	30.17127	0.1407531	0.22276774	2.6950564	20	—	—
362936 2012 UL ₈₄	16.2	X	304.60781	282.94767	79.17637	18.59603	0.2084151	0.22665016	2.6641910	20	7 22.6	19.3
362937 2012 VD ₈₀	17.5	X	260.36932	283.69537	122.53156	25.13951	0.0829856	0.35326787	1.9818310	20	8 20.7	19.5
362938 2012 WN ₃₃	15.1	X	278.11317	9.21798	273.29114	15.86750	0.0765996	0.17935930	3.1140108	20	3 10.7	20.0
362939 2012 XF ₂	15.2	X	160.89930	327.22311	90.01100	12.25186	0.0382103	0.18572304	3.0424646	20	4 28.0	19.8
362940 2012 XH ₅₀	16.1	X	273.13516	206.48727	244.46715	7.65599	0.0427843	0.23891401	2.5722211	20	10 28.2	19.3
362941 2012 XO ₁₀₁	15.9	X	124.63863	232.57652	271.05388	12.71168	0.1360169	0.19787064	2.9166332	20	7 7.2	20.4
362942 2012 XZ ₁₁₅	15.6	X	77.23859	103.97365	202.26206	11.61844	0.1172130	0.24760786	2.5116537	20	12 14.1	19.4
362943 2012 XR ₁₃₈	16.2	X	189.54046	32.02206	150.75371	7.36919	0.0729778	0.23841633	2.5757995	20	11 9.4	19.9
362944 2012 YX ₁	16.9	X	341.54278	299.01710	152.34103	4.04227	0.1125960	0.25312259	2.4750394	20	—	—
362945 2013 AJ ₂	16.6	X	243.36433	218.42560	281.01853	12.28351	0.2182700	0.22646672	2.6656295	20	10 19.0	20.6
362946 2013 AP ₂₃	18.3	X	11.20058	12.42501	100.47878	2.27000	0.1462751	0.26735213	2.3864204	20	—	—
362947 2013 AX ₂₇	15.0	X	168.92232	273.36552	124.91970	16.00535	0.1078974	0.17304017	3.1893689	20	4 18.9	20.2

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Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
362961 2013 BT ₂₄	15.0	X	193.82435	237.85476	132.35839	16.68334	0.1050088	0.17121585	3.2119842	20	4 9.0	20.3
362962 2013 BS ₃₄	17.6	X	321.44986	280.94064	272.39730	2.46401	0.1123066	0.27678043	2.3319136	20	1 1.5	20.5
362963 2013 BE ₅₃	15.8	X	156.43778	156.12395	317.26341	8.43694	0.0861461	0.18982894	2.9984336	20	6 30.7	20.4
362964 2013 BL ₅₅	15.7	X	275.94581	34.37354	296.60026	9.60831	0.0503802	0.18235879	3.0797698	20	5 17.9	20.2
362965 2013 BU ₅₆	13.7	X	285.60704	298.47578	120.92043	10.13767	0.0737723	0.08624053	5.0737428	20	9 11.1	20.4
362966 2013 BB ₅₈	17.4	X	76.03261	315.25915	139.40125	4.67029	0.0630418	0.28744379	2.2738794	20	2 15.5	19.7
362967 2013 BO ₆₇	16.3	X	130.38381	321.72334	327.49585	12.95941	0.1666635	0.24278083	2.5448359	20	—	—
362968 2013 BF ₇₆	17.8	X	331.71453	190.20443	340.39019	1.76622	0.1366136	0.26960538	2.3731053	20	—	—
362969 2013 BX ₇₆	17.7	X	11.17059	283.96114	189.78517	0.81168	0.1340740	0.27105325	2.3646469	20	—	—
362970 2013 BS ₇₉	15.5	X	124.44447	52.08241	91.99955	16.77362	0.1081706	0.18269820	3.0759543	20	7 5.2	20.2
362971 2013 CM ₈	16.6	X	252.65816	282.03365	174.61131	2.11413	0.0494759	0.21697544	2.7428096	20	10 4.4	20.3
362972 2013 CT ₁₆	16.4	X	273.93298	248.78008	158.56006	13.20709	0.0719506	0.20154362	2.8810890	20	8 22.6	20.2
362973 2013 CB ₁₇	17.5	X	281.56767	100.17583	170.04415	7.60538	0.0904382	0.28232557	2.3012788	20	2 23.4	20.4
362974 2013 CR ₂₃	16.9	X	328.01725	125.81652	305.50798	5.31836	0.1266457	0.23761721	2.5815713	20	12 28.9	19.5
362975 2013 CU ₃₃	17.2	X	74.81358	103.84087	338.80915	11.26418	0.0163368	0.26951854	2.3736150	20	1 28.3	20.2
362976 2013 CK ₃₆	13.3	X	257.75146	244.90287	217.09971	10.84875	0.0540488	0.07995390	5.3363333	20	9 23.5	20.4
362977 2013 CT ₃₇	16.4	X	223.08887	304.42810	265.95356	12.04487	0.2247753	0.23403819	2.6078237	20	12 29.0	20.0
362978 2013 CG ₃₈	16.4	X	263.26938	43.07487	95.07934	12.47200	0.1383707	0.23299173	2.6156264	20	12 4.2	19.6
362979 2013 CR ₅₀	15.6	X	151.68450	26.03211	147.27871	15.78733	0.0774363	0.20514039	2.8473133	20	9 11.3	19.9
362980 2013 CM ₅₂	16.7	X	320.11744	85.37401	134.67421	10.52039	0.0589558	0.27797846	2.3252088	20	2 13.9	19.3
362981 2013 CK ₅₈	12.5	X	269.13659	296.77135	161.17365	25.77259	0.0874310	0.08251629	5.2252803	20	10 2.9	19.5
362982 2013 CT ₅₈	13.8	X	294.29100	267.86578	150.18311	10.97546	0.2003943	0.08443261	5.1459145	20	9 1.1	20.2
362983 2013 CT ₅₉	16.4	X	96.29731	352.92272	152.82654	9.67920	0.1304208	0.17542036	3.1604533	20	6 9.7	21.2
362984 2013 CQ ₆₂	17.9	X	50.05282	15.17166	155.60421	1.48175	0.0850572	0.29585049	2.2305974	20	4 28.7	20.1
362985 2013 CO ₆₆	16.6	X	204.49737	18.01525	165.85256	9.83309	0.0720481	0.22306544	2.6926579	20	11 24.7	20.6
362986 2013 CT ₇₂	16.1	X	115.29787	110.41079	139.19774	12.59486	0.1915531	0.21517488	2.7580894	20	11 15.3	20.9
362987 2013 CE ₈₇	15.6	X	59.49672	84.80436	157.31500	16.56036	0.2108146	0.17827610	3.1266119	20	9 6.3	20.0
362988 2013 CO ₉₀	16.1	X	129.67119	134.08940	18.34454	13.00415	0.2747239	0.18413035	3.0599838	20	8 5.9	21.6
362989 2013 CG ₁₁₃	17.9	X	28.55428	117.16555	352.45436	1.12710	0.1385229	0.26588271	2.3952048	20	—	—
362990 2013 CL ₁₁₆	17.1	X	256.52594	206.41539	33.69800	4.42417	0.1434242	0.25697307	2.4502533	20	—	—
362991 2013 CE ₁₂₀	15.6	X	27.62948	98.60017	146.60267	11.59285	0.0307338	0.17709220	3.1405310	20	7 2.2	20.0
362992 2013 CW ₁₂₁	16.8	X	256.05121	168.84393	342.83042	12.49221	0.0979362	0.22980699	2.6397364	20	12 14.2	20.4
362993 2013 CU ₁₃₀	16.0	X	15.70349	279.68796	340.48707	17.14326	0.0420807	0.17632894	3.1495873	20	7 10.2	20.5
362994 2013 CE ₁₃₇	16.9	X	245.43302	317.03046	157.91431	9.42661	0.1598923	0.21639144	2.7477423	20	10 4.4	20.7
362995 2013 CY ₁₃₈	16.4	X	305.43163	65.66287	339.88891	2.58309	0.0906099	0.21373708	2.7704446	20	10 5.4	19.8
362996 2013 CU ₁₅₆	16.8	X	152.96328	241.78659	56.10123	3.42451	0.1577354	0.24003043	2.5642391	20	—	—
362997 2013 CD ₁₅₈	17.4	X	114.05782	31.78216	7.94674	6.38578	0.1093270	0.27343993	2.3508672	20	2 6.4	20.3
362998 2013 CO ₁₆₆	16.9	X	270.26942	67.88886	0.51173	8.55686	0.1272992	0.20951730	2.8075195	20	9 9.2	20.4
362999 2013 CY ₁₇₁	16.3	X	175.97954	103.68631	334.74120	4.26871	0.1702455	0.17889091	3.1194441	20	6 6.5	21.5
363000 2013 CO ₁₇₄	16.1	X	309.04854	179.94368	194.22992	3.45369	0.0239780	0.19686202	2.9265869	20	9 1.7	20.0
363001 2013 CS ₁₇₉	16.6	X	250.11076	81.34247	17.23495	4.00373	0.0669684	0.21289472	2.7777477	20	9 30.4	20.2
363002 2013 CM ₁₈₂	15.3	X	73.67355	196.45591	311.43382	16.46764	0.0155426	0.16984015	3.2293055	20	4 19.4	20.2
363003 2013 CR ₁₈₂	16.7	X	256.60881	123.38589	329.92352	1.61546	0.0423307	0.21943330	2.7222898	20	10 5.8	20.4
363004 2013 CH ₁₈₄	17.6	X	263.41280	190.24800	340.47202	4.51170	0.1236707	0.23815013	2.5777186	20	—	—
363005 2013 CE ₁₈₈	15.4	X	196.08366	46.15490	352.13044	10.02275	0.0895527	0.17016158	3.2252376	20	5 5.5	20.5
363006 2013 DC ₇	17.0	X	295.36961	28.71164	77.19148	5.39360	0.0592868	0.22602323	2.6691153	20	12 15.4	20.3
363007 2013 DY ₁₅	15.9	X	212.39969	287.82791	260.85203	12.57086	0.1375996	0.22215532	2.7000071	20	11 29.3	19.8
363008 2013 ES ₆₀	16.5	X	207.24087	51.73975	169.21367	10.26558	0.1268617	0.22940639	2.6428086	20	—	—
363009 2013 EM ₉₃	16.5	X	170.17010	54.40791	182.15473	7.96252	0.1737845	0.21378310	2.7700470	20	12 11.9	21.1
363010 1960 SA ₁	16.3	X	157.37394	216.28443	202.75780	6.85879	0.2530334	0.17415564	3.1757357	20	5 2.7	21.7
363011 1981 ED ₄	16.9	X	220.12774	276.60756	280.78283	5.89951	0.3049238	0.21789026	2.7351270	20	11 27.9	21.2
363012 1988 PH ₄	16.6	X	207.06132	162.53725	180.08218	9.45618	0.4464259	0.23604199	2.5930439	20	3 5.0	21.9
363013 1993 TH ₁₇	17.2	X	118.90371	320.37145	31.06790	4.87528	0.2571548	0.23251309	2.6192147	20	1 7.2	20.9
363014 1993 VM ₆	15.5	X	259.28408	213.03725	232.12694	25.87987	0.1255880	0.17870715	3.1215822	20	9 1.3	20.5
363015 1995 SC ₆₀	17.6	X	284.12742	76.85551	201.35837	5.31634	0.2033956	0.26337594	2.4103789	20	2 23.5	21.0
363016 1995 TO ₅	18.5	X	356.23640	135.32150	202.81148	1.44140	0.0748471	0.31546673	2.1371435	20	10 17.6	20.5
363017 1995 VA ₁₀	17.2	X	156.06276	338.00114	36.35139	5.13313	0.0929822	0.25641776	2.4537895	20	2 24.4	20.6
363018 1996 TA ₆	17.3	X	217.91118	328.21208	31.69205	6.84428	0.2459066	0.27347007	2.3506944	20	4 4.6	21.2
363019 1996 TD ₈	16.1	X	103.84262	171.79384	212.34453	15.05940	0.3938895	0.22119485	2.7078174	20	2 13.5	20.5
363020 1997 AK ₂₄	16.3	X	92.36769	248.22759	119.70071	8.77567	0.2443093	0.21206601	2.7849795	20	—	—
363021 1997 EK ₁	17.3	X	250.85048	354.45841	270.35620	5.93975	0.1142745	0.25276042	2.4774031	20	1 14.5	20.9
363022 1997 EK ₂₉	15.9	X	271.69011	340.58460	125.15510	12.92147	0.0252957	0.19142150	2.9817798	20	11 12.8	20.2
363023 1997 RR ₂	15.4	X	42.03807	127.42900	198.69931	13.24656	0.2888534	0.17405607	3.1769468	20	12 6.9	20.1
363024 1998 OK ₁	19.3	X	242.37827	298.57698	109.67439	13.99374	0.4290703	0.62439051	1.3557050	20	6 14.4	20.5
363025 1998 SB ₄	15.8	X	39.40374	155.39063	193.20210	10.26341	0.3031542	0.18382195	3.0634053	20	—	—
363026 1998 SK ₁₉	16.5	X	65.31773	261.13590	35.68757	0.89356	0.1503379	0.18525816	3.0475522	20	11 11.3	20.9
363027 1998 ST ₂₇	19.5	X	311.07870	322.46446	197.54719	21.05888	0.5299509	1.32885597	0.8193776	20	—	—
363028 1998 TQ ₂₄	18.3	X	44.38355	248.90618	29.70494	0.37260	0.1423992	0.31403527	2.1436330	20	10 15.6	20.7
363029 1998 UW ₂₅	16.0	X	64.39851	159.21429	193.77204	13.60973	0.2846275	0.18688456	3.0298452	20	—	—
363030 1998 VG ₄₀	18.3	X	20.10910	261.42028	65.77242	6.04566	0.1541822	0.31420588	2.1428569	20	11 22.4	20.5
363031 1998 XX ₁₃	15.2	X	12.86038	130.41809	243.37108	20.81583	0.2759258	0.18098679	3.0953146	20	12 23.6	19.1
363032 1999 FU ₆₄	17.6	X	41.62402	24.57851	205.06587	6.16846	0.0458512	0.29110252	2.2547864	20	7 7.8	20.2
363033 1999 QN ₂	17.2	X	289.86138	43.69120	272.09892	5.56023	0.2617509	0.27440217	2.3453681	20	4 9.7	20.5
363034 1999 RX ₇₉	17.3	X	250.									

