

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>
364001 2005 UO ₄₀₇	16.3	X	314.05249	341.58052	52.26877	6.73989	0.0987821	0.19453848	2.9498439	20	10 2.7	19.9
364002 2005 UQ ₄₃₄	16.9	X	54.95363	282.76134	66.32635	3.00507	0.0799770	0.20467262	2.8516499	20	12 27.7	20.8
364003 2005 UQ ₄₄₆	16.1	X	300.50130	141.16299	259.44545	8.55270	0.0686610	0.19234540	2.9722239	20	9 15.6	20.2
364004 2005 UH ₄₅₀	15.8	X	138.91567	306.57641	258.24953	9.25006	0.0442725	0.18826264	3.0150414	20	9 27.1	20.5
364005 2005 UC ₄₆₀	16.5	X	290.39269	142.78199	253.62980	7.58432	0.0645856	0.18592567	3.0402537	20	8 27.0	20.8
364006 2005 UR ₄₇₂	16.6	X	61.23905	275.09979	65.30454	2.95058	0.0804766	0.20232262	2.8736889	20	12 23.9	20.7
364007 2005 UE ₄₈₉	15.5	X	89.34357	55.68957	237.87673	14.09218	0.1321137	0.20450045	2.8532503	20	12 4.0	19.9
364008 2005 UQ ₄₉₂	16.1	X	142.76513	216.32351	127.93753	14.87144	0.1874697	0.22157641	2.7047079	20	1 15.5	20.2
364009 2005 UD ₄₉₅	16.1	X	89.57996	313.71512	51.65876	14.44723	0.2072002	0.21791411	2.7349275	20	—	—
364010 2005 UE ₅₀₈	16.8	X	106.91823	267.52198	62.18608	9.67187	0.2024842	0.21182637	2.7870795	20	—	—
364011 2005 UZ ₅₀₉	16.8	X	144.15671	330.16255	9.85169	7.96958	0.3708707	0.22294666	2.6936143	20	1 29.8	21.7
364012 2005 UR ₅₁₇	16.2	X	242.94935	293.66676	153.44754	10.51153	0.0757208	0.18975309	2.9992325	20	9 2.2	20.4
364013 2005 UP ₅₂₃	17.3	X	110.45744	161.14028	152.26213	3.91938	0.0806503	0.21263262	2.7800299	20	—	—
364014 2005 UQ ₅₂₅	16.2	X	294.76523	337.81057	60.08130	11.23620	0.1107432	0.18729744	3.0253908	20	9 8.9	20.3
364015 2005 VD ₁	15.8	X	168.01861	97.27500	246.01877	27.47701	0.3372150	0.22797617	2.6538502	20	2 1.8	21.2
364016 2005 VY ₆	16.5	X	256.83146	29.88249	64.38974	11.53654	0.0939399	0.18871986	3.0101696	20	10 1.5	20.8
364017 2005 UO ₉	17.5	X	205.81469	79.25192	286.10439	3.10740	0.2296517	0.23728067	2.5840117	20	4 1.0	21.9
364018 2005 VA ₁₇	16.2	X	170.95952	121.09516	243.41862	26.29880	0.2975976	0.23087291	2.6316052	20	2 26.7	21.5
364019 2005 VJ ₂₉	17.2	X	173.85121	161.21218	73.00413	6.71255	0.0070453	0.20382060	2.8595915	20	12 20.7	21.1
364020 2005 VF ₃₄	16.3	X	232.78084	339.30577	79.22063	5.09450	0.1265071	0.17799343	3.1299212	20	7 8.9	21.1
364021 2005 VJ ₃₇	16.1	X	34.48355	268.19605	76.98519	10.23888	0.0721199	0.20044413	2.8916151	20	11 26.4	20.1
364022 2005 VD ₅₉	17.0	X	93.83396	113.80229	229.84517	9.41953	0.1511883	0.21283123	2.7783000	20	—	—
364023 2005 VS ₇₅	15.3	X	155.71043	251.76944	250.15946	14.89995	0.2121496	0.1779802	3.1322141	20	7 31.6	20.9
364024 2005 VB ₇₇	16.0	X	231.55242	44.81553	269.12271	11.42418	0.3110694	0.23819397	2.5774023	20	2 14.0	20.9
364025 2005 VT ₁₁₆	16.1	X	256.05032	18.26198	262.36257	6.23121	0.1867671	0.18824652	3.0152136	20	8 29.3	20.4
364026 2005 VU ₁₂₅	16.9	X	142.82307	116.45342	188.68693	7.43866	0.1260950	0.21904610	2.7254970	20	—	—
364027 2005 VQ ₁₂₆	16.5	X	297.95926	113.66475	191.80254	11.78553	0.0735829	0.18003411	3.1062246	20	5 14.5	20.8
364028 2005 VB ₁₂₈	17.5	X	179.25612	153.71586	82.44521	4.24032	0.0982875	0.21104881	2.9739210	20	12 23.7	21.7
364029 2005 VA ₁₃₂	16.0	X	11.45292	73.58290	190.72117	21.87765	0.0126963	0.18082502	3.0971604	20	7 1.9	20.7
364030 2005 WX ₉	17.1	X	260.03896	154.91058	259.98342	3.49052	0.1552479	0.18187668	3.0852098	20	7 30.7	21.4
364031 2005 WZ ₁₀	16.4	X	217.92050	229.49164	236.59630	7.93851	0.0984504	0.18466391	3.0540867	20	8 20.7	21.1
364032 2005 WY ₁₆	15.7	X	282.41446	357.18471	71.77401	11.89123	0.1236334	0.18927435	3.0042879	20	9 30.2	19.8
364033 2005 WJ ₃₃	16.0	X	299.59414	152.58226	263.44674	9.48899	0.0599591	0.18948573	3.0020531	20	10 4.9	20.2
364034 2005 WD ₃₅	15.9	X	121.06383	290.98475	251.05408	12.02107	0.2523097	0.17529153	3.1620016	20	8 22.2	21.5
364035 2005 WD ₄₀	16.2	X	105.47681	128.02307	74.90536	5.97687	0.0875709	0.17874060	3.1211927	20	8 27.7	20.9
364036 2005 WD ₄₆	16.3	X	344.90895	304.41533	70.65894	9.84655	0.1030000	0.19208078	2.9749530	20	10 27.8	20.0
364037 2005 WT ₄₈	16.2	X	218.22028	31.23836	260.25094	12.53004	0.1615450	0.21978900	2.7193519	20	1 16.5	20.8
364038 2005 WA ₄₉	16.2	X	269.95212	6.66778	65.40818	7.27331	0.1154609	0.18689566	3.0297252	20	9 14.9	20.4
364039 2005 WK ₅₉	17.2	X	354.20590	316.28044	77.62770	3.27695	0.0744206	0.19815395	2.9138524	20	12 1.5	20.8
364040 2005 WX ₆₅	16.3	X	117.53979	72.97869	247.63525	10.54721	0.1667800	0.20942058	2.8083839	20	—	—
364041 2005 WY ₆₆	15.8	X	292.34512	91.72370	237.60290	8.27400	0.0853243	0.17467276	3.1694647	20	6 3.5	20.0
364042 2005 WP ₇₄	16.8	X	75.74347	244.71846	138.71011	11.11148	0.2754751	0.21394310	2.7686657	20	—	—
364043 2005 WN ₈₆	16.5	X	314.12366	323.96484	69.85372	10.94273	0.1030909	0.19037125	2.9927364	20	10 4.8	20.3
364044 2005 WK ₈₇	15.7	X	262.26951	347.73425	86.12972	7.47648	0.1692272	0.18325100	3.0697651	20	8 28.9	20.1
364045 2005 WH ₉₅	16.3	X	319.21065	276.80602	100.03881	4.30620	0.1165393	0.18718287	3.0266252	20	9 14.9	19.9
364046 2005 WV ₉₆	16.2	X	193.05090	220.67572	240.84314	4.82361	0.0886945	0.17579374	3.1559766	20	7 21.9	21.0
364047 2005 WJ ₁₀₃	16.3	X	51.34231	301.36677	81.59022	11.16179	0.1970065	0.20985224	2.8045314	20	—	—
364048 2005 WE ₁₁₀	16.2	X	113.57495	200.08157	79.36704	6.03852	0.1878866	0.19913916	2.9042340	20	12 11.9	21.0
364049 2005 WX ₁₁₇	16.2	X	201.75336	97.41425	241.45174	28.35309	0.3044120	0.23460686	6.6036079	20	2 16.4	21.6
364050 2005 WG ₁₃₅	16.3	X	149.87986	36.71064	107.39559	9.52700	0.1757153	0.17019065	3.2248703	20	8 3.3	21.6
364051 2005 WH ₁₄₁	17.1	X	53.53303	117.44518	246.17922	1.02067	0.0779077	0.20357688	2.8618734	20	—	—
364052 2005 WY ₁₄₃	15.6	X	270.65147	277.23888	75.06186	18.26317	0.0439266	0.17214441	3.2004233	20	6 9.9	20.2
364053 2005 WO ₁₄₅	16.5	X	149.36406	306.43328	258.37992	9.18225	0.0488615	0.18897112	3.0075009	20	10 9.8	21.1
364054 2005 WM ₁₄₇	16.6	X	170.30109	123.71437	209.87459	12.15525	0.2388698	0.22421740	2.6834273	20	1 27.2	21.4
364055 2005 WK ₁₅₂	15.5	X	140.50676	287.70006	261.34590	14.68159	0.1704885	0.18206235	3.0831118	20	9 10.2	20.9
364056 2005 WR ₁₅₂	15.7	X	249.73737	145.22090	257.35221	10.24855	0.0240744	0.17762480	3.1342501	20	7 19.1	20.3
364057 2005 WC ₁₆₂	16.2	X	202.98723	269.57405	234.52073	4.19253	0.1152581	0.18598892	3.0395643	20	9 21.3	20.9
364058 2005 WY ₁₈₄	15.9	X	325.04815	355.99244	56.29259	6.97898	0.0823568	0.19534637	2.9417052	20	11 11.5	19.5
364059 2005 WZ ₁₈₆	16.1	X	217.72500	236.49859	265.04206	9.20643	0.0315777	0.18980131	2.9987246	20	10 11.5	20.5
364060 2005 XS ₂₁	16.6	X	104.55768	267.52217	66.18500	15.83600	0.2976726	0.21178745	2.7874210	20	—	—
364061 2005 XA ₂₆	16.8	X	2.57352	320.46587	50.26820	2.60303	0.1198060	0.19524243	2.9427492	20	11 17.9	20.2
364062 2005 XY ₂₆	15.6	X	142.09493	119.42991	90.72144	12.27331	0.0447485	0.18379004	3.0637599	20	10 17.1	20.3
364063 2005 XZ ₂₉	16.4	X	150.31217	99.92104	95.29714	11.47262	0.0352653	0.18653321	3.0336486	20	10 8.3	21.0
364064 2005 XQ ₅₃	16.5	X	233.26434	81.45648	36.79001	8.66230	0.0280106	0.19176956	2.9781708	20	10 8.1	20.6
364065 2005 XZ ₆₁	16.8	X	321.07447	60.72661	321.01560	2.20025	0.2559665	0.19196431	2.9761563	20	9 11.2	19.4
364066 2005 XM ₆₃	16.4	X	2.53503	313.19080	53.20980	3.94515	0.0994918	0.19287185	2.9668129	20	11 9.8	20.0
364067 2005 XK ₆₆	16.1	X	207.40364	235.29567	124.79705	14.75427	0.3919733	0.23611674	2.5924966	20	3 31.7	21.4
364068 2005 XW ₇₄	15.9	X	341.60849	306.80275	65.89365	7.49937	0.1003613	0.18706826	3.0278613	20	10 17.7	19.7
364069 2005 XR ₉₁	16.1	X	41.51003	251.64786	69.92608	9.14985	0.0647503	0.18808988	3.0168874	20	11 3.8	20.2
364070 2005 XX ₁₀₇	17.3	X	147.78593	52.00281	125.30090	2.22040	0.1359871	0.18299891	3.0725836	20	9 10.0	22.1
364071 2005 YX ₁	15.6	X	203.80146	272.19904	74.46853	27.41631	0.4716380	0.23272307	2.6176390	20	3 23.9	21.5
364072 2005 YZ ₁₄	17.8	X	43.28203	284.22529	295.62457	4.35729	0.1230564	0.29894931	2.2151562	20	7 9.8	20.0
364073 2005 YZ ₂₀	16.2	X	70.08913	224.40671	97.38613	3.50822	0.1588885	0.19276773	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>
364081 2005 YR ₅₄	18.2	X	152.24608	104.83597	48.37575	1.90719	0.0725417	0.30866336	2.1684330	20	8 26.3	21.0
364082 2005 YL ₆₄	15.6	X	100.73385	150.24819	99.57027	10.84705	0.0384773	0.18208278	3.0828813	20	10 16.9	20.2
364083 2005 YL ₆₉	16.4	X	348.54106	269.29324	80.89217	2.30128	0.1761868	0.18314686	3.0709287	20	9 29.8	19.6
364084 2005 YZ ₈₀	16.0	X	214.75706	9.84942	109.80847	10.74205	0.0654264	0.18005893	3.1059391	20	9 13.8	20.7
364085 2005 YL ₈₅	16.0	X	278.72270	338.48769	102.57559	7.30442	0.0378677	0.18506155	3.0497103	20	10 18.2	20.2
364086 2005 YP ₈₉	16.2	X	323.64344	287.77890	115.69465	4.33218	0.1165170	0.18829996	3.0146430	20	10 27.9	19.9
364087 2005 YU ₉₄	16.5	X	168.13365	275.79978	287.19971	3.16158	0.0764572	0.19212696	2.9744763	20	10 30.2	21.0
364088 2005 YS ₁₂₄	15.5	X	346.07062	338.01819	64.58651	8.32344	0.1505793	0.19318329	2.9636233	20	12 4.5	18.9
364089 2005 YT ₁₂₄	16.3	X	15.51024	58.32858	332.52114	7.11238	0.2596615	0.19878751	2.9076580	20	—	—
364090 2005 YN ₁₂₅	16.1	X	357.85680	262.98636	69.29371	4.46827	0.1045806	0.18076417	3.0978554	20	9 19.1	19.9
364091 2005 YO ₁₂₇	16.0	X	228.18382	6.93056	69.65304	18.68889	0.1915873	0.17669857	3.1451934	20	7 21.8	21.2
364092 2005 YK ₁₃₂	16.0	X	49.63463	201.68697	122.43920	7.52345	0.0729717	0.18549558	3.0449512	20	11 17.9	20.3
364093 2005 YF ₁₄₀	15.9	X	38.17587	246.86234	99.50816	11.50860	0.1259264	0.19139386	2.9820669	20	12 8.4	19.9
364094 2005 YL ₁₅₀	17.4	X	296.18845	34.01773	348.53905	2.94680	0.1382755	0.31603715	2.1345711	20	8 30.7	18.7
364095 2005 YT ₁₅₀	15.6	X	238.26331	334.49851	94.34886	11.46070	0.0619150	0.17462146	3.1700855	20	8 6.2	20.3
364096 2005 YB ₁₅₁	16.5	X	215.05232	45.36536	64.50106	3.96570	0.0682803	0.17709087	3.1405468	20	8 30.0	21.1
364097 2005 YF ₁₆₄	18.1	X	154.30106	140.20145	26.83816	3.50386	0.0575531	0.31520312	2.1383349	20	9 18.9	20.6
364098 2005 YG ₁₇₀	16.1	X	155.59791	319.81644	151.37916	5.31788	0.0560051	0.16658475	3.2712411	20	6 24.3	21.0
364099 2005 YH ₁₇₅	15.3	X	81.59515	141.21848	103.40893	13.92813	0.0354861	0.17719371	3.1393315	20	9 17.2	20.0
364100 2005 YH ₂₀₃	16.3	X	5.65877	242.31938	125.69684	10.28626	0.1525393	0.18992037	2.9974712	20	11 24.7	20.1
364101 2005 YL ₂₁₄	15.8	X	303.85215	130.03687	256.28318	8.61098	0.1200162	0.18446617	3.0562689	20	8 25.9	19.8
364102 2005 YJ ₂₃₄	15.7	X	78.17423	189.49825	99.31506	12.02535	0.0701391	0.18661618	3.0327493	20	11 10.6	20.2
364103 2005 YY ₂₄₈	15.8	X	151.12284	103.11346	92.22544	13.30890	0.0943963	0.18211644	3.0825014	20	10 10.3	20.8
364104 2005 YA ₂₅₁	16.6	X	251.59514	193.02515	257.43378	3.41842	0.0948660	0.18178784	3.0862149	20	9 11.1	21.0
364105 2005 YJ ₂₇₀	15.8	X	343.37655	218.63799	132.74634	11.44166	0.0682057	0.17969100	3.1101775	20	9 21.3	19.9
364106 2005 YU ₂₇₀	15.4	X	320.32605	287.33474	105.44584	15.57212	0.1035371	0.18446452	3.0562871	20	10 14.5	19.5
364107 2005 YS ₂₇₈	15.5	X	134.56911	91.78826	86.72453	16.93830	0.2516063	0.17504084	3.1650199	20	9 10.3	21.3
364108 2005 YA ₂₈₅	15.7	X	80.70020	155.68432	129.52399	10.55065	0.0791522	0.18381508	3.0634817	20	11 9.4	20.3
364109 2006 AC ₁	16.0	X	36.15817	56.64865	269.00895	7.39014	0.1026196	0.18557349	3.0440990	20	11 2.6	20.2
364110 2006 AR ₅	17.3	X	47.39683	83.74264	94.64246	22.25835	0.2043645	0.28967404	2.2621931	20	5 30.7	19.6
364111 2006 AY ₁₅	16.0	X	309.79562	280.79326	120.28652	9.93256	0.1367813	0.18567505	3.0429888	20	10 2.1	19.7
364112 2006 AU ₁₈	17.8	X	204.04665	141.98369	281.38181	5.35504	0.0948244	0.30398550	2.1906221	20	6 19.6	20.8
364113 2006 AP ₂₈	16.1	X	340.56109	263.27616	115.58397	8.35314	0.1064793	0.18668273	3.0320286	20	10 25.3	19.9
364114 2006 AS ₃₈	16.3	X	157.83899	35.56832	112.22631	12.05536	0.0943012	0.17324702	3.1868298	20	8 14.2	21.2
364115 2006 AX ₃₈	16.1	X	256.59819	322.48297	117.65986	11.77234	0.0491114	0.17940298	3.1135053	20	9 16.9	20.6
364116 2006 AB ₅₂	16.2	X	269.48241	129.17976	283.91327	3.97976	0.0974685	0.17807298	3.1289889	20	8 17.1	20.6
364117 2006 AS ₅₇	16.0	X	226.38349	137.57477	256.28510	4.93116	0.2961999	0.23752535	2.5820412	20	5 19.9	20.6
364118 2006 AV ₆₁	15.8	X	41.52473	193.10925	135.85334	10.07138	0.0500449	0.18492800	3.0511784	20	11 5.7	20.2
364119 2006 AR ₈₆	16.1	X	302.02397	319.80345	96.04186	10.94919	0.1048281	0.18931452	3.0038629	20	10 14.3	20.0
364120 2006 AM ₉₁	16.5	X	343.97693	229.53829	139.62711	5.72040	0.1772526	0.18568488	3.0428814	20	10 19.0	19.8
364121 2006 AF ₁₀₄	16.5	X	180.61269	11.33902	123.56722	9.97688	0.0437086	0.17355831	3.1830181	20	8 23.1	21.2
364122 2006 AY ₁₀₄	16.6	X	129.93816	237.00559	139.72906	9.34883	0.1758517	0.21361574	2.7714936	20	2 10.6	20.8
364123 2006 BM ₆₈	18.1	X	245.03084	86.81087	342.95509	2.81147	0.0708080	0.31143379	2.1555540	20	8 27.5	20.5
364124 2006 BY ₇₈	17.5	X	89.08094	18.99500	168.41901	3.76751	0.1237018	0.29577496	2.2309771	20	7 29.3	20.4
364125 2006 BM ₈₄	15.2	X	39.40821	182.87266	125.73550	22.63465	0.0872395	0.17911673	3.1168217	20	10 24.7	19.9
364126 2006 BH ₉₃	17.7	X	232.22139	85.49626	339.88708	5.80890	0.0786369	0.30481493	2.1866464	20	8 1.4	20.2
364127 2006 BK ₁₄₂	17.4	X	23.58736	278.03820	328.75888	7.26246	0.1522459	0.29477637	2.2360127	20	7 22.1	19.2