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363041 1999 <i>TL</i> ₁₆₆	16.8	X	223.65931	131.63565	226.67818	9.58898	0.2329619	0.26720324	2.3873068	20	4 4.8	20.9
363042 1999 <i>TE</i> ₁₉₁	15.4	X	231.18316	214.54430	239.59115	16.65823	0.1967110	0.17993942	3.1073142	20	8 6.4	20.7
363043 1999 <i>TY</i> ₂₁₅	17.3	X	208.55974	192.78750	190.65426	8.87386	0.2112068	0.26663614	2.3906906	20	4 27.8	21.3
363044 1999 <i>TY</i> ₂₄₃	16.8	X	164.55740	118.19307	221.39674	7.35765	0.2982927	0.21148842	2.7900479	20	2 3.8	21.9
363045 1999 <i>TA</i> ₂₇₅	17.4	X	185.65026	173.84314	201.19513	6.25138	0.1366126	0.26441398	2.4040663	20	3 25.8	21.0
363046 1999 <i>TJ</i> ₃₀₆	16.1	X	299.50213	113.63911	188.95889	9.67853	0.2235155	0.17820269	3.1274704	20	4 20.1	20.4
363047 1999 <i>TR</i> ₃₃₂	16.3	X	287.91564	13.09734	19.05769	10.42297	0.0911089	0.18171422	3.0870484	20	8 22.5	20.5
363048 1999 <i>VO</i> ₁₇	17.5	X	248.49918	313.50141	25.88337	2.46025	0.2320221	0.26971411	2.3724675	20	4 4.6	21.2
363049 1999 <i>VG</i> ₅₀	15.3	X	281.34705	168.60715	244.62463	13.59592	0.1910407	0.18109440	3.0940882	20	8 14.4	19.7
363050 1999 <i>VA</i> ₇₅	15.8	X	216.28390	217.68920	197.86075	15.98196	0.1960715	0.17462333	3.1700628	20	6 13.3	21.3
363051 1999 <i>VS</i> ₇₆	16.7	X	39.63566	303.90211	90.61114	3.38064	0.1389260	0.19512226	2.9439572	20	—	—
363052 1999 <i>VO</i> ₈₉	16.6	X	335.37028	149.39200	214.23680	13.17361	0.2613505	0.18498254	3.0505786	20	9 14.9	19.5
363053 1999 <i>VS</i> ₉₉	16.0	X	31.84258	140.64166	225.93873	16.00799	0.2316984	0.19226691	2.9730327	20	—	—
363054 1999 <i>VZ</i> ₁₀₀	17.0	X	208.05304	108.89417	231.95196	5.44200	0.2171846	0.26115103	2.4240499	20	3 2.3	21.1
363055 1999 <i>VK</i> ₁₀₅	17.1	X	241.42768	94.75224	236.16443	4.51111	0.2097768	0.26404334	2.4063155	20	3 18.5	21.1
363056 1999 <i>VA</i> ₁₂₉	15.8	X	97.07727	358.17774	227.11201	8.79390	0.0109981	0.18046371	3.1012930	20	8 30.1	20.3
363057 1999 <i>VB</i> ₁₃₅	16.1	X	140.64418	285.66778	227.85870	8.80596	0.1752555	0.17441915	3.1725364	20	8 2.8	21.4
363058 1999 <i>VH</i> ₁₅₂	15.6	X	316.58723	322.62289	64.40717	12.29886	0.0110312	0.18267694	3.0761928	20	10 4.4	20.0
363059 1999 <i>VS</i> ₁₈₃	16.0	X	231.20131	21.03398	62.99739	16.39022	0.1578517	0.17663139	3.1459909	20	8 9.6	21.1
363060 1999 <i>VF</i> ₂₀₇	16.2	X	284.16581	162.05516	217.28227	5.64495	0.1154698	0.17693944	3.1423383	20	7 21.2	20.5
363061 1999 <i>XN</i> ₂₂₁	16.2	X	325.50122	217.73219	273.66953	11.76593	0.2294379	0.24081810	2.5586446	20	—	—
363062 1999 <i>XN</i> ₂₅₉	15.2	X	332.06843	325.26556	60.86419	17.74041	0.0602207	0.18522647	3.0478998	20	10 23.5	19.3
363063 2000 <i>AN</i> ₁₁₇	16.3	X	37.32328	290.94425	128.05815	13.63816	0.1452883	0.24079796	2.5587873	20	—	—
363064 2000 <i>BA</i> ₄₆	17.6	X	302.09074	354.96630	136.15331	6.51335	0.1980626	0.23413504	2.6071045	20	—	—
363065 2000 <i>BC</i> ₄₈	17.2	X	325.02628	14.25149	124.09447	5.00742	0.0779982	0.23915373	2.5705020	20	—	—
363066 2000 <i>CT</i> ₇₃	17.1	X	254.58513	71.32561	137.10096	12.22907	0.1921646	0.23543234	2.5975184	20	—	—
363067 2000 <i>CO</i> ₁₀₁	19.1	X	153.18760	64.93597	353.04408	15.32180	0.0900969	0.88253550	1.0764188	20	—	—
363068 2000 <i>DS</i> ₉₁	17.4	X	18.30056	286.43638	164.01204	3.18234	0.1575200	0.23824435	2.5770389	20	—	—
363069 2000 <i>EV</i> ₁₀₆	19.3	X	262.94993	255.33971	170.84926	33.46900	0.3486150	0.46551944	1.6488362	20	8 16.2	20.7
363070 2000 <i>GY</i> ₁₁₆	17.4	X	63.08375	59.05289	192.13349	5.19179	0.0951474	0.30990240	2.1626492	20	9 22.8	19.8
363071 2000 <i>GD</i> ₁₄₇	20.3	X	265.73450	182.24256	357.42537	7.09072	0.5491104	0.37817090	1.8938430	20	—	—
363072 2000 <i>GP</i> ₁₆₅	16.5	X	215.25306	203.54668	10.01942	8.92375	0.1520134	0.22663996	2.6642710	20	—	—
363073 2000 <i>LT</i> ₂₉	16.4	X	236.98593	351.77724	272.42075	10.84889	0.3186120	0.22879282	2.6475314	20	—	—
363074 2000 <i>NF</i> ₂₃	16.5	X	275.12930	162.75435	133.00776	25.04025	0.1717805	0.28432512	2.2904768	20	3 16.4	20.0
363075 2000 <i>OG</i> ₈	17.7	X	184.52959	71.68067	295.18099	5.26739	0.5472812	0.22722711	2.6596794	20	3 21.0	23.6
363076 2000 <i>PH</i> ₆	17.8	X	161.55481	219.65683	152.33344	10.50405	0.5188359	0.22400199	2.6851474	20	3 21.1	23.4
363077 2000 <i>QK</i>	17.7	X	14.79598	177.51398	151.49938	1.33733	0.1969042	0.30108532	2.2046670	20	11 21.1	19.8
363078 2000 <i>QU</i> ₂₃	17.3	X	265.82602	165.52579	179.90937	5.86843	0.1918806	0.28640038	2.2793988	20	5 5.1	20.4
363079 2000 <i>QJ</i> ₈₂	18.2	X	26.39392	52.76249	274.92175	4.30877	0.2286761	0.30265331	2.1970457	20	12 10.3	20.7
363080 2000 <i>QY</i> ₁₂₉	16.2	X	334.39580	148.19475	155.63660	17.46932	0.4369539	0.19611467	2.9340172	20	5 20.4	18.9
363081 2000 <i>QD</i> ₁₆₂	17.3	X	186.62267	57.72430	286.64642	5.39439	0.2990180	0.22668804	2.6638942	20	2 23.3	22.2
363082 2000 <i>QV</i> ₁₆₇	16.5	X	195.63850	156.29527	180.68624	14.42393	0.2657001	0.22649324	2.6654214	20	2 20.3	21.5
363083 2000 <i>RZ</i> ₂₇	16.8	X	146.68839	156.39422	188.78103	17.25454	0.3071619	0.21981838	2.7191096	20	1 27.5	21.8
363084 2000 <i>RD</i> ₅₃	19.9	X	84.18262	192.78652	175.95449	9.28109	0.4276530	0.41263498	1.7868661	20	—	—
363085 2000 <i>RU</i> ₅₇	17.9	X	243.68352	27.65157	330.97732	3.88603	0.2136294	0.28342995	2.2952970	20	4 23.8	21.4
363086 2000 <i>RK</i> ₈₀	17.2	X	202.65095	174.44598	207.88970	6.88131	0.1191741	0.28176388	2.3043362	20	4 21.6	20.3
363087 2000 <i>RU</i> ₁₀₂	16.2	X	143.28930	164.58818	239.86100	10.59314	0.1626070	0.22429136	2.6828374	20	3 22.2	20.5
363088 2000 <i>SC</i> ₂₆	17.9	X	296.66277	119.45786	225.14194	8.84992	0.2633458	0.29104551	2.2550808	20	6 2.6	20.1
363089 2000 <i>SF</i> ₉₃	16.0	X	165.27163	127.65583	231.04325	8.13749	0.3106609	0.22362616	2.6881550	20	2 24.8	21.0
363090 2000 <i>SE</i> ₉₈	17.4	X	256.63984	174.49669	208.51465	4.62273	0.2640782	0.28757014	2.2732133	20	6 5.2	20.7
363091 2000 <i>SF</i> ₁₀₂	18.0	X	291.40599	109.34662	228.86344	1.39423	0.3244605	0.28913348	2.2650118	20	5 5.3	20.7
363092 2000 <i>SV</i> ₁₁₀	16.9	X	116.47356	165.50367	197.86352	9.38403	0.3150018	0.21603791	2.7507391	20	1 25.6	21.2
363093 2000 <i>SR</i> ₁₂₉	15.6	X	87.26962	127.70098	234.89638	13.80435	0.1610762	0.21379302	2.7699613	20	—	—
363094 2000 <i>SG</i> ₁₇₃	15.9	X	178.97354	71.26107	268.24875	12.95433	0.2348832	0.22302839	2.6929562	20	2 8.1	20.8
363095 2000 <i>SU</i> ₂₁₆	16.4	X	110.64002	291.09142	60.19524	8.19878	0.3300723	0.21377328	2.7701318	20	1 10.6	20.5
363096 2000 <i>SL</i> ₃₀₁	16.9	X	259.26840	36.91780	305.31347	2.90775	0.1587679	0.28338957	2.2955151	20	4 24.5	20.0
363097 2000 <i>SV</i> ₃₀₇	17.1	X	243.13181	97.26839	273.86794	6.28097	0.2051986	0.28372224	2.2937203	20	5 10.9	20.7
363098 2000 <i>SO</i> ₃₁₇	16.1	X	236.85117	13.26434	276.29386	12.78940	0.2536609	0.22701272	2.6613536	20	1 25.6	20.8
363099 2000 <i>SH</i> ₃₄₆	16.9	X	225.44577	226.21713	294.98869	1.07855	0.0081642	0.20337393	2.8637770	20	11 23.6	20.9
363100 2000 <i>SZ</i> ₃₄₆	15.8	X	201.15292	55.26533	263.05277	15.69455	0.2040808	0.22227903	2.6990052	20	1 30.6	20.7
363101 2000 <i>SY</i> ₃₇₆	16.8	X	152.33526	138.87959	176.87459	11.86090	0.2082610	0.21739273	2.7392986	20	—	—
363102 2000 <i>TG</i> ₆	17.5	X	199.86994	190.23826	192.87854	6.76341	0.1168610	0.28014640	2.3131974	20	4 20.4	20.9
363103 2000 <i>TU</i> ₄₇	17.0	X	192.54142	320.83852	60.92142	7.04734	0.2010877	0.27831355	2.3233420	20	4 12.9	20.8
363104 2000 <i>TD</i> ₅₄	17.6	X	222.87665	334.18488	33.99698	7.61938	0.1371173	0.28038729	2.3118722	20	4 23.2	20.8
363105 2000 <i>UZ</i> ₁₆	17.3	X	304.08754	130.78246	224.37885	4.65386	0.2530307	0.29069615	2.2568872	20	7 5.2	19.1
363106 2000 <i>UW</i> ₁₉	16.8	X	71.17305	323.48778	57.27189	3.01330	0.2356013	0.21026456	2.8008638	20	—	—
363107 2000 <i>UB</i> ₉₂	17.2	X	193.76854	8.39449	4.68134	7.39170	0.1430386	0.27613566	2.3355422	20	3 30.9	20.8
363108 2000 <i>WZ</i> ₄₀	15.4	X	253.80530	201.74087	244.12570	17.86937	0.2502068	0.18740713	3.0242102	20	8 12.3	20.4
363109 2000 <i>WV</i> ₅₀	17.4	X	334.86645	191.16347	242.93431	17.09939	0.1361125	0.35189202	1.9869935	20	—	—
363110 2000 <i>WP</i> ₇₁	15.7	X	118.13708	63.15140	255.70502	14.97787	0.2812735	0.20968637	2.8060103	20	—	—
363111 2000 <i>WF</i> ₁₄₄	17.7	X	263.85756	289.12657	68.62189	1.95660	0.2488239	0.28444560	2.2898300	20	5 11.3	20.7
36311												

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	H	G	M	ω	Ω	i	e	μ	a	TE	Oppos.	V
363121 2001 ON ₉₁	16.6	X	110.65132	149.12740	229.53487	12.67376	0.2794776	0.23035403	2.6355555	20	1 29.8	20.6
363122 2001 OO ₉₂	16.4	X	183.66413	237.38062	95.69840	10.10671	0.2153811	0.23828181	2.5767688	20	2 9.2	20.8
363123 2001 PV ₁₆	16.0	X	156.38825	90.46493	240.54776	12.85524	0.2123104	0.23277081	2.6172811	20	1 10.8	20.4
363124 2001 PO ₂₈	17.1	X	158.73862	45.90514	277.48552	4.03367	0.2046902	0.23231739	2.6206855	20	1 5.8	21.2
363125 2001 PS ₅₄	17.3	X	120.89509	85.21070	266.16102	2.26658	0.2100194	0.23020932	2.6366599	20	1 2.8	20.8
363126 2001 PM ₅₈	16.4	X	189.66973	211.40622	113.93635	13.64746	0.2871717	0.23678242	2.5876354	20	2 5.7	21.1
363127 2001 PY ₆₂	16.4	X	187.95571	191.51819	139.35936	6.72462	0.2883248	0.23620878	2.5918231	20	2 9.9	21.2
363128 2001 QW ₃₂	16.4	X	160.60126	145.13864	217.00839	11.31634	0.2023479	0.23637395	2.5906156	20	2 17.9	20.9
363129 2001 QE ₃₉	16.7	X	66.36375	34.81996	334.74566	8.33176	0.3301823	0.22300793	2.6931209	20	—	—
363130 2001 QD ₆₉	16.5	X	204.30047	144.37345	192.69354	6.50350	0.3416142	0.23988830	2.5652518	20	2 25.9	21.4
363131 2001 QE ₁₀₉	16.8	X	199.99800	293.55696	37.78651	6.64312	0.3240197	0.24005012	2.5640988	20	2 21.2	21.7
363132 2001 QQ ₁₄₇	16.3	X	143.85500	291.95019	55.81406	12.35084	0.3184948	0.22920813	2.6443324	20	2 4.5	21.0
363133 2001 QS ₁₈₉	15.9	X	174.95910	85.79357	243.43614	12.44654	0.2255687	0.23451139	2.6043145	20	1 23.7	20.5
363134 2001 QJ ₁₉₀	15.8	X	98.56856	129.62744	254.92078	12.59943	0.2171817	0.22853021	2.6495593	20	1 15.5	19.3
363135 2001 QQ ₁₉₉	12.7	X	178.29678	193.43728	212.98844	42.53494	0.4269517	0.08015177	5.3275472	20	5 4.5	21.4
363136 2001 QH ₂₁₂	16.8	X	142.92617	12.00579	346.88998	4.20761	0.2383395	0.23225174	2.6211793	20	2 6.8	21.0
363137 2001 QM ₂₂₁	16.1	X	252.29716	108.40186	163.18474	12.00420	0.2480894	0.24241627	2.5473867	20	1 16.6	20.6
363138 2001 QF ₂₄₆	17.2	X	42.25154	9.70875	8.55691	9.48951	0.3437072	0.21744442	2.7388645	20	—	—
363139 2001 QG ₂₅₈	16.4	X	159.31319	95.80236	251.57313	7.80395	0.1831862	0.23333321	2.6130738	20	1 30.6	20.7
363140 2001 QS ₂₅₉	16.4	X	144.56474	143.95522	197.36661	12.24639	0.2593251	0.23043083	2.6349699	20	1 17.1	20.9
363141 2001 QV ₂₈₇	17.1	X	189.60682	147.76949	188.38549	4.32376	0.2597554	0.23736948	2.5833671	20	2 15.3	21.7
363142 2001 QO ₃₂₃	16.8	X	144.73761	210.94233	154.22801	14.56064	0.2717295	0.23210166	2.6223091	20	2 17.2	21.2
363143 2001 RM ₃	16.8	X	169.46771	98.17186	228.30835	10.50462	0.2613681	0.23377827	2.6029563	20	1 19.2	21.5
363144 2001 RW ₃₆	17.1	X	229.79519	122.53019	234.28956	3.30402	0.2268898	0.24611994	2.5217664	20	4 10.4	21.4
363145 2001 RP ₇₈	16.4	X	135.16815	177.32164	184.68778	8.33361	0.2532580	0.22815101	2.6524943	20	2 2.6	20.6
363146 2001 RU ₈₅	15.6	X	86.94988	194.73957	188.50794	5.35631	0.2153529	0.17382536	3.1797572	20	1 10.1	19.9
363147 2001 RA ₉₀	16.8	X	124.08267	288.79298	54.05719	3.40412	0.1824637	0.22712039	2.6605125	20	—	—
363148 2001 RO ₁₄₉	17.0	X	151.45636	166.11112	176.84822	9.54277	0.1176865	0.23228916	2.6208978	20	1 12.9	21.0
363149 2001 SW ₇	17.4	X	192.21896	299.50707	4.41003	3.79757	0.2104470	0.23473391	2.6026683	20	1 11.7	21.9
363150 2001 SD ₂₂	17.4	X	165.05566	126.35836	183.80947	5.83167	0.2160538	0.23008706	2.6375938	20	—	—
363151 2001 SH ₃₆	17.0	X	177.47581	145.71863	181.54785	13.31270	0.2886200	0.23341829	2.6124388	20	1 27.6	21.9
363152 2001 SN ₆₅	16.4	X	68.04491	170.47641	190.23462	14.31672	0.2288487	0.21867523	2.7285777	20	—	—
363153 2001 SD ₇₇	17.0	X	167.30392	96.94066	246.47538	3.57307	0.2260512	0.23359884	2.6110925	20	2 5.8	21.4
363154 2001 SL ₈₃	17.8	X	286.50823	175.56654	192.43338	6.07569	0.1351866	0.30755974	2.1736172	20	7 15.4	20.0
363155 2001 SP ₈₆	16.9	X	208.85376	150.31190	166.84556	15.38404	0.1515916	0.23863600	2.5742185	20	2 6.5	21.2
363156 2001 SK ₁₀₁	17.6	X	193.59419	114.54187	188.29613	4.37565	0.2233903	0.23362796	2.6108755	20	1 10.6	22.2
363157 2001 SV ₁₀₁	17.8	X	212.12296	56.68175	351.85740	6.66625	0.1008830	0.30055109	2.2072787	20	6 6.6	20.9
363158 2001 SL ₁₂₂	18.3	X	282.03050	110.82864	252.31279	3.26057	0.1835884	0.30532554	2.1842078	20	6 22.1	20.4
363159 2001 SZ ₁₃₀	18.1	X	5.74315	132.78268	190.31823	5.99030	0.1516634	0.31317648	2.1475501	20	10 23.5	19.8
363160 2001 SM ₁₃₅	17.0	X	177.44667	319.09417	355.03170	3.79894	0.2271250	0.23220948	2.6214974	20	1 12.9	21.4
363161 2001 SF ₁₆₈	17.5	X	333.75143	321.02832	31.11708	5.30528	0.1300890	0.30955744	2.1642556	20	10 2.0	18.9
363162 2001 SL ₂₄₃	16.8	X	188.20409	127.06890	195.03700	13.33904	0.2287590	0.23324557	2.6137283	20	1 26.7	21.5
363163 2001 SE ₂₈₆	17.8	X	120.70089	199.20773	268.53776	26.81174	0.4562643	0.33916744	2.0363853	20	6 15.3	21.5
363164 2001 SF ₂₉₀	15.8	X	158.10210	152.42562	212.76920	22.09721	0.0963124	0.23473967	2.6026258	20	2 8.7	20.2
363165 2001 SX ₃₀₅	16.5	X	8.12191	21.15580	7.31792	14.84741	0.2866856	0.21246736	2.7814712	20	—	—
363166 2001 SD ₃₄₅	16.1	X	199.66958	200.94861	109.34367	15.40103	0.3168264	0.23559290	2.5963381	20	1 26.1	20.9
363167 2001 ST ₃₅₄	17.0	X	333.64819	338.68813	67.82742	14.71144	0.0766886	0.21001429	2.8030885	20	11 21.5	20.4
363168 2001 TU ₂₇	17.1	X	181.52870	120.33293	221.96899	12.27549	0.3034392	0.23471790	2.6027866	20	2 14.7	22.1
363169 2001 TT ₂₉	16.4	X	95.23551	123.34082	226.46234	10.19960	0.0762317	0.22134570	2.7065870	20	—	—
363170 2001 TJ ₃₀	16.6	X	88.34978	339.19552	22.17240	11.74757	0.0793821	0.22152591	2.7051189	20	—	—
363171 2001 TG ₄₉	16.7	X	133.32044	343.50486	358.24710	7.89227	0.2784057	0.22726249	2.6594034	20	1 14.2	20.9
363172 2001 TN ₈₇	17.1	X	100.29355	101.77992	237.15570	6.41205	0.1396847	0.22184163	2.7025517	20	—	—
363173 2001 TR ₈₇	16.5	X	131.96772	143.26325	217.95957	12.58815	0.2784459	0.22972380	2.6403737	20	1 29.9	21.0
363174 2001 TR ₈₇	16.8	X	176.78231	116.03264	221.90455	11.39680	0.2577618	0.23409247	2.6074206	20	2 5.4	21.6
363175 2001 TZ ₁₀₉	17.5	X	272.34315	6.83819	4.15219	5.36240	0.1738173	0.30266314	2.1969982	20	6 20.8	20.0
363176 2001 TA ₁₂₇	16.6	X	311.56148	119.16599	211.63949	10.58682	0.1386490	0.19626739	2.9324950	20	6 25.7	20.4
363177 2001 TU ₁₂₇	17.1	X	3.72872	236.99473	235.73635	19.53571	0.1246881	0.38115183	1.8839558	20	—	—
363178 2001 TH ₁₃₆	17.7	X	130.96825	143.12417	228.82675	10.89988	0.1585427	0.28370896	2.2937919	20	1 21.8	21.0
363179 2001 TK ₁₄₉	17.5	X	292.48952	309.48581	58.69179	8.05755	0.1709941	0.30583873	2.1817638	20	7 23.9	19.5
363180 2001 TL ₁₅₃	17.1	X	153.25695	174.71086	173.29459	7.74915	0.2095632	0.23081208	2.6320675	20	1 29.4	21.4
363181 2001 TQ ₁₅₃	16.5	X	40.01430	150.33684	227.80646	13.38568	0.1951373	0.21739405	2.7392875	20	—	—
363182 2001 TF ₁₆₃	17.7	X	8.06367	44.07615	348.92187	3.64068	0.2112218	0.21420437	2.7664139	20	—	—
363183 2001 TT ₁₇₆	17.3	X	188.50038	101.32860	227.69143	2.58887	0.2590282	0.23386105	2.6091404	20	2 6.7	21.9
363184 2001 TT ₁₈₂	16.7	X	96.59258	121.92213	259.09054	6.13965	0.2817412	0.22511170	2.6763157	20	1 20.4	20.2
363185 2001 TK ₁₈₄	16.4	X	315.59544	243.66724	218.67139	8.99676	0.1242641	0.21509272	2.7587917	20	—	—
363186 2001 TD ₂₀₉	15.8	X	142.85078	113.46724	215.90788	21.81273	0.3662146	0.22677677	2.6631993	20	1 9.1	20.8
363187 2001 TF ₂₃₂	16.8	X	178.65089	136.15403	223.26554	15.30040	0.2154810	0.23769462	2.5810108	20	2 28.8	21.5

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363201 2001 <i>US</i> ₁₂₄	16.2	X	158.69405	247.93868	100.13615	14.26507	0.2039734	0.23107433	2.6300757	20	2 6.2	20.5
363202 2001 <i>UX</i> ₁₂₅	16.6	X	166.27261	172.45955	169.54822	14.64062	0.2753374	0.23249825	2.6193262	20	2 5.5	21.3
363203 2001 <i>UY</i> ₁₃₂	17.0	X	358.11505	23.12911	14.31379	5.48750	0.1686937	0.21302536	2.7766119	20	12 27.6	20.2
363204 2001 <i>UK</i> ₁₃₅	16.8	X	166.18288	146.26954	198.45731	2.53690	0.3355369	0.23213138	2.6220853	20	2 12.5	21.5
363205 2001 <i>US</i> ₁₅₁	17.1	X	173.22184	132.97451	221.60139	4.39147	0.3672071	0.23410042	2.6073616	20	2 28.1	22.2
363206 2001 <i>UU</i> ₁₅₅	16.6	X	103.02467	118.53798	225.00922	11.58909	0.1561039	0.21997491	2.7178196	20	—	—
363207 2001 <i>UB</i> ₁₆₃	16.4	X	291.81868	199.78780	224.47311	7.86024	0.1810178	0.20342732	2.8632759	20	9 23.3	19.9
363208 2001 <i>UY</i> ₁₆₃	18.2	X	49.88423	284.05443	189.10901	20.06171	0.0595299	0.39110168	1.8518662	20	1 3.5	20.2
363209 2001 <i>UV</i> ₁₇₄	17.9	X	283.86190	182.12477	210.06464	6.50704	0.1178227	0.30573380	2.1822630	20	8 20.3	20.0
363210 2001 <i>UC</i> ₂₁₂	17.5	X	161.13715	209.52207	237.49290	6.37266	0.0689921	0.29524887	2.2336265	20	6 1.3	20.2
363211 2001 <i>UF</i> ₂₁₈	16.8	X	186.84499	86.05760	237.64857	10.91928	0.2891945	0.23189542	2.6238637	20	1 28.7	21.8
363212 2001 <i>UA</i> ₂₂₀	16.9	X	317.51712	43.20323	41.37533	13.86011	0.1784775	0.21091212	2.7951280	20	12 13.5	19.9
363213 2001 <i>UM</i> ₂₂₇	16.6	X	98.38945	310.01100	50.08001	8.83672	0.0949041	0.22351983	2.6890075	20	—	—
363214 2001 <i>UV</i> ₂₂₇	17.3	X	122.06180	349.58495	2.15452	3.22968	0.0781976	0.22530033	2.6748217	20	—	—
363215 2001 <i>UG</i> ₂₂₉	16.8	X	78.81633	224.70347	147.09682	6.80690	0.0302593	0.22236802	2.6982851	20	—	—
363216 2001 <i>VF</i> ₈	16.4	X	142.34582	272.19363	50.72989	12.72362	0.2189543	0.22465450	2.6799455	20	—	—
363217 2001 <i>UT</i> ₅₄	17.6	X	258.46938	7.56562	5.39421	6.04118	0.1860919	0.30039871	2.2080251	20	6 1.8	20.5
363218 2001 <i>VM</i> ₇₅	16.4	X	93.68472	227.75228	232.03039	22.90067	0.3393208	0.28136869	2.3064933	20	5 2.5	19.6
363219 2001 <i>VH</i> ₇₉	17.5	X	268.30629	124.61225	242.00334	5.75015	0.1924606	0.30044805	2.2077834	20	6 5.7	20.2
363220 2001 <i>VO</i> ₈₀	17.3	X	206.38519	187.28540	240.94600	5.59687	0.1343995	0.29862441	2.2167626	20	6 25.9	20.5
363221 2001 <i>VX</i> ₈₁	17.0	X	33.71737	275.41951	239.26296	20.43834	0.3601614	0.27887152	2.3202419	20	3 19.5	18.4
363222 2001 <i>VW</i> ₈₂	16.1	X	353.78461	201.99501	231.66706	17.09782	0.1540274	0.21606273	2.7505284	20	—	—
363223 2001 <i>VO</i> ₁₁₂	18.1	X	284.83576	55.43759	308.43914	2.63258	0.3029017	0.30331565	2.1938462	20	6 5.8	20.6
363224 2001 <i>VE</i> ₁₂₂	16.3	X	162.24886	204.80774	162.79765	15.73492	0.3179838	0.23395388	2.6084502	20	3 7.4	21.0
363225 2001 <i>VD</i> ₁₂₆	16.5	X	237.85459	154.60584	227.23643	9.61441	0.1195417	0.19030863	2.9933929	20	5 30.4	21.1
363226 2001 <i>WQ</i> ₁	18.5	X	351.96590	273.67797	52.68635	2.32868	0.2703830	0.30897308	2.1669836	20	10 19.9	19.4
363227 2001 <i>WY</i> ₃₁	16.7	X	46.99107	325.89815	68.65134	10.58809	0.1439467	0.21731648	2.7399393	20	—	—
363228 2001 <i>WR</i> ₅₄	17.0	X	145.89085	326.88201	12.08414	1.91881	0.2149629	0.22702472	2.6612599	20	1 14.7	21.1
363229 2001 <i>WW</i> ₈₅	15.8	X	176.09545	107.89585	255.30348	28.64387	0.2975142	0.23259967	2.6185648	20	2 25.6	21.2
363230 2001 <i>WX</i> ₁₀₁	16.5	X	13.29971	322.04324	61.47974	8.56285	0.0624541	0.21021456	2.8013080	20	12 16.3	20.3
363231 2001 <i>XH</i> ₁₄	16.0	X	178.02146	68.24645	292.53485	15.61537	0.2011729	0.22950542	2.6420483	20	2 28.2	20.7
363232 2001 <i>XV</i> ₄₇	14.9	X	151.43026	113.12861	307.98420	29.59432	0.2979973	0.23213397	2.6220657	20	4 15.5	20.2
363233 2001 <i>XR</i> ₇₀	16.5	X	47.81379	199.22445	209.87291	11.40127	0.0913519	0.21900890	2.7258056	20	—	—
363234 2001 <i>XU</i> ₁₆₈	17.1	X	104.48764	208.53825	256.92602	3.62034	0.1341275	0.28448057	2.2896423	20	4 23.4	19.9
363235 2001 <i>XC</i> ₂₂₇	17.4	X	280.97074	305.82158	55.39304	5.61565	0.1256638	0.29963001	2.2117999	20	6 27.9	19.8
363236 2001 <i>XQ</i> ₂₆₂	16.9	X	134.93970	113.01198	237.71301	9.82300	0.2650394	0.22640813	2.6660894	20	1 20.6	21.3
363237 2001 <i>YX</i>	16.4	X	196.45965	83.45526	289.32388	27.25197	0.3625574	0.23476291	2.6024540	20	3 19.3	22.0
363238 2001 <i>YY</i> ₃	17.4	X	102.22175	271.01088	83.80374	23.23434	0.0917394	0.37520585	1.9038073	20	—	—
363239 2001 <i>YK</i> ₁₄₉	17.2	X	199.84801	85.35554	342.61152	4.70156	0.1133432	0.29407828	2.2395499	20	6 19.8	20.5
363240 2002 <i>AA</i> ₃₁	17.9	X	63.08134	268.23141	245.11263	1.68823	0.1497517	0.28229146	2.3014642	20	5 4.8	20.1
363241 2002 <i>AO</i> ₁₁₃	18.1	X	130.40721	171.11851	265.90773	2.61181	0.2059147	0.28397960	2.2923343	20	4 24.1	21.4
363242 2002 <i>AB</i> ₁₁₆	18.3	X	95.74999	150.15207	303.65641	4.44547	0.2079847	0.28000866	2.3139559	20	4 5.7	21.2
363243 2002 <i>AD</i> ₁₂₉	17.5	X	93.95305	267.99059	124.22670	22.38425	0.1171912	0.37751195	1.8960462	20	—	—
363244 2002 <i>AE</i> ₁₃₀	17.6	X	321.64046	68.42781	104.47475	22.15119	0.0499610	0.37716543	1.8972073	20	—	—
363245 2002 <i>AS</i> ₁₆₉	16.5	X	25.92706	180.35229	298.23571	8.56022	0.1218861	0.21924410	2.7238557	20	1 14.3	19.3
363246 2002 <i>AH</i> ₁₇₉	17.4	X	49.73986	173.53026	316.72109	7.93045	0.1565201	0.27560237	2.3385541	20	3 3.5	19.4
363247 2002 <i>BW</i> ₄	17.5	X	88.06532	320.83497	93.39386	24.02332	0.0666137	0.37991304	1.8880489	20	—	—
363248 2002 <i>BE</i> ₁₄	17.4	X	253.99705	84.30552	139.08943	24.61836	0.0458720	0.37251568	1.9129620	20	—	—
363249 2002 <i>CS</i> ₄	16.4	X	80.47608	359.31358	145.52701	24.75111	0.2182359	0.28136080	2.3065364	20	6 6.9	19.9
363250 2002 <i>CK</i> ₃₄	15.7	X	227.15033	355.02557	100.72127	9.99092	0.0527051	0.19084647	2.9877663	20	8 31.3	20.1
363251 2002 <i>CZ</i> ₆₈	16.3	X	151.22628	102.60604	88.31018	3.03841	0.3203122	0.19016074	2.9949447	20	10 2.5	21.8
363252 2002 <i>CX</i> ₈₄	17.4	X	183.57842	301.03593	133.42390	4.73304	0.1387958	0.28966569	2.2622365	20	6 10.7	20.7
363253 2002 <i>CS</i> ₁₁₉	16.4	X	189.34224	135.51466	250.06362	2.99581	0.2960419	0.23341191	2.6124864	20	4 13.5	21.1
363254 2002 <i>CB</i> ₁₂₄	17.7	X	59.16341	11.90331	146.53548	2.94135	0.1562603	0.28020844	2.3128559	20	5 8.5	20.0
363255 2002 <i>CA</i> ₁₉₉	18.2	X	25.37276	204.09245	350.21087	2.63514	0.1488720	0.27881595	2.3205502	20	4 24.1	20.0
363256 2002 <i>CT</i> ₂₀₀	17.6	X	16.29274	81.05438	134.58272	3.28001	0.1919684	0.27948825	2.3168274	20	5 14.6	19.1
363257 2002 <i>CT</i> ₂₄₆	18.6	X	79.54498	343.78416	155.52991	9.00275	0.1806276	0.27922960	2.3182579	20	5 19.0	21.5
363258 2002 <i>CW</i> ₂₆₄	18.1	X	72.49922	353.18222	144.21097	6.01813	0.1292335	0.27916023	2.3186419	20	4 26.2	20.6
363259 2002 <i>CX</i> ₂₇₁	16.3	X	237.30898	129.41134	311.75682	9.79906	0.0717959	0.19038730	2.9925683	20	8 17.5	20.7
363260 2002 <i>DY</i> ₅	16.8	X	354.14206	235.33596	286.58023	9.10694	0.0468824	0.27167184	2.3610561	20	1 15.9	19.4
363261 2002 <i>DO</i> ₁₅	17.4	X	115.35481	293.42403	169.18169	5.59824	0.1131280	0.28118322	2.3075075	20	5 3.5	20.4
363262 2002 <i>EK</i> ₂	17.2	X	76.68489	319.68373	171.22176	24.77608	0.2139514	0.27927472	2.3180082	20	5 10.1	20.4
363263 2002 <i>EN</i> ₄	17.8	X	11.60573	45.43235	167.89833	5.48231	0.1746276	0.27703446	2.3304879	20	4 28.5	19.5
363264 2002 <i>EO</i> ₁₆	17.5	X	68.19270	270.48705	238.63003	3.92187	0.1559153	0.27853738	2.3220972	20	5 8.3	20.0
363265 2002 <i>EL</i> ₁₅₀	17.5	X	1.64054	122.88781	99.11158	1.02692	0.1254074	0.27610270	2.3357280	20	4 19.6	19.6
363266 2002 <i>EC</i> ₁₆₀	18.0	X	9.21391	68.57424	151.78258	5.54220	0.1665928	0.27838454	2.3229470	20	5 5.0	19.7
363267 2002 <i>GS</i>	19.9	X	135.86268	264.16213	34.73185	19.76050	0.4037512	0.62645674	1.3527223	20	—	—
363268 2002 <i>GC</i> ₃	15.7	X	177.37491	353.89662	211.13152	21.82144	0.2127814	0.19070821	2.9892102	20	11 6.5	20.9
363269 2002 <i>GD</i> ₄	16.0	X	85.83562	79.05950	148.25425	26.39537	0.2209612	0.17898201	3.1183855	20	9 20.9	21.0
363270 2002 <i>GE</i> ₆	17.1	X	339.31905	2.87919	207.48522	23.43472	0.1795751	0.26875456	2.3781112	20	2 4.4	20.3
363271 2002 <i>GR</i> ₁₂	17.4	X	6.69376	354.83226	196.57488	4.87805	0.1571508	0.27229950	2.3574264	20	3 8.9	19.4
363272 2002 <i>GE</i> ₃												

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363281 2002 GW ₁₅₃	16.2	X	163.09536	52.17523	124.45175	9.43667	0.2108732	0.18506417	3.0496815	20	9 25.8	21.5
363282 2002 GJ ₁₆₀	16.1	X	91.26323	201.35534	19.88026	8.65286	0.1531360	0.18178475	3.0862498	20	9 11.5	20.8
363283 2002 GT ₁₆₉	16.2	X	39.03610	68.33622	219.69352	14.49922	0.2121724	0.17724145	3.1387678	20	10 4.2	20.4
363284 2002 GM ₁₈₁	17.6	X	312.62361	123.55224	128.19802	5.44161	0.1947525	0.26885086	2.3775433	20	2 27.1	20.4
363285 2002 GN ₁₈₁	15.7	X	173.29441	118.90048	32.01099	10.83315	0.0367911	0.18422160	3.0589732	20	9 8.4	20.3
363286 2002 GT ₁₈₄	15.9	X	173.25860	53.63730	124.11160	10.44556	0.1361311	0.18598850	3.0395688	20	10 8.0	20.9
363287 2002 GK ₁₈₅	17.9	X	18.57567	160.58173	26.22965	7.92596	0.0845076	0.27223368	2.3578064	20	3 30.8	20.3
363288 2002 HA ₁₇	16.2	X	120.26022	21.01914	188.01830	9.61202	0.0776326	0.18304814	3.0720327	20	9 16.3	20.9
363289 2002 JU ₃₁	17.1	X	353.23760	43.08711	178.61284	3.38740	0.1287319	0.27123537	2.3635883	20	4 2.2	19.0
363290 2002 JS ₅₇	17.5	X	191.46542	32.97736	235.83318	19.61005	0.0369612	0.36137328	1.9520849	20	—	—
363291 2002 JK ₈₅	15.3	X	28.97934	102.31687	226.21915	12.76454	0.2530713	0.17889793	3.1193625	20	11 19.3	19.2
363292 2002 JY ₈₉	17.7	X	349.25718	54.86066	254.06774	1.05907	0.2450389	0.27940314	2.3172979	20	8 22.9	18.7
363293 2002 JU ₉₅	17.2	X	347.26199	38.39455	262.64743	4.79862	0.2504544	0.27700670	2.3306436	20	7 29.4	18.4
363294 2002 JT ₁₀₆	15.8	X	79.54248	354.30000	258.61995	8.56263	0.2480541	0.17921632	3.1156669	20	10 11.9	20.8
363295 2002 JO ₁₂₀	16.7	X	21.34362	65.79589	123.95387	10.77638	0.1238365	0.27255705	2.3559411	20	4 14.8	19.1
363296 2002 JG ₁₂₃	17.0	X	274.43562	83.98105	56.87397	23.18222	0.0800775	0.35860683	1.9621115	20	—	—
363297 2002 JZ ₁₂₃	15.4	X	54.33651	163.45920	108.27811	11.30703	0.0939902	0.17814747	3.1281167	20	9 24.7	19.9
363298 2002 KL ₃	18.1	X	185.22022	293.33581	73.18055	20.76229	0.7482733	0.36151653	1.9515691	20	4 2.5	23.3
363299 2002 LN ₆	15.2	X	84.12748	169.75608	89.96068	18.95000	0.1644524	0.17869095	3.1217708	20	10 27.5	20.3
363300 2002 LF ₄₀	17.3	X	325.67247	184.53182	119.31655	9.48360	0.2966907	0.27286709	2.3541562	20	5 22.7	19.1
363301 2002 LZ ₆₀	17.3	X	315.70982	46.99655	223.07383	6.25177	0.1531086	0.26961163	2.3730687	20	4 1.5	19.8
363302 2002 ME ₅	16.3	X	225.97842	200.62593	102.87758	17.09590	0.1141921	0.25661954	2.4525031	20	2 8.9	20.6
363303 2002 MX ₆	15.6	X	180.36747	309.11395	274.48950	9.61019	0.1663460	0.18410249	3.0602925	20	11 30.3	20.1
363304 2002 NG ₇	15.8	X	82.23052	53.43182	229.49642	13.97772	0.2412844	0.17490892	3.1666112	20	11 20.1	20.8
363305 2002 NV ₁₆	21.4	X	306.63797	179.21421	183.32292	3.50122	0.2197878	0.71608658	1.2373494	20	—	—
363306 2002 NR ₂₁	15.1	X	119.26804	359.16508	286.08973	17.63427	0.2330122	0.18147237	3.0897906	20	12 22.6	20.5
363307 2002 NP ₂₈	16.7	X	253.97957	332.46130	324.11845	4.43194	0.1903874	0.25981545	2.4323500	20	2 26.2	20.2
363308 2002 NL ₄₉	16.4	X	39.33053	187.79226	120.34410	10.32987	0.2883336	0.17140312	3.2096443	20	11 14.7	20.9
363309 2002 NW ₅₃	17.7	X	271.55322	5.00603	297.18971	0.72908	0.1879961	0.26274762	2.4142201	20	3 15.0	21.1
363310 2002 NK ₆₀	17.4	X	249.42828	164.31752	142.90296	4.82709	0.2269517	0.26005046	2.4308844	20	2 26.9	21.3
363311 2002 NV ₆₃	17.6	X	283.17199	151.96267	101.12263	3.67931	0.1559515	0.25900873	2.4373980	20	1 30.1	21.1
363312 2002 NU ₆₇	17.2	X	69.17462	154.17645	156.55537	13.59845	0.1875409	0.23155784	2.6264132	20	12 16.2	21.5
363313 2002 NU ₇₄	18.1	X	255.65665	162.30093	160.20119	4.33425	0.2355615	0.26178798	2.4201164	20	3 21.6	22.0
363314 2002 NS ₇₇	17.5	X	248.28888	235.03298	75.75073	4.19048	0.2064006	0.25987878	2.4319548	20	3 4.3	21.3
363315 2002 ND ₈₀	15.0	X	164.29345	322.84406	260.58508	26.57809	0.1423512	0.17980300	3.1088857	20	11 16.4	20.3
363316 2002 NX ₈₀	15.9	X	82.62656	115.42561	159.09837	16.31563	0.2280232	0.17578334	3.1561011	20	11 13.5	21.2
363317 2002 OQ ₄	18.4	X	268.18526	77.89832	230.12511	1.16806	0.2848818	0.26195029	2.4191165	20	3 9.1	22.4
363318 2002 OG ₁₈	17.1	X	122.79429	123.31907	161.05092	13.26641	0.2168382	0.23702940	2.5858375	20	12 31.5	21.7
363319 2002 OR ₃₃	18.1	X	308.26993	85.42451	172.54683	6.87341	0.2740968	0.26276410	2.4141191	20	2 15.9	21.3
363320 2002 OV ₃₃	17.1	X	211.36330	215.47881	138.05057	12.14494	0.1813401	0.25827762	2.4419955	20	3 27.5	21.2
363321 2002 PQ ₂	15.8	X	42.91408	164.08649	207.86017	12.63323	0.1543240	0.17863913	3.1223745	20	—	—
363322 2002 PB ₂₅	17.2	X	242.45453	168.28329	144.88243	8.34962	0.2079774	0.25830113	2.4418474	20	2 29.9	21.2
363323 2002 PW ₅₅	15.7	X	100.99587	120.43983	157.89387	22.40160	0.4379769	0.17849814	3.1240184	20	12 12.9	22.0
363324 2002 PZ ₆₄	17.2	X	299.78406	339.56653	257.47756	7.19612	0.1021065	0.25804734	2.4434481	20	2 2.3	20.4
363325 2002 PX ₆₆	17.2	X	100.15522	242.08524	129.93862	9.28339	0.1877202	0.24374564	2.5381161	20	—	—
363326 2002 PF ₁₁₂	17.2	X	253.72160	141.80278	157.34191	14.89266	0.1674684	0.25804738	2.4434479	20	2 24.7	20.9
363327 2002 PO ₁₁₄	18.0	X	318.36742	161.09335	142.38416	7.65312	0.1903768	0.26880505	2.3778134	20	5 25.0	20.4
363328 2002 PY ₁₂₂	15.9	X	117.04776	28.69890	284.96068	9.28222	0.0733270	0.18289964	3.0736954	20	—	—
363329 2002 PC ₁₂₃	17.8	X	204.53192	115.78908	222.24139	5.69353	0.1494632	0.25506141	2.4624809	20	2 25.7	21.8
363330 2002 PQ ₁₄₅	5.5	X	215.71010	310.35060	165.79243	3.07494	0.0407579	0.00336529	44.1016274	20	8 22.1	21.1
363331 2002 PN ₁₅₁	17.6	X	237.51578	204.12130	112.72457	2.30277	0.1884717	0.25837711	2.4413686	20	3 2.1	22.4
363332 2002 PN ₁₅₇	16.1	X	343.66163	303.65021	39.54001	1.21172	0.2692288	0.16488164	3.2937289	20	9 5.6	19.1
363333 2002 PQ ₁₅₇	17.9	X	228.86974	240.59221	106.61518	2.22342	0.2041698	0.25979154	2.4324993	20	3 31.3	21.9
363334 2002 PD ₁₇₄	18.5	X	254.07211	99.47597	207.62646	2.04562	0.1998842	0.25889271	2.4381261	20	3 2.7	22.2
363335 2002 PD ₁₇₈	15.8	X	157.70298	319.28457	276.24089	8.44142	0.0467180	0.17800332	3.1298052	20	11 25.7	20.6
363336 2002 PY ₁₇₈	15.4	X	35.96445	135.82440	254.42492	9.39975	0.0893019	0.17976618	3.1093102	20	—	—
363337 2002 PN ₁₉₀	18.0	X	289.76259	245.11130	10.07007	3.73352	0.2161464	0.25862852	2.4397862	20	2 2.4	21.4
363338 2002 PH ₁₉₂	16.6	X	132.71413	89.33172	180.79511	11.42835	0.1495789	0.23674215	2.5879288	20	12 22.8	21.0
363339 2002 PL ₁₉₂	16.6	X	133.32610	96.54326	173.53250	13.40159	0.1715322	0.23659532	2.5889994	20	12 23.3	21.1
363340 2002 PX ₁₉₇	18.0	X	235.33478	146.29990	183.92976	2.82636	0.1869706	0.25945589	2.4345967	20	3 15.6	21.8
363341 2002 QQ ₁	15.6	X	46.40772	233.29299	135.43004	18.26325	0.1484654	0.17855218	3.1233880	20	—	—
363342 2002 QB ₂	16.1	X	51.47900	75.56934	271.69630	4.10666	0.1619855	0.17610542	3.1522518	20	12 25.4	20.7
363343 2002 QA ₆	14.8	X	92.49453	9.00161	297.94365	29.26558	0.2372303	0.17538729	3.1608506	20	12 28.9	20.2
363344 2002 QC ₇	20.0	X	187.27645	184.43972	336.02723	26.80740	0.1960393	0.77955690	1.1692414	20	—	—
363345 2002 QE ₅₆	18.2	X	201.11034	331.64376	23.90941	2.60375	0.2255375	0.25513393	2.4620143	20	3 17.9	22.4
363346 2002 QG ₆₁	17.3	X	99.06170	225.77692	169.80941	11.34909	0.1161554	0.24524710	2.5277462	20	1 13.4	20.6
363347 2002 QW ₈₀	16.7	X	45.73885	298.68483	134.73683	11.16270	0.0960270	0.24231172	2.5481193	20	—	—
363348 2002 QP ₁₀₁	17.2	X	102.27754	222.66883	177.19542	8.18897	0.1290697	0.24648716	2.5192611	20	1 24.9	20.4
363349 2002 QX ₁₂₉	17.1	X	40.92878	50.19555	246.85334	1.74273	0.3496399	0.16999170	3.2273860	20	11 7.9	21.4
363350 2002 QQ ₁₃₁	17.3	X	284.25943	157.81254	83.52269	2.60083	0.0561597	0.25305292	2.4754936	20	1 29.9	20.6
363351 2002 QY ₁₄₉	16.2	X	66.34851	40.42278	307.43124	7.19527	0.0890100	0.17874780	3.1211088	20	—	—
363352 2002 QK ₁₅₂	16.7	X	92.86432	13.60229	21.33465	5.80771	0.2046015	0.24330411	2.5411858	20	1 20.8	19.7
363353 2002 RM ₂₁	17.2	X	205.01926	342.32761	8.08725	4.84975	0.2020034	0.25435186	2.4670584	20	3 1	