364128 2006 BT ₁₈₂	18.0	X	214.29993	322.65289	138.45931	7.20787	0.0550961	0.30861349	2.1686665	20	9 2.2	20.4
364129 2006 BA ₁₈₈	17.8	X	352.35615	200.38841	26.96090	4.50484	0.1671884	0.28500072	2.2868556	20	4 3.9	19.4
364130 2006 BH ₂₀₅	15.8	X	77.76428	114.57659	142.87132	11.78917	0.0566782	0.17234236	3.1979723	20	9 27.8	20.5
364131 2006 BO ₂₃₀	18.3	X	64.82470	184.99185	64.18498	3.26588	0.1171670	0.30733886	2.1746585	20	9 27.7	21.0
364132 2006 BN ₂₃₁	16.1	X	265.38571	318.17069	99.06173	5.54772	0.1050302	0.17584897	3.1553157	20	8 18.7	20.6
364133 2006 BG ₂₃₈	15.7	X	64.89059	268.14633	338.30246	6.55807	0.0794250	0.16970585	3.2310091	20	8 28.9	20.3
364134 2006 BQ ₂₃₉	16.1	X	1.42470	235.08988	131.54338	12.65350	0.0904022	0.18273123	3.0755835	20	11 9.8	20.3
364135 2006 BL ₂₈₀	18.3	X	330.64125	282.04909	76.08072	1.27617	0.1184666	0.31308092	2.1479870	20	10 4.9	19.8
364136 2006 CJ	20.2	X	74.92802	29.64139	303.24577	10.23228	0.7548827	1.77120868	0.6765339	20	—	—
364137 2006 CM ₄	18.0	X	128.88812	276.05748	214.72588	3.82714	0.1012752	0.29943645	2.2127530	20	6 25.9	20.9
364138 2006 CF ₁₄	16.0	X	17.28903	186.53397	140.87789	9.93787	0.0716252	0.17737972	3.1371364	20	10 9.8	20.2
364139 2006 CC ₆₈	15.5	X	296.92765	261.43339	143.29433	24.84695	0.0823886	0.17840015	3.1251623	20	9 20.8	19.8
364140 2006 DM ₁₁	16.8	X	8.92966	110.51056	110.14318	9.14285	0.0683439	0.28811157	2.2703645	20	5 5.7	19.2
364141 2006 DC ₄₂	18.6	X	169.86815	160.18080	276.46282	5.96518	0.0986902	0.43310176	1.7301194	20	5 27.9	20.2
364142 2006 DN ₆₂	17.5	X	44.42881	44.05249	189.62933	7.33900	0.2981546	0.29392758	2.2403153	20	8 31.9	20.0
364143 2006 DE ₁₃₅	18.0	X	217.67868	285.26125	146.79554	3.30062	0.1112099	0.30403281	2.1903949	20	7 16.9	20.9
364144 2006 DN ₁₃₅	17.7	X	15.06900	279.02552	348.66785	6.77124	0.1389797	0.29727877	2.2234470	20	8 7.5	19.6
364145 2006 DX ₁₄₂	18.1	X	354.24646	222.56427	30.27436	2.75645	0.1331041	0.28931116	2.2640843	20	5 22.7	19.7
364146 2006 DW ₁₂₀	18.0	X	159.73815	101.28855	6.93955	6.37036	0.1059360	0.29689963	2.2253395	20	7 1.5	21.2
364147 2006 FD ₁₂	15.7	X	14.56290	199.90475	172.53930	9.88157	0.0776522	0.17763605	3.1341178	20	11 29.8	20.0
364148 2006 FA ₁₃	18.1	X	22.85193	65.92084	138.04562	2.37571	0.1376460	0.28388010	2.2928699	20	5 5.8	19.9
364149 2006 FT ₃₆	17.0	X	79.23233	144.19025	11.65571	25.68712	0.0906138	0.28880754	2.2667156	20	5 12.2	20.2
364150 2006 FK ₄₉	16.9	X	29.96146	145.21727	43.60667	24.92873	0.1147384	0.28361508	2.2942981	20	4 26.5	19.0
364151 2006 FD ₅₃	17.8	X	350.83067	195.54460	78.01620	1.12732	0.0331519	0.29018520	2.2595357	20	6 21.7	20.0
364152 2006 GW ₉	18.2	X	4.94447	151.86626	118.61311	3.66684	0.1310111	0.29152321	2.2526166	20	7 17.3	20.0
364153 2006 GX ₄₀	17.1	X	21.08246	193.93936	51.1981							

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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>		
364161	2006	HS ₅₄	17.2	X	51.05949	87.18048	119.97017	8.12791	0.1300318	0.28773036	2.2723694	20	7 3.6	19.5
364162	2006	HF ₁₀₁	17.8	X	282.42561	203.04736	133.25927	3.55296	0.1660286	0.28182955	2.3039782	20	5 17.4	20.6
364163	2006	HR ₁₁₈	17.7	X	27.36140	41.20895	173.83582	6.64599	0.0569909	0.28436007	2.2902891	20	5 26.2	20.2
364164	2006	HE ₁₂₀	17.6	X	359.60866	16.79557	212.16879	2.77734	0.0873827	0.28019394	2.3129357	20	4 27.4	19.8
364165	2006	HO ₁₂₇	17.8	X	248.09564	114.34616	223.07404	3.85310	0.1524997	0.27592252	2.3367448	20	4 7.2	21.2
364166	2006	JB	17.3	X	158.90712	42.03584	39.07003	6.95723	0.0730909	0.28506797	2.2864960	20	5 20.3	20.5
364167	2006	JQ ₃	17.5	X	320.86894	257.06856	54.92366	12.05230	0.2444090	0.28355108	2.2946433	20	5 30.7	19.4
364168	2006	JX ₁₄	17.9	X	295.44814	167.57124	154.52725	6.39128	0.1519200	0.28183754	2.3039347	20	5 19.4	20.6
364169	2006	JA ₃₈	17.1	X	225.39997	244.73143	92.73816	7.90971	0.1435091	0.27098586	2.3650389	20	3 21.3	20.8
364170	2006	JZ ₅₄	18.5	X	327.11946	235.77143	54.39092	6.20964	0.2477426	0.28083841	2.3093958	20	5 8.9	20.3
364171	2006	JZ ₆₁	6.7	X	10.97411	184.57693	36.40792	3.55137	0.0845268	0.00327181	44.9376738	20	5 14.3	22.8
364172	2006	KU ₁₆	17.5	X	351.32288	84.05312	204.72086	7.81297	0.2584476	0.28470535	2.2884370	20	7 19.0	18.7
364173	2006	KT ₂₅	17.8	X	288.05488	128.54086	220.02486	4.16212	0.2624973	0.28397213	2.2923745	20	6 1.5	20.2
364174	2006	KV ₄₇	17.6	X	68.92862	307.34846	220.60587	4.54930	0.0975006	0.27970580	2.3156259	20	4 30.1	20.2
364175	2006	KV ₄₉	18.4	X	303.78718	117.59050	186.92386	2.15572	0.2258369	0.27892694	2.3199346	20	4 21.8	20.7
364176	2006	KG ₆₂	17.4	X	133.15898	348.81424	109.17902	7.39661	0.0536137	0.27989668	2.3145730	20	5 13.3	20.4
364177	2006	KX ₈₉	17.7	X	338.91756	63.65015	230.52074	9.09934	0.2352193	0.28336211	2.2956633	20	6 19.5	19.1
364178	2006	KB ₉₂	18.1	X	263.20705	175.91060	148.63377	2.60796	0.2240055	0.27439372	2.3454163	20	3 31.7	21.7
364179	2006	KU ₁₃₈	18.1	X	5.63283	151.92505	54.96433	2.32194	0.1213064	0.27654081	2.3332605	20	4 4.2	20.0
364180	2006	OA ₈	17.9	X	288.96003	68.35486	224.41877	0.80619	0.1726100	0.26981714	2.3718635	20	3 24.2	20.8
364181	2006	OJ ₁₄	17.8	X	282.61002	162.67131	141.72413	1.90070	0.1878696	0.26879096	2.3778965	20	3 31.0	21.1
364182	2006	OF ₂₁	16.9	X	149.49247	333.25146	8.04306	5.54257	0.2344743	0.24038019	2.5617511	20	1 22.0	21.0
364183	2006	PJ ₂	17.9	X	241.78692	9.64365	310.26344	1.96473	0.2045137	0.26326503	2.4110558	20	3 6.9	21.8
364184	2006	PH ₇	17.4	X	332.10036	201.57914	137.44536	7.88588	0.1430474	0.28302803	2.2974695	20	8 30.3	19.1
364185	2006	PF ₈	17.7	X	294.51874	163.48628	155.81215	5.74214	0.2887843	0.27368658	2.3494546	20	4 21.3	20.6
364186	2006	PH ₈	17.8	X	312.51800	356.31604	338.01013	2.15971	0.2202810	0.27899215	2.3195731	20	6 25.0	19.6
364187	2006	PU ₁₀	17.9	X	270.32539	90.06347	209.92775	2.28889	0.2311754	0.26488363	2.4012238	20	3 5.7	21.5
364188	2006	PC ₂₆	17.3	X	254.97739	175.86327	120.66550	2.37975	0.1818781	0.26260821	2.4150744	20	2 21.8	20.8
364189	2006	PP ₂₇	16.9	X	248.68038	230.83129	104.23712	24.42900	0.2794581	0.26532460	2.3985625	20	4 8.3	21.5
364190	2006	PJ ₃₆	17.4	X	229.34999	16.31639	314.43456	0.44279	0.1864010	0.26147209	2.4220652	20	3 10.8	21.4
364191	2006	PU ₄₃	17.8	X	222.03129	179.10442	162.79120	2.51382	0.2116968	0.26032892	2.4291506	20	3 17.8	21.8
364192	2006	Qianruhu	17.2	X	278.26986	76.81862	233.42329	3.63613	0.2046690	0.26666568	2.3905140	20	3 29.5	20.6
364193	2006	QA ₃	17.5	X	214.63448	190.04415	145.77382	2.94491	0.2066177	0.25713281	2.4492384	20	3 4.8	21.5
364194	2006	QD ₃	16.2	X	296.95527	228.68829	142.86290	13.05694	0.2038345	0.27725498	2.3292520	20	7 25.9	18.5
364195	2006	QD ₁₂	18.0	X	238.81515	248.17493	85.66847	2.54669	0.1961897	0.26338536	2.4103215	20	3 23.9	21.7
364196	2006	QE ₁₉	17.5	X	223.78923	267.41751	91.74676	2.72626	0.2385851	0.26224676	2.4172930	20	4 9.3	21.6
364197	2006	QD ₂₁	17.7	X	291.87291	219.34095	90.36808	3.38422	0.2091977	0.27172866	2.3607269	20	4 16.6	20.6
364198	2006	QN ₄₃	17.3	X	271.20634	166.60663	141.74012	5.77357	0.2358963	0.26386308	2.4074113	20	3 19.1	20.9
364199	2006	QC ₄₇	17.3	X	238.06448	278.76049	70.35694	5.61669	0.2129094	0.26436994	2.4043333	20	4 11.3	21.1
364200	2006	QZ ₅₈	17.5	X	274.66510	90.11603	211.08090	2.31086	0.2197373	0.26624233	2.3930474	20	3 12.7	20.9
364201	2006	QG ₇₆	17.4	X	266.88615	183.52093	140.61350	2.72805	0.1952473	0.26639818	2.3921140	20	4 7.9	20.8
364202	2006	QA ₈₁	16.4	X	166.58101	232.26191	118.84198	4.68685	0.1580420	0.17888599	3.1195013	20	2 17.6	21.4
364203	2006	QO ₉₆	17.3	X	238.43818	223.56499	109.20821	2.30279	0.1999432	0.26068067	2.4269649	20	3 22.0	21.1
364204	2006	QR ₁₀₀	17.4	X	248.11108	92.89433	209.12741	14.65805	0.2769294	0.26091943	2.4254841	20	2 11.6	21.9
364205	2006	QC ₁₀₄	17.3	X	5.20136	43.35365	207.41327	8.33167	0.3412596	0.27838025	2.3229709	20	6 30.9	17.9
364206	2006	QC ₁₁₄	16.4	X	265.33773	351.77398	293.79868	14.93819	0.1969999	0.26066863	2.4270397	20	2 11.9	20.2
364207	2006	QC ₁₁₅	16.5	X	27.41131	86.08755	224.78499	9.52370	0.2589703	0.21735063	2.7396523	20	11 3.9	19.8
364208	2006	QS ₁₁₆	17.7	X	258.02876	98.95596	215.76261	4.01415	0.2178703	0.26274295	2.4142487	20	3 13.4	21.4
364209	2006	QU ₁₁₉	16.8	X	65.89793	167.75806	210.11365	4.40208	0.3383718	0.22914785	2.6447961	20	—	—
364210	2006	QB ₁₆₀	17.0	X	2.66764	130.29344	347.21925	4.71973	0.0328013	0.24096975	2.5575710	20	—	—
364211	2006	QO ₁₆₂	16.3	X	130.74780	96.67606	152.18041	14.83591	0.1232495	0.22575456	2.6712326	20	11 26.9	20.8
364212	2006	QO ₁₆₃	17.4	X	172.32006	103.16738	206.03127	4.26574	0.1498479	0.24457960	2.5323432	20	—	—
364213	2006	QO ₁₆₆	16.8	X	319.11287	81.96066	188.05875	21.59180	0.2680594	0.26787089	2.3833383	20	3 18.7	19.5
364214	2006	RA ₆	16.9	X	92.34280	350.69689	5.20409	7.84381	0.0976728	0.23075167	2.6325269	20	—	—
364215	2006	RQ ₁₇	17.1	X	254.27104	290.73441	36.51647	5.71374	0.2468370	0.26330233	2.4108281	20	3 26.2	20.9
364216	2006	RP ₃₆	17.2	X	327.63576	38.41552	271.94973	7.13753	0.1437577	0.27449869	2.3448183	20	6 29.5	19.3
364217	2006	RU ₄₃	17.6	X	198.62071	312.32742	36.17500	2.04459	0.1823737	0.25294729	2.4761828	20	3 7.7	21.6
364218	2006	RV ₄₃	17.4	X	322.20414	294.16598	181.06137	6.15646	0.0256506	0.22847045	2.6500213	20	—	—
364219	2006	RX ₄₆	16.7	X	359.23011	355.93591	131.17161	2.08203	0.0853599	0.23737321	2.5833401	20	—	—
364220	2006	RQ ₅₀	17.1	X	331.50045	88.44839	17.05073	8.02023	0.0348872	0.22745332	2.6579156	20	—	—
364221	2006	RX ₅₄	16.9	X	56.65111	242.33916	188.63473	13.37623	0.1298539	0.23628253	2.5912837	20	—	—
364222	2006	RO ₅₆	17.0	X	290.91839	28.38395	188.75414	5.41182	0.0792097	0.24331045	2.5411416	20	1 4.3	20.5
364223	2006	RC ₇₃	17.5	X	60.16942	23.57069	3.86967	4.18520	0.0933888	0.23184946	2.6242104	20	—	—
364224	2006	RT ₉₄	17.6	X	268.90095	351.66781	279.88623	1.74412	0.1810323	0.25279956	2.4771473	20	2 4.5	21.3
364225	2006	SC ₂₉	16.3	X	200.96906	235.45994	296.30911	12.35982	0.1776573	0.22391384	2.6858520	20	10 18.5	20.8
364226	2006	SQ ₃₁	17.2	X	257.81933	322.67017	352.68055	5.83794	0.2888385	0.26207841	2.4183281	20	3 9.8	21.3
364227	2006	SX ₄₃	17.9	X	238.36782	135.13308	189.89272	2.19344	0.2043371	0.26043250	2.4285065	20	3 10.6	21.9
364228	2006	SQ ₆₁	16.8	X	345.65155	66.25986	245.11004	6.74794	0.1469265	0.27642935	2.3338877	20	8 8.1	18.9
364229	2006	SY ₆₃	17.1	X	276.13904	306.68866	56.01946	3.25131	0.2357781	0.27057278	2.3674454	20	6 3.1	20.0
364230	2006	SN ₇₃	17.4	X	165.13618	286.88968								

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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>
364241 2006 SE ₁₈₉	16.6	X	327.81672	283.16262	176.55093	12.56813	0.2405102	0.22254911	2.6968211	20	—	—
364242 2006 SX ₁₈₉	16.9	X	50.32762	23.30037	7.69346	12.34684	0.1256946	0.23054409	2.6341068	20	—	—
364243 2006 SK ₁₉₄	18.7	X	123.29667	193.94081	197.18425	22.11139	0.0542688	0.38841905	1.8603830	20	—	—
364244 2006 ST ₂₀₀	17.3	X	15.05782	77.77408	5.58096	3.19991	0.0216099	0.23103470	2.6303764	20	—	—
364245 2006 SW ₂₀₃	17.0	X	162.18304	298.15957	23.60829	9.09794	0.0854348	0.24012185	2.5635882	20	—	—
364246 2006 SD ₂₀₆	17.1	X	93.20877	213.01158	195.49324	14.58287	0.1565571	0.23990879	2.5651058	20	1 27.0	20.6
364247 2006 SA ₂₀₇	16.9	X	357.82160	225.92432	185.11184	2.61145	0.1006228	0.22041377	2.7142108	20	—	—
364248 2006 SJ ₂₃₀	17.0	X	82.90217	351.92094	22.60806	14.10634	0.1904007	0.23408018	2.6075118	20	—	—
364249 2006 ST ₂₄₈	17.7	X	233.94208	132.84578	196.83262	14.13776	0.1719101	0.25736649	2.4477556	20	3 12.7	21.6
364250 2006 SW ₂₈₇	17.9	X	62.65285	197.94270	231.19626	21.50516	0.0867135	0.38377396	1.8753646	20	—	—
364251 2006 SX ₂₉₅	17.6	X	93.06791	158.45814	212.97354	1.35052	0.1987359	0.23550232	2.5970038	20	—	—
364252 2006 SE ₃₁₆	16.8	X	95.44635	64.75232	34.95986	8.78262	0.1799872	0.17553298	3.1591014	20	4 18.4	21.4
364253 2006 SF ₃₁₈	17.3	X	33.51899	275.20584	120.64800	3.06805	0.1598622	0.22586781	2.6703396	20	—	—
364254 2006 SH ₃₁₈	16.7	X	74.70997	203.21739	182.09477	12.42514	0.2006394	0.23251083	2.6192317	20	—	—
364255 2006 SC ₃₂₇	17.9	X	158.40438	165.76873	172.21200	3.99125	0.1888841	0.24206776	2.5498311	20	1 19.8	22.0
364256 2006 SW ₃₂₈	16.8	X	260.58200	132.58244	33.43449	13.60174	0.1996379	0.22236520	2.6983079	20	12 22.0	20.2
364257 2006 SR ₃₄₇	17.1	X	267.68259	207.92682	8.09616	3.65695	0.0961575	0.23718364	2.5847164	20	—	—
364258 2006 SO ₃₅₁	16.8	X	344.05000	17.09806	96.54559	4.38171	0.1229869	0.23312396	2.6146373	20	—	—
364259 2006 SE ₃₅₃	16.7	X	29.91819	3.49617	45.23286	8.58819	0.1576266	0.22681009	2.6629385	20	—	—
364260 2006 SV ₃₆₄	17.1	X	355.64820	330.21246	309.89734	4.61433	0.2140507	0.27407508	2.3472338	20	7 15.5	18.4
364261 2006 SN ₃₆₅	16.2	X	288.48944	333.43442	172.22603	12.26549	0.1866033	0.22283065	2.6945491	20	—	—
364262 2006 SH ₃₈₆	16.4	X	14.95367	272.77345	160.20746	14.83355	0.0728103	0.22657196	2.6648040	20	—	—
364263 2006 TL ₁	16.8	X	100.56576	335.84412	19.61257	14.25654	0.0886849	0.23586174	2.5943648	20	—	—
364264 2006 Marty _{martina}	17.7	X	307.99948	211.97147	119.32668	2.21420	0.2024126	0.27353734	2.3503091	20	6 13.6	19.8
364265 2006 TU ₁₅	18.2	X	298.99029	34.90980	209.73701	21.59276	0.0425904	0.39338298	1.8446997	20	1 16.1	20.7
364266 2006 TL ₂₂	17.2	X	162.08959	124.81023	209.06976	13.88262	0.1404580	0.23960059	2.5673050	20	1 12.4	21.4