ELEMENTS AND OPPOSITION DATES IN 2020

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363361 2002 RT ₂₅₀	15.6	X	34.34327	74.64278	291.33522	9.48832	0.0835893	0.17689765	3.1428332	20	12 16.9	20.0
363362 2002 SE ₂₁	17.8	X	228.18732	312.98433	14.25876	5.67213	0.2200862	0.25461375	2.4653665	20	3 6.4	21.9
363363 2002 SZ ₄₂	16.3	X	272.03107	203.71053	200.68855	8.01202	0.1686496	0.21274158	2.7790805	20	7 31.3	20.1
363364 2002 SC ₄₄	17.5	X	285.29007	168.18265	164.36835	1.34550	0.1872580	0.26403016	2.4063956	20	5 12.3	20.3
363365 2002 SD ₇₄	17.6	X	303.93501	152.21597	140.02688	2.01891	0.1666619	0.26128494	2.4232216	20	4 16.1	20.4
363366 2002 TT ₁₂	17.7	X	301.75666	231.52760	123.04963	2.77345	0.1925474	0.26881062	2.3777806	20	7 10.1	19.7
363367 2002 TZ ₁₉	17.6	X	17.89403	57.32141	356.55829	3.25990	0.2555039	0.23020277	2.6367099	20	—	—
363368 2002 TJ ₅₂	16.9	X	119.54643	131.64735	231.56125	5.79399	0.3650639	0.23958637	2.5674066	20	1 31.4	21.0
363369 2002 TU ₅₃	16.7	X	207.50883	134.43042	225.73935	11.26467	0.3423479	0.25258707	2.4785365	20	3 23.3	21.5
363370 2002 TR ₁₃₇	15.0	X	55.24325	101.55296	252.84711	12.29844	0.2692176	0.17215706	3.2002665	20	—	—
363371 2002 TM ₁₇₂	15.7	X	23.89570	87.29043	251.15281	11.40857	0.3169109	0.16922704	3.2371008	20	12 1.4	19.7
363372 2002 TN ₁₇₉	16.5	X	265.85041	77.47410	281.68861	9.28014	0.2099597	0.26106188	2.4246017	20	5 19.2	20.1
363373 2002 TB ₁₉₄	16.8	X	78.70600	216.68533	195.92005	14.52337	0.1543291	0.23990333	2.5651447	20	1 10.8	20.1
363374 2002 TV ₂₇₈	16.1	X	299.78981	152.13986	220.58977	11.31904	0.1396749	0.21209519	2.7847240	20	8 1.6	19.7
363375 2002 TA ₃₀₈	16.8	X	340.17692	3.90664	160.68220	9.58752	0.0734630	0.24191166	2.5509279	20	1 2.1	20.1
363376 2002 TO ₃₁₁	17.2	X	257.76243	163.29804	60.55696	11.86164	0.0583953	0.23908715	2.5709792	20	—	—
363377 2002 TZ ₃₅₀	15.6	X	98.56093	53.42574	274.34397	9.19756	0.1088386	0.18055334	3.1002665	20	—	—
363378 2002 TX ₃₆₈	17.2	X	341.21291	162.67909	167.32548	11.26269	0.3440115	0.21628864	2.7486129	20	8 17.9	18.7
363379 2002 TE ₃₇₂	16.5	X	243.62704	82.14267	119.44537	15.41762	0.1354841	0.22914209	2.6448404	20	—	—
363380 2002 TV ₃₇₅	17.0	X	52.61914	187.77148	224.47180	9.59128	0.1152008	0.23648385	2.5898129	20	—	—
363381 2002 TT ₃₈₄	17.5	X	206.43951	260.55664	79.64697	5.79782	0.2266137	0.25173106	2.4841521	20	3 6.1	21.8
363382 2002 UG ₃₈	17.2	X	288.51977	48.04461	277.15730	3.71988	0.2338372	0.26287621	2.4134327	20	4 27.1	20.4
363383 2002 VO ₁₃	17.1	X	40.26144	164.45517	230.59549	9.46674	0.2108635	0.22906173	2.6454589	20	—	—
363384 2002 VZ ₁₂₈	17.4	X	346.87597	200.11570	239.45270	2.02768	0.1175524	0.22627329	2.6671485	20	—	—
363385 2002 WR ₁₀	16.9	X	339.28587	222.57210	226.73233	11.73892	0.1401878	0.22451586	2.6810487	20	—	—
363386 2002 WG ₁₁	16.9	X	38.37986	339.43797	58.94639	11.48029	0.1558368	0.22867875	2.6484118	20	—	—
363387 2002 WO ₂₇	16.5	X	304.04860	66.96545	58.08861	14.12951	0.1352483	0.22403461	2.6848867	20	—	—
363388 2002 XO ₃₀	14.9	X	27.34326	106.34378	272.66332	24.33932	0.2688806	0.16955155	3.2329690	20	—	—
363389 2002 XH ₄₃	17.2	X	130.49224	146.09068	235.69309	11.90568	0.2630458	0.24096832	2.5575811	20	2 18.5	21.5
363390 2002 XK ₅₂	16.0	X	135.46122	125.98781	258.64491	17.07303	0.3101640	0.24205124	2.5499471	20	2 26.9	20.6
363391 2002 XW ₅₆	16.3	X	295.37760	25.70671	89.01545	10.41510	0.2470001	0.21835051	2.7312822	20	12 9.5	18.6
363392 2002 XB ₈₈	15.8	X	85.71783	182.90773	309.82903	10.71886	0.1190513	0.24440021	2.5335822	20	5 1.7	19.3
363393 2002 YY ₉	16.8	X	262.14843	64.38862	92.93599	8.66818	0.1665935	0.21751404	2.7382800	20	12 17.7	19.9
363394 2003 AA ₂₈	16.0	X	131.10687	272.91796	113.91643	15.36370	0.2296683	0.23782838	2.5800429	20	3 2.5	20.2
363395 2003 BC ₇₇	16.7	X	285.07655	53.86074	50.41038	4.85210	0.1699378	0.21353529	2.7721896	20	11 12.2	19.8
363396 2003 BE ₉₃	17.7	X	129.69729	16.32485	45.22307	7.87801	0.0600572	0.29487947	2.2354915	20	3 19.5	20.5
363397 2003 HR ₅₀	15.5	X	351.87404	51.78554	206.12439	14.29424	0.2404289	0.17496710	3.1659092	20	5 24.1	18.7
363398 2003 JC ₃	16.6	X	168.28765	192.30473	37.83790	12.56702	0.0444700	0.20181532	2.8785027	20	12 4.5	20.9
363399 2003 JN ₃	17.6	X	17.01878	225.92378	40.53275	7.13541	0.1533853	0.29685185	2.2255783	20	8 13.6	19.6
363400 2003 KX ₁₃	18.2	X	287.57351	155.37793	69.16109	22.98775	0.0909246	0.39214327	1.8485855	20	—	—
363401 2003 LB ₇	6.7	X	37.69076	158.79239	49.67457	2.29835	0.1345427	0.00316660	45.9276476	20	6 7.4	22.9
363402 2003 MF ₃	15.8	X	100.24083	244.57330	83.45086	15.23599	0.4399041	0.19411613	2.9541212	20	—	—
363403 2003 OY ₇	17.9	X	290.69799	147.13187	192.27096	3.94914	0.2800297	0.28396433	2.2924165	20	5 14.3	20.5
363404 2003 OX ₁₁	17.4	X	191.23969	160.48629	168.67452	24.19938	0.0652701	0.38392838	1.8748617	20	1 11.5	20.1
363405 2003 OL ₁₃	15.2	X	338.75573	236.01297	111.85103	25.28594	0.2103390	0.17636958	3.1491034	20	9 11.6	18.9
363406 2003 OJ ₂₈	17.8	X	342.61522	168.74374	118.29722	5.20599	0.2164238	0.28637911	2.2795117	20	6 19.8	19.2
363407 2003 QY ₁	18.2	X	331.52233	137.02059	163.16046	3.63933	0.3036049	0.28594003	2.2818446	20	5 28.3	19.4
363408 2003 QF ₂₀	17.3	X	239.00561	269.52594	95.22167	2.92363	0.2122051	0.27659083	2.3329792	20	4 30.4	21.0
363409 2003 QP ₂₃	17.4	X	147.07760	107.94069	176.59508	5.24158	0.1010897	0.31130682	2.1561400	20	—	—
363410 2003 QW ₂₈	16.4	X	56.02796	133.43030	209.15429	8.60309	0.3292032	0.18451389	3.0557419	20	—	—
363411 2003 QR ₄₆	17.0	X	48.65696	194.39480	112.90979	10.57066	0.1618769	0.29769476	2.2213752	20	12 1.5	20.0
363412 2003 QX ₄₉	15.4	X	48.72615	156.26264	160.94286	23.27494	0.1638461	0.18085366	3.0968334	20	11 22.5	20.2
363413 2003 QL ₅₈	17.2	X	207.77094	37.84679	351.27900	6.42765	0.2276413	0.27495346	2.3422321	20	4 29.9	21.3
363414 2003 QH ₅₉	17.0	X	188.31124	299.35334	90.41039	3.35305	0.2212521	0.27083950	2.3658909	20	4 18.8	21.0
363415 2003 QP ₆₆	17.8	X	215.70505	48.40307	308.57136	1.55584	0.2426629	0.27304102	2.3531564	20	3 28.5	21.8
363416 2003 QC ₉₉	15.6	X	337.42731	275.33072	115.02664	18.48896	0.2940444	0.17621301	3.1509686	20	11 10.7	18.7
363417 2003 QB ₁₀₁	15.2	X	8.05931	150.91725	163.27908	17.04176	0.1116558	0.17397318	3.1779558	20	9 8.8	18.9
363418 2003 QH ₁₀₆	17.2	X	182.14639	182.06059	195.23669	12.30560	0.2868255	0.26916754	2.3756781	20	3 28.7	21.5
363419 2003 QV ₁₁₀	17.3	X	265.11178	263.30260	99.65501	3.97470	0.2304750	0.28139777	2.3063344	20	5 22.7	20.4
363420 2003 QZ ₁₁₂	15.2	X	305.88903	255.94685	138.44708	27.00736	0.2600662	0.16972949	3.2307090	20	8 23.9	18.8
363421 2003 RG ₈	17.1	X	341.84381	99.72044	213.20995	20.26945	0.3201142	0.28773304	2.2723552	20	7 28.0	18.7
363422 2003 RP ₁₆	15.2	X	65.37789	64.45860	245.87853	12.82242	0.1688398	0.18295716	3.0730510	20	11 29.4	19.6
363423 2003 RM ₂₁	17.2	X	206.25111	176.18278	208.81708	5.64548	0.2408970	0.27420935	2.3464675	20	4 25.7	21.1
363424 2003 RB ₂₃	15.5	X	10.10976	104.03530	249.91924	11.25356	0.2644334	0.18019468	3.1043790	20	11 23.7	19.0
363425 2003 RF ₂₄	15.9	X	354.73707	94.92984	244.04118	4.06956	0.1630786	0.17417063	3.1755534	20	9 20.2	19.5
363426 2003 SH ₁₄	17.9	X	283.76482	232.85007	122.32387	0.95493	0.2603648	0.28256459	2.2999809	20	5 30.1	20.8
363427 2003 SH ₂₃	16.1	X	344.62221	123.25277	221.13288	8.21973	0.1813542	0.17251024	3.1958971	20	9 6.7	19.8
363428 2003 SD ₃₀	17.8	X	157.99256	68.43153	307.80498	1.95294	0.2548632	0.26450736	2.4035004	20	3 8.2	21.8
363429 2003 SR ₃₂	17.6	X	239.72189	201.41128	168.34846	2.56566	0.2152741	0.27640252	2.3340387	20	5 7.1	21.2
363430 2003 SU ₃₃	16.0	X	55.28073	163.88943	165.66761	9.49162	0.1921205	0.18246713	3.0785505	20	12 14.7	20.7
363431 2003 SZ ₃₃	16.0	X	5.68916	302.58312	17.46025	10.28705	0.2328081	0.17370300	3.1812503	20	9 26.3	19.3
363432 2003 SN ₅₉	15.7	X	339.94525	189.63661	167.25639	16.46592	0.2751213	0.17462186	3.1700806	20	9 19.2	18.3
363433 2003 SR ₆₃	17.2	X	280.17858	126.61653	213.82178	5.46498	0.1285134	0.28030661	2.3123158	20	5 25.9	19.9
363434 2003 SN ₇₁												