364267 2006 TG ₂₇	16.7	X	276.09176	354.82079	213.48314	14.25022	0.0122931	0.23504170	2.6003957	20	—	—
364268 2006 TM ₂₉	17.5	X	57.19564	179.57784	201.89189	5.83118	0.0902818	0.22656886	2.6648283	20	—	—
364269 2006 TQ ₃₂	15.7	X	109.84815	239.06116	211.77216	13.61497	0.2742879	0.17363675	3.1820594	20	5 3.5	20.7
364270 2006 TY ₃₂	16.9	X	318.25888	254.91534	204.24548	4.51075	0.0784551	0.22069495	2.7119049	20	—	—
364271 2006 TU ₃₄	16.6	X	299.69906	110.24569	25.17431	6.02091	0.1189826	0.22191831	2.7019291	20	—	—
364272 2006 TU ₄₁	16.8	X	356.11662	22.73490	66.13134	11.11848	0.2005941	0.22560390	2.6724216	20	—	—
364273 2006 TW ₄₈	18.1	X	270.07273	109.51774	214.47759	9.32733	0.3280980	0.26336623	2.4104381	20	3 24.8	22.1
364274 2006 TF ₅₂	17.2	X	10.68754	334.34847	76.56788	4.20193	0.0990365	0.21993576	2.7181421	20	—	—
364275 2006 TM ₅₂	17.0	X	31.89119	323.10737	83.38182	3.36113	0.0919304	0.22379717	2.6867855	20	—	—
364276 2006 TO ₅₂	17.2	X	208.91299	179.30250	85.24453	3.11303	0.0194859	0.23086453	2.6316689	20	—	—
364277 2006 TL ₅₃	16.4	X	211.89736	237.21788	50.54043	12.25218	0.1448407	0.23929159	2.5695146	20	1 7.5	20.7
364278 2006 TZ ₅₈	17.7	X	67.60655	48.74111	327.35876	4.12183	0.0969724	0.22764329	2.6564367	20	—	—
364279 2006 TC ₆₅	17.2	X	277.98071	224.72797	234.99644	3.27347	0.1725780	0.21238860	2.7821588	20	10 24.0	20.5
364280 2006 TC ₆₆	17.6	X	221.90055	285.46966	48.95138	7.43096	0.1969277	0.25670031	2.4519887	20	3 12.6	21.7
364281 2006 TB ₇₁	16.9	X	139.79773	340.70447	11.39393	12.31189	0.1839081	0.24061934	2.5600534	20	1 23.1	20.9
364282 2006 TG ₇₃	16.7	X	65.54018	24.78977	14.37065	11.54825	0.1704306	0.23123356	2.6288681	20	—	—
364283 2006 TP ₇₈	16.2	X	307.94965	223.43723	214.67187	11.43482	0.0816942	0.21307417	2.7761878	20	11 23.9	19.6
364284 2006 TZ ₈₅	16.3	X	311.96934	270.06248	231.06857	12.82595	0.0980036	0.22567439	2.6718651	20	—	—
364285 2006 TF ₈₇	17.4	X	111.54193	329.33994	26.34531	5.04517	0.1674628	0.23305315	2.6151668	20	—	—
364286 2006 TO ₈₇	17.0	X	31.70103	151.96307	238.94735	4.98048	0.0321518	0.22183108	2.7026374	20	—	—
364287 2006 TJ ₈₉	16.6	X	57.60654	190.79833	232.27390	10.16953	0.1015946	0.23250677	2.6192622	20	—	—
364288 2006 TT ₈₉	16.8	X	309.98028	63.74753	21.48274	8.65033	0.1097811	0.21434052	2.7652423	20	12 3.4	20.1
364289 2006 TV ₈₉	16.5	X	116.10638	103.62939	233.08464	11.93331	0.2151465	0.23169168	2.6254017	20	—	—
364290 2006 TE ₉₃	18.2	X	180.75711	123.91224	214.11884	20.71282	0.0861029	0.38934452	1.8574338	20	1 7.9	20.8
364291 2006 TS ₉₇	16.4	X	263.87421	125.30161	29.35568	9.84478	0.0366494	0.21906062	2.7253765	20	—	—
364292 2006 TE ₁₀₀	16.9	X	168.92415	83.95519	224.68007	11.90590	0.0891573	0.23602835	2.5931438	20	—	—
364293 2006 TK ₁₀₃	17.3	X	137.71171	32.19408	329.11451	1.04724	0.0868696	0.23939006	2.5688100	20	1 17.1	20.8
364294 2006 TH ₁₀₈	15.8	X	257.85035	247.22749	79.11320	22.78294	0.2511401	0.26052840	2.4279105	20	4 8.8	20.2
364295 2006 TJ ₁₂₄	17.3	X	115.78683	93.22938	255.87013	3.44744	0.1535922	0.23367112	2.6105540	20	—	—
364296 2006 TJ ₁₂₅	16.9	X	294.28233	252.41652	213.92562	4.51433	0.1393344	0.21378486	2.7700317	20	12 4.9	20.0
364297 2006 TL ₁₂₆	16.2	X	117.82288	141.57001	239.89725	21.26617	0.0239230	0.23421123	2.6065391	20	1 5.1	20.0
364298 2006 TD ₁₂₉	16.6	X	204.61831	278.75593	15.33112	11.49889	0.1369085	0.24095223	2.5576950	20	1 9.3	20.8
364299 2006 UG ₄	17.6	X	39.66548	45.59368	346.86541	6.08984	0.0891924	0.22439801	2.6819873	20	—	—
364300 2006 UE ₉	16.9	X	106.62566	165.79209	208.67676	11.23637	0.1944110	0.23462084	2.6035045	20	1 9.4	20.5
364301 2006 UA ₁₄	16.6	X	17.74162	234.95926	215.45431	16.76805	0.1292470	0.22837397	2.6507676	20	—	—
364302 2006 UA ₁₅	17.6	X	214.37193	218.57440	115.64540	1.90247	0.2516922	0.25170460	2.4843262	20	3 2.5	21.8
364303 2006 UA ₂₂	16.8	X	54.63769	202.56470	220.92379	2.91112	0.0315546	0.23476463	2.6024413	20	—	—
364304 2006 UC ₂₈	17.4	X	167.21404	129.15514	209.73834	8.55716	0.2560213	0.24449288	2.5329420	20	1 30.8	—
364305 2006 UJ ₃₄	17.8	X	46.66864	345.31672	44.47406	3.24381	0.0649284	0.22606052	2.6688217	20	—	—
364306 2006 UJ ₃₅	17.2	X	141.64760	173.69814	177.54785	2.63515	0.2063662	0.23981198	2.5657961	20	1 22.0	21.0
364307 2006 UF ₃₆	17.1	X	352.33382	186.47417	232.37437	4.34531	0.0410054	0.21958915	2.7210016	20	—	—
364308 2006 UO ₃₉	17.2	X	169.20533	313.32606	28.79766	4.21928	0.1858657	0.24360312	2.5391059	20	2 5.4	21.2
364309 2006 UT ₄₀	17.6	X	179.03544	276.98961	42.44410	2.87629	0.0693207	0.23826505	2.5768896	20	1 10.4	21.4
364310 2006 UR ₄₃	17.4	X	225.42841	232.05410	46.20527	11.44510	0.1434956	0.24052542	2.5607198	20	1 8.4	21.6
364311 2006 UG ₄₄	17.5	X	102.68237	166.07789	209.91210	2.88014	0.0423343	0.23323715	2.6137912	20	—	—
364312 2006 UD ₄₇	17.0	X	283.41501	85.19193	51.41493	15.13744	0.1199419	0.21739439	2.7392846	20	12 29.5	20.4
364313 2006 UB ₅₄	17.1	X	173.80105	114.23446	219.71048	5.47640	0.2637808	0.24301167	2.5432241	20	1 31.3	21.7
364314 2006 UV ₆₂	16.8	X	71.79251	117.51648	254.10055	2.82313	0.2001011	0.22630353	2.6669108	20	—	—
364315 2006 UW ₆₈	17.6	X	223.65010	278.63299	92.17570							

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>
364321 2006 UT ₈₆	17.1	X	146.47221	115.03488	231.03374	9.34486	0.0641625	0.23570956	2.5954813	20	1 4.5	20.8
364322 2006 UA ₈₇	17.0	X	256.25999	292.95489	231.70038	8.50152	0.0629312	0.21836891	2.7311288	20	—	—
364323 2006 UE ₉₀	16.7	X	143.68286	339.64412	35.77151	6.54537	0.2227119	0.24257020	2.5463089	20	2 26.9	20.8
364324 2006 UD ₁₀₀	16.8	X	259.71819	356.13992	198.71274	13.39264	0.1020728	0.22717024	2.6601232	20	—	—
364325 2006 UO ₁₀₂	16.4	X	33.76004	52.86345	196.90653	10.86186	0.0430810	0.19431310	2.9521244	20	7 16.7	20.6
364326 2006 UW ₁₁₂	16.7	X	314.75459	285.85506	212.72130	8.73694	0.0913782	0.22872359	2.6480656	20	—	—
364327 2006 UC ₁₁₄	17.4	X	299.25224	274.29692	210.78051	10.64519	0.0271726	0.22402386	2.6849727	20	—	—
364328 2006 UN ₁₁₄	17.1	X	262.48128	190.76633	344.05889	0.47957	0.0712652	0.22618086	2.6678750	20	—	—
364329 2006 UZ ₁₁₅	16.9	X	314.66388	272.73003	206.30919	20.31201	0.1611641	0.22280412	2.6947630	20	—	—
364330 2006 UG ₁₂₀	16.8	X	280.94430	286.11727	196.97393	7.73743	0.1598202	0.21617645	2.7495638	20	12 3.6	20.0
364331 2006 UK ₁₂₉	16.4	X	282.57940	233.14552	221.33696	12.49187	0.1754518	0.21074016	2.7966483	20	10 23.4	19.7
364332 2006 UN ₁₃₆	16.6	X	333.41879	179.43117	238.26536	8.95464	0.1955633	0.21449055	2.7639527	20	12 12.7	19.2
364333 2006 UR ₁₃₇	17.1	X	218.54363	277.97660	8.24321	4.47090	0.1325398	0.23983619	2.5656234	20	1 11.8	21.2
364334 2006 UY ₁₃₉	17.3	X	262.81561	209.08103	282.45791	5.58934	0.0587960	0.21349989	2.7724961	20	11 28.9	20.9
364335 2006 US ₁₄₀	16.4	X	221.13064	343.81704	243.28509	11.99305	0.0817612	0.22553026	2.6730033	20	—	—
364336 2006 UD ₁₄₁	16.9	X	123.06824	291.54021	66.76362	5.02039	0.2051698	0.23513335	2.5997199	20	1 13.0	20.5
364337 2006 UJ ₁₄₃	17.3	X	96.41494	69.83673	300.48333	2.45410	0.2758604	0.23450530	2.6043596	20	1 5.1	20.3
364338 2006 UD ₁₄₉	16.5	X	268.36775	323.09165	210.29752	12.85803	0.1969784	0.22368072	2.6877179	20	—	—
364339 2006 UA ₁₅₆	16.9	X	289.97928	359.87789	138.36814	6.27826	0.1256750	0.22412059	2.6842000	20	—	—
364340 2006 UJ ₁₆₁	17.6	X	231.95218	264.07332	64.58889	4.50192	0.2100792	0.25591293	2.4570155	20	3 12.3	21.6
364341 2006 UR ₁₆₆	16.8	X	263.10878	84.02873	144.88118	3.98814	0.1720703	0.23912664	2.5706961	20	—	—
364342 2006 UM ₁₇₆	17.0	X	8.58989	267.30141	141.45610	5.90642	0.1688290	0.22267801	2.6957803	20	—	—
364343 2006 UZ ₁₈₁	17.0	X	140.61065	290.67383	61.90561	14.82178	0.1772359	0.23880502	2.5730037	20	1 22.7	21.1
364344 2006 UF ₁₈₂	17.5	X	277.54819	226.11702	140.54068	4.84239	0.2479794	0.26914865	2.3757893	20	6 9.5	20.7
364345 2006 UD ₁₉₂	16.9	X	228.81656	83.02087	283.17124	5.20122	0.1480157	0.25930336	2.4355514	20	4 24.6	20.6
364346 2006 UC ₁₉₇	16.4	X	244.78214	117.03410	43.03420	14.62701	0.1482631	0.21451503	2.7637424	20	11 26.7	20.3
364347 2006 UE ₁₉₈	17.4	X	99.12381	295.60429	48.08721	6.41141	0.0870261	0.22714378	2.6603298	20	—	—
364348 2006 UM ₁₉₈	17.6	X	188.60715	294.26012	41.29712	6.41312	0.1621843	0.24556077	2.5255931	20	2 14.5	21.7
364349 2006 UR ₁₉₉	17.1	X	270.35327	105.62620	21.84209	7.86791	0.1732525	0.21830483	2.7316632	20	11 18.2	20.3
364350 2006 UC ₂₀₅	16.5	X	333.17814	294.93212	209.83463	12.27127	0.1226592	0.23296617	2.6158177	20	—	—
364351 2006 UF ₂₀₉	18.0	X	288.54803	177.79517	170.85355	2.07875	0.2293918	0.26915143	2.3757729	20	6 1.9	20.6
364352 2006 UH ₂₁₇	16.4	X	81.81049	172.13827	232.09933	7.52368	0.1705919	0.23310237	2.6147987	20	1 9.7	19.5
364353 2006 UM ₂₂₁	17.7	X	218.58443	245.65446	106.41443	4.95222	0.2458090	0.25836111	2.4414694	20	3 28.6	21.9
364354 2006 UA ₂₂₉	16.0	X	116.02640	316.21036	61.51060	14.67933	0.1150457	0.23542316	2.5975860	20	1 17.7	19.7
364355 2006 UY ₂₃₀	17.0	X	135.32130	339.17140	42.45179	13.93744	0.1376732	0.24505988	2.5290335	20	2 21.4	20.9
364356 2006 UZ ₂₃₇	17.3	X	256.72832	315.79561	195.16604	4.84867	0.1137025	0.21869450	2.7284174	20	12 9.9	20.7
364357 2006 UR ₂₄₇	16.9	X	197.77852	209.22930	220.31429	9.06494	0.0800029	0.19046199	2.9917859	20	6 18.7	21.6
364358 2006 UH ₂₅₃	16.8	X	243.21209	41.12244	129.78918	10.12215	0.1845615	0.24158310	2.5532402	20	—	—
364359 2006 UY ₂₅₉	17.1	X	214.34336	343.01038	333.54800	0.65474	0.0742996	0.24717943	2.5145551	20	2 12.7	20.6
364360 2006 US ₂₆₉	16.3	X	150.39461	110.42423	241.53442	13.95053	0.1370421	0.23955343	2.5676419	20	1 21.0	20.4
364361 2006 UQ ₂₇₀	16.9	X	349.66884	191.90591	225.88936	7.67280	0.0461000	0.21720231	2.7408994	20	12 27.5	20.5
364362 2006 UM ₂₇₆	16.6	X	321.39387	257.94329	207.75935	20.94719	0.0592553	0.22438088	2.6821238	20	—	—
364363 2006 UP ₂₇₈	18.1	X	195.47364	82.43338	221.99921	8.89280	0.1787322	0.24243589	2.5472492	20	1 10.7	22.5
364364 2006 UW ₂₈₀	17.4	X	106.47288	304.34189	60.25020	4.65491	0.1453583	0.23274048	2.6175085	20	—	—
364365 2006 UE ₂₈₄	16.6	X	276.87453	125.85633	128.25430	8.77498	0.0898719	0.19229145	2.9727797	20	6 14.2	20.7
364366 2006 UM ₃₀₂	18.3	X	214.80678	153.43634	163.06705	3.36598	0.1983813	0.25416591	2.4682616	20	2 10.2	22.5
364367 2006 UH ₃₁₃	17.1	X	204.36643	24.06095	240.00917	13.58748	0.1058416	0.23038034	2.6359041	20	—	—
364368 2006 UP ₃₃₄	17.6	X	9.04640	207.10427	223.52982	4.55307	0.0309163	0.22520886	2.6755459	20	—	—
364369 2006 UO ₃₃₅	17.1	X	118.66177	344.71640	34.93698	1.09997	0.1713395	0.23685533	2.5871043	20	1 29.7	20.7
364370 2006 VH ₄	17.1	X	107.57451	15.26284	7.15470	1.53696	0.2381896	0.23647884	2.5898495	20	1 29.5	20.6
364371 2006 VL ₇	17.0	X	40.39392	320.35671	60.37444	5.90362	0.1714281	0.22122390	2.7075804	20	—	—
364372 2006 VT ₉	16.4	X	327.36127	44.69099	46.00635	14.11941	0.1456910	0.21869929	2.7283776	20	—	—
364373 2006 VX ₁₅	17.1	X	348.16986	38.24782	30.82438	6.19380	0.0337994	0.21892673	2.7264876	20	—	—
364374 2006 VD ₁₇	17.2	X	167.48086	0.46037	321.87303	1.02545	0.0892702	0.23605304	2.5929630	20	1 2.9	20.8
364375 2006 VH ₁₇	16.8	X	51.97878	134.38155	240.42990	4.69107	0.0493987	0.22191623	2.7019460	20	—	—
364376 2006 VV ₁₉	17.4	X	102.16464	86.40621	260.43464	3.80348	0.1418843	0.22801089	2.6535808	20	—	—
364377 2006 VZ ₁₉	17.5	X	88.00551	8.04840	17.13592	2.40525	0.0941062	0.23090291	2.6313772	20	—	—
364378 2006 VS ₂₂	16.4	X	236.02575	48.15821	59.11996	10.27546	0.0365165	0.20323516	2.8650804	20	10 1.3	20.5
364379 2006 VW ₂₄	17.2	X	143.87895	95.37520	224.46471	9.75457	0.1339476	0.23108464	2.6299975	20	—	—
364380 2006 VC ₂₈	16.4	X	126.24781	116.18231	251.06454	11.88429	0.2196098	0.23686248	2.5870523	20	1 24.8	20.3
364381 2006 VT ₂₈	16.9	X	153.17563	324.70821	6.53288	3.03021	0.1752072	0.23475946	2.6024795	20	1 7.7	20.9
364382 2006 VU ₂₈	17.1	X	346.56644	118.84739	298.64795	3.28727	0.0591208	0.21474235	2.7617917	20	12 23.9	20.6
364383 2006 VT ₃₅	17.1	X	236.94681	109.56604	54.82961	8.64948	0.1646982	0.21229219	2.7830010	20	11 21.6	20.9
364384 2006 VC ₄₈	16.4	X	229.87791	50.21325	222.88910	10.81739	0.1588104	0.23858491	2.5745860	20	1 3.7	20.7
364385 2006 VR ₅₆	17.1	X	352.95071	215.95466	228.09201	8.06415	0.1359831	0.22079807	2.7110605	20	—	—
364386 2006 VN ₆₀	17.3	X	257.88637	53.86485	210.80124	9.67887	0.1089633	0.24638696	2.5199441	20	1 20.9	21.3
364387 2006 VN ₆₉	17.1	X	214.24719	84.63664	236.09150	3.73095	0.2360772	0.24518007	2.5282069	20	2 14.0	21.5
364388 2006 VV ₆₉	17.1	X	339.44528	222.18494	222.86042	4.21326	0.1408170	0.21711412	2.7416415	20	—	—
364389 2006 VN ₇₀	16.4	X	126.03592	311.79772	67.17126	10.79582	0.1686081	0.23736907	2.5833701	20	2 9.2	20.2
364390 2006 VJ ₇₄	16.5	X	100.37587	286.18443	74.02338	15.35269	0.1300372	0.22756073	2.6570792	20	—	—
364391 2006 VW ₇₉	16.8	X	61.69437	290.14043	85.95129	6.45629	0.0884807	0.22359689	2.6883896	20	—	—
364392 2006 VL ₈₂	16.5	X	192.03764	32.09160	243.17351	13.64238	0.0673198	0.23027132	2.6361866	20	—	—
364393 2006 VT ₈₄	16.3	X	172.25377	40.97421	273.59244	12.33783	0.1663916	0.23716261	2.5848692	20	1 3.6	20.3
364394 2006 VE ₈₅	16.4	X	103.83620	150.76233	219.43236	12.85504	0.1966891	0.2				

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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>
364401 2006 VO ₁₀₂	16.5	X	80.89807	278.81874	72.07584	12.15736	0.0924398	0.22293794	2.6936845	20	—	—
364402 2006 VR ₁₀₅	16.9	X	181.51201	254.04831	52.20497	6.79688	0.1214833	0.23582503	2.5946341	20	—	—
364403 2006 VH ₁₁₁	17.0	X	139.96376	328.59081	36.30118	6.82399	0.1470321	0.23762741	2.5814974	20	2 3.0	20.8
364404 2006 VB ₁₁₂	16.3	X	312.72199	326.61633	116.03152	10.34295	0.2650216	0.21192748	2.7861930	20	12 1.9	18.6
364405 2006 VR ₁₁₅	17.1	X	191.33508	83.45908	228.74222	8.42684	0.1352095	0.23918790	2.5702571	20	1 15.0	21.2
364406 2006 VW ₁₂₀	16.6	X	234.13954	178.72370	54.81942	11.69165	0.1085321	0.22828490	2.6514570	20	—	—
364407 2006 VF ₁₂₁	16.0	X	211.02552	46.91569	246.35130	12.83427	0.0552524	0.23917908	2.5703204	20	1 9.7	19.9
364408 2006 VE ₁₃₈	17.0	X	128.90980	191.67951	83.96836	6.70597	0.0267268	0.21498214	2.7597376	20	12 20.4	20.8
364409 2006 VJ ₁₄₀	16.6	X	57.13255	322.55917	77.34142	6.98258	0.0567138	0.22513222	2.6761531	20	—	—
364410 2006 VA ₁₅₃	16.7	X	210.88600	57.93440	21.55521	19.28495	0.4038808	0.18690845	3.0295870	20	6 28.3	22.8
364411 2006 VA ₁₇₁	17.4	X	189.68496	108.78651	226.74700	4.34022	0.2197595	0.24335169	2.5408545	20	2 12.6	21.7
364412 2006 WX ₂	17.6	X	258.99347	329.71398	255.58346	17.27713	0.0376199	0.37622615	1.9003637	20	—	—
364413 2006 WC ₃	17.2	X	143.42606	26.13875	266.10526	17.98521	0.0541721	0.36968070	1.9227295	20	—	—
364414 2006 WC ₄	17.9	X	294.77471	59.03862	74.23576	23.15272	0.1041997	0.36252452	1.9479499	20	—	—
364415 2006 WG ₆	16.1	X	219.01779	218.64585	75.91191	13.39169	0.1245700	0.23972305	2.5664306	20	1 23.2	20.2
364416 2006 WC ₁₀	16.8	X	215.06602	95.38843	208.64006	8.22351	0.1190743	0.24040255	2.5615923	20	1 26.8	20.9
364417 2006 WU ₁₂	16.9	X	121.17388	268.22293	86.09287	9.97222	0.0743472	0.22975432	2.6401398	20	—	—
364418 2006 WX ₂₄	17.1	X	172.32370	246.00081	111.43234	4.90381	0.2203702	0.24365535	2.5387430	20	2 28.1	21.4
364419 2006 WK ₂₈	16.9	X	120.72423	146.25104	223.21970	5.87844	0.1726174	0.23498494	2.6008144	20	1 17.9	20.6
364420 2006 WC ₃₇	17.1	X	202.00132	98.65158	215.72264	10.79930	0.1914202	0.24231614	2.5480884	20	1 26.6	21.6
364421 2006 WU ₄₀	16.9	X	334.88103	305.67579	166.30234	5.28924	0.0131397	0.22262266	2.6962271	20	—	—
364422 2006 WR ₅₇	17.0	X	295.20246	257.77540	236.95063	4.78603	0.0860642	0.22265599	2.6959580	20	—	—
364423 2006 WJ ₇₁	17.3	X	307.37633	22.70370	260.66591	3.59091	0.0744976	0.25509987	2.4622334	20	4 21.9	20.2
364424 2006 WU ₇₄	17.2	X	23.97551	153.21429	249.36036	4.28971	0.1186034	0.22071575	2.7117345	20	—	—
364425 2006 WF ₇₈	17.2	X	192.47738	288.96695	282.32383	4.69910	0.1253330	0.23892928	2.5721116	20	1 24.9	21.2
364426 2006 WR ₉₀	16.5	X	88.76293	358.49308	326.16157	18.39267	0.2834651	0.22682419	2.6628282	20	—	—
364427 2006 WU ₉₃	17.0	X	232.09637	334.05279	211.92778	4.40471	0.0964609	0.21629006	2.7486008	20	12 23.2	20.8
364428 2006 WX ₉₄	16.7	X	243.96181	13.29461	227.76941	10.42465	0.1415530	0.23212765	2.6221134	20	—	—
364429 2006 WY ₁₀₁	16.5	X	59.80158	332.96514	80.19356	13.33628	0.1496862	0.23087952	2.6315549	20	—	—
364430 2006 WF ₁₀₇	16.7	X	87.12162	180.74922	209.78972	14.74634	0.1362312	0.23222201	2.6214030	20	—	—
364431 2006 WR ₁₁₀	16.2	X	192.78687	148.09915	243.47694	9.11104	0.1400766	0.17863969	3.1223679	20	4 25.3	21.3
364432 2006 WP ₁₄₂	17.0	X	210.53668	65.36863	221.01897	13.29387	0.1219273	0.23617105	2.5920992	20	1 2.2	21.2
364433 2006 WL ₁₄₃	17.0	X	270.59097	7.06459	170.50840	2.00147	0.0179626	0.22284112	2.6944647	20	—	—
364434 2006 WB ₁₆₄	16.6	X	237.70954	159.37309	76.65849	6.44024	0.1242781	0.22967095	2.6407787	20	—	—
364435 2006 WK ₁₇₉	17.4	X	316.41595	7.77845	73.94585	5.15629	0.0750413	0.21326929	2.7744942	20	12 10.9	20.7
364436 2006 WC ₁₈₂	17.6	X	160.61034	99.10334	228.91594	1.96769	0.2472296	0.23673232	2.5880004	20	1 15.3	21.8
364437 2006 WQ ₁₈₆	16.5	X	194.77886	118.19817	211.79428	11.69912	0.1185227	0.24257040	2.5463075	20	2 6.0	20.7
364438 2006 WC ₁₈₇	16.8	X	146.76895	128.83271	213.37391	11.39190	0.2901269	0.23839044	2.5762093	20	1 21.3	21.3
364439 2006 WK ₁₈₉	16.6	X	309.01439	355.24626	105.83196	9.29869	0.1815786	0.21328756	2.7743358	20	12 22.4	19.3
364440 2006 WQ ₁₉₃	18.1	X	320.14245	72.82287	74.67158	23.48899	0.0574804	0.37091855	1.9184494	20	—	—
364441 2006 XC ₂	17.5	X	54.96884	7.48263	60.87424	23.23942	0.0915877	0.37372185	1.9088438	20	—	—
364442 2006 XR ₅	16.5	X	65.32324	318.45713	90.51142	12.61811	0.1741112	0.23096547	2.6309020	20	—	—
364443 2006 XN ₁₇	16.6	X	152.21649	286.32999	78.77277	9.33735	0.2629132	0.23675174	2.5878589	20	2 26.6	21.1
364444 2006 XF ₂₁	16.0	X	143.32121	40.44537	104.12150	18.49790	0.0876453	0.18215644	3.0820501	20	7 25.3	20.7
364445 2006 XG ₂₆	16.6	X	345.24127	331.75773	99.56366	12.86094	0.1499501	0.21590783	2.7518438	20	—	—
364446 2006 XR ₄₆	16.4	X	133.02236	10.37908	3.79881	4.27621	0.3013521	0.23944690	2.5684034	20	2 21.7	20.5
364447 2006 XS ₆₂	16.5	X	152.14768	282.80718	93.84970	5.52123	0.2605640	0.23928353	2.5695723	20	3 9.4	20.9
364448 2006 XU ₆₂	16.5	X	98.79002	273.69033	91.88261	8.37544	0.0586457	0.22066377	2.7121603	20	—	—
364449 2006 XD ₆₄	16.7	X	77.51893	273.53159	108.34398	13.29586	0.2631261	0.22863407	2.6487568	20	—	—
364450 2006 YE ₅	17.1	X	280.42693	181.82472	150.84654	1.65994	0.1226375	0.26000695	2.4311555	20	5 16.3	20.1
364451 2006 YA ₇	16.6	X	91.34458	170.82506	127.95528	13.78589	0.1907717	0.23131214	2.6282727	20	1 6.2	20.0
364452 2006 YJ ₁₅	16.7	X	137.88039	199.49158	166.49601	5.57975	0.3107773	0.23948035	2.5681643	20	2 14.9	20.9
364453 2006 YB ₂₂	16.8	X	177.22212	171.58633	32.68388	2.36913	0.0144780	0.20460981	2.8522336	20	11 17.4	20.6
364454 2006 YU ₂₂	15.9	X	258.35598	92.54350	290.34155	9.84412	0.1562291	0.18697764	3.0288396	20	6 19.2	20.5
364455 2006 YS ₅₅	16.4	X	170.28371	84.67392	34.04582	7.68924	0.2860194	0.18115205	3.0934318	20	7 22.9	22.0
364456 2007 AN	16.3	X	147.23448	264.83653	72.25587	14.80677	0.2206359	0.23225918	2.6211234	20	1 14.0	20.5
364457 2007 AK ₈	16.4	X	219.10528	210.86536	124.27004	16.74277	0.1691669	0.23893072	2.5721012	20	3 14.4	20.8
364458 2007 AO ₁₂	18.0	X	92.20654	289.38110	114.74260	24.65939	0.0835617	0.37494723	1.9046826	20	—	—
364459 2007 AW ₁₆	15.7	X	185.77806	15.54379	89.74960	17.77925	0.0824594	0.18326036	3.0696606	20	7 21.4	20.5
364460 2007 BR ₇	17.5	X	164.10461	189.00808	122.08794	23.95158	0.0515295	0.36699017	1.9321155	20	—	—
364461 2007 BR ₂₀	17.0	X	69.69909	227.90289	134.57588	24.77071	0.0830704	0.35709097	1.9676604	20	—	—
364462 2007 BC ₄₀	16.8	X	86.04357	228.87560	125.33644	5.18768	0.0796632	0.21367978	2.7709399	20	—	—
364463 2007 BY ₆₃	16.8	X	309.55011	285.28461	148.18250	7.40602	0.0416106	0.20062810	2.898471	20	11 20.3	20.7
364464 2007 BD ₈₁	16.7	X	141.42784	93.76330	115.18422	3.76192	0.1650440	0.18836683	3.0139296	20	10 14.2	21.7
364465 2007 CE ₁	16.6	X	141.86134	266.50712	327.80793	4.23111	0.1451369	0.19317034	2.9637558	20	11 10.3	21.4
364466 2007 CC ₁₀	16.5	X	196.51667	340.37002	129.10211	5.76118	0.1658493	0.18507419	3.0495714	20	8 2.3	21.4
364467 2007 CD ₂₈	16.6	X	135.80707	76.60159	144.19870	12.14583	0.1303909	0.18976981	2.9990564	20	10 24.9	21.5
364468 2007 CS ₂₈	17.0	X	7.13715	106.05233	302.96650	5.47939	0.0279569	0.20878328	2.8140959	20	—	—
364469 2007 CJ ₅₇	16.2	X	132.16742	74.78028	118.03233	20.54255	0.2621251	0.18300913	3.0724692	20	9 25.8	21.9
364470 2007 CM ₆₅	15.7	X	136.25693	158.76975	337.12123	13.69606	0.1156863	0.17202467	3.2019083	20	7 10.6	20.8
364471 2007 DK ₁₁	16.2	X	93.13424	91.34314	163.73423	11.53892	0.1368799	0.18130753	3.0916631	20	10 22.6	21.0
364472 2007 DL ₁₆	16.4	X	237.37739	323.58242	116.72092	6.78528	0.1402748	0.18557888	3.0440400	20	8 9.7	20.8
364473 2007 DF ₂₁	16.7	X	185.86786	2.56997	148.12827	6.42078	0.1307400	0.18621803	3.0370707	20	9 14.3	21.5
364474 2007 DN ₂₃	17.3	X	192.45056	332.55111	161.39978	1.19268	0.1174600	0.18494951	3.0509415			

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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>
364481 2007 DB ₃₉	15.8 ^m	X	204.74455	95.17332	9.77543	10.84747	0.0712419	0.17777593	3.1324735	20	8 14.4	20.6
364482 2007 DO ₄₁	17.3	X	134.20321	177.29605	153.35274	25.45566	0.0676795	0.36095850	1.9535800	20	—	—
364483 2007 DE ₆₅	15.8	X	11.75541	331.42013	338.46870	16.33280	0.2063596	0.17913322	3.1166304	20	9 16.4	19.4
364484 2007 DE ₇₀	16.6	X	49.63407	186.46392	155.57321	2.70260	0.1019814	0.19480938	2.9471086	20	12 13.7	20.7
364485 2007 DY ₇₄	16.6	X	95.14978	74.74312	150.06831	1.24040	0.1353823	0.17806795	3.1290479	20	9 14.9	21.3
364486 2007 DA ₉₅	15.5	X	143.67078	167.17081	5.73723	16.66004	0.1243457	0.18001431	3.1064523	20	9 4.5	20.5
364487 2007 DO ₉₆	16.4	X	92.13748	58.58606	174.00288	12.17341	0.0989614	0.17914635	3.1164780	20	9 17.0	21.0
364488 2007 DM ₉₈	16.8	X	133.28895	81.84549	150.74725	12.99148	0.2810369	0.18633978	3.0357476	20	11 8.4	22.4
364489 2007 DQ ₁₀₆	17.3	X	202.22507	302.18225	210.35829	0.65229	0.1187343	0.19006968	2.9959012	20	10 2.6	21.9
364490 2007 DM ₁₁₄	16.4	X	152.45686	128.31181	25.71805	5.43248	0.1126786	0.17506835	3.1646884	20	8 17.5	21.4
364491 2007 DQ ₁₁₇	15.5	X	310.62397	355.36120	358.76525	11.14986	0.0856456	0.17405142	3.1770033	20	8 4.9	19.7
364492 2007 EX ₁	16.5	X	87.78073	101.52582	169.00856	6.64359	0.1155788	0.18566506	3.0430979	20	11 1.9	21.1
364493 2007 EH ₄	16.0	X	80.35601	192.75872	147.88683	16.07266	0.1404931	0.20613251	2.8381699	20	—	—
364494 2007 EC ₈	15.2	X	86.70248	249.26261	357.85515	15.79009	0.0837441	0.18104655	3.0946335	20	9 25.9	19.8
364495 2007 EO ₁₁	15.9	X	205.83189	114.12708	160.21279	13.47103	0.1870364	0.21121827	2.7924264	20	—	—
364496 2007 EH ₃₀	16.0	X	227.77056	339.97965	156.93240	8.00353	0.1002669	0.19027298	2.9937668	20	10 15.3	20.4
364497 2007 ET ₃₁	16.3	X	127.63232	136.05875	86.55172	3.44458	0.1527652	0.18653196	3.0336622	20	10 17.3	21.3
364498 2007 EH ₃₉	15.8	X	278.06336	316.89515	134.59432	11.13148	0.0743038	0.18925605	3.0044815	20	10 27.5	20.0
364499 2007 EY ₅₃	15.5	X	198.76610	251.29581	200.95812	25.14393	0.2008247	0.17133725	3.2104669	20	7 8.2	21.4
364500 2007 EU ₅₇	15.6	X	209.30908	9.40987	152.18792	11.18155	0.0571330	0.19099389	2.9852287	20	10 30.9	20.1
364501 2007 EA ₆₁	16.7	X	185.40114	120.31754	7.55731	7.09199	0.1701517	0.18192896	3.0846188	20	8 16.7	21.8
364502 2007 EV ₆₇	16.6	X	153.74781	133.99949	8.02703	10.33858	0.1642210	0.17615090	3.1517092	20	8 7.0	21.9
364503 2007 EV ₇₂	16.4	X	150.21954	36.80073	137.80476	2.31667	0.1232084	0.17962869	3.1108966	20	9 8.2	21.2
364504 2007 EL ₇₄	16.4	X	95.91856	40.47025	216.83855	3.49952	0.1712001	0.18022744	3.1040028	20	10 28.1	21.1
364505 2007 EF ₇₅	16.0	X	22.81919	134.90896	193.98313	10.23216	0.0801744	0.18184781	3.0855363	20	10 18.3	19.9
364506 2007 EX ₇₅	16.0	X	114.95247	59.54414	187.97870	19.45196	0.0447526	0.18439505	3.0570547	20	10 28.0	20.6
364507 2007 EY ₈₈	16.7	X	141.99301	356.54326	163.77375	3.82639	0.1449131	0.17962595	3.1109283	20	8 13.8	21.7
364508 2007 EH ₈₉	16.9	X	180.26148	324.03537	175.32435	1.71770	0.1050748	0.18396811	3.0617826	20	8 25.3	21.7
364509 2007 EY ₉₂	16.6	X	92.02350	66.72942	160.68520	10.79017	0.2200143	0.17905596	3.1175268	20	9 25.1	21.5
364510 2007 EG ₉₆	16.5	X	120.19138	53.11398	191.47876	11.46314	0.1544080	0.18163432	3.0879537	20	11 4.9	21.5
364511 2007 EY ₉₇	16.4	X	182.91235	331.08645	167.08486	13.27888	0.1399299	0.18217450	3.0818464	20	8 24.4	21.4
364512 2007 EE ₁₀₀	16.6	X	140.87905	32.12995	149.22159	1.35232	0.1147008	0.18010507	3.1054086	20	9 6.8	21.5
364513 2007 EJ ₁₁₈	16.4	X	94.86653	107.93184	105.68070	2.54113	0.1411666	0.17133414	3.2105057	20	9 1.7	21.2
364514 2007 EU ₁₂₈	16.8	X	186.36406	141.74711	348.87597	2.68963	0.0773163	0.18080450	3.0973947	20	8 22.4	21.4
364515 2007 EF ₁₃₂	16.4	X	153.15913	333.74440	178.00988	12.96640	0.1084926	0.17625372	3.1504834	20	8 10.9	21.4
364516 2007 EK ₁₃₉	16.6	X	6.90916	236.41545	150.64677	10.12738	0.0423098	0.19496043	2.9455862	20	12 7.9	20.7
364517 2007 EC ₁₄₅	16.8	X	102.78436	134.96421	67.00604	2.24168	0.1256853	0.17524160	3.1626023	20	8 25.6	21.6
364518 2007 EJ ₁₄₈	16.6	X	103.52293	132.30969	158.81917	11.05307	0.2869870	0.18685903	3.0301211	20	12 20.6	22.1
364519 2007 EE ₁₅₁	16.5	X	95.12836	105.70992	135.24362	5.08305	0.0172203	0.18256923	3.0774027	20	9 23.1	20.8
364520 2007 EP ₁₅₂	15.7	X	152.83434	27.37220	132.33704	6.21878	0.0902843	0.17868010	3.1218971	20	8 23.1	20.4
364521 2007 EQ ₁₆₈	15.5	X	127.67757	172.21072	33.66656	10.91580	0.0259489	0.17760253	3.1345120	20	9 21.5	20.1
364522 2007 EX ₁₆₈	16.2	X	119.95661	51.60109	180.70899	10.99013	0.0364737	0.18086446	3.0967102	20	10 13.4	20.7
364523 2007 EQ ₁₈₀	15.6	X	67.54940	89.33845	208.38336	25.33284	0.2179843	0.17674760	3.1446118	20	11 21.8	20.6
364524 2007 EW ₁₈₁	16.0	X	101.37735	20.67532	207.31678	16.10373	0.1613390	0.17445371	3.1721173	20	9 24.8	21.1
364525 2007 EC ₁₈₈	16.3	X	99.28657	146.04755	84.87951	3.98491	0.1958989	0.17972203	3.1098195	20	10 4.3	21.3
364526 2007 EW ₁₉₉	16.1	X	174.62022	118.79365	12.15646	10.44943	0.1209463	0.17750603	3.1356481	20	8 12.9	21.2
364527 2007 EJ ₂₀₁	17.2	X	254.05373	298.50485	221.33372	18.95633	0.1824425	0.34978936	1.9949483	20	—	—
364528 2007 EP ₂₀₅	15.6	X	207.09057	31.61735	145.22987	16.14296	0.0592614	0.19298210	2.9656828	20	11 17.3	20.2
364529 2007 EJ ₂₁₃	16.4	X	314.87238	223.08119	191.13254	10.73513	0.0586100	0.18837777	3.0138129	20	10 30.1	20.3