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363441 2003 SZ ₁₁₅	17.6	X	343.72948	111.13039	241.61128	4.13210	0.1964542	0.29182754	2.2510503	20	10 24.5	19.1
363442 2003 SD ₁₁₆	15.6	X	32.07736	151.23196	174.37059	18.83002	0.0933229	0.17712500	3.1401433	20	10 30.3	20.0
363443 2003 SS ₁₁₈	16.5	X	25.10349	177.17056	156.90826	1.65323	0.1715395	0.17714214	3.1399408	20	11 8.3	20.3
363444 2003 SQ ₁₃₃	15.8	X	30.44649	74.76873	238.47694	8.72340	0.2256686	0.17650279	3.1475188	20	10 26.9	19.9
363445 2003 ST ₁₄₄	15.6	X	348.84853	125.55566	234.80049	13.50424	0.2740157	0.17354776	3.1831471	20	10 13.7	18.7
363446 2003 SF ₁₄₉	17.9	X	255.17646	328.06300	23.03120	1.69728	0.2027809	0.27605616	2.3359906	20	4 28.3	21.4
363447 2003 SQ ₁₅₈	15.6	X	26.94562	174.64485	172.89848	24.41585	0.1859451	0.17941775	3.11133344	20	12 2.5	20.2
363448 2003 SE ₁₅₉	15.7	X	70.70676	81.61121	186.20837	23.85349	0.1224202	0.17728527	3.1382506	20	10 9.5	20.2
363449 2003 SY ₁₆₂	17.3	X	221.50819	174.63254	185.58179	6.47100	0.2121615	0.27123312	2.3636014	20	4 8.7	21.2
363450 2003 SO ₁₇₂	17.3	X	148.55280	161.44669	220.34599	0.39837	0.1956207	0.26348627	2.4097060	20	3 3.0	20.8
363451 2003 SR ₁₇₂	17.5	X	211.84044	341.57799	33.57561	3.29549	0.2037989	0.27299346	2.3534296	20	4 18.9	21.4
363452 2003 SS ₁₇₄	18.2	X	328.69466	291.87162	359.38633	5.00232	0.2311037	0.28263295	2.2996100	20	5 15.3	19.9
363453 2003 SK ₁₇₉	17.1	X	101.53662	276.05914	136.71595	6.10196	0.1170342	0.25939915	2.4349517	20	2 7.9	20.0
363454 2003 SC ₁₈₀	17.0	X	126.62877	124.29351	283.10000	5.56960	0.0865143	0.26294190	2.4130307	20	2 25.9	20.2
363455 2003 SG ₁₉₀	16.5	X	352.57871	119.02141	245.68818	8.64252	0.2245186	0.17523833	3.1626416	20	10 26.2	19.9
363456 2003 SC ₁₉₂	16.2	X	56.00556	52.03088	319.85562	6.84670	0.2636098	0.18570253	3.0426885	20	—	—
363457 2003 SB ₂₀₈	18.2	X	320.99772	103.43577	200.44093	2.77240	0.2120115	0.28035316	2.3120599	20	5 25.3	20.0
363458 2003 SX ₂₁₆	17.6	X	257.00015	324.50627	24.17091	4.70461	0.1641927	0.27525715	2.3405090	20	4 30.9	21.0
363459 2003 SZ ₂₂₇	17.6	X	237.75087	354.26878	341.29425	3.13181	0.1856943	0.27105756	2.3646219	20	3 23.3	21.1
363460 2003 SJ ₂₃₇	17.3	X	264.93289	153.77697	196.34246	4.27576	0.1579024	0.27867269	2.3213455	20	5 14.7	20.3
363461 2003 SN ₂₃₈	16.2	X	14.73662	34.93693	286.53348	3.18805	0.1751430	0.17494029	3.1662327	20	10 4.4	20.0
363462 2003 SE ₂₄₄	16.2	X	349.08915	291.32961	39.50074	0.29037	0.1753964	0.17098308	3.2144897	20	8 31.2	19.5
363463 2003 SC ₂₅₇	16.0	X	330.42498	192.55271	176.45546	8.27799	0.1720779	0.17345073	3.1843341	20	9 16.0	19.6
363464 2003 SX ₂₆₀	16.0	X	1.25962	159.15072	194.82882	11.15316	0.1567015	0.17692654	3.1424911	20	10 25.3	19.7
363465 2003 SR ₂₆₁	15.9	X	29.80050	172.54474	216.60687	13.80578	0.3076987	0.12349898	3.9935623	20	—	—
363466 2003 SH ₂₇₀	16.0	X	28.21152	283.94901	90.26262	8.03582	0.2237098	0.18173537	3.0868089	20	—	—
363467 2003 SC ₂₇₂	17.4	X	6.62713	34.89171	284.08253	5.98239	0.1977787	0.29313604	2.2443465	20	10 16.8	19.5
363468 2003 SE ₂₇₃	17.4	X	242.46862	80.40432	254.47270	6.88650	0.2509813	0.27184383	2.3600601	20	3 19.7	21.5
363469 2003 SG ₂₇₆	18.4	X	90.55093	79.82910	329.40838	1.79929	0.1757320	0.25488947	2.4635882	20	1 28.3	21.1
363470 2003 SJ ₂₇₆	18.0	X	276.69649	61.89627	264.79769	1.35381	0.2326754	0.27655090	2.3332038	20	4 15.1	21.2
363471 2003 SL ₂₈₃	15.9	X	80.65504	46.00596	243.32971	9.19270	0.2182405	0.18289643	3.0737313	20	11 24.9	20.8
363472 2003 SS ₂₈₃	15.3	X	337.84706	109.01143	225.42028	12.69502	0.1200023	0.17038874	3.2223704	20	8 10.1	19.5
363473 2003 SJ ₂₈₄	17.5	X	42.66465	45.98148	231.14584	3.71712	0.2364766	0.29291406	2.2454802	20	10 21.2	20.2
363474 2003 SK ₂₈₅	17.7	X	330.22064	68.84062	229.27861	7.92405	0.1925802	0.28362404	2.2942497	20	6 8.9	19.5
363475 2003 SS ₂₈₅	17.6	X	131.30262	101.87332	288.39049	3.56481	0.2247466	0.26089558	2.4256319	20	2 27.7	21.2
363476 2003 SK ₂₉₀	17.7	X	231.49905	276.47358	64.77006	6.20378	0.2276128	0.27184635	2.3600455	20	3 26.3	21.6
363477 2003 SR ₂₉₈	17.7	X	47.02905	217.72928	201.27550	21.37125	0.0977760	0.36901000	1.9250586	20	—	—
363478 2003 SJ ₃₀₅	17.7	X	239.42831	107.42121	252.27235	5.49705	0.1627412	0.27572387	2.3378670	20	4 26.1	21.2
363479 2003 SS ₃₀₈	17.4	X	310.09817	100.10383	223.35937	21.81116	0.2152123	0.28191442	2.3035158	20	6 2.1	19.8
363480 2003 ST ₃₂₄	16.3	X	5.05706	319.04262	350.53091	3.96062	0.1811934	0.17203645	3.2017622	20	9 3.2	19.8
363481 2003 SE ₃₃₀	16.2	X	15.92855	316.80922	358.48911	9.99954	0.2187167	0.17489941	3.1667260	20	10 4.4	19.8
363482 2003 SE ₃₃₃	16.5	X	66.89314	112.50204	176.04280	7.50059	0.2521860	0.18100803	3.0950725	20	11 16.2	21.4
363483 2003 SB ₃₄₇	17.7	X	96.05829	89.35313	4.80227	3.41496	0.0906400	0.26592865	2.3949290	20	3 22.6	20.3
363484 2003 SF ₃₅₆	15.5	X	23.97678	124.08330	196.05815	9.06701	0.0799793	0.17530084	3.1618897	20	10 6.8	19.7
363485 2003 SE ₃₅₉	16.3	X	307.46919	182.95848	195.58384	5.76523	0.1490509	0.16907776	3.2390058	20	8 18.3	20.5
363486 2003 SV ₃₉₃	16.8	X	223.27038	102.77569	68.93359	6.13149	0.0868125	0.24261800	2.5459744	20	12 27.0	19.9
363487 2003 SF ₃₉₄	17.4	X	341.85316	173.99467	77.38955	6.34937	0.2026117	0.27558680	2.3386422	20	4 19.0	19.3
363488 2003 SV ₄₀₀	16.1	X	331.48685	233.61417	130.40440	12.21332	0.1472935	0.16943878	3.2344033	20	9 15.4	20.0
363489 2003 SJ ₄₂₈	15.8	X	314.91730	146.50961	210.88787	7.46783	0.0549907	0.16918798	3.2375989	20	8 11.3	20.2
363490 2003 SX ₄₃₁	16.4	X	32.25172	92.38697	211.42593	8.96427	0.0965747	0.17562725	3.1579708	20	9 28.3	20.5
363491 2003 TP	17.8	X	310.30200	120.42540	214.62902	24.10804	0.3227430	0.28351027	2.2948635	20	5 30.7	20.2
363492 2003 TJ ₇	15.5	X	349.01517	309.10785	47.63083	17.03466	0.2228984	0.17423630	3.1747555	20	10 15.1	18.9
363493 2003 TQ ₁₁	17.7	X	211.73737	188.86683	209.88160	6.83147	0.2594702	0.27328961	2.3517291	20	5 17.2	21.7
363494 2003 TH ₁₂	16.4	X	85.51959	190.63560	177.12663	4.68366	0.2477460	0.19101697	2.9859882	20	—	—
363495 2003 TW ₂₆	15.8	X	89.12872	31.16518	223.22973	14.50887	0.2383003	0.17631541	3.1497485	20	10 23.1	20.9
363496 2003 TT ₃₉	16.5	X	46.40839	121.87616	217.22436	13.43030	0.1846588	0.18059491	3.0997908	20	12 13.8	21.0
363497 2003 TA ₄₆	15.7	X	135.09513	257.11211	228.92008	9.06629	0.0442291	0.15687771	3.4048284	20	6 18.1	20.8
363498 2003 TD ₅₁	15.3	X	160.37156	338.89819	280.61262	11.75244	0.0247628	0.18430078	3.0580971	20	12 29.8	19.6
363499 2003 TJ ₅₉	17.3	X	114.24301	235.15469	162.86237	7.27653	0.2338496	0.25758272	2.4463855	20	2 21.8	20.5
363500 2003 UH ₃	17.6	X	254.06472	320.27774	222.62682	21.48775	0.0342008	0.36405651	1.9424813	20	—	—
363501 2003 UG ₁₀	15.9	X	36.57842	124.67815	227.09777	26.00225	0.2096446	0.18098144	3.0953756	20	12 18.1	20.5
363502 2003 UG ₁₃	17.4	X	79.66359	194.86039	214.26242	20.86007	0.1059101	0.37077622	1.9189403	20	—	—
363503 2003 UT ₁₅	16.7	X	168.28334	176.26751	218.05264	6.12841	0.1035202	0.26443833	2.4039187	20	3 30.9	20.3
363504 Belleau	17.5	X	142.45760	190.79164	212.71934	5.84731	0.1074075	0.26278986	2.4139614	20	3 14.2	20.8
363505 2003 UC ₂₀	18.1	X	142.87544	59.70034	188.40211	3.80421	0.3368523	1.42740652	0.7812156	20	—	—
363506 2003 UJ ₃₇	14.7	X	302.95130	177.81841	238.17067	19.26973	0.1545277	0.17265073	3.1941632	20	9 24.4	19.0
363507 2003 UE ₄₇	17.1	X	7.20127	351.13513	68.71297	25.04073	0.1156979	0.35931565	1.9595302	20	—	—
363508 2003 UX ₄₇	15.1	X	304.64239	163.90500	227.52983	14.58902	0.1206757	0.17065539	3.2190129	20	8 30.2	19.5
363509 2003 UF ₅₆	16.4	X	49.69934	171.05429	178.21309	11.99002	0.3124353	0.18183896	3.0856364	20	—	—
363510 2003 UY ₆₃	17.3	X	300.16996	245.17096	165.39005	12.69338	0.2710485	0.22929586	2.6436578	20	9 14.1	19.6
363511 2003 UA ₆₄	15.8	X	15.19147	174.12371	168.20105	15.92076	0.2576585	0.17502448	3.1652172	20	11 18.5	19.8
363512 2003 US ₈₀	16.3	X	7.87782	174.48330	185.32936	10.82562	0.2115741	0.17609095	3.1524245	20	11 20.4	20.0
363513 2003 UW ₁₀₀	17.0	X	320.58189	238.69323	222.00851	19.71943	0.0956681	0.3618				

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
363521	2003	<i>UW</i> ₁₇₈	15.9	X	17.17460	113.26929	205.25909	25.28423	0.2830320	0.17365596	3.1818248	20	10 22.5	19.4
363522	2003	<i>UR</i> ₁₈₇	17.0	X	97.15531	149.90604	258.93334	4.77606	0.1786598	0.25504490	2.4625872	20	2 4.9	19.9
363523	2003	<i>UZ</i> ₁₉₈	16.9	X	172.13783	172.54510	227.57100	8.57114	0.2072258	0.26694598	2.3888403	20	4 15.4	20.8
363524	2003	<i>UO</i> ₂₀₁	17.5	X	227.23059	329.67253	14.75131	2.43951	0.2401746	0.26969105	2.3726027	20	3 23.4	21.3
363525	2003	<i>UK</i> ₂₁₁	16.9	X	258.52202	107.59846	231.62944	5.78697	0.1477952	0.27202324	2.3590223	20	4 21.9	20.0
363526	2003	<i>UN</i> ₂₂₅	16.1	X	3.23599	104.37860	231.45363	11.88834	0.1959309	0.17140076	3.2096737	20	10 2.8	19.8
363527	2003	<i>UV</i> ₂₂₆	17.5	X	217.07495	73.06305	269.53314	3.84032	0.2432412	0.26774974	2.3840572	20	3 11.0	21.8
363528	2003	<i>UK</i> ₂₃₅	16.0	X	56.73488	100.30152	211.28329	14.36541	0.1963518	0.17766623	3.1337629	20	11 24.8	20.7
363529	2003	<i>UJ</i> ₂₄₀	17.2	X	131.98808	32.57171	25.24346	1.68191	0.1500285	0.26150267	2.4218763	20	3 28.1	20.6
363530	2003	<i>UN</i> ₂₆₀	17.4	X	186.51674	140.79491	217.71788	3.33459	0.0732840	0.26339050	2.4102901	20	3 3.2	20.7
363531	2003	<i>UH</i> ₂₆₂	17.7	X	212.18556	162.46798	217.84587	1.42144	0.2336077	0.27112302	2.3642412	20	4 24.7	21.6
363532	2003	<i>US</i> ₂₈₃	15.2	X	349.49885	113.67132	244.05546	24.95751	0.2004702	0.17010968	3.2258935	20	9 30.9	19.2
363533	2003	<i>UR</i> ₂₈₇	17.7	X	259.39248	274.81488	44.72806	3.00392	0.1836083	0.27199086	2.3592095	20	3 25.9	21.1
363534	2003	<i>UB</i> ₂₉₀	17.5	X	242.36343	188.15273	151.17263	2.83906	0.2237406	0.27087669	2.3656743	20	3 31.3	21.4
363535	2003	<i>UJ</i> ₃₀₃	16.4	X	32.11890	77.42492	280.32260	8.40181	0.1000375	0.17876013	3.1209653	20	12 6.5	20.7
363536	2003	<i>UQ</i> ₃₁₆	17.2	X	12.38385	112.62358	328.69517	6.73295	0.2419652	0.24339168	2.5405763	20	—	—
363537	2003	<i>UV</i> ₃₁₉	17.1	X	168.54182	235.05642	150.56368	6.66660	0.1424451	0.26509594	2.3999416	20	3 25.2	20.7
363538	2003	<i>UX</i> ₃₂₇	16.6	X	65.14711	94.16049	204.83141	10.24328	0.1292640	0.18129534	3.0918017	20	11 11.4	21.0
363539	2003	<i>UD</i> ₃₂₈	18.0	X	304.16950	86.57193	220.93653	6.14223	0.1367592	0.28066190	2.3103640	20	5 12.5	20.2
363540	2003	<i>UZ</i> ₃₃₀	15.3	X	108.50489	319.82147	226.15919	13.28276	0.1697542	0.17327153	3.1865293	20	8 9.9	20.5
363541	2003	<i>UG</i> ₃₄₉	16.1	X	63.45602	100.72365	183.28937	13.29589	0.1496690	0.17605953	3.1527996	20	10 25.2	20.7
363542	2003	<i>UF</i> ₃₇₂	17.6	X	184.54447	152.64450	211.05296	7.19807	0.1288973	0.26768058	2.3844679	20	3 8.4	21.3
363543	2003	<i>UF</i> ₃₇₈	17.5	X	310.18364	276.80426	11.16155	6.49449	0.1290651	0.27696137	2.3308979	20	4 22.6	19.9
363544	2003	<i>VH</i> ₂	17.7	X	36.08698	174.19591	242.72161	22.04886	0.1022381	0.36440362	1.9412476	20	—	—
363545	2003	<i>VX</i> ₉	17.3	X	318.30590	220.71122	245.12748	19.37831	0.1011001	0.35739168	1.9665565	20	—	—
363546	2003	<i>WA</i> ₄	16.7	X	176.38638	303.57889	74.15320	7.02501	0.1333827	0.26270719	2.4144678	20	3 24.7	20.4
363547	2003	<i>WH</i> ₁₁	17.4	X	206.06459	59.62579	300.55281	4.82288	0.2067871	0.26774080	2.3841103	20	3 23.9	21.4
363548	2003	<i>WA</i> ₁₃	17.4	X	289.70943	291.82576	47.18948	6.50659	0.2870078	0.27774624	2.3265046	20	5 10.4	20.4
363549	2003	<i>WV</i> ₂₄	17.6	X	142.24085	270.99712	57.50596	23.41494	0.0914342	0.36703673	1.9319521	20	—	—
363550	2003	<i>WR</i> ₃₆	15.4	X	23.43835	94.93880	255.59352	13.63066	0.3068626	0.17675554	3.1445176	20	12 15.8	19.4
363551	2003	<i>WV</i> ₃₉	16.5	X	67.77849	89.12304	282.50912	5.26306	0.2136506	0.18609697	3.0383877	20	—	—
363552	2003	<i>WX</i> ₄₉	17.3	X	125.17111	66.55173	322.06654	5.25397	0.1232101	0.25645319	2.4535636	20	2 8.3	20.6
363553	2003	<i>WY</i> ₅₃	15.8	X	85.45314	97.31361	253.74373	9.98883	0.1509304	0.18593991	3.0400984	20	—	—
363554	2003	<i>WT</i> ₆₆	15.4	X	52.29780	106.39479	246.47929	12.71789	0.1360031	0.17837939	3.1254047	20	12 28.9	19.9
363555	2003	<i>WB</i> ₁₀₅	15.6	X	271.46867	276.29306	80.69566	13.06798	0.0984276	0.15573034	3.4215317	20	6 9.4	20.5
363556	2003	<i>WY</i> ₁₀₅	16.7	X	347.46080	58.84203	74.12514	12.58622	0.2514619	0.24327028	2.5414214	20	—	—
363557	2003	<i>WQ</i> ₁₃₉	15.1	X	350.37536	299.99065	75.09367	22.61894	0.3296297	0.17162928	3.068241	20	11 21.0	17.9
363558	2003	<i>WT</i> ₁₄₅	18.0	X	43.08620	172.11916	235.33878	19.66298	0.0841166	0.36340512	1.9448018	20	—	—
363559	2003	<i>WJ</i> ₁₅₀	17.2	X	167.87000	273.94648	110.43163	8.03801	0.1600367	0.26206288	2.4184237	20	3 26.3	21.0
363560	2003	<i>YC</i> ₁	16.7	X	276.47341	301.10206	132.61469	24.58436	0.3164964	0.28558412	2.2837401	20	9 8.6	19.2
363561	2003	<i>YQ</i> ₁₂	17.6	X	61.50407	332.58090	68.36167	23.06220	0.0784272	0.36349308	1.9444881	20	—	—
363562	2003	<i>YQ</i> ₁₂	17.2	X	309.51321	68.69974	50.38618	5.38007	0.3177299	0.23273633	2.6175396	20	—	—
363563	2003	<i>YW</i> ₂₇	16.7	X	68.35316	84.88544	7.46592	7.53278	0.1054720	0.25296420	2.4760724	20	2 14.2	19.5
363564	2003	<i>YD</i> ₁₂₇	17.2	X	315.91292	70.15662	76.24600	13.98378	0.2460247	0.23691634	2.5866602	20	—	—
363565	2003	<i>YD</i> ₁₅₅	16.5	X	341.30567	56.06626	49.64512	12.41308	0.2691941	0.23675320	2.5878483	20	—	—
363566	2003	<i>YD</i> ₁₆₇	16.3	X	229.46151	307.63823	293.42029	12.70268	0.1188213	0.23662521	2.5887813	20	—	—
363567	2004	<i>AH</i> ₈	15.9	X	53.79842	134.76622	287.08636	13.25921	0.3445454	0.18481811	3.0523877	20	1 20.5	18.7
363568	2004	<i>AD</i> ₉	16.3	X	317.23410	275.01721	245.95459	7.56640	0.1375747	0.23732637	2.5836799	20	—	—
363569	2004	<i>AO</i> ₁₀	17.1	X	30.24780	346.64020	126.74054	23.69178	0.0756186	0.36458180	1.9406150	20	—	—
363570	2004	<i>AM</i> ₁₄	16.5	X	12.74454	215.58052	241.31822	11.17648	0.1359928	0.23886440	2.5725773	20	—	—
363571	2004	<i>AO</i> ₂₁	17.4	X	2.77992	180.30182	291.53266	1.63198	0.0130249	0.24029047	2.5623887	20	—	—
363572	2004	<i>BR</i> ₆	15.7	X	27.37104	132.36702	292.67337	20.99967	0.2566309	0.17962324	3.1109595	20	—	—
363573	2004	<i>BB</i> ₉	16.6	X	64.24704	9.36781	32.46964	10.66282	0.2235494	0.24287448	2.5441817	20	—	—
363574	2004	<i>BV</i> ₁₄	16.3	X	299.94760	214.73984	299.14655	13.44418	0.0281199	0.23589927	2.5940897	20	—	—
363575	2004	<i>BO</i> ₂₈	17.2	X	352.19771	119.29646	348.68698	3.54802	0.1811718	0.23726398	2.5841329	20	—	—
363576	2004	<i>BC</i> ₇₃	16.1	X	268.91099	93.59858	130.98207	24.18795	0.2254352	0.23794547	2.5791964	20	—	—
363577	2004	<i>BB</i> ₈₀	17.3	X	304.38899	16.75261	139.37343	4.93712	0.2235176	0.23473587	2.6026539	20	—	—
363578	2004	<i>BA</i> ₈₅	15.9	X	256.97473	278.45025	256.61395	16.67112	0.1592169	0.22660854	2.6645172	20	—	—
363579	2004	<i>BF</i> ₉₄	17.6	X	251.95587	355.09380	147.47007	18.97457	0.1307079	0.34517374	2.0126931	20	12 30.7	19.5
363580	2004	<i>BE</i> ₁₅₉	17.3	X	205.56377	296.94097	349.71580	2.81041	0.2290826	0.23194965	2.6234547	20	1 2.2	21.8
363581	2004	<i>CT</i> ₁	16.7	X	47.29635	304.38424	136.32606	13.28107	0.2842068	0.24359157	2.5391862	20	1 2.0	18.3
363582	2004	Folpotat	17.2	X	241.13464	75.42975	127.75432	5.15327	0.2070750	0.23019076	2.6368016	20	—	—
363583	2004	<i>CP</i> ₁₁	17.4	X	312.99989	263.57870	201.05701	1.54176	0.1834042	0.22941153	2.6427691	20	—	—
363584	2004	<i>CG</i> ₃₆	16.2	X	315.79445	8.51716	138.49964	17.71518	0.1623035	0.23380405	2.6095645	20	—	—
363585	2004	<i>CB</i> ₅₁	16.4	X	248.40066	53.51101	150.67593	32.02230	0.2330838	0.22975694	2.6401197	20	—	—
363586	2004	<i>CL</i> ₆₄	16.9	X	319.40294	85.15592	63.73772	4.40575	0.1769495	0.23586160	2.5943659	20	—	—
363587	2004	<i>CT</i> ₆₉	16.2	X	354.14990	14.78674	233.53071	14.50201	0.1127238	0.23929436	2.5694948	20	—	—
363588	2004	<i>CH</i> ₇₇	16.9	X	265.27918	226.93265	339.20996	3.53440	0.1313712	0.23412044	2.6072129	20	—	—
363589	2004	<i>CV</i> ₉₈	16.7	X	232.59326	205.12400	336.43120	12.999						