364530 2007 EU ₂₁₆	15.6	X	52.82259	86.53642	173.04014	25.91663	0.2882474	0.17281801	3.1921016	20	10 1.2	20.1
364531 2007 FU ₂	15.5	X	141.04055	159.69793	37.24985	16.73009	0.1662774	0.18216482	3.0819556	20	10 3.1	20.7
364532 2007 FP ₂₂	16.3	X	92.72370	71.79035	176.55768	9.11907	0.1690349	0.17789137	3.1311182	20	10 15.5	21.2
364533 2007 FH ₂₄	16.1	X	63.21608	84.19412	182.65526	6.50924	0.1097779	0.17606256	3.1527634	20	9 26.5	20.6
364534 2007 FD ₂₆	16.7	X	115.45428	76.07572	182.58839	2.20857	0.0995129	0.18920618	3.0050094	20	11 13.9	21.3
364535 2007 FW ₂₆	16.7	X	295.98559	260.49385	187.30138	6.53229	0.0637670	0.19189483	2.9768746	20	11 15.1	20.6
364536 2007 FV ₂₇	16.4	X	266.44048	299.95663	178.93539	11.52323	0.0752921	0.19520457	2.9431297	20	11 14.1	20.5
364537 2007 FV ₃₁	16.2	X	356.24970	124.57195	207.25577	9.05751	0.0855792	0.17448518	3.1717359	20	9 8.7	20.3
364538 2007 FR ₄₂	15.9	X	89.03364	75.55266	146.22086	31.56469	0.2982786	0.17313741	3.1881746	20	9 24.8	21.4
364539 2007 FG ₄₃	15.2	X	126.41281	199.87720	307.05077	15.89618	0.1508048	0.16931722	3.2359512	20	7 15.5	20.3
364540 2007 FD ₅₀	15.5	X	53.77948	160.77070	97.30491	10.21604	0.0843446	0.16992634	3.2282135	20	9 2.9	20.0
364541 2007 FJ ₅₀	15.4	X	244.30738	342.56586	108.23643	12.14582	0.0548597	0.17660948	3.1462511	20	9 14.3	20.0
364542 2007 GF ₁	16.1	X	160.39227	25.98160	181.06692	10.22772	0.0442663	0.19082318	2.9880094	20	10 30.6	20.5
364543 2007 GX ₂	16.0	X	251.02727	250.13655	186.06383	11.22181	0.0652941	0.18153048	3.0891311	20	8 27.2	20.5
364544 2007 GL ₆	16.1	X	94.77881	152.83127	74.50959	6.77544	0.1449944	0.17289736	3.1911249	20	9 21.5	21.0
364545 2007 GK ₇	16.2	X	87.47622	95.75340	191.57029	8.82655	0.1194410	0.18484469	3.0520951	20	11 21.2	20.9
364546 2007 GC ₁₂	15.9	X	136.74897	166.79687	40.67452	11.43855	0.0383043	0.18301733	3.0723775	20	10 5.0	20.4
364547 2007 GX ₁₈	15.8	X	183.33681	284.97251	223.71908	9.90351	0.0480135	0.17489655	3.1667606	20	9 6.9	20.7
364548 2007 GN ₂₁	15.4	X	173.22356	256.34787	219.00562	24.62282	0.2508804	0.16973395	3.2306524	20	7 12.7	21.5
364549 2007 GJ ₂₆	16.4	X	44.01945	110.42758	185.10267	4.57103	0.1290985	0.17716972	3.1396149	20	10 11.1	20.5
364550 2007 GY ₃₁	16.1	X	155.06741	57.45344	102.07128	11.73653	0.1632683	0.17757508	3.1348351	20	8 29.2	21.4
364551 2007 GB ₃₂	15.8	X	112.95567	2.80048	186.00147	15.00209	0.1587870	0.17191790	3.2032339	20	8 18.9	21.1
364552 2007 GO ₃₅	16.0	X	197.30556	314.52126	189.02632	10.76360	0.0510008	0.17892147	3.1190888	20	9 19.5	20.5
364553 2007 GR ₅₆	16.0	X	22.55823	131.33258	188.20252							

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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>
364561 2007 HE ₃₀	15.8	X	38.61793	277.23521	27.41765	15.99455	0.2236723	0.17426439	3.1744143	20	10 26.9	20.1
364562 2007 HL ₆₂	16.2	X	237.10616	232.12097	212.21263	8.81017	0.0526827	0.17460183	3.1703230	20	8 20.3	20.9
364563 2007 JL ₁₉	16.0	X	168.96184	291.84312	196.91541	12.08484	0.1177648	0.17339840	3.1849747	20	7 28.5	21.3
364564 2007 JJ ₄₂	15.7	X	102.47447	106.19746	118.57058	24.77839	0.2444124	0.17374674	3.1807163	20	10 10.9	21.4
364565 2007 KK ₇	15.4	X	142.99954	48.94450	128.96748	28.56984	0.2282383	0.17527630	3.1621848	20	9 12.2	21.1
364566 2007 PM ₈	18.1	X	341.50055	109.43625	210.06254	6.39666	0.2510101	0.30444175	2.1884329	20	8 22.4	18.9
364567 2007 PB ₁₃	17.4	X	289.76093	241.60178	96.33053	5.13239	0.1716806	0.29627076	2.2284874	20	5 29.3	19.9
364568 2007 PU ₁₇	17.3	X	191.71178	58.15085	322.35822	1.35634	0.2487709	0.28069562	2.3101790	20	4 7.7	21.3
364569 2007 QJ ₅	17.7	X	263.35315	354.50163	353.66930	4.26478	0.1776058	0.28971751	2.2619668	20	5 4.7	20.7
364570 2007 QL ₅	17.8	X	289.60931	217.41804	138.03455	6.71464	0.1801404	0.29609285	2.2293800	20	6 23.3	20.1
364571 2007 RH ₁₀	17.6	X	332.59292	15.44337	303.58512	3.60137	0.1941220	0.29934540	2.2132017	20	7 25.7	18.7
364572 2007 RS ₁₁	17.5	X	19.46369	53.40997	210.71459	5.77494	0.1239347	0.29857507	2.2170068	20	8 3.5	19.6
364573 2007 RT ₂₂	17.5	X	69.64638	160.96867	170.58582	14.37865	0.2001261	0.24525093	2.5277199	20	—	—
364574 2007 RL ₂₇	18.0	X	330.98288	161.98447	187.01548	4.28881	0.1683319	0.30429761	2.1891240	20	9 17.5	19.4
364575 2007 RK ₂₉	17.3	X	241.72583	163.64631	219.57072	5.30973	0.1494262	0.28948996	2.2631519	20	6 2.4	20.3
364576 2007 RN ₃₂	17.1	X	282.52598	256.47794	110.85974	5.00521	0.1822568	0.29613395	2.2291737	20	6 29.4	19.6
364577 2007 RC ₃₅	17.4	X	143.20618	58.25390	352.27305	6.19578	0.1724804	0.27436345	2.3455888	20	3 26.3	20.7
364578 2007 RG ₃₇	16.8	X	325.82390	304.59974	2.33016	8.22722	0.1521560	0.29413026	2.2392861	20	6 19.6	18.9
364579 2007 RW ₅₂	17.6	X	3.06499	28.43183	278.68394	3.81373	0.1441785	0.30160571	2.2021303	20	9 14.4	19.5
364580 2007 RB ₅₄	17.8	X	148.61448	180.11181	213.59708	6.08708	0.1142373	0.27045640	2.3681246	20	3 8.1	21.2
364581 2007 RM ₇₀	18.0	X	123.28501	281.65886	149.53924	6.93145	0.0725849	0.27466261	2.3438853	20	3 26.2	20.9
364582 2007 RP ₁₀₃	17.2	X	180.27042	19.88808	4.06923	7.63221	0.1152353	0.27504267	2.3417256	20	3 30.8	20.7
364583 2007 RU ₁₀₃	17.9	X	318.46091	308.69217	13.24326	2.37546	0.1938449	0.29517012	2.2340238	20	6 22.8	19.4
364584 2007 RL ₁₁₆	17.3	X	351.53381	140.85785	191.64200	5.45472	0.2309634	0.30467173	2.1873315	20	10 20.6	18.4
364585 2007 RF ₁₁₈	17.6	X	270.76855	99.65758	270.09162	1.45635	0.1742288	0.29226153	2.2488213	20	6 16.4	20.3
364586 2007 RG ₁₁₉	17.8	X	344.97351	328.92254	2.18991	3.85474	0.1852822	0.30329169	2.1939617	20	9 23.1	19.0
364587 2007 RJ ₁₁₉	17.5	X	335.72344	318.19097	13.28202	4.33756	0.2108524	0.30163447	2.2019903	20	8 31.5	18.4
364588 2007 RG ₁₂₄	17.3	X	159.49631	29.04526	6.16211	5.21061	0.1979775	0.27428599	2.3460309	20	3 25.2	20.6
364589 2007 RZ ₁₃₄	16.9	X	294.04054	308.57804	39.39388	7.43535	0.2438077	0.29436723	2.2380841	20	6 5.6	19.3
364590 2007 RO ₁₄₁	18.0	X	173.78868	195.18105	192.02190	2.87903	0.2377660	0.27413327	2.3469016	20	4 2.6	21.8
364591 2007 RK ₁₄₄	17.6	X	304.64974	348.46308	338.94943	6.14653	0.2040873	0.29440322	2.2379017	20	5 30.1	19.9
364592 2007 RA ₁₄₅	17.9	X	254.39426	346.42673	359.25279	2.89082	0.1890051	0.28599071	2.2815751	20	4 20.7	21.3
364593 2007 RT ₁₄₅	17.6	X	310.41027	347.52251	336.91270	5.97477	0.2254646	0.29419734	2.2389457	20	6 1.6	19.6
364594 2007 RF ₁₅₅	18.6	X	54.42045	288.39374	332.13307	1.24310	0.1777628	0.30728639	2.1749060	20	10 6.9	21.3
364595 2007 RX ₁₇₃	17.3	X	113.37344	38.80658	47.49365	5.19769	0.1312971	0.27133950	2.3629836	20	4 11.2	20.3
364596 2007 RO ₁₇₇	18.2	X	35.51693	110.46207	167.28541	2.39323	0.1697999	0.30366730	2.1921522	20	10 4.7	20.5
364597 2007 RC ₁₇₈	17.5	X	129.89336	16.26316	32.67180	7.43452	0.1021724	0.26871865	2.3783230	20	3 10.5	20.7
364598 2007 RB ₁₉₀	17.5	X	160.14610	132.79343	300.83729	6.33825	0.0773702	0.27965396	2.3159121	20	5 10.5	20.9
364599 2007 RT ₁₉₅	17.9	X	66.63431	280.11739	211.25352	2.86595	0.1342787	0.27153281	2.3618619	20	4 5.6	20.3
364600 2007 RG ₂₀₃	17.1	X	125.78159	19.80924	3.58894	6.96017	0.1061405	0.26293179	2.4130925	20	2 1.1	20.3
364601 2007 RL ₂₀₆	17.8	X	19.60538	105.03913	170.64381	4.33896	0.1540955	0.30202775	2.2000784	20	8 30.5	19.5
364602 2007 RW ₂₁₂	17.7	X	267.68592	30.82095	320.71171	2.05061	0.2289993	0.28996436	2.2606828	20	5 8.4	20.9
364603 2007 RW ₂₂₃	18.0	X	221.59329	60.41190	316.90593	2.16777	0.2146224	0.28613197	2.2808241	20	4 28.3	21.7
364604 2007 RC ₂₃₆	17.8	X	207.78948	266.27037	112.77998	1.62907	0.2375071	0.28238560	2.3009527	20	4 19.8	21.7
364605 2007 RX ₂₄₉	17.4	X	210.32289	110.35585	286.56721	5.03060	0.0737890	0.28479399	2.2879621	20	5 20.9	20.6
364606 2007 RC ₂₅₉	17.6	X	313.00922	323.47648	349.84722	4.73919	0.1735319	0.29180834	2.2511491	20	5 29.4	19.8
364607 2007 RJ ₂₆₇	17.8	X	9.77218	157.53081	149.30241	4.24340	0.1716657	0.30358661	2.1925406	20	10 7.0	19.7
364608 2007 RH ₂₇₂	17.4	X	241.16173	191.94268	199.81426	7.54585	0.1370410	0.28905205	2.2654371	20	6 15.1	20.5
364609 2007 RT ₂₇₃	17.9	X	11.83760	342.22324	269.21168	1.94130	0.1370098	0.29068098	2.2569658	20	6 30.2	19.4
364610 2007 RJ ₂₈₉	17.2	X	306.01202	286.48239	57.41249	7.41448	0.1728233	0.29526291	2.2335557	20	7 7.6	19.2
364611 2007 RT ₂₉₃	17.5	X	48.41979	171.68722	21.96078	7.08557	0.0495087	0.28385995	2.2929784	20	5 24.3	20.1
364612 2007 RN ₂₉₅	17.5	X	317.99261	351.94236	194.76198	6.33293	0.1059690	0.25974034	2.4328189	20	—	—
364613 2007 RX ₃₁₃	17.8	X	119.32658	38.29066	13.96275	4.40181	0.1886022	0.26714383	2.3876607	20	3 11.6	21.1
364614 2007 RA ₃₂₉	17.2	X	255.82584	296.92909	195.11506	13.35105	0.1032208	0.232871160	2.1616529	20	11 20.5	20.6
364615 2007 RL ₃₂₅	17.5	X	299.34265	98.01266	178.73140	1.07700	0.1329257	0.27272535	2.3549718	20	3 22.3	20.0
364616 2007 SO ₄	17.6	X	261.66093	171.10385	189.46173	3.70080	0.1760882	0.28806894	2.2705884	20	5 22.6	20.5
364617 2007 SB ₆	18.2	X	324.07831	112.28857	232.47354	2.72967	0.1740869	0.29970081	2.2114516	20	8 19.8	19.5
364618 2007 ST ₁₅	17.4	X	63.19140	156.47333	292.08388	3.87900	0.1522176	0.26090358	2.4255824	20	1 31.5	19.8
364619 2007 SO ₂₁	17.5	X	279.46079	220.21725	126.74016	5.73764	0.1552672	0.28940276	2.2636065	20	5 30.6	20.3
364620 2007 TO ₁	17.3	X	86.95237	255.78386	202.43493	6.41096	0.0617919	0.26769899	2.3843585	20	3 8.5	20.2
364621 2007 TT ₁₀	17.0	X	306.98114	315.96293	7.81739	4.84691	0.1799457	0.29151985	2.2526340	20	6 2.7	19.1
364622 2007 TO ₁₂	16.6	X	282.91284	310.02441	36.29167	6.85248	0.1846575	0.28919251	2.2647035	20	5 27.2	19.3
364623 2007 TH ₁₄	17.3	X	258.71957	310.28635	42.24345	7.69685	0.1360899	0.28507408	2.2864633	20	5 11.8	20.1
364624 2007 TZ ₁₅	17.9	X	323.46118	154.92794	196.11284	3.72752	0.1718828	0.30040019	2.2080179	20	8 30.3	19.1
364625 2007 TE ₂₄	17.0	X	321.70963	278.44071	77.47652	5.59214	0.2200613	0.29941470	2.2128602	20	9 6.7	18.1
364626 2007 TU ₃₃	17.0	X	351.28113	214.19358	37.72393	7.50411	0.0663301	0.28062077	2.3105897	20	5 17.6	19.4
364627 2007 TK ₃₅	17.4	X	182.86799	199.70190	178.98173	8.30107	0.1942929	0.27192497	2.3595906	20	3 30.1	21.3
364628 2007 TX ₅₄	17.7	X	344.82136	62.34840	252.18300	2.57534	0.1816402	0.29608802	2.2294042	20	8 18.8	19.2
364629 2007 TC ₆₈	17.3	X	309.23866	272.49990	67.59355	9.23374	0.2547054	0.29450661	2.2373779	20	6 20.9	18.9
364630 2007 TF ₇₀	17.0	X	299.35904	120.85466	220.92882	7.81555	0.1439538	0.29380520	2.2409374	20	6 24.7	19.3
364631 2007 TA ₈₂	18.1	X	342.57835	301.29107	5.06963	3.27816	0.1750218	0.30024893	2.2087594	20	7 31.9	19.3
364632 2007 TM ₈₅	17.5	X	219.19117	18.20101	336.80067	5.15086	0.1480688	0.27490997	2.3424791	20	3 31.1	21.2
364633 2007 TJ ₈₉	18.1	X	40.44181	207.45942	136.20182	2.88176	0.1359650	0.3126509				

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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>		
364641	2007	<i>TD</i> ₁₁₂	17.4	X	251.13790	108.39075	265.54532	5.51809	0.1181499	0.28755552	2.2732904	20	6 4.5	20.3
364642	2007	<i>TC</i> ₁₂₁	18.1	X	38.54247	110.29282	162.17896	4.03916	0.1258728	0.30431310	2.1890497	20	9 24.1	20.3
364643	2007	<i>TX</i> ₁₃₄	17.5	X	97.10680	216.34926	206.06653	6.09049	0.1976794	0.26424406	2.4050968	20	2 24.5	20.4
364644	2007	<i>TR</i> ₁₄₄	17.3	X	308.17260	299.87495	26.99083	4.76693	0.1815607	0.29265702	2.2467949	20	6 10.3	19.2
364645	2007	<i>TV</i> ₁₄₅	17.8	X	174.09003	51.50508	5.63294	2.60007	0.1620107	0.27795924	2.3253160	20	5 7.9	21.4
364646	2007	<i>TY</i> ₁₄₈	18.0	X	129.49774	220.45239	179.23294	1.09156	0.1919733	0.26526019	2.3989508	20	3 6.0	21.3
364647	2007	<i>TT</i> ₁₅₀	16.9	X	229.86758	32.52421	339.23734	6.41273	0.1215103	0.28363564	2.2941872	20	5 3.8	20.2
364648	2007	<i>TQ</i> ₁₅₂	17.0	X	104.53288	192.81969	239.11329	5.03455	0.1698184	0.26546567	2.3977127	20	3 13.6	20.1
364649	2007	<i>TO</i> ₁₅₃	17.4	X	115.39538	88.34873	324.12112	1.77155	0.1753255	0.26435057	2.4044507	20	3 4.4	20.4
364650	2007	<i>TY</i> ₁₅₉	16.8	X	175.71991	147.38689	231.17230	13.08534	0.0402569	0.26880196	2.3778316	20	3 10.7	20.3
364651	2007	<i>TR</i> ₁₆₁	17.4	X	111.99986	44.73509	6.07993	4.59020	0.1891598	0.26310927	2.4120073	20	3 1.7	20.6
364652	2007	<i>TY</i> ₁₆₁	17.7	X	96.70002	175.75527	234.37121	1.59096	0.1721925	0.25954254	2.4340548	20	2 5.4	20.5
364653	2007	<i>TL</i> ₁₆₃	17.0	X	163.16785	16.96332	20.10131	5.95141	0.1107005	0.27123923	2.3635659	20	3 30.9	20.5
364654	2007	<i>TC</i> ₁₆₅	16.8	X	89.01328	214.99722	227.21364	10.94680	0.2175695	0.26052038	2.4279603	20	3 12.7	19.8
364655	2007	<i>TT</i> ₁₇₁	17.3	X	95.89584	333.49246	91.36303	2.27783	0.1750609	0.26164112	2.4210219	20	2 26.2	20.1
364656	2007	<i>TD</i> ₁₈₃	17.4	X	94.46517	224.87724	198.46049	3.97483	0.1843559	0.26035390	2.4289952	20	2 21.3	20.2
364657	2007	<i>TR</i> ₁₈₅	17.7	X	252.34446	218.95643	161.91100	5.51211	0.1481976	0.28941976	2.2635179	20	6 12.4	20.7
364658	2007	<i>TZ</i> ₁₉₃	18.0	X	345.15884	74.74187	235.89107	2.55798	0.2015596	0.29827910	2.2184731	20	8 13.8	19.1
364659	2007	<i>TZ</i> ₁₉₅	18.1	X	315.86205	237.23646	72.99364	2.37548	0.1641104	0.28799317	2.2709867	20	6 1.9	19.9
364660	2007	<i>TY</i> ₂₀₉	17.5	X	331.19333	57.25633	251.44664	2.81828	0.1896805	0.294574737	2.2370348	20	7 1.4	18.7
364661	2007	<i>TY</i> ₂₃₉	17.9	X	315.67260	286.43844	40.24051	7.11525	0.1805564	0.29362790	2.2418394	20	6 26.9	19.8
364662	2007	<i>TS</i> ₂₅₉	18.5	X	5.57759	58.93937	248.12359	0.99751	0.2334061	0.30262247	2.1971950	20	10 7.7	20.1