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
363601	2004	<i>FP</i> ₈₇	16.4	X	304.12811	118.29170	39.83585	13.63555	0.0983784	0.23111088	2.6297984	20	—	—
363602	2004	<i>FG</i> ₁₁₄	16.8	X	259.71442	61.54150	131.97372	5.34184	0.1316491	0.22729613	2.6591410	20	—	—
363603	2004	<i>FJ</i> ₁₂₈	16.9	X	207.64675	69.39949	199.66884	12.37869	0.2405550	0.22656057	2.6648933	20	—	—
363604	2004	<i>FG</i> ₁₃₄	16.9	X	235.86764	286.58205	268.15124	2.80934	0.2151818	0.22397712	2.6853462	20	12 23.8	20.6
363605	2004	<i>FZ</i> ₁₃₄	16.7	X	256.51869	86.64747	98.87184	13.54900	0.2007202	0.22603360	2.6690337	20	—	—
363606	2004	<i>FA</i> ₁₃₇	16.6	X	221.31651	108.99271	112.50300	13.58596	0.1995074	0.22247088	2.6974533	20	—	—
363607	2004	<i>FX</i> ₁₄₆	16.7	X	259.07301	329.12882	209.41527	15.43003	0.1953947	0.22431497	2.6826491	20	—	—
363608	2004	<i>FS</i> ₁₄₈	16.4	X	256.20752	152.80843	27.84303	13.95904	0.1309770	0.22313743	2.6920788	20	—	—
363609	2004	<i>GO</i> ₁₁	15.9	X	308.48667	16.91761	140.23787	29.66599	0.1127481	0.23154845	2.6264842	20	—	—
363610	2004	<i>HZ</i> ₁₈	16.5	X	196.61450	46.54102	224.78076	8.38419	0.2707852	0.22361878	2.6882142	20	—	—
363611	2004	<i>HU</i> ₂₃	17.1	X	171.35424	42.04272	228.14450	4.38110	0.0708630	0.22154314	2.7049786	20	—	—
363612	2004	<i>HN</i> ₃₆	16.4	X	276.98958	358.48249	156.92657	14.24957	0.2245742	0.22456958	2.6806211	20	—	—
363613	2004	<i>HL</i> ₃₈	16.1	X	176.83186	192.95599	85.23621	15.91937	0.1523542	0.22124967	2.7073701	20	—	—
363614	2004	<i>HJ</i> ₄₈	16.7	X	285.77128	277.78244	231.07898	11.87657	0.2128720	0.22500351	2.6771735	20	—	—
363615	2004	<i>HM</i> ₇₁	16.6	X	125.70874	88.11768	217.17018	11.54046	0.1682220	0.21838628	2.7309840	20	—	—
363616	2004	<i>JC</i> ₄	16.8	X	162.32872	109.84449	134.78022	4.81836	0.0494895	0.21418869	2.7665489	20	12 19.9	20.8
363617	2004	<i>KK</i> ₁₇	18.3	X	45.20658	31.51346	103.68587	41.55409	0.5756402	0.55479422	1.4668356	20	6 15.1	19.1
363618	2004	<i>LX</i> ₂₃	17.0	X	161.12125	149.54233	156.33324	10.16659	0.2580018	0.21836687	2.7311458	20	—	—
363619	2004	<i>OQ</i> ₁₀	16.2	X	147.23551	105.65244	229.88587	18.32622	0.3321009	0.21353041	2.7722319	20	1 17.5	21.4
363620	2004	<i>PG</i> ₅	17.0	X	191.45647	161.48972	170.91055	7.16338	0.2737348	0.22195507	2.7016308	20	2 13.7	21.8
363621	2004	<i>PZ</i> ₇₇	16.0	X	57.95206	70.18211	283.97142	7.15411	0.1700030	0.20057602	2.8903473	20	—	—
363622	2004	<i>PN</i> ₉₁	15.9	X	184.40841	177.28555	184.72522	28.00043	0.2310289	0.21934307	2.7230363	20	3 13.2	20.7
363623	2004	Chelčický	16.1	X	57.97419	108.47622	249.93820	11.14745	0.2182249	0.19958484	2.8999089	20	—	—
363624	2004	<i>QB</i> ₂₉	16.2	X	50.88197	228.38574	92.12220	14.12957	0.0584275	0.18826670	3.0149981	20	11 15.3	20.6
363625	2004	<i>RZ</i>	15.9	X	109.39935	109.41858	238.54790	25.62817	0.2753509	0.20574831	2.8417020	20	—	—
363626	2004	<i>RA</i> ₁₁	18.8	X	88.07011	276.43726	169.73708	39.35532	0.3996642	0.40011438	1.8239515	20	4 12.9	21.1
363627	2004	<i>RK</i> ₃₃	16.1	X	344.58289	270.07863	109.83262	5.13332	0.2201520	0.18970855	2.9997020	20	11 7.6	19.0
363628	2004	<i>RU</i> ₄₁	16.6	X	161.20977	65.66305	275.32467	6.59601	0.3220911	0.21507967	2.7589032	20	2 4.7	21.6
363629	2004	<i>RH</i> ₁₀₄	16.3	X	195.26034	59.64653	225.81402	7.14621	0.1985633	0.21276313	2.7788929	20	—	—
363630	2004	<i>RO</i> ₁₃₉	18.4	X	0.96989	187.97048	147.62748	2.27183	0.2384356	0.31232177	2.1514663	20	11 18.9	20.0
363631	2004	<i>RB</i> ₁₄₈	15.7	X	285.69811	12.23337	21.74841	12.30354	0.1098115	0.18021520	3.1041434	20	8 19.9	20.0
363632	2004	<i>RQ</i> ₁₅₁	16.8	X	45.42556	142.84837	177.39740	9.97903	0.0872159	0.19212193	2.9745282	20	11 11.1	21.0
363633	2004	<i>RT</i> ₁₆₅	16.1	X	153.36808	219.01079	134.01815	17.08480	0.2740671	0.21388856	2.7691364	20	2 12.5	20.8
363634	2004	<i>RA</i> ₁₆₈	16.0	X	212.15650	332.90656	340.05546	9.09597	0.1483128	0.21724798	2.7405152	20	2 9.9	20.5
363635	2004	<i>RX</i> ₁₇₈	15.7	X	331.12684	85.31002	271.90713	8.42288	0.0814157	0.18311461	3.0712892	20	9 2.4	19.7
363636	2004	<i>RJ</i> ₁₈₄	17.8	X	21.94973	7.66896	290.16285	5.90183	0.1883168	0.31117190	2.1567632	20	10 14.1	20.0
363637	2004	<i>RM</i> ₁₈₅	16.7	X	95.04549	4.52449	216.10734	4.09078	0.2008065	0.20015995	2.8943515	20	—	—
363638	2004	<i>RP</i> ₁₈₉	15.8	X	333.30205	104.99025	350.40152	9.04611	0.1907236	0.18162242	3.0880886	20	8 29.7	19.2
363639	2004	<i>RG</i> ₁₉₂	15.7	X	274.54485	33.17632	349.70282	9.31918	0.2614983	0.17426058	3.1744606	20	6 23.3	20.4
363640	2004	<i>RW</i> ₁₉₉	15.0	X	350.41635	116.99220	262.89059	12.39613	0.2126484	0.18470048	3.0536836	20	11 13.9	18.3
363641	2004	<i>RH</i> ₂₀₃	16.8	X	214.65784	39.10578	23.95573	5.26659	0.1714415	0.17098637	3.2148575	20	6 22.3	22.0
363642	2004	<i>RX</i> ₂₀₉	16.0	X	285.46981	170.65522	213.31639	16.96789	0.2179268	0.17928519	3.1148689	20	7 11.1	20.5
363643	2004	<i>RV</i> ₂₁₃	16.5	X	113.57529	83.25887	258.91259	12.30100	0.2610787	0.26824311	2.3811331	20	—	—
363644	2004	<i>RL</i> ₂₁₆	16.1	X	162.64559	103.69584	255.98966	8.46381	0.1906057	0.21617643	2.7495639	20	2 18.0	20.8
363645	2004	<i>RD</i> ₂₂₈	16.8	X	251.04453	185.87477	205.99348	6.1842	0.1416432	0.17048244	3.2211895	20	6 23.1	21.6
363646	2004	<i>RO</i> ₂₂₈	16.0	X	79.63606	63.10070	207.43338	10.60531	0.0642359	0.18476618	3.0529597	20	10 15.4	20.4
363647	2004	<i>RT</i> ₂₄₄	15.9	X	138.71581	171.58007	1.51811	10.60980	0.0633444	0.18121457	3.0927203	20	8 26.1	20.6
363648	2004	<i>RA</i> ₂₅₁	15.7	X	224.40751	210.02337	219.72353	13.50152	0.2266621	0.17091427	3.2157615	20	7 3.3	21.2
363649	2004	<i>RT</i> ₂₅₃	15.4	X	39.68626	314.39237	14.39075	14.83200	0.0894702	0.19212954	2.9744497	20	11 8.2	19.6
363650	2004	<i>RE</i> ₂₅₅	16.1	X	36.68096	252.82932	115.39554	11.96526	0.1857809	0.19518054	2.9433712	20	—	—
363651	2004	<i>RV</i> ₃₁₆	15.9	X	333.74523	158.84349	231.19340	11.79640	0.1389151	0.18721585	3.0262698	20	10 23.5	19.4
363652	2004	<i>RM</i> ₃₂₁	17.7	X	281.11077	138.25249	219.93165	4.93473	0.1770519	0.29959507	2.2119719	20	6 14.1	20.1
363653	2004	<i>RL</i> ₃₂₅	15.1	X	292.43315	170.75367	229.60392	19.79217	0.3094848	0.17546277	3.1599442	20	7 24.4	19.6
363654	2004	<i>SH</i> ₃₃₆	16.1	X	9.31368	141.66729	207.95152	11.44400	0.1370581	0.18608897	3.0384747	20	11 1.6	19.7
363655	2004	<i>RK</i> ₃₃₉	17.6	X	76.90986	215.47837	162.64935	1.63302	0.2098031	0.26532753	2.3985448	20	—	—
363656	2004	<i>RA</i> ₃₄₅	17.5	X	329.12286	297.47260	32.28731	5.54064	0.1366491	0.30512316	2.1851736	20	8 13.3	19.1
363657	2004	<i>SO</i> ₂₄	15.6	X	307.48624	154.41297	205.25137	27.74090	0.1346864	0.17624844	3.1505462	20	7 21.8	20.2
363658	2004	<i>SE</i> ₄₈	15.2	X	335.15999	161.93247	239.81935	13.25862	0.2600206	0.18500506	3.0503311	20	11 14.5	17.9
363659	2004	<i>SH</i> ₄₈	15.8	X	359.31906	111.88370	270.07701	5.08155	0.2802863	0.18634780	3.0356605	20	12 15.5	19.0
363660	2004	<i>SJ</i> ₆₁	18.0	X	281.82186	205.76339	150.74882	4.68719	0.2052384	0.29869612	2.2164078	20	6 8.3	20.6
363661	2004	<i>TL</i> ₅	16.5	X	331.57819	327.85323	42.19579	2.80971	0.0730206	0.18343422	3.0677206	20	9 25.9	20.4
363662	2004	<i>TP</i> ₂₂	15.8	X	285.52319	222.56765	208.53565	8.83864	0.0441740	0.18568159	3.0429173	20	10 9.6	19.8
363663	2004	<i>TC</i> ₂₆	16.0	X	40.22915	75.82632	194.96658	18.22096	0.1316862	0.18082942	3.0971102	20	9 1.2	20.2
363664	2004	<i>TD</i> ₃₁	15.7	X	317.63195	153.69486	221.07277	9.71155	0.0864073	0.18032193	3.1029184	20	9 4.6	19.8
363665	2004	<i>TH</i> ₄₇	17.7	X	206.55400	196.27279	206.06847	5.89414	0.0997117	0.29023525	2.2592759	20	5 24.2	20.8
363666	2004	<i>TE</i> ₄₈	16.1	X	45.86460	121.82527	205.90783	9.87897	0.0829016	0.18749143	3.0233037	20	11 18.1	20.3
363667	2004	<i>TW</i> ₅₃	15.6	X	22.62206	112.86373	213.18017	9.09369	0.0760822	0.18178371	3.0862617	20	10 12.4	19.6
363668	2004	<i>TX</i> ₅₅	15.8	X	298.09680	0.21892	47.75370	10.91623	0.0511415	0.17993845	3.1073254	20	10 1.0	20.0
363669	2004	<i>TX</i>												

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
363681	2004	TY ₁₁₀	17.3	X	213.35391	341.63341	58.79254	6.17536	0.1487065	0.29139610	2.2532717	20	5 25.3	20.5
363682	2004	TA ₁₁₃	16.5	X	165.55993	59.68434	269.86039	7.18626	0.2886905	0.21150325	2.7899175	20	1 24.7	21.4
363683	2004	TQ ₁₂₁	15.7	X	311.91668	207.58186	203.32839	17.15494	0.1078383	0.18536629	3.0463669	20	10 16.3	19.5
363684	2004	TY ₁₂₄	17.8	X	298.97642	234.43831	118.89469	4.76483	0.1873621	0.30223930	2.1990516	20	7 5.9	19.7
363685	2004	TQ ₁₃₂	15.6	X	9.28485	83.01956	259.04882	9.96030	0.1349204	0.18501442	3.0502282	20	10 18.1	19.4
363686	2004	TV ₁₃₂	15.7	X	28.19194	92.44415	240.11423	15.35347	0.1310488	0.18632927	3.0358618	20	11 5.5	19.8
363687	2004	TC ₁₄₃	15.5	X	358.11344	138.77326	225.56646	9.99031	0.1014825	0.18505831	3.0497458	20	10 28.9	19.1
363688	2004	TD ₁₄₈	16.1	X	181.18806	312.32331	214.26218	10.78465	0.0366193	0.18324756	3.0698035	20	9 29.9	20.6
363689	2004	TY ₁₅₇	16.0	X	35.00697	273.01882	28.32109	15.33435	0.1933459	0.18218091	3.0817742	20	10 16.9	20.0
363690	2004	TU ₁₅₈	15.9	X	4.24892	121.88969	227.36425	10.54323	0.0696335	0.18270154	3.0759167	20	10 14.4	20.0
363691	2004	TM ₁₆₁	15.6	X	14.07984	117.87174	218.22766	10.02291	0.0530540	0.18195215	3.0843566	20	10 10.2	19.7
363692	2004	TK ₁₆₃	16.0	X	341.35464	265.81853	94.51220	2.38260	0.1796002	0.18140367	3.0905706	20	9 29.2	19.2
363693	2004	TM ₂₀₃	17.4	X	209.19598	157.50083	223.37975	7.42418	0.2319989	0.28704756	2.2759714	20	4 21.9	21.0
363694	2004	TT ₂₀₇	15.9	X	16.36406	117.21099	220.89401	7.35698	0.1448842	0.18227480	3.0807157	20	10 27.9	19.8
363695	2004	TS ₂₀₈	16.3	X	205.01961	254.02919	226.36355	4.63657	0.0974681	0.17892312	3.1190696	20	8 25.7	21.1
363696	2004	TA ₂₁₅	15.7	X	306.38967	290.74859	131.72797	10.84106	0.0835058	0.18516435	3.0485815	20	10 29.2	19.8
363697	2004	TK ₂₃₈	16.1	X	29.88346	327.55121	20.98219	9.74981	0.1628388	0.18848595	3.0126596	20	12 1.9	20.2
363698	2004	TA ₂₅₇	15.6	X	239.44771	217.23430	211.71378	24.30621	0.0817103	0.17376619	3.1804790	20	7 27.3	20.8
363699	2004	TS ₂₇₂	16.0	X	257.12879	178.77026	241.08487	8.36138	0.0673111	0.17353935	3.1832499	20	8 11.6	20.6
363700	2004	TD ₂₇₈	17.4	X	321.88942	242.67469	55.41707	5.61965	0.1360342	0.29380207	2.2409533	20	5 29.3	19.4
363701	2004	TE ₂₉₁	16.6	X	330.56336	144.61683	205.55195	8.87516	0.0957761	0.17907969	3.1172513	20	8 23.4	20.6
363702	2004	TY ₃₀₇	15.7	X	311.94644	108.92803	281.01096	7.73316	0.1898529	0.18067916	3.0988271	20	9 4.9	19.4
363703	2004	TE ₃₁₄	18.1	X	24.80548	354.59546	306.77747	2.69023	0.1739302	0.30916699	2.1660774	20	10 23.1	20.3
363704	2004	TG ₃₃₃	15.3	X	12.62981	263.54770	43.33048	11.27609	0.0501805	0.17552642	3.1591801	20	9 7.1	19.7
363705	2004	TT ₃₃₃	15.6	X	39.58420	121.10302	220.38140	7.22091	0.1457694	0.18777772	3.0202300	20	12 5.4	19.8
363706	2004	TW ₃₄₅	15.8	X	343.17701	156.75863	234.72163	12.95248	0.2063696	0.18578474	3.0417909	20	11 16.1	19.0
363707	2004	TC ₃₅₁	16.6	X	38.59796	135.26168	110.83421	9.02199	0.1303950	0.18797774	3.0180871	20	12 7.7	20.8
363708	2004	TD ₃₅₇	15.7	X	346.05267	283.18939	98.02563	11.45952	0.1158735	0.18699409	3.0286619	20	11 7.2	19.5
363709	2004	TE ₃₅₇	15.6	X	266.02931	321.60213	65.18563	15.48450	0.1932423	0.17265766	3.1940777	20	6 26.6	20.4
363710	2004	TL ₃₆₀	17.0	X	218.44600	157.63068	237.08438	6.01084	0.1145850	0.29153075	2.2525778	20	5 25.7	20.0
363711	2004	UP ₅	15.7	X	315.82198	135.11292	241.98761	10.87595	0.1209209	0.17905874	3.1174945	20	8 31.0	19.7
363712	2004	VO ₁	14.9	X	269.99616	190.86205	230.92322	26.76053	0.1371204	0.17446837	3.1719397	20	8 12.9	19.9
363713	2004	VC ₆	15.6	X	270.12243	343.10232	61.76227	11.41024	0.1099829	0.17308868	3.1887730	20	8 10.5	20.2
363714	2004	VT ₁₆	18.4	X	4.07257	68.21680	260.97468	4.33428	0.3813056	0.30958239	2.1641393	20	12 9.1	20.4
363715	2004	VY ₂₀	15.5	X	335.73212	171.55308	228.37471	11.63473	0.0830600	0.18582087	3.0413966	20	11 9.0	19.2
363716	2004	VL ₂₂	15.8	X	293.24030	334.34169	53.34968	12.10658	0.2439840	0.17373134	3.1809042	20	7 30.1	20.0
363717	2004	VK ₃₀	16.5	X	3.19610	163.65807	213.23578	8.70411	0.1429582	0.18630640	3.0361102	20	11 27.7	20.1
363718	2004	VT ₃₇	17.7	X	337.69095	65.86117	234.23498	3.33691	0.1798185	0.29679979	2.2258385	20	7 3.7	19.0
363719	2004	VW ₄₇	15.2	X	12.48707	273.03682	78.80720	11.50603	0.2037144	0.18387695	3.0627945	20	11 19.1	18.8
363720	2004	VV ₅₆	17.7	X	241.31771	10.20486	357.10083	3.37186	0.1958657	0.29086227	2.2560278	20	5 5.0	21.0
363721	2004	VF ₅₈	15.8	X	305.68343	143.38552	259.00511	7.34813	0.1393202	0.17979994	3.1089210	20	9 16.7	19.8
363722	2004	VY ₅₉	17.6	X	260.94637	106.57876	266.88519	4.86203	0.1852841	0.29447498	2.2375381	20	6 6.9	20.5
363723	2004	VF ₆₀	15.5	X	279.03260	299.03761	122.72063	23.08609	0.1570214	0.17814950	3.1280930	20	9 7.3	19.9
363724	2004	VP ₆₄	15.6	X	320.72873	157.08754	235.70619	11.93203	0.2681389	0.17975918	3.1093909	20	9 17.3	18.9
363725	2004	VC ₇₂	15.8	X	245.98203	353.54550	60.09128	6.15340	0.1454386	0.16866489	3.2442894	20	7 15.2	20.7
363726	2004	VM ₁₃₀	15.6	X	296.93209	176.04361	239.04399	9.96196	0.0899521	0.17836712	3.1255481	20	9 25.2	19.9
363727	2004	WS ₁	18.1	X	291.51852	133.16685	244.93207	2.91945	0.1368468	0.29960956	2.2119006	20	8 9.2	20.0
363728	2004	XC ₄	17.3	X	157.75903	340.61970	94.72278	8.12961	0.0908114	0.28391192	2.2926986	20	5 15.2	20.5
363729	2004	XH ₁₇	15.3	X	0.90668	163.62743	277.44392	9.97434	0.0654829	0.18944400	3.0024939	20	—	—
363730	2004	XN ₁₉	17.0	X	254.25155	139.38142	244.24307	6.81674	0.1407771	0.29227271	2.2487640	20	6 19.3	20.0
363731	2004	XF ₃₉	16.2	X	256.39320	236.76193	203.25720	16.95295	0.2359048	0.17379215	3.1801622	20	8 11.8	21.3
363732	2004	XH ₄₇	17.6	X	55.14588	174.56629	320.92077	4.75885	0.1576634	0.27043186	2.3682678	20	3 23.8	19.8
363733	2004	XM ₄₉	17.1	X	122.62614	163.91599	278.89174	6.34681	0.1580683	0.27713934	2.3298999	20	4 16.4	20.4
363734	2004	XN ₅₀	18.8	X	52.03533	253.35254	62.44863	3.31344	0.7784983	0.45203369	1.6814689	20	—	—
363735	2004	XC ₆₆	15.9	X	3.52735	277.51530	103.24032	14.59819	0.2408419	0.18324517	3.0698302	20	12 15.7	19.4
363736	2004	XH ₆₆	18.3	X	65.37289	90.35951	30.51543	1.58095	0.1305401	0.27153255	2.3618634	20	3 19.3	20.7
363737	2004	XR ₇₆	17.1	X	180.48450	8.78714	57.47789	5.83003	0.1207806	0.28646937	2.2790328	20	5 26.5	20.4
363738	2004	XT ₇₇	17.5	X	151.76489	172.29750	266.40114	4.14629	0.1932204	0.28212943	2.3023453	20	5 16.4	21.1
363739	2004	XF ₈₁	17.3	X	194.17524	186.66058	213.05249	1.91536	0.1581041	0.28333207	2.2958256	20	5 5.2	20.7
363740	2004	XG ₉₅	18.1	X	119.59820	235.51496	180.13570	1.71472	0.2767249	0.27259886	2.3557003	20	3 25.6	21.5
363741	2004	XA ₉₆	15.3	X	336.54970	287.78976	91.28739	25.16579	0.3362576	0.17891025	3.1192192	20	10 31.2	18.3
363742	2004	XO ₉₇	17.8	X	65.31469	17.83324	72.94830	6.17360	0.2052389	0.26568132	2.3964150	20	2 18.2	20.0
363743	2004	XW ₁₂₁	17.4	X	156.84820	23.97640	10.57495	1.90169	0.2370683	0.27766384	2.3269649	20	3 28.7	21.2
363744	2004	XU ₁₂₆	17.1	X	152.30190	0.41450	91.10259	3.14913	0.0995145	0.28329526	2.2960245	20	5 29.7	20.3
363745	2004	XN ₁₆₉	17.7	X	199.45594	359.61441	43.97996	5.50165	0.0957544	0.28523601	2.2855978	20	5 16.7	20.9
363746	2004	YW	15.2	X	213.37161	189.48680	319.41128	24.48608	0.4674909	0.17003732	3.2268087	20	9 5.1	21.6
363747	2004	YR ₆	17.2	X	106.58748	226.72905	238.58162	6.89321	0.0487883	0.28000968	2.3139503	20	4 12.1	20.0
363748	2005	AF	18.2	X	164.23042	185.37601	213.89711	2.47215	0.2384833	0.27776461	2.3264021	20	4 9.4	22.1
363749	2005	AS ₁₁	17.7	X	137.02554	356.72051	55.94628	3.25374	0.1909851	0.27366849	2.3495581	20	3	