364663	2007	<i>TH</i> ₂₇₉	17.0	X	350.55962	69.29669	225.99544	6.28915	0.0783558	0.29349879	2.2424969	20	7 24.1	19.2
364664	2007	<i>TL</i> ₂₈₅	17.9	X	32.35836	113.50594	180.84648	6.08660	0.2144637	0.30624698	2.1798244	20	11 2.2	20.3
364665	2007	<i>TC</i> ₂₈₉	17.0	X	127.88256	288.95674	143.69712	10.37857	0.2011289	0.26983479	2.3717601	20	4 20.9	20.7
364666	2007	<i>TV</i> ₂₉₃	16.3	X	262.66132	196.60652	224.97222	10.70290	0.1322559	0.21462713	2.7627800	20	8 14.4	20.3
364667	2007	<i>TA</i> ₂₉₈	17.1	X	79.07051	128.33590	11.41934	6.26807	0.0746293	0.27508072	2.3415096	20	4 26.6	19.8
364668	2007	<i>TX</i> ₃₁₁	17.8	X	5.39802	133.42342	75.11714	3.54181	0.0097858	0.27514114	2.3411668	20	4 10.9	20.7
364669	2007	<i>TT</i> ₃₁₆	17.1	X	359.55127	145.02256	59.34716	6.71516	0.0998550	0.26955674	2.3733908	20	3 24.8	19.5
364670	2007	<i>TW</i> ₃₃₇	17.9	X	352.72359	128.43200	175.68271	5.10811	0.1999435	0.29874538	2.2161641	20	8 23.6	19.1
364671	2007	<i>TD</i> ₃₅₀	17.5	X	254.91168	350.99535	8.37642	8.18125	0.1849359	0.29014279	2.2597559	20	5 8.4	20.8
364672	2007	<i>TQ</i> ₃₅₄	17.2	X	205.87250	330.39078	38.13821	7.21886	0.1270233	0.27393725	2.3480211	20	4 8.3	20.7
364673	2007	<i>TO</i> ₃₅₈	17.3	X	84.92031	270.68411	203.30350	21.26065	0.1953947	0.26985214	2.3716584	20	4 21.0	20.0
364674	2007	<i>TU</i> ₃₅₉	17.7	X	314.25998	296.52208	35.42892	7.33957	0.1756914	0.29285768	2.2457684	20	7 4.5	19.6
364675	2007	<i>TY</i> ₃₅₉	17.2	X	274.21559	291.25086	35.96602	4.77033	0.1743737	0.28337551	2.2955909	20	4 21.3	19.9
364676	2007	<i>TM</i> ₃₆₁	17.5	X	80.19058	263.74896	219.99364	5.52660	0.0993515	0.26555725	2.3971614	20	4 10.5	20.4
364677	2007	<i>TT</i> ₃₆₁	17.0	X	56.31096	252.95990	107.00104	5.94241	0.0769348	0.25799600	2.4437723	20	2 9.8	19.9
364678	2007	<i>TD</i> ₃₆₄	16.8	X	358.33300	342.85768	215.20395	13.64774	0.1276230	0.23206233	2.6226054	20	—	—
364679	2007	<i>TM</i> ₃₆₄	17.8	X	273.69128	309.65757	27.76796	7.84363	0.1486424	0.28466217	2.2886684	20	5 7.1	20.7
364680	2007	<i>TY</i> ₃₆₆	17.5	X	92.30075	353.43507	251.18770	6.31260	0.1078534	0.29979406	2.2109930	20	10 18.8	20.5
364681	2007	<i>TA</i> ₃₇₂	17.5	X	170.42805	17.66249	2.22588	7.90963	0.1088694	0.27182035	2.3601960	20	3 16.2	20.8
364682	2007	<i>TN</i> ₃₇₆	16.7	X	358.20091	186.45103	170.09080	15.67164	0.1936833	0.22966786	2.6408023	20	11 14.2	19.7
364683	2007	<i>TH</i> ₃₇₆	17.4	X	293.89090	302.36524	60.28697	7.65395	0.2152133	0.29586028	2.2305482	20	7 6.2	19.5
364684	2007	<i>TP</i> ₃₈₆	17.2	X	131.72469	11.13859	42.91036	8.63668	0.1050740	0.26481289	2.4016514	20	3 20.9	20.5
364685	2007	<i>TB</i> ₄₁₂	17.5	X	356.21832	30.74351	269.97001	4.73467	0.1877467	0.29805944	2.2195629	20	8 23.3	19.0
364686	2007	<i>TD</i> ₄₂₄	16.9	X	166.87326	254.02031	177.48450	7.14456	0.0869418	0.27784305	2.3259642	20	5 19.8	20.3
364687	2007	<i>TK</i> ₄₂₄	17.5	X	64.04110	203.68997	260.32229	2.48205	0.1560811	0.25925591	2.3584855	20	2 24.7	19.9
364688	2007	<i>TU</i> ₄₄₇	17.8	X	299.53269	179.22098	157.52098	5.59150	0.2250117	0.29110780	2.2547591	20	6 3.3	20.1
364689	2007	<i>TY</i> ₄₅₀	17.3	X	24.88196	109.26989	15.99434	5.74539	0.1696647	0.25560283	2.4590024	20	1 11.5	19.6
364690	2007	<i>UE</i> ₂	17.3	X	308.78136	281.97255	70.86768	5.79955	0.2012641	0.29723947	2.2236430	20	7 25.5	18.9
364691	2007	<i>UB</i> ₄	17.4	X	257.74307	289.23129	66.49282	6.94207	0.1686890	0.28588967	2.2821126	20	5 12.2	20.3
364692	2007	<i>UH</i> ₂₅	17.7	X	342.33686	73.41744	216.01716	5.66286	0.1884449	0.28846888	2.2684893	20	6 25.0	19.2
364693	2007	<i>UQ</i> ₃₀	14.9	X	230.04127	198.81701	171.32699	11.07962	0.2267906	0.12541132	3.9528610	20	5 3.6	21.3
364694	2007	<i>UX</i> ₃₄	17.6	X	13.02427	157.45735	158.78397	7.84712	0.2349697	0.30315050	2.1946429	20	11 9.2	19.8
364695	2007	<i>UV</i> ₄₈	18.0	X	298.13341	197.55611	143.64248	1.94460	0.2255692	0.28876551	2.2669355	20	6 6.9	20.3
364696	2007	<i>UY</i> ₄₈	17.1	X	160.98163	332.05115	63.91762	10.41139	0.2432827	0.26772254	2.3842187	20	4 8.2	21.2
364697	2007	<i>US</i> ₄₉	17.2	X	139.89328	334.81849	73.17300	7.33842	0.1000952	0.26464484	2.4026680	20	3 22.2	20.6
364698	2007	<i>UV</i> ₅₁	17.0	X	270.19035	272.19562	66.98944	12.56027	0.1575619	0.28403168	2.2920541	20	5 7.7	20.0
364699	2007	<i>UO</i> ₆₀	16.8	X	36.73148	100.92249	54.17914	7.22290	0.0692308	0.26399489	2.4066099	20	3 18.2	19.5
364700	2007	<i>UU</i> ₆₀	17.7	X	26.96681	212.16228	222.75375	4.13018	0.1941293	0.24460927	2.5321384	20	—	—
364701	2007	<i>UR</i> ₆₇	17.7	X	353.87889	75.70384	204.21318	5.70647	0.2025510	0.29345332	2.2427285	20	7 9.7	19.1
364702	2007	<i>UQ</i> ₈₉	17.0	X	293.20268	278.43268	60.96788	6.42991	0.1402971	0.28752634	2.2734441	20	6 10.7	19.2
364703	2007	<i>UQ</i> ₁₀₅	18.1	X	358.29165	246.99649	197.98800	4.33958	0.2123897	0.23844883	2.5755654	20	—	—
364704	2007	<i>UZ</i> ₁₀₇	18.3	X	335.97740	86.01000	228.69599	2.72740	0.1187599	0.29447454	2.2375404	20	7 28.1	20.2
364705	2007	<i>UX</i> ₁₁₀	18.3	X	72.75846	198.95936	227.63601	0.51541	0.1510107	0.25570310	2.4583595	20	1 18.6	20.8
364706	2007	<i>US</i> ₁₁₁	18.2	X	118.60247	185.51534	219.95812	0.46100	0.1622192	0.26224537	2.4173016	20	2 26.6	21.4
364707	2007	<i>UM</i> ₁₂₂	17.9	X	37.54106	254.88948	217.36519	5.68865	0.1132091	0.25480015	2.4641639	20	1 15.7	20.5
364708	2007	<i>UH</i> ₁₃₁	17.9	X	342.86277	223								

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>
364721 2007 VM ₇₃	17.4	X	15.49586	175.91302	250.11618	2.66459	0.2690877	0.23979705	2.5659026	20	—	—
364722 2007 VX ₇₇	17.3	X	346.98230	183.18366	64.15076	5.54850	0.1460465	0.27699386	2.3307156	20	4 29.1	19.3
364723 2007 VD ₈₂	18.0	X	170.81449	346.48431	59.40620	2.26896	0.1746718	0.27261465	2.3556093	20	4 22.0	21.5
364724 2007 VE ₈₉	17.5	X	83.14018	351.16356	96.37216	4.50545	0.1516207	0.26115924	2.4239991	20	3 7.1	20.2
364725 2007 VG ₉₅	17.0	X	124.12044	68.81371	336.68897	6.17195	0.1150394	0.25984049	2.4321937	20	2 27.2	20.2
364726 2007 VF ₁₀₂	17.7	X	318.86170	278.71170	244.08897	5.89500	0.1915146	0.24216462	2.5491511	20	—	—
364727 2007 VJ ₁₀₄	16.8	X	304.19382	267.53966	235.35328	25.55419	0.2680490	0.23609820	2.5926323	20	—	—
364728 2007 VG ₁₀₉	17.8	X	328.50546	196.25567	60.07006	7.52905	0.1216534	0.27332337	2.3515355	20	4 12.6	20.2
364729 2007 VH ₁₁₁	17.1	X	330.46570	347.92659	232.94508	4.99983	0.1645155	0.26341789	2.4101230	20	2 13.1	19.8
364730 2007 VJ ₁₁₃	17.1	X	47.06815	44.59453	67.29056	7.04606	0.0742204	0.25581145	2.4576652	20	2 2.8	19.9
364731 2007 VY ₁₁₉	17.7	X	282.90827	285.76251	59.91084	3.63625	0.1822560	0.29021476	2.2593823	20	5 27.7	20.3
364732 2007 VX ₁₄₂	17.7	X	270.24015	103.79407	220.75921	5.45138	0.1803978	0.27870845	2.3211469	20	4 11.3	20.7
364733 2007 VS ₁₄₈	17.4	X	106.43682	329.09931	86.03001	2.40201	0.1745897	0.25894506	2.4377975	20	2 27.7	20.5
364734 2007 VT ₁₄₈	17.1	X	212.18636	154.52897	221.28305	7.15654	0.1465635	0.27547206	2.3392915	20	4 21.5	20.5
364735 2007 VS ₁₆₇	17.5	X	237.58031	50.45081	273.79589	4.11324	0.1633259	0.26901839	2.3765561	20	3 8.9	21.3
364736 2007 VX ₁₉₆	17.1	X	19.11813	339.91915	237.32702	6.06854	0.0844060	0.27817028	2.3241397	20	5 15.4	19.3
364737 2007 VY ₂₁₂	18.1	X	3.89971	243.11293	119.42571	3.38841	0.1894328	0.30700927	2.1762146	20	12 22.8	20.2
364738 2007 VK ₂₁₄	17.1	X	351.62609	122.51866	90.33810	7.58508	0.0993578	0.26716235	2.3875504	20	3 24.5	19.7
364739 2007 VQ ₂₁₈	17.2	X	292.80300	59.66273	259.50320	5.40850	0.1386317	0.27955148	2.3164780	20	5 10.2	20.0
364740 2007 VQ ₂₂₆	18.2	X	353.61738	81.25645	206.38002	1.38463	0.1343159	0.29009479	2.2600051	20	7 21.1	19.8
364741 2007 VD ₂₄₈	17.4	X	354.44336	113.63901	134.71602	6.66878	0.0812989	0.27789145	2.3256941	20	5 20.8	19.9
364742 2007 VL ₂₅₂	17.2	X	169.49482	323.99377	86.80873	7.13870	0.1068121	0.27234508	2.3571634	20	4 26.9	20.7
364743 2007 VL ₂₆₇	16.6	X	333.56530	61.19131	250.28881	23.95846	0.2113224	0.29067074	2.2570188	20	7 3.8	18.4
364744 2007 VB ₂₆₈	17.2	X	248.11874	241.23051	86.41482	7.84157	0.1440072	0.27740413	2.3284170	20	3 31.4	20.7
364745 2007 VL ₂₆₈	18.0	X	304.21730	265.30744	83.84747	3.22193	0.12012687	0.29301020	2.2449890	20	7 6.7	19.8
364746 2007 VJ ₂₆₉	16.9	X	338.09620	149.83706	62.12740	6.93472	0.0376278	0.26586151	2.3953321	20	3 7.9	19.8
364747 2007 VB ₂₇₅	17.4	X	36.64143	355.10373	143.50744	6.91237	0.0637842	0.25977991	2.4325718	20	2 20.3	20.2
364748 2007 VM ₂₈₉	17.0	X	332.42124	359.55006	291.47363	4.18201	0.1573866	0.28639750	2.2794117	20	6 5.9	18.8
364749 2007 VC ₂₉₄	17.7	X	265.41355	91.68686	201.63998	6.49786	0.1227862	0.26997715	2.3709262	20	3 1.9	21.2
364750 2007 VP ₂₉₆	16.8	X	37.57359	298.60288	132.17246	6.81442	0.2389682	0.24476584	2.5310585	20	—	—
364751 2007 VC ₃₀₇	16.6	X	278.40615	248.77487	62.52793	6.77062	0.1333122	0.27440051	2.3453776	20	4 13.5	19.6
364752 2007 VT ₃₁₃	17.3	X	129.91295	24.33393	16.37514	1.58078	0.1854878	0.25401367	2.4692477	20	3 8.6	20.9
364753 2007 VK ₃₂₇	17.6	X	229.07556	56.54872	295.90234	3.55170	0.2358798	0.27633610	2.3344127	20	4 1.6	21.4
364754 2007 VH ₃₂₉	17.3	X	234.01165	294.67652	78.05427	5.55201	0.1803261	0.27861010	2.3216931	20	5 8.7	20.8
364755 2007 VA ₃₃₄	17.1	X	333.18991	49.07006	65.32138	10.66169	0.1520243	0.23432221	2.6057160	20	—	—
364756 2007 WG ₁	18.1	X	90.84689	49.64976	4.39006	1.04677	0.1724045	0.25589655	2.4571204	20	2 3.7	20.7
364757 2007 WA ₈	16.4	X	306.34691	228.48559	290.20097	5.15377	0.1666195	0.24062956	2.5599809	20	—	—
364758 2007 WL ₁₈	17.5	X	169.59202	324.23442	82.77510	7.57961	0.1238208	0.27017541	2.3697662	20	4 23.1	21.0
364759 2007 WG ₂₀	16.8	X	55.03236	60.67856	21.97723	4.30316	0.0642001	0.24427225	2.5344669	20	1 6.4	19.8
364760 2007 WQ ₂₀	16.6	X	268.59658	98.66459	110.18237	8.11951	0.1365918	0.23310713	2.6147630	20	—	—
364761 2007 WH ₆₂	17.2	X	243.10811	312.73434	57.82654	9.26774	0.2312674	0.28058803	2.3107695	20	5 9.8	20.8
364762 2007 XC ₁₀	19.3	X	67.78228	112.51916	254.03712	47.93688	0.2259192	0.47826653	1.6194072	20	—	—
364763 2007 XZ ₁₆	17.8	X	341.28520	34.54184	71.78129	6.96579	0.2735845	0.23636248	2.5906994	20	—	—
364764 2007 XO ₂₁	17.8	X	331.78669	147.77201	307.03809	1.40854	0.2084553	0.23411359	2.6072638	20	—	—
364765 2007 XS ₂₁	17.5	X	133.58550	153.02209	273.53797	1.62314	0.1744253	0.26520208	2.3993011	20	4 11.4	20.9
364766 2007 XY ₂₉	17.2	X	290.52300	256.18324	64.20665	6.51765	0.1941866	0.28371758	2.2937454	20	5 1.4	19.8
364767 2007 XP ₃₀	17.0	X	324.26114	11.85308	111.05177	7.60794	0.1366051	0.23188258	2.6239605	20	—	—
364768 2007 XC ₄₇	17.5	X	218.23625	287.64377	64.82144	7.47839	0.1570838	0.27184010	2.3600817	20	4 1.2	21.2
364769 2007 XR ₅₁	17.7	X	163.79651	296.85720	81.29321	5.32901	0.1845497	0.25964746	2.4333990	20	3 15.2	21.6
364770 2007 XS ₅₇	15.9	X	300.16517	206.17676	257.33172	10.85262	0.1402288	0.22472140	2.6794136	20	12 14.8	18.8
364771 2007 XZ ₅₇	16.8	X	2.62857	49.28540	59.86538	5.40042	0.1166142	0.24027174	2.5625219	20	—	—
364772 2007 YF ₅₈	16.6	X	302.18881	242.33011	305.84958	5.18968	0.0990103	0.24202714	2.5501164	20	—	—
364773 2007 YT	16.7	X	329.72141	61.77425	81.70456	12.96320	0.1289328	0.23844163	2.5756173	20	—	—
364774 2007 YK ₂₈	16.7	X	237.37026	329.38342	207.23931	7.00864	0.1636413	0.21745264	2.7387954	20	12 9.2	20.4
364775 2007 YF ₃₇	17.3	X	149.82600	320.41778	44.48751	2.78570	0.1895067	0.25386281	2.4702258	20	2 14.1	21.0
364776 2007 YF ₅₃	16.8	X	301.82587	268.57907	283.47880	3.52887	0.0398665	0.24107593	2.5568199	20	—	—
364777 2007 YS ₅₄	16.7	X	26.07436	69.55039	359.27691	9.18761	0.1921560	0.23788291	2.5796486	20	—	—
364778 2007 YF ₆₇	17.1	X	30.83752	69.59639	354.31525	5.89347	0.0870271	0.23454891	2.6040367	20	—	—
364779 2007 YT ₆₉	17.5	X	187.60068	274.68864	119.51006	2.03483	0.1893077	0.26408625	2.4060548	20	4 23.3	21.3
364780 2007 YL ₇₁	16.3	X	113.14250	296.53820	154.87103	14.07620	0.2773612	0.17517846	3.1633621	20	5 10.7	21.6
364781 2008 AB ₃	17.2	X	31.98396	124.27493	283.21778	2.53004	0.3061723	0.23612709	2.5924209	20	—	—
364782 2008 AE ₃	17.0	X	18.76279	335.40731	113.64244	6.56899	0.2459450	0.23733710	2.5836021	20	—	—
364783 2008 AJ ₅	16.8	X	296.01396	22.44273	121.46961	8.69204	0.1050338	0.22753692	2.6572646	20	—	—
364784 2008 AS ₆	17.0	X	33.64878	49.79126	96.05519	6.93406	0.0844244	0.25846159	2.4408366	20	2 29.4	19.7
364785 2008 AR ₁₉	17.1	X	7.75327	344.16921	110.44555	5.46198	0.1229494	0.23436719	2.6053826	20	—	—
364786 2008 AS ₃₀	17.7	X	303.36442	117.55424	353.45573	5.84547	0.2247462	0.22547101	2.6734716	20	12 28.5	20.0
364787 2008 AY ₃₂	17.6	X	298.78595	56.06732	51.82320	9.22625	0.2904858	0.22401502	2.6850433	20	12 3.3	19.6
364788 2008 AW ₄₄	17.2	X	271.84574	182.84540	299.10923	2.34859	0.1470878	0.21735899	2.7395821	20	11 18.0	20.4
364789 2008 AM ₆₉	16.6	X	11.63562	340.95162	124.42549	5.09106	0.0973738	0.23636036	2.5907149	20	—	—
364790 2008 AD ₇₁	17.1	X	293.65203	206.65009	295.95970	3.49629	0.1422145	0.22589710	2.6701087	20	—	—
364791 2008 AC ₇₄	16.7	X	350.93316	7.15406	136.67752	12.66122	0.0591852	0.24150241	2.5538090	20	—	—
364792 2008 AV ₇₈	17.4	X	44.33201	102.62670	321.89185	2.43859	0.0385327	0.23575741	2.5951302	20	—	—
364793 2008 AH ₈₁	16.9	X	224.23803	100.85719	141.87963	9.70073	0.1925231	0.22814828	2.6525154	20	—	—
364794 2008 AX ₈₉	17.2	X	153.78018	258.13327	138.62342	3.20236	0.1713967	0.25997443	2.4313583	20	3 26.	