ELEMENTS AND OPPOSITION DATES IN 2020

ECLIPTIC AND EQUINOX 2000.0, EPOCH 2020 MAY 31.0 TT

Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>		
363761	2005	CF ₃₇	17.2	X	340.40928	174.24498	35.51670	3.10777	0.1537618	0.26373446	2.4081940	20	2 19.4	19.7
363762	2005	CQ ₇₆	16.5	X	76.45483	189.17750	247.74666	9.93712	0.1341113	0.26252342	2.4155944	20	1 31.8	19.4
363763	2005	EF ₁₅	17.7	X	19.37233	2.39084	154.30419	5.95748	0.1552973	0.261110702	2.4243222	20	2 14.1	19.7
363764	2005	EA ₂₂	17.5	X	313.88596	91.20365	139.08123	1.49365	0.1020077	0.26085838	2.4258625	20	2 14.4	20.3
363765	2005	EP ₄₃	17.2	X	328.36975	73.55481	155.29240	4.54941	0.1177383	0.26243970	2.4161081	20	3 2.3	19.6
363766	2005	ED ₇₈	17.2	X	302.38601	223.75388	339.27895	8.00086	0.1096611	0.25403503	2.4691092	20	—	—
363767	2005	EZ ₈₅	17.0	X	313.16975	154.35124	85.88286	2.57984	0.1288680	0.26078740	2.4263027	20	2 23.8	19.8
363768	2005	EW ₁₂₂	17.5	X	113.75522	288.43700	164.39212	5.67037	0.2191557	0.27091371	2.3654588	20	5 2.3	20.9
363769	2005	EZ ₁₂₃	17.4	X	303.89591	152.90793	86.20588	2.57072	0.1474194	0.25786579	2.4445949	20	2 6.9	20.5
363770	2005	EJ ₁₄₁	17.4	X	183.65238	7.65767	6.91930	1.22001	0.2029380	0.27197984	2.3592732	20	3 25.2	21.2
363771	2005	EX ₁₄₃	18.0	X	276.15383	234.12163	21.43814	2.54496	0.1791381	0.25489834	2.4635311	20	1 24.1	21.6
363772	2005	EE ₁₄₆	17.1	X	304.65470	90.97518	172.66325	10.81491	0.1767097	0.26073220	2.4266451	20	3 5.3	20.1
363773	2005	EY ₁₆₇	17.3	X	64.96447	294.52531	193.23544	2.31386	0.0521317	0.26273462	2.4142997	20	3 17.9	20.1
363774	2005	EK ₁₇₄	16.6	X	109.22649	82.52259	190.92396	12.61197	0.2270014	0.22683587	2.6627367	20	12 8.1	21.3
363775	2005	ER ₂₀₅	17.6	X	338.47656	191.63527	9.81579	2.36718	0.1615316	0.26261392	2.4150394	20	2 2.6	20.0
363776	2005	EO ₂₄₉	17.8	X	337.32920	313.77639	247.11314	2.38922	0.1626580	0.26194973	2.4191200	20	1 29.2	20.5
363777	2005	EE ₂₉₀	16.3	X	63.54490	87.36866	206.12308	8.77919	0.0793627	0.22299761	2.6932040	20	11 3.6	20.0
363778	2005	ER ₃₀₆	18.3	X	320.65387	70.91935	160.25316	6.88150	0.0784913	0.26346697	2.4098237	20	2 28.4	21.2
363779	2005	GF ₃₁	16.9	X	270.22589	83.89167	112.32811	5.15432	0.0857384	0.24455048	2.5325442	20	—	—
363780	2005	GE ₆₇	17.7	X	45.48538	289.19264	203.03730	1.96234	0.1407272	0.25853750	2.4403588	20	3 1.4	20.1
363781	2005	GW ₈₇	16.4	X	352.87049	216.34828	212.54371	31.12325	0.1486911	0.23279998	2.6170625	20	—	—
363782	2005	GO ₈₈	16.6	X	72.76255	80.06238	330.92220	1.04173	0.1283655	0.24672170	2.5176643	20	—	—
363783	2005	GU ₁₀₇	18.1	X	11.26748	313.30110	189.35042	4.54310	0.1215721	0.25402039	2.4692042	20	1 12.2	20.6
363784	2005	GN ₁₃₁	17.8	X	263.75545	208.43944	93.56568	2.78669	0.1882290	0.25695529	2.4503663	20	3 8.9	21.5
363785	2005	GK ₁₉₁	18.5	X	4.52165	288.42017	198.17833	2.58529	0.1558886	0.25418402	2.4681443	20	—	—
363786	2005	HR ₉	17.8	X	328.80908	259.01344	299.90967	0.44540	0.1346984	0.25545204	2.4599700	20	1 20.1	20.8
363787	2005	JP ₅	17.1	X	323.01086	31.55105	84.13595	23.74458	0.1039969	0.36695564	1.9322367	20	—	—
363788	2005	JA ₁₉	17.3	X	276.83656	169.52203	48.94460	1.78689	0.0392937	0.24523230	2.5278478	20	—	—
363789	2005	JO ₂₉	17.5	X	255.66350	103.88308	172.19249	23.86094	0.0619738	0.36373978	1.9436088	20	—	—
363790	2005	JE ₄₆	17.7	X	209.96056	114.70528	238.37488	8.26946	0.0552298	0.37540145	1.9031459	20	3 10.2	22.0
363791	2005	JP ₇₄	17.6	X	229.28206	40.90463	210.63995	5.18683	0.0666089	0.24138139	2.5546625	20	—	—
363792	2005	JN ₁₂₁	19.2	X	142.98946	220.80113	95.02726	4.48750	0.2174091	0.36387601	1.9431236	20	—	—
363793	2005	JL ₁₃₀	16.1	X	56.75799	202.86033	218.73924	15.56217	0.0187525	0.24224497	2.5485874	20	—	—
363794	2005	JV ₁₃₂	17.5	X	281.02253	23.92052	209.49050	11.62444	0.1095218	0.24708318	2.5152081	20	1 7.5	21.3
363795	2005	JC ₁₃₅	17.4	X	301.95035	164.09376	124.09328	3.46230	0.1672980	0.25838075	2.4413457	20	4 8.4	20.4
363796	2005	JD ₁₄₆	16.1	X	209.22251	138.64857	192.77230	15.16730	0.2038883	0.24604698	2.5222649	20	2 21.5	20.5
363797	2005	KN ₃	17.3	X	294.76578	149.14374	55.16734	14.53148	0.0108154	0.24636839	2.5200707	20	1 2.1	20.8
363798	2005	KO ₄	17.1	X	254.56425	175.26415	74.77860	11.10980	0.1333093	0.24527260	2.5275710	20	—	—
363799	2005	LX ₁₀	16.8	X	95.62426	65.03536	196.06270	10.08039	0.1902433	0.21650380	2.7467916	20	11 9.3	21.2
363800	2005	LC ₁₂	16.4	X	249.20891	323.46891	271.65444	5.13779	0.1491018	0.23683094	2.5872820	20	—	—
363801	2005	LE ₁₂	17.3	X	295.95775	318.05008	215.15694	12.20754	0.1201261	0.24016250	2.5632989	20	—	—
363802	2005	LT ₁₂	17.3	X	255.72417	56.56039	213.72632	21.42653	0.2745863	0.37525248	1.9036496	20	—	—
363803	2005	LG ₁₃	17.2	X	203.52211	208.44490	104.11396	7.55547	0.0517246	0.24600003	2.5225858	20	1 27.5	20.7
363804	2005	LO ₁₅	17.1	X	256.35380	149.84208	109.29964	17.60854	0.2013239	0.24184151	2.5514212	20	1 9.2	21.3
363805	2005	LD ₁₈	16.7	X	188.30955	167.12595	179.91828	4.54116	0.3184672	0.24311794	2.5424829	20	2 28.1	21.5
363806	2005	LK ₁₉	16.9	X	282.76780	54.57249	153.91424	5.83791	0.2255752	0.24370507	2.5383977	20	—	—
363807	2005	LH ₂₂	16.9	X	304.67635	329.96108	215.11233	9.97310	0.1235866	0.24508733	2.5288446	20	—	—
363808	2005	LC ₃₇	16.8	X	201.39872	215.20786	103.23781	18.22290	0.2476663	0.23837005	2.5761328	20	2 6.0	21.5
363809	2005	MG ₁₇	16.7	X	245.01328	287.11952	296.55999	12.10130	0.2205430	0.23360772	2.6110263	20	—	—
363810	2005	MN ₂₉	16.5	X	143.84556	218.77642	142.07483	15.02146	0.1999926	0.23203251	2.6228301	20	2 5.2	20.5
363811	2005	MN ₃₀	17.0	X	131.00898	219.27957	141.63131	13.78820	0.1461704	0.23066706	2.6331706	20	1 17.1	20.8
363812	2005	MY ₅₄	17.0	X	188.12591	21.42647	272.42548	6.24121	0.1863648	0.23139098	2.6276757	20	—	—
363813	2005	NC ₃	16.9	X	127.26884	53.54734	186.00262	9.91461	0.1515550	0.21957901	2.7210854	20	11 10.7	21.3
363814	2005	ND ₇	17.9	X	126.02851	241.46174	110.09109	52.58625	0.4823118	0.35805935	1.9641110	20	1 21.6	20.6
363815	2005	NY ₂₈	16.1	X	23.25061	305.31598	134.77508	22.51771	0.0474402	0.22624856	2.6673428	20	—	—
363816	2005	NY ₃₈	17.5	X	151.17534	120.87417	190.47882	5.46603	0.2120056	0.22758413	2.6568971	20	—	—
363817	2005	NZ ₃₈	15.8	X	99.16442	144.82429	233.47223	12.57331	0.2655610	0.22262157	2.6962359	20	1 16.2	19.5
363818	2005	NA ₄₃	17.2	X	186.94270	79.41014	235.89083	3.83790	0.2299242	0.23456230	2.6039376	20	1 19.8	21.8
363819	2005	NF ₅₀	15.7	X	206.79227	205.20399	137.05550	10.06571	0.0989994	0.17737970	3.1371367	20	3 15.8	20.6
363820	2005	NT ₅₀	16.4	X	243.70281	103.49617	133.53608	14.98457	0.0402494	0.23212134	2.6221609	20	—	—
363821	2005	NG ₅₃	17.4	X	194.58568	93.05668	220.11877	2.78762	0.1815207	0.23600261	2.5933324	20	1 22.0	21.6
363822	2005	NG ₆₈	16.8	X	173.63485	213.00712	120.95449	13.07189	0.2117591	0.23413571	2.6070995	20	1 31.7	21.2
363823	2005	ND ₈₄	17.3	X	124.97672	180.51783	167.67466	2.16953	0.1475915	0.22721985	2.6597360	20	—	—
363824	2005	NB ₉₅	16.7	X	220.97321	140.85561	131.85523	13.89110	0.0780916	0.23366741	2.6105817	20	—	—
363825	2005	NJ ₁₂₅	16.4	X	166.93877	221.77587	118.95863	13.84364	0.2028316	0.23254155	2.6190010	20	2 3.0	20.6
363826	2005	ON ₇	16.4	X	139.59204	238.34901	114.05715	14.96326	0.2117789	0.22891732	2.6465714	20	1 24.2	20.4
363827	2005	OU ₂₇	18.0	X	141.16459	246.90885	59.35560	2.11245	0.2509113	0.29018286	2.2595478	20	—	—
363828	2005	OV ₂₇	16.8	X	161.18886	262.32012	65.06758	12.68151	0.2769817	0.22847352	2.6499975	20	1 19.9	21.5
363829	2005	PQ ₆	16.1	X	177.96913	239.32480	116.02406	31.63446	0.3775088	0.23514228	2.5996541	20	3 11.5	21.5
363830	2005	PY ₁₃	16.6	X	65.36585	244.85544	108.52152	7.10840	0.2125942	0.21443408	2.7644380	20	—	—

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363841 2005 QP ₂₀	16.8	X	184.18356	287.93044	7.12918	5.12908	0.2735921	0.22903898	2.6456341	20	—	—
363842 2005 QM ₃₈	17.2	X	187.39193	313.41568	338.61073	2.03566	0.2001767	0.22945977	2.6423987	20	—	—
363843 2005 QC ₅₄	16.3	X	153.25020	181.48682	155.47015	14.06166	0.0951446	0.22875238	2.6478434	20	1 6.6	20.3
363844 2005 QG ₆₅	16.9	X	120.51716	257.50027	98.78516	4.47572	0.1058882	0.22340609	2.6899201	20	—	—
363845 2005 QN ₆₆	16.4	X	129.86287	180.20391	181.79710	14.35444	0.2609012	0.22599933	2.6693034	20	1 29.1	20.8
363846 2005 QT ₆₈	16.3	X	157.74982	226.38369	125.22187	14.27959	0.1713896	0.23204141	2.6227630	20	2 5.6	20.3
363847 2005 QN ₈₃	15.6	X	210.16761	174.95023	183.98980	13.08114	0.1400630	0.17372440	3.1809890	20	4 4.9	20.6
363848 2005 QE ₈₉	16.3	X	100.16492	109.27465	245.47203	11.86801	0.1839747	0.22437030	2.6822081	20	—	—
363849 2005 QJ ₉₃	17.0	X	130.12011	305.39183	1.10379	9.16125	0.1637754	0.21938664	2.7226758	20	—	—
363850 2005 QJ ₁₁₅	16.7	X	206.79640	117.26820	175.72116	11.52081	0.1987968	0.23027404	2.6361659	20	1 8.9	21.4
363851 2005 QW ₁₂₁	16.9	X	110.89293	109.16663	183.75956	4.14002	0.0400941	0.21236245	2.7823872	20	12 20.7	20.9
363852 2005 QX ₁₂₄	16.8	X	52.04851	187.38833	153.66412	6.02894	0.0452865	0.20943890	2.8082201	20	12 11.4	20.7
363853 2005 QX ₁₂₇	16.8	X	193.72481	172.66086	28.06866	4.11694	0.0382874	0.21004746	2.8027934	20	12 1.3	20.7
363854 2005 QZ ₁₄₀	16.5	X	37.35858	205.04992	166.86008	7.69161	0.1067595	0.21140613	2.7907718	20	—	—
363855 2005 QN ₁₄₁	16.6	X	130.41732	321.94774	2.49303	13.40034	0.2108969	0.22416683	2.6838309	20	—	—
363856 2005 QF ₁₄₆	16.6	X	207.13736	184.84183	116.87458	11.84793	0.1901944	0.23563907	2.5959990	20	1 19.9	21.0
363857 2005 QG ₁₄₉	17.3	X	110.82465	104.62497	229.56866	7.60439	0.2566091	0.22145833	2.7066920	20	—	—
363858 2005 RD ₃	16.6	X	179.30329	312.15844	354.43143	12.99184	0.2138039	0.23015676	2.6370613	20	1 6.7	21.2
363859 2005 RK ₁₂	17.3	X	92.47757	174.04296	158.49536	4.55992	0.1102580	0.21633553	2.7482157	20	—	—
363860 2005 RB ₂₀	17.3	X	107.19850	318.32297	6.83073	4.73966	0.1663597	0.21677576	2.7444937	20	—	—
363861 2005 RQ ₂₀	16.8	X	185.98476	124.18741	194.35804	12.01495	0.1908392	0.23011295	2.6373960	20	1 20.4	21.4
363862 2005 RF ₂₃	16.5	X	121.01605	133.56888	222.02756	8.30356	0.3611608	0.22482954	2.6785544	20	1 24.4	20.9
363863 2005 RW ₂₃	16.1	X	142.28779	124.71596	214.98168	13.61895	0.2636635	0.22404307	2.6848191	20	1 13.9	20.7
363864 2005 RT ₂₄	16.6	X	144.07345	286.02299	84.44333	8.83130	0.4742128	0.22753875	2.6572504	20	3 11.6	21.9
363865 2005 RL ₃₂	15.9	X	146.27492	125.16323	235.18137	12.20641	0.3601487	0.22522446	2.6754223	20	2 15.0	20.9
363866 2005 RD ₄₈	16.7	X	139.14502	258.71394	41.56388	12.49412	0.0804433	0.21510878	2.7586543	20	—	—
363867 2005 RO ₅₁	16.4	X	259.46018	154.06537	179.65491	11.14910	0.1228648	0.18082666	3.0971417	20	4 25.8	21.0
363868 2005 RB ₅₂	15.1	X	194.77134	123.81697	244.86754	15.66338	0.1577999	0.17149604	3.2084848	20	3 27.5	20.6
363869 2005 SK ₁₇	15.8	X	259.07899	135.40103	189.45065	9.20085	0.0837045	0.17559074	3.1584085	20	4 18.4	20.4
363870 2005 SE ₂₅	16.3	X	143.14566	188.70978	185.63397	9.10088	0.3424428	0.22749049	2.6576261	20	3 2.2	20.9
363871 2005 SO ₂₇	16.5	X	109.35487	89.51011	258.87781	3.76539	0.1707936	0.21868479	2.7284981	20	—	—
363872 2005 SU ₂₉	16.6	X	102.27151	97.47741	204.88449	13.17128	0.0865867	0.20923612	2.8100342	20	12 23.9	21.1
363873 2005 SG ₃₇	16.8	X	164.05966	144.30727	185.64619	17.10219	0.1653039	0.22685171	2.6626128	20	1 13.8	21.3
363874 2005 SG ₃₉	17.0	X	110.60000	138.56562	195.21617	3.47301	0.1843449	0.21708122	2.7419185	20	—	—
363875 2005 SF ₄₄	16.9	X	133.04530	85.47461	238.91469	3.72059	0.1252074	0.21821122	2.7324444	20	—	—
363876 2005 SA ₄₉	16.8	X	189.50448	92.42110	200.15324	13.46207	0.0939499	0.22205209	2.7008438	20	—	—
363877 2005 SR ₄₉	16.6	X	90.66179	166.97892	190.95078	2.56615	0.0960919	0.21460253	2.7629911	20	—	—
363878 2005 SK ₅₇	17.3	X	100.41674	149.50136	192.30645	3.06047	0.2018597	0.21667815	2.7453178	20	—	—
363879 2005 SS ₅₈	16.3	X	206.44918	44.86401	197.89626	12.85293	0.1541438	0.21737157	2.7394763	20	—	—
363880 2005 SM ₆₄	16.5	X	193.05731	48.19905	196.03260	12.13494	0.0775957	0.21421925	2.7662858	20	—	—
363881 2005 SB ₆₅	16.8	X	159.03481	116.35055	198.32815	11.01303	0.2280384	0.22512466	2.6762129	20	—	—
363882 2005 SJ ₆₅	17.8	X	189.33713	49.52132	307.06733	5.45566	0.1575461	0.30277341	2.1964647	20	3 2.4	21.0
363883 2005 SK ₆₅	16.5	X	38.93605	151.44653	231.62198	8.33707	0.1654873	0.21096881	2.7946272	20	—	—
363884 2005 SY ₇₈	17.1	X	146.14799	249.50905	40.04120	4.05980	0.0650665	0.21543741	2.7558483	20	—	—
363885 2005 SG ₇₉	17.2	X	170.06892	276.42151	15.31640	12.55252	0.2649005	0.22404704	2.6847874	20	—	—
363886 2005 SR ₉₀	16.9	X	131.30891	128.03479	199.45129	4.34876	0.1543782	0.21818523	2.7326614	20	—	—
363887 2005 SX ₉₂	16.3	X	56.47777	346.89649	13.40833	9.72614	0.1660297	0.20953749	2.8073392	20	—	—
363888 2005 SF ₉₉	17.1	X	108.89292	44.26709	291.95592	3.87518	0.1624557	0.21602892	2.7508154	20	—	—
363889 2005 SE ₁₀₃	17.1	X	146.53871	132.42233	196.96611	12.46292	0.2746725	0.22386984	2.6862040	20	1 7.6	21.7
363890 2005 SU ₁₀₆	16.4	X	120.99896	139.82551	209.71163	28.59655	0.1558616	0.22339153	2.6900370	20	—	—
363891 2005 SB ₁₀₇	16.1	X	48.78412	128.70416	239.13986	12.33357	0.2071213	0.21144000	2.7904738	20	—	—
363892 2005 SQ ₁₀₈	17.0	X	180.21976	139.41443	195.90069	12.18583	0.1910552	0.23009983	2.6374963	20	2 3.7	21.6
363893 2005 SN ₁₁₀	16.9	X	276.91788	222.53527	204.72741	1.48080	0.0487748	0.19476535	2.9475527	20	9 24.5	20.9
363894 2005 SK ₁₁₉	16.3	X	126.09488	299.56457	48.25039	10.80323	0.2393425	0.22242136	2.6978537	20	1 10.1	20.4
363895 2005 SN ₁₃₈	17.2	X	87.97945	316.13209	26.83902	4.57416	0.0794440	0.21357186	2.7718732	20	—	—
363896 2005 SD ₁₅₀	16.6	X	273.52653	286.70688	132.79110	2.69726	0.1779366	0.19025087	2.9939987	20	8 21.5	20.5
363897 2005 SJ ₁₅₁	17.0	X	56.57453	266.44084	57.74989	2.92213	0.0648516	0.20285557	2.8686534	20	11 26.6	21.1
363898 2005 ST ₁₅₁	16.9	X	147.34183	121.35924	175.33190	4.28400	0.0797896	0.21505686	2.7590983	20	—	—
363899 2005 SS ₁₅₈	16.4	X	200.48199	59.79935	242.66622	12.37530	0.2673288	0.23143934	2.6273097	20	1 14.3	21.3
363900 2005 SM ₁₆₇	16.7	X	122.76511	211.16703	145.60952	11.10921	0.3386651	0.22273313	2.6953355	20	1 26.9	21.0
363901 2005 SM ₁₆₉	17.0	X	323.26660	207.12982	207.13463	10.06563	0.1109610	0.20138611	2.8825911	20	11 13.1	20.4
363902 2005 ST ₁₇₆	16.8	X	187.41511	283.64208	319.39981	3.18127	0.0550197	0.21298105	2.7769970	20	—	—
363903 2005 SG ₁₇₉	16.9	X	39.94106	186.74810	193.46426	9.21656	0.1596977	0.21063093	2.7976150	20	—	—
363904 2005 SH ₁₈₂	16.9	X	136.33504	340.28030	319.27798	3.03216	0.0774325	0.21369461	2.7708117	20	—	—
363905 2005 SW ₁₈₆	17.1	X	3.18926	348.19722	31.22310	2.26398	0.0781677	0.20279958	2.8691815	20	11 27.2	20.6
363906 2005 SF ₁₈₇	17.1	X	221.06832	177.59360	164.27164	4.40377	0.2739532	0.23945239	2.5683641	20	3 16.3	21.6
363907 2005 ST ₁₈₉	17.3	X	166.23269	86.03453	199.35053	11.42634	0.1146382	0.21692479	2.7432365	20	—	—
363908 2005 SV ₁₉₉	17.2	X	100.63626	175.49768	178.90645	12.21183	0.0561836	0.21940302	2.7225403	20	—	—
363909 2005 SZ ₂₀₇	15.8	X	193.08922	186.58596	235.01919	8.64793	0.0942077	0.17651715	3.1473481	20	6 3.6	20.6
363910 2005 SQ ₂₀₉	16.1	X	92.60442	82.71491	241.49323	7.93103	0.1381630	0.21296331	2.7771512	20	—	—
363911 2005 SX ₂₁₃	15.9	X	79.10080	123.55482	239.62070	12.54299	0.1959256	0.21418044	2.7666200	20	—	—
363912 2005 SM ₂₁₇	16.6	X	43.52086	341.39527	44.54542	5.69324	0.1621236	0.21007036	2.8025898	20	—	—
363913 2005 SA ₂₁₉	16.1	X	207.76699	211.65790	228.03359	15.25917	0.2302336	0.17534276	3.1613857	20	7 1.1	21.6
363914 2005 SB ₂₂₀	16.8	X	177.22370	171.80175	161.52926	11.85347	0.2910631	0.23410538	2.6073247	20	2 4.4	

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Planet	<i>H</i>	<i>G</i>	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	μ	<i>a</i>	TE	Oppos.	<i>V</i>
363921 2005 SV ₂₅₄	16.4	X	151.17033	146.50279	179.29105	14.42017	0.1541536	0.22575499	2.6712291	20	—	—
363922 2005 SZ ₂₆₅	16.3	X	242.85578	209.73054	210.43156	7.81432	0.1578751	0.18544834	3.0454682	20	7 16.7	21.1
363923 2005 SO ₂₆₈	16.7	X	57.21676	282.42197	63.52873	5.59555	0.1673030	0.20911412	2.8111271	20	—	—
363924 2005 SP ₂₆₉	16.8	X	64.13376	266.83958	129.05675	9.56923	0.2415539	0.21669123	2.7452074	20	—	—
363925 2005 SF ₂₇₄	16.5	X	342.29071	56.11912	214.03495	8.74282	0.0638637	0.18135853	3.0910834	20	5 31.9	20.5
363926 2005 ST ₂₈₇	16.4	X	193.48699	54.47865	88.50638	14.15919	0.1081532	0.18959572	3.0008920	20	9 20.2	21.3
363927 2005 SW ₂₈₇	16.3	X	183.94145	35.67446	88.61290	14.70302	0.1940614	0.18211988	3.0824625	20	8 11.2	21.6
363928 2005 TW ₄	17.2	X	300.36971	318.48195	91.75402	0.98938	0.0814341	0.19534788	2.9416900	20	10 2.5	20.8
363929 2005 TF ₆	16.6	X	169.44941	72.39959	251.99481	8.35427	0.3019718	0.22782555	2.6550198	20	1 20.3	21.5
363930 2005 TG ₈	17.1	X	98.56110	168.76897	173.32940	3.80339	0.1069443	0.21405412	2.7677084	20	—	—
363931 2005 TR ₄₉	16.7	X	73.40576	135.04663	244.77795	3.79807	0.1243104	0.21456794	2.7632881	20	—	—
363932 2005 TT ₅₃	16.0	X	72.35326	146.98869	182.58856	12.90180	0.0719321	0.20977328	2.8052352	20	12 23.9	20.3
363933 2005 TR ₅₄	15.6	X	246.80775	212.89733	212.50273	11.45044	0.1914978	0.18365744	3.0652344	20	7 22.1	20.5
363934 2005 TM ₆₄	17.4	X	349.11821	343.85116	30.54002	6.32603	0.0791610	0.19810172	2.9143646	20	10 29.9	20.9
363935 2005 TQ ₈₁	17.0	X	114.61400	86.09262	224.20620	5.28412	0.0519378	0.21184273	2.7869360	20	—	—
363936 2005 TE ₈₃	15.9	X	102.17170	142.01559	227.54879	12.01191	0.2134488	0.21868831	2.7284689	20	1 3.4	19.6
363937 2005 TR ₈₇	17.3	X	112.65363	283.57475	40.18203	4.52212	0.0651645	0.21431093	2.7654969	20	—	—
363938 2005 TV ₉₇	16.9	X	97.69740	108.37190	226.91531	5.81582	0.0784486	0.21110997	2.7933813	20	—	—
363939 2005 TD ₁₀₆	16.8	X	185.55603	241.51854	6.24740	7.37230	0.1747217	0.21441447	2.7646065	20	—	—
363940 2005 TA ₁₁₂	17.2	X	98.91806	99.12516	235.54545	3.42504	0.0750478	0.21372541	2.7705454	20	—	—
363941 2005 TC ₁₁₂	17.2	X	115.14643	87.98701	228.49289	4.17977	0.0592990	0.21340970	2.7732772	20	—	—
363942 2005 TG ₁₁₉	16.8	X	143.83153	85.56566	207.62265	7.80224	0.0650017	0.21404478	2.7677889	20	—	—
363943 2005 TC ₁₂₃	17.4	X	104.41850	138.58034	196.71422	3.55023	0.1025335	0.21489292	2.7695014	20	—	—
363944 2005 TZ ₁₂₆	17.1	X	324.79628	356.74269	31.16425	2.23882	0.1041364	0.19588204	2.9363397	20	10 9.6	20.4
363945 2005 TF ₁₄₂	17.3	X	80.15226	278.79398	71.63986	4.16082	0.0853896	0.21180857	2.7872357	20	—	—
363946 2005 TM ₁₅₆	16.9	X	114.28399	68.26729	243.62123	3.81905	0.1428621	0.21392323	2.7688372	20	—	—
363947 2005 TE ₁₅₉	17.0	X	155.80998	308.76035	307.66483	3.84496	0.1162276	0.20930680	2.8094016	20	12 23.4	21.4
363948 2005 TU ₁₇₂	16.1	X	95.62206	352.32448	357.47163	7.90730	0.2254553	0.21486507	2.7607399	20	—	—
363949 2005 TA ₁₉₂	16.0	X	348.72485	23.53860	219.37258	15.41891	0.0764039	0.17231582	3.1983006	20	5 5.1	20.0
363950 2005 TP ₁₉₆	16.6	X	177.13474	203.15805	139.48696	14.80463	0.2590179	0.22959846	2.6413345	20	2 10.1	21.3
363951 2005 UB ₃	15.8	X	16.69840	155.91583	232.23960	14.61975	0.1390873	0.20398555	2.8580497	20	—	—
363952 2005 UE ₈	15.8	X	272.72312	203.51238	209.63600	8.50694	0.2558785	0.18626018	3.0366124	20	7 28.1	20.3
363953 2005 UY ₂₁	16.9	X	98.10495	105.88146	239.09260	5.77997	0.1270005	0.21266130	2.7797799	20	—	—
363954 2005 UX ₂₂	16.8	X	72.52592	121.80006	234.96763	5.16699	0.0995781	0.20996198	2.8035541	20	—	—
363955 2005 UG ₂₄	16.9	X	113.11572	292.62867	21.93395	4.70955	0.1530410	0.21121148	2.7924862	20	—	—
363956 2005 UR ₂₅	17.3	X	183.40132	98.01987	218.27518	12.50300	0.2764431	0.22709905	2.6606791	20	1 18.5	22.3
363957 2005 UJ ₃₂	16.6	X	195.70385	65.55417	62.21031	1.80986	0.0872670	0.18647853	3.0342416	20	8 29.3	21.1
363958 2005 UP ₄₈	16.4	X	24.15824	132.53309	246.95287	7.49598	0.0770087	0.20297151	2.8675610	20	12 25.7	20.3
363959 2005 UJ ₅₆	15.9	X	225.70925	177.31582	214.15517	10.28254	0.1054579	0.17732209	3.1378162	20	5 31.0	20.7
363960 2005 UT ₅₈	16.5	X	233.74398	86.75971	237.57769	10.58149	0.3209307	0.23723285	2.5843589	20	2 27.2	21.5
363961 2005 UW ₆₆	17.0	X	136.19065	102.66233	204.98540	8.14924	0.1488869	0.21462612	2.7627887	20	—	—
363962 2005 UL ₆₉	16.5	X	259.32179	50.82627	13.74476	11.57797	0.1166287	0.18695956	3.0290348	20	8 22.9	20.9
363963 2005 UP ₉₁	15.9	X	150.50248	198.58117	18.67314	10.93756	0.0367429	0.19596022	2.9355587	20	10 29.1	20.1
363964 2005 UJ ₉₈	16.0	X	207.27596	44.66561	67.79729	8.25887	0.1536483	0.18385020	3.0630915	20	8 19.9	21.0
363965 2005 UN ₁₁₁	16.7	X	110.10279	64.52685	268.76557	3.67467	0.1582083	0.21113483	2.7931620	20	—	—
363966 2005 UB ₁₁₈	16.9	X	103.11440	291.53890	25.49370	5.00291	0.1502951	0.20973791	2.8055505	20	—	—
363967 2005 US ₁₂₀	16.0	X	221.82804	211.04322	239.45029	10.89824	0.2287304	0.18233468	3.0800412	20	7 25.2	21.3
363968 2005 UY ₁₂₆	16.0	X	209.44333	280.66074	227.77728	12.27417	0.1198261	0.19129007	2.9831455	20	10 2.1	20.7
363969 2005 UJ ₁₂₇	16.7	X	148.71245	317.78943	37.11858	5.29243	0.1241721	0.22315378	2.6919473	20	1 29.7	20.8
363970 2005 UD ₁₂₈	15.9	X	163.82359	278.28345	226.74032	17.02036	0.1740166	0.18095797	3.0956433	20	8 9.7	21.4
363971 2005 US ₁₃₁	17.4	X	169.04959	238.60329	154.37170	10.37735	0.2192991	0.23303152	2.6153286	20	4 10.0	21.9
363972 2005 UA ₁₄₁	16.5	X	75.29569	149.28420	206.64929	8.29634	0.2139613	0.21057613	2.7981004	20	—	—
363973 2005 UV ₁₄₇	16.6	X	320.46684	153.76028	235.01451	9.37553	0.0768240	0.19283824	2.9671576	20	9 30.8	20.4
363974 2005 UJ ₁₅₂	16.1	X	156.62006	83.16918	46.36855	10.39719	0.1806608	0.17519365	3.1637193	20	7 24.5	21.5
363975 2005 UU ₁₅₄	15.7	X	130.14619	115.10618	52.68621	26.76439	0.2564168	0.17602864	3.1531684	20	9 1.6	21.6
363976 2005 UN ₁₅₈	15.8	X	234.04403	222.78004	212.45289	16.17179	0.1387236	0.18304667	3.0720492	20	7 25.3	20.8
363977 2005 UN ₁₆₅	18.6	X	0.78056	247.79403	215.35303	3.31842	0.2567809	0.27825677	2.3236581	20	—	—
363978 2005 UJ ₁₇₆	17.9	X	193.83016	134.83365	239.45549	4.18578	0.2663641	0.23555668	2.5966042	20	4 2.7	22.5
363979 2005 UA ₁₈₅	16.3	X	163.44106	107.77244	62.34995	10.13407	0.2319629	0.18373742	3.0643449	20	9 19.9	21.7
363980 2005 UN ₁₉₈	16.3	X	328.01071	44.21116	235.01446	10.61936	0.1755121	0.17813191	3.1282989	20	5 9.5	20.0
363981 2005 UE ₂₀₀	16.9	X	195.13139	321.64891	142.17371	1.45738	0.1433514	0.17936634	3.1139293	20	7 25.6	21.9
363982 2005 UO ₂₀₇	16.9	X	117.30600	220.00323	69.95276	3.05498	0.0407823	0.20527434	2.8460745	20	12 22.7	21.0
363983 2005 UW ₂₁₀	16.2	X	124.16939	323.98115	226.92020	16.08340	0.1336285	0.18403437	3.0610477	20	8 28.1	21.4
363984 2005 UJ ₂₁₆	16.1	X	93.33867	297.70355	58.52950	16.19628	0.2519150	0.21398958	2.7682648	20	—	—
363985 2005 UN ₂₃₀	16.6	X	229.74041	309.79626	205.65520	4.36613	0.0389630	0.19814643	2.9139262	20	11 17.1	20.5
363986 2005 UC ₂₃₁	17.1	X	129.94179	112.75261	215.94458	2.54068	0.1966803	0.21668432	2.7452657	20	—	—
363987 2005 UX ₂₅₂	16.5	X	262.46377	201.77955	241.57226	8.57399	0.1543962	0.18976609	2.9990956	20	9 5.7	20.9
363988 2005 UD ₂₆₆	16.6	X	188.96988	84.80172	65.11622	8.94						