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>
364801 2008 AL ₁₂₉	17.5	X	194.60989	51.16852	201.73343	1.49078	0.0233135	0.23097650	2.6308183	20	—	—
364802 2008 AN ₁₃₄	17.0	X	84.39520	10.70488	42.82068	7.01053	0.1922042	0.24626540	2.5207733	20	1 31.2	19.9
364803 2008 AB ₁₃₆	16.7	X	309.08248	330.98604	134.35169	3.54231	0.1502165	0.21932825	2.7231590	20	12 31.4	19.5
364804 2008 AC ₁₃₆	17.1	X	318.17853	308.74138	165.63942	12.22998	0.2480905	0.22887852	2.6468705	20	—	—
364805 2008 BH ₆	16.9	X	233.70068	100.61140	135.01222	12.15946	0.1421546	0.23189458	2.6238700	20	—	—
364806 2008 BL ₁₀	16.4	X	197.87136	130.99609	106.36083	8.29741	0.0504398	0.22369802	2.6875793	20	—	—
364807 2008 BC ₁₃	17.2	X	247.83350	83.31299	92.29880	13.44210	0.1569731	0.22272840	2.6953737	20	12 23.5	20.6
364808 2008 BC ₁₆	16.8	X	5.91239	147.91426	303.15345	3.43052	0.1306860	0.23425629	2.6062048	20	—	—
364809 2008 BZ ₁₇	16.1	X	254.79514	318.00757	133.86382	15.52803	0.1678381	0.21076599	2.7964197	20	9 15.8	20.1
364810 2008 BG ₁₈	15.2	X	72.04631	13.36311	164.38361	28.30815	0.1022564	0.17807185	3.1290022	20	6 17.7	20.1
364811 2008 BL ₁₉	16.6	X	285.94384	281.67571	281.17542	4.57420	0.1181609	0.23965332	2.5669283	20	—	—
364812 2008 BS ₂₅	16.8	X	325.05557	22.70833	107.23154	5.34477	0.1359237	0.23191397	2.6237238	20	—	—
364813 2008 BL ₃₆	16.1	X	221.28078	78.83257	156.68754	15.44164	0.0773890	0.22442883	2.6817418	20	—	—
364814 2008 BA ₄₁	17.3	X	264.24494	267.43190	230.78884	7.68873	0.1934796	0.21981969	2.7190988	20	11 22.4	20.5
364815 2008 BO ₄₁	16.5	X	282.42494	21.70122	135.93143	11.90525	0.1638424	0.22583162	2.6706249	20	—	—
364816 2008 BY ₄₈	17.2	X	63.64139	230.31063	153.31729	1.94914	0.0363934	0.22790122	2.6544320	20	—	—
364817 2008 BJ ₅₀	17.1	X	29.82729	64.31864	12.07076	3.91197	0.1584724	0.23818641	2.5774568	20	—	—
364818 2008 CN	16.2	X	267.53618	347.07078	116.45110	19.19655	0.3256328	0.21599211	2.7511280	20	9 28.5	20.2
364819 2008 CB ₂	16.0	X	226.94935	309.46223	265.67209	12.73439	0.1554556	0.22474823	2.6792004	20	—	—
364820 2008 CZ ₆	16.7	X	333.57670	20.41506	143.24162	10.62059	0.0349150	0.23697123	2.5862607	20	—	—
364821 2008 CV ₁₄	16.7	X	312.14426	25.14531	133.04264	10.21163	0.0885628	0.23058049	2.6338296	20	—	—
364822 2008 CF ₁₅	17.1	X	336.67119	329.58751	128.55613	5.24759	0.0466000	0.22411480	2.6842463	20	—	—
364823 2008 CN ₁₅	16.5	X	240.49078	34.91601	135.13500	8.67409	0.1492045	0.21701367	2.7424875	20	12 7.8	20.3
364824 2008 CA ₁₇	17.3	X	263.50440	57.83465	145.45551	3.33068	0.0374908	0.22845047	2.6501757	20	—	—
364825 2008 CY ₁₉	16.9	X	273.11249	49.34331	123.74887	3.83613	0.1473253	0.22617428	2.6679268	20	—	—
364826 2008 CE ₃₅	17.7	X	345.09545	109.55116	329.95619	2.75783	0.0608238	0.22309194	2.6924447	20	—	—
364827 2008 CW ₅₂	17.3	X	151.22272	274.54996	32.41893	4.37854	0.0648981	0.22887070	2.6469308	20	—	—
364828 2008 CL ₆₁	16.5	X	280.80320	26.22305	130.12192	9.09488	0.1457315	0.22312356	2.6921903	20	—	—
364829 2008 CL ₇₁	16.5	X	350.64569	39.54847	89.27531	11.53132	0.1558597	0.23692414	2.5866034	20	—	—
364830 2008 CR ₇₃	16.8	X	282.67952	110.84277	15.21553	10.79868	0.1599557	0.22154261	2.7049830	20	12 9.7	20.0
364831 2008 CJ ₉₂	17.2	X	220.63242	200.32923	43.27750	2.83228	0.0335215	0.22793725	2.6541524	20	—	—
364832 2008 CC ₁₀₈	17.5	X	208.63458	160.24998	44.08331	4.87724	0.0227189	0.21633909	2.7481856	20	12 27.7	21.2
364833 2008 CJ ₁₁₃	16.9	X	331.12503	330.46469	74.37060	4.07808	0.0821278	0.21374695	2.7703593	20	11 16.0	20.3
364834 2008 CD ₁₁₆	17.0	X	338.21912	42.59657	19.56465	12.61548	0.1004192	0.21486633	2.7607292	20	12 19.9	20.5
364835 2008 CY ₁₂₀	16.2	X	1.86936	318.85868	140.99523	27.54625	0.2227420	0.23280286	2.6170409	20	—	—
364836 2008 CK ₁₂₄	17.5	X	309.72341	270.34736	258.35437	1.70172	0.0209706	0.23418755	2.6067148	20	—	—
364837 2008 CO ₁₂₉	17.1	X	269.85221	17.57045	165.14781	6.31333	0.0716947	0.22694325	2.6618967	20	—	—
364838 2008 CU ₁₃₂	17.0	X	32.92492	46.57125	334.21042	5.31304	0.0439237	0.21916836	2.7244833	20	—	—
364839 2008 CA ₁₄₂	17.7	X	243.82855	301.02202	188.55458	1.21321	0.3520775	0.21198283	2.7857080	20	9 23.6	22.1
364840 2008 CQ ₁₄₃	17.0	X	172.05485	244.72609	356.31297	8.37094	0.0700969	0.21377951	2.7700780	20	12 25.0	21.2
364841 2008 CE ₁₄₄	16.7	X	220.08720	77.40263	163.88579	12.61812	0.1094406	0.22386426	2.6862486	20	—	—
364842 2008 CZ ₁₅₂	16.5	X	355.90285	304.03992	144.01667	12.46109	0.1538761	0.22744584	2.6579739	20	—	—
364843 2008 CQ ₁₅₇	16.7	X	316.65477	316.38412	169.07741	11.95420	0.1942462	0.22773489	2.6557244	20	—	—
364844 2008 CF ₁₅₈	16.8	X	297.18916	286.99212	162.34108	9.21433	0.2221624	0.21751891	2.7382391	20	11 11.5	19.6
364845 2008 CS ₁₇₁	16.7	X	173.37143	156.56404	99.76356	12.70648	0.0562580	0.22466658	2.6798495	20	—	—
364846 2008 CW ₁₈₄	16.3	X	1.20824	273.43344	226.76250	26.30513	0.1548845	0.23922695	2.5699775	20	—	—
364847 2008 CA ₁₉₅	16.5	X	78.08316	296.86235	6.85619	10.24278	0.1431797	0.20085830	2.8876387	20	12 3.2	21.0
364848 2008 CA ₁₉₇	16.8	X	318.07292	131.48783	156.47748	17.28463	0.2204747	0.17803254	3.1294627	20	5 3.1	19.9
364849 2008 CJ ₂₀₀	16.7	X	300.10020	280.90561	185.45433	9.19813	0.0659747	0.21437709	2.7649279	20	12 19.3	20.3
364850 2008 CJ ₂₀₁	17.2	X	246.66371	228.88797	336.81686	5.62147	0.0767648	0.22962702	2.6411155	20	—	—
364851 2008 CT ₂₀₂	17.5	X	355.77987	81.47178	27.31186	3.31428	0.0257385	0.22900554	2.6458916	20	—	—
364852 2008 CP ₂₀₉	15.0	X	64.03021	230.28018	279.32107	9.41367	0.0634817	0.17363050	3.1821358	20	4 19.7	19.6
364853 2008 CK ₂₁₂	16.1	X	269.74524	52.63173	121.64386	11.75179	0.0047618	0.21902962	2.7256337	20	—	—
364854 2008 DV ₆	16.6	X	303.34355	36.96546	139.49683	14.16800	0.1259663	0.23520514	2.5991909	20	—	—
364855 2008 DZ ₇	17.3	X	133.65012	258.11909	46.55102	5.47953	0.1189758	0.22089344	2.7102800	20	—	—
364856 2008 DV ₁₀	16.5	X	80.61738	283.89258	133.32942	9.81117	0.0851448	0.24213158	2.5493830	20	1 12.5	19.5
364857 2008 DZ ₁₀	17.0	X	81.00614	17.38739	352.69777	4.34094	0.0965999	0.23151690	2.6267228	20	—	—
364858 2008 DE ₁₆	16.7	X	293.90694	21.61488	115.09218	7.67439	0.1346859	0.22293307	2.6937237	20	—	—
364859 2008 DG ₁₆	16.8	X	250.38374	0.20335	168.30420	8.30935	0.1382029	0.21601652	2.7509207	20	12 19.2	20.5
364860 2008 DP ₁₈	17.1	X	345.30497	70.71678	2.35888	5.24413	0.0438509	0.22016972	2.7162161	20	—	—
364861 2008 DQ ₂₁	16.3	X	288.34912	290.20382	214.05997	12.12741	0.2092628	0.22258532	2.6965287	20	—	—
364862 2008 DB ₃₀	17.2	X	202.68172	310.66218	334.17342	1.41096	0.1794439	0.22996965	2.6384915	20	—	—
364863 2008 DF ₃₁	16.2	X	253.33615	79.88719	149.60300	27.63286	0.0577230	0.23470685	2.6028684	20	—	—
364864 2008 DX ₃₆	16.7	X	68.57228	11.32229	7.48949	7.11209	0.0879059	0.22508946	2.6764920	20	—	—
364865 2008 DS ₃₇	17.1	X	216.17914	24.98384	175.19663	8.80845	0.1389213	0.21369857	2.7707774	20	12 16.2	21.3
364866 2008 DZ ₄₈	15.4	X	77.81877	27.78102	133.62754	28.34873	0.1087938	0.17826641	3.1267251	20	6 9.5	20.3
364867 2008 DQ ₄₉	16.5	X	301.12662	100.05646	112.12806	15.69760	0.0681999	0.24293577	2.5437538	20	1 12.8	19.6
364868 2008 DR ₅₂	16.0	X	169.27065	141.34076	220.69751	3.54335	0.2737979	0.24121917	2.5558076	20	3 1.7	20.6
364869 2008 DJ ₅₆	16.4	X	338.94432	24.63657	114.47089	15.05065	0.0496965	0.23179865	2.6245939	20	—	—
364870 2008 DP ₅₇	16.7	X	290.84706	309.34553	191.72728	17.00883	0.1373183	0.22293326	2.6937222	20	—	—
364871 2008 DU ₆₃	17.4	X	291.83918	77.46576	99.05164	2.71564	0.0148752	0.22892941	2.6464782	20	—	—
364872 2008 DF ₇₀	16.1	X	238.41037	105.88332	84.71575	15.76749	0.1378330	0.21809457	2.7334186	20	12 31.2	19.7
364873 2008 DJ ₇₆	17.5	X	257.06042	184.01405	3.65489	1.41296	0.0575057	0.22356302	2.6886611	20	—	—
364874 2008 DH ₈₄	16.1	X	137.70139	107.65291	357.46259	16.39642	0.1590467	0.17860374	3.1227869	20	5 31.9	21.4
364875 2008 DP ₈₉	16.6	X	243.62563	50.19799	181.60470	12.07743	0.0782570	0.22901				

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>
364881 2008 EG ₃₀	16.7	X	152.62584	326.10630	3.31206	2.44334	0.0885609	0.23104538	2.6302954	20	—	—
364882 2008 ER ₃₈	16.6	X	171.45595	122.58491	104.99374	7.04439	0.0135281	0.21114337	2.7930867	20	12 11.6	20.5
364883 2008 EU ₃₈	17.0	X	196.91039	78.94408	127.80126	5.82658	0.0581005	0.21244879	2.7816333	20	12 11.9	21.0
364884 2008 EF ₃₉	16.5	X	6.69274	304.15000	148.94545	10.35014	0.1378298	0.22876199	2.6477692	20	—	—
364885 2008 EJ ₄₃	17.3	X	283.42064	311.30799	167.14759	4.85814	0.1696266	0.21238806	2.7821635	20	11 29.3	20.4
364886 2008 EL ₄₉	16.5	X	1.42720	308.96878	355.77206	9.14940	0.0407856	0.18814966	3.0162483	20	8 17.1	20.5
364887 2008 EU ₅₆	17.0	X	298.93078	345.82518	149.80100	12.86044	0.1122164	0.22122201	2.7075958	20	—	—
364888 2008 EN ₅₇	15.7	X	139.27086	222.37357	159.94262	14.75302	0.1996465	0.23834048	2.5763459	20	2 26.3	19.6
364889 2008 EQ ₅₇	16.2	X	201.20939	102.20952	145.86623	9.44487	0.1253520	0.21785829	2.7353946	20	—	—
364890 2008 EF ₆₂	16.3	X	157.39455	236.40339	197.12897	9.87073	0.0774075	0.17807775	3.1289331	20	5 12.9	21.0
364891 2008 EO ₆₂	16.9	X	313.65504	256.42137	248.86521	5.44577	0.0442445	0.22770814	2.6559324	20	—	—
364892 2008 EY ₆₉	15.8	X	152.35340	102.67637	174.49498	20.12286	0.1731866	0.21026875	2.8008267	20	—	—
364893 2008 ER ₇₁	17.1	X	311.80857	346.50866	122.99881	5.33708	0.0724109	0.21997782	2.7177955	20	—	—
364894 2008 EZ ₇₂	17.0	X	259.77523	3.89767	144.42213	5.65599	0.0997163	0.21500118	2.7595747	20	12 12.0	20.6
364895 2008 EX ₇₆	17.3	X	141.51950	193.80724	77.27350	3.06663	0.0595308	0.21097833	2.7945431	20	12 28.1	21.3
364896 2008 ET ₇₈	16.8	X	233.85428	116.87130	47.21731	4.87357	0.1411182	0.21311618	2.7758229	20	11 20.9	20.6
364897 2008 EU ₇₉	16.6	X	253.13056	13.22872	189.09088	11.77511	0.1325240	0.22485496	2.6783525	20	—	—
364898 2008 EG ₈₆	16.7	X	198.51671	132.16651	100.81203	4.49240	0.1386386	0.21678443	2.7444205	20	—	—
364899 2008 EU ₁₀₅	17.4	X	338.61920	340.34119	120.14829	6.65745	0.2100864	0.22668030	2.6639549	20	—	—
364900 2008 EF ₁₀₇	17.3	X	93.87920	272.60147	65.42144	6.76806	0.0637649	0.21667340	2.7453580	20	—	—
364901 2008 EX ₁₁₀	16.7	X	91.75936	239.93278	77.54753	5.55113	0.0636071	0.21292817	2.7774567	20	12 31.1	20.7
364902 2008 EW ₁₂₁	17.2	X	103.09514	8.84957	349.79272	5.37818	0.0859611	0.22308547	2.6924968	20	—	—
364903 2008 EZ ₁₂₂	17.2	X	207.69908	119.87697	44.88140	1.99168	0.1273998	0.20343404	2.8632129	20	10 24.4	21.5
364904 2008 EW ₁₂₉	16.8	X	264.99801	22.84800	107.77695	5.25963	0.1471548	0.21286776	2.7779821	20	11 20.0	20.2
364905 2008 EY ₁₃₀	16.6	X	157.76378	241.97303	55.71943	5.55154	0.1414027	0.21962965	2.7206671	20	—	—
364906 2008 EE ₁₃₂	16.6	X	235.25514	32.03867	161.01775	8.72617	0.1219180	0.21593979	2.7515723	20	12 31.9	20.4
364907 2008 EJ ₁₃₅	17.3	X	184.00245	160.79845	91.27936	3.41209	0.1577618	0.21403740	2.7678525	20	—	—
364908 2008 EF ₁₃₆	16.8	X	135.84594	181.94028	116.52548	4.39906	0.1546759	0.21257200	2.7805584	20	—	—
364909 2008 EY ₁₄₀	17.1	X	295.77743	179.79759	307.54801	3.22407	0.0366282	0.21617345	2.7495892	20	—	—
364910 2008 EZ ₁₄₆	16.9	X	210.42637	169.17042	47.38208	8.71437	0.1226805	0.21120963	2.7925025	20	12 1.2	21.1
364911 2008 ER ₁₄₈	17.5	X	265.18859	317.94743	202.65705	3.07912	0.1357305	0.21687598	2.7436481	20	12 30.4	20.8
364912 2008 EM ₁₄₉	16.8	X	146.00966	204.21784	96.44100	4.75855	0.1517126	0.21492967	2.7601868	20	—	—
364913 2008 EL ₁₅₀	16.9	X	289.38380	168.12072	269.74676	1.00819	0.0412263	0.20284313	2.8687708	20	10 27.3	20.8
364914 2008 EF ₁₅₃	16.5	X	52.90870	320.22888	46.26957	10.23223	0.1611296	0.21230344	2.7829028	20	—	—
364915 2008 ED ₁₅₄	17.2	X	321.69656	271.22047	194.39289	3.24373	0.0407886	0.21583505	2.7524624	20	—	—
364916 2008 ES ₁₅₄	17.0	X	214.33149	93.93356	181.09552	13.88869	0.1618721	0.22801694	2.6535339	20	—	—
364917 2008 EQ ₁₅₆	16.9	X	293.36663	101.64664	6.96979	7.48446	0.0991911	0.21297777	2.7770255	20	12 8.2	20.3
364918 2008 EX ₁₅₇	16.3	X	172.83215	183.97986	73.49167	6.45712	0.0499237	0.21692910	2.7432002	20	—	—
364919 2008 EY ₁₆₀	17.1	X	185.72632	34.87212	192.93875	9.00419	0.1468048	0.21058135	2.7980542	20	12 16.5	21.7
364920 2008 ED ₁₆₁	16.8	X	63.33619	315.77360	56.93347	6.96207	0.0578666	0.21527297	2.7572515	20	—	—
364921 2008 EV ₁₆₁	16.8	X	176.98505	42.46907	185.29458	5.74430	0.1014038	0.20947410	2.8079055	20	12 11.2	21.1
364922 2008 EA ₁₆₂	17.5	X	147.71026	158.68521	110.09479	3.36567	0.0402182	0.21282129	2.7783866	20	—	—
364923 2008 FF ₂	17.1	X	211.71206	300.41412	253.21974	2.20824	0.1303289	0.21313476	2.7756616	20	12 3.8	21.2
364924 2008 FK ₉	17.2	X	321.50031	86.49664	5.34421	3.05070	0.0204597	0.21810691	2.7333155	20	—	—
364925 2008 FK ₁₃	16.5	X	161.77348	315.26365	179.63492	10.03260	0.0655554	0.18752296	3.0229647	20	7 30.2	21.1
364926 2008 FG ₂₄	16.8	X	51.10340	259.07063	150.72996	7.14122	0.0562815	0.22139862	2.7061557	20	—	—
364927 2008 FY ₂₅	16.8	X	75.75590	233.21370	142.88983	6.70630	0.0770852	0.21852437	2.7298333	20	—	—
364928 2008 FB ₄₇	17.3	X	256.54497	181.28002	14.79052	5.46848	0.0084607	0.22336406	2.6902575	20	—	—
364929 2008 FT ₄₉	17.3	X	290.95182	108.93054	20.47760	4.82866	0.0445792	0.21430031	2.7655882	20	—	—
364930 2008 FX ₅₆	17.1	X	19.09121	220.36053	142.82059	2.73713	0.0767545	0.20461274	2.8522063	20	11 29.9	20.7
364931 2008 FT ₆₄	17.0	X	286.00058	310.74427	171.18859	4.66845	0.0630988	0.20885334	2.8134666	20	12 17.7	20.6
364932 2008 FG ₆₇	16.8	X	196.87270	16.85526	163.93214	2.82081	0.1571635	0.20242046	2.8727629	20	10 30.9	21.2
364933 2008 FU ₇₁	15.6	X	4.89451	81.28843	181.14048	23.01304	0.1215726	0.17981861	3.1087058	20	6 25.5	19.9
364934 2008 FX ₇₄	16.9	X	92.83540	232.22541	97.57630	5.77565	0.0501060	0.21225298	2.7833438	20	—	—
364935 2008 FG ₈₂	16.9	X	179.19264	85.20201	169.95435	4.35486	0.1617179	0.21324528	2.7747025	20	—	—
364936 2008 FQ ₉₅	17.2	X	133.25443	231.49289	49.61602	4.31648	0.0650369	0.20958133	2.8069477	20	12 31.1	21.3
364937 2008 FB ₁₀₉	16.8	X	115.85129	168.01538	92.09518	3.26563	0.0196526	0.20326285	2.8648202	20	11 13.8	20.8
364938 2008 FJ ₁₁₄	17.4	X	140.28201	122.63574	171.39189	5.83948	0.0509221	0.21507657	2.7598298	20	—	—
364939 2008 FV ₁₁₄	17.3	X	226.44437	33.28631	152.91626	4.06153	0.0322908	0.21148443	2.900829	20	12 24.5	21.2
364940 2008 FW ₁₁₇	16.1	X	214.11031	253.22611	209.89780	13.62673	0.1355055	0.18938253	3.0031437	20	8 9.2	21.0
364941 2008 FN ₁₁₈	17.0	X	313.69301	345.59515	153.14418	5.36105	0.0521123	0.22148892	2.7054201	20	—	—
364942 2008 FT ₁₂₀	17.0	X	350.56350	13.66546	65.98754	7.03240	0.0537522	0.21660745	2.7459152	20	—	—
364943 2008 FK ₁₂₄	16.2	X	128.75987	110.41440	215.25831	7.59657	0.2670558	0.21105575	2.7938597	20	—	—
364944 2008 FX ₁₂₇	17.2	X	197.13125	92.89297	126.46999	5.12123	0.0464175	0.20991552	2.8039678	20	12 27.8	21.1
364945 2008 GQ ₆	16.0	X	115.24925	143.55204	159.60294	9.16673	0.0664995	0.20950780	2.8076044	20	—	—
364946 2008 GV ₁₇	16.7	X	109.36088	241.89477	75.71217	8.31705	0.0669549	0.21162650	2.7888342	20	—	—
364947 2008 GM ₁₈	17.3	X	170.03390	207.73210	30.97064	4.15923	0.0433669	0.21241341	2.7819421	20	12 21.1	21.3
364948 2008 GQ ₂₃	16.7	X	349.61061	294.63817	139.56546	5.17941	0.0511939	0.21453668	2.7635565	20	—	—
364949 2008 GQ ₂₉	16.9	X	159.54410	253.34545	13.03183	7.51304	0.2306354	0.20934175	2.8090889	20	—	—
364950 2008 GT ₃₃	17.6	X	268.50351	297.36158	187.69430	1.92789	0.1653785	0.21151475	2.7898163	20	11 13.9	21.0
364951 2008 GE ₅₇	16.9	X	103.93114	205.91183	89.46090	1.87104	0.1547478	0.20007795	2.8951422	20	12 20.6	21.5
364952 2008 GE ₇₀	16.2	X	149.08971	150.01855	96.74754	10.90128	0.1087021	0.20048889	2.8911847	20	12 5.2	20.8
364953 2008 GS ₇₀	17.5	X	350.49125	318.51341	137.02118	5.69894	0.1273386	0.22658544	2.6646983	20	—	—
364954 2008 GE ₈₀	16.6	X	274.04122	348.48879	124.66489	6.75237	0.0340617	0.20593188	2.8400130	20	11 24.1	20.5
364955 2008 GK ₈₁	15.											

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>
364961 2008 <i>GB</i> ₁₀₇	16.9	X	297.00987	330.85743	158.13311	9.49866	0.1426083	0.21774765	2.7363211	20	—	—
364962 2008 <i>GZ</i> ₁₂₂	17.1	X	102.86860	151.00047	175.27786	4.37218	0.0662765	0.21027444	2.8007761	20	—	—
364963 2008 <i>GV</i> ₁₂₆	16.5	X	287.36723	26.55320	72.53044	10.11137	0.2538991	0.21205184	2.7851036	20	10 30.7	19.4
364964 2008 <i>GM</i> ₁₃₂	16.3	X	87.35246	258.20338	76.13865	11.16111	0.1371775	0.20106862	2.8856247	20	—	—
364965 2008 <i>GJ</i> ₁₃₉	17.1	X	239.88553	137.62054	25.25559	5.38205	0.0962039	0.20991818	2.8039441	20	12 1.9	20.9
364966 2008 <i>GH</i> ₁₄₁	16.1	X	39.04265	193.07635	61.93010	10.16496	0.1186062	0.17701320	3.1414654	20	8 15.2	20.3
364967 2008 <i>GN</i> ₁₄₅	16.7	X	128.27158	187.39291	68.77715	6.37200	0.0888758	0.19819634	2.9134370	20	11 24.6	21.2
364968 2008 <i>HA</i> ₃	16.9	X	78.41029	277.18330	76.18834	6.66915	0.1925155	0.21849727	2.7300590	20	—	—
364969 2008 <i>HF</i> ₃	17.6	X	41.81177	26.06399	63.76928	23.97549	0.0965019	0.38890723	1.8588259	20	—	—
364970 2008 <i>HG</i> ₆	16.9	X	67.79412	169.48998	201.33127	5.75369	0.0499096	0.21534247	2.7566582	20	—	—
364971 2008 <i>HU</i> ₁₄	16.2	X	267.34802	10.50485	217.43821	14.50203	0.1850481	0.22658505	2.6647014	20	—	—
364972 2008 <i>HC</i> ₂₀	15.8	X	8.70947	180.72460	126.78582	11.99448	0.1489551	0.17870371	3.1216221	20	9 8.1	19.6
364973 2008 <i>HS</i> ₂₁	16.9	X	166.07514	340.88208	212.58939	1.63234	0.2437709	0.19671778	2.9280173	20	10 14.7	22.1
364974 2008 <i>HN</i> ₂₂	16.5	X	202.65296	146.61841	119.86520	9.85627	0.2499641	0.21359270	2.7716984	20	—	—
364975 2008 <i>HB</i> ₂₅	16.0	X	262.99434	257.00347	212.65950	16.75254	0.0924803	0.20165476	2.8800304	20	10 25.4	19.9
364976 2008 <i>HO</i> ₂₅	16.0	X	346.15779	287.13163	85.57300	12.27582	0.1295887	0.19041639	2.9922634	20	10 29.6	19.7
364977 2008 <i>GN</i> ₃₈	15.9	X	17.86933	301.10028	44.92751	8.02609	0.3175126	0.18485859	3.0519422	20	12 5.5	19.6
364978 2008 <i>HQ</i> ₄₂	16.8	X	42.05272	264.78080	82.40632	3.16742	0.0765966	0.20512841	2.8474242	20	12 9.4	20.5
364979 2008 <i>HX</i> ₄₆	15.8	X	264.21279	10.81231	128.91301	13.92972	0.1472169	0.20618462	2.8376916	20	11 30.9	19.6
364980 2008 <i>HM</i> ₅₄	16.3	X	40.84448	70.50458	215.77831	10.36683	0.0458531	0.18358034	3.0660926	20	9 10.5	20.6
364981 2008 <i>HE</i> ₅₉	16.6	X	50.15938	148.66236	200.28030	5.49603	0.0805657	0.20163826	2.8801875	20	12 21.1	20.6
364982 2008 <i>HN</i> ₆₂	16.1	X	24.09749	44.86836	74.13952	29.90532	0.1451699	0.22896324	2.6462175	20	1 5.6	19.2
364983 2008 <i>HP</i> ₆₅	16.7	X	261.09027	41.75489	210.73471	11.51169	0.2054174	0.22652223	2.6651940	20	1 5.3	21.2
364984 2008 <i>HB</i> ₆₆	16.1	X	146.86590	39.37197	227.81916	14.56482	0.1123648	0.20344161	2.8631418	20	12 25.0	20.8
364985 2008 <i>HS</i> ₆₇	17.0	X	78.91694	39.37197	234.15121	8.56720	0.1126108	0.18932700	3.0037308	20	10 23.9	21.4
364986 2008 <i>JR</i> ₂	17.8	X	136.33856	303.60976	72.73627	23.22580	0.1236245	0.39020501	1.8547021	20	1 14.4	19.8
364987 2008 <i>JY</i> ₈	15.5	X	8.77396	230.76209	61.67473	14.93804	0.2009143	0.17875002	3.1210830	20	8 28.7	19.2
364988 2008 <i>JZ</i> ₁₀	16.0	X	355.25546	252.56581	110.73517	11.52175	0.1183953	0.19016175	2.9949342	20	10 31.6	19.8
364989 2008 <i>JT</i> ₁₂	16.4	X	134.44005	163.70714	108.20667	10.91439	0.0608460	0.20125670	2.8838267	20	12 19.8	20.7
364990 2008 <i>JD</i> ₁₈	16.1	X	203.73575	39.85972	90.13548	10.75804	0.0614386	0.18737420	3.0245645	20	9 16.6	20.7
364991 2008 <i>JL</i> ₃₃	15.7	X	352.86278	207.97530	104.34073	11.70691	0.0664622	0.17853338	3.1236073	20	8 13.7	19.8
364992 2008 <i>JG</i> ₃₉	16.3	X	347.62361	104.21283	225.03875	15.00270	0.1458582	0.17656090	3.1468282	20	8 19.9	20.2
364993 2008 <i>KA</i>	15.7	X	31.74738	128.07534	190.00866	26.87924	0.2306823	0.17173771	3.2054741	20	11 11.4	20.1
364994 2008 <i>KM</i> ₁	15.9	X	164.79634	202.45077	96.99057	12.99482	0.0667084	0.21269378	2.7794968	20	—	—
364995 2008 <i>KE</i> ₃	16.2	X	35.19162	243.10206	107.66565	11.34977	0.1213173	0.19277934	2.9677619	20	12 9.8	20.2
364996 2008 <i>KF</i> ₇	16.3	X	42.90063	255.57701	124.38511	13.22679	0.1606995	0.20101517	2.8861362	20	—	—
364997 2008 <i>KJ</i> ₁₀	15.7	X	28.34234	232.91922	120.18755	17.63524	0.1854073	0.18098922	3.0952869	20	12 11.6	20.0
364998 2008 <i>KG</i> ₁₂	16.1	X	31.00143	281.77153	56.06265	12.11931	0.1052091	0.19175192	2.9783534	20	11 14.9	20.1
364999 2008 <i>KO</i> ₁₃	16.9	X	164.17174	7.02469	230.18347	11.64250	0.1292207	0.20176599	2.8789718	20	12 6.8	21.6
365000 2008 <i>KV</i> ₁₆	16.2	X	349.72506	281.00294	124.07357	12.70988	0.0734630	0.19800669	2.9152970	20	12 10.9	20.1
365001 2008 <i>KZ</i> ₁₆	16.6	X	56.34846	118.02339	178.94043	9.64694	0.2621461	0.18384084	3.0631955	20	11 17.5	21.3
365002 2008 <i>KB</i> ₁₇	16.3	X	35.60774	197.50268	134.93824	10.68508	0.0866967	0.18968698	2.9999295	20	11 14.5	20.5
365003 2008 <i>KJ</i> ₂₇	16.8	X	82.99749	82.05513	189.25320	9.77927	0.0652873	0.19169815	2.9789103	20	10 23.1	21.0
365004 2008 <i>KM</i> ₃₂	16.1	X	183.86350	350.73033	184.32212	9.99437	0.0388554	0.19255774	2.9700384	20	10 17.9	20.5
365005 2008 <i>KB</i> ₃₉	16.6	X	161.84179	351.36409	193.16513	14.48017	0.0766701	0.18844003	3.0131490	20	10 1.7	21.1
365006 2008 <i>KR</i> ₄₀	16.2	X	352.84970	141.80264	196.89529	8.81382	0.1392696	0.18350189	3.0669664	20	9 17.5	19.9
365007 2008 <i>LX</i>	16.7	X	50.38917	113.89978	206.98059	9.18118	0.1624054	0.19312687	2.9642006	20	11 27.4	20.9
365008 2008 <i>LZ</i> ₄	15.7	X	69.72786	159.19218	110.04627	14.75769	0.0979487	0.17714846	3.1398661	20	10 13.0	20.5
365009 2008 <i>LU</i> ₆	17.5	X	18.51196	191.49208	148.70831	9.84977	0.2281149	0.26621249	2.3932263	20	12 9.2	20.5
365010 2008 <i>LO</i> ₁₂	15.9	X	76.20902	5.23755	238.09586	8.45206	0.0511621	0.17498460	3.1656982	20	8 31.6	20.5
365011 2008 <i>LL</i> ₁₃	16.7	X	89.19059	108.82685	176.91511	11.37878	0.1416034	0.19228266	2.9728703	20	11 25.1	21.4
365012 2008 <i>NH</i> ₂	16.1	X	29.55105	17.18231	307.93235	3.58278	0.2764548	0.17509879	3.1643216	20	11 17.2	20.1
365013 2008 <i>OV</i> ₁	17.3	X	68.34629	266.49749	127.99573	23.10038	0.1245307	0.36319482	1.9455525	20	—	—
365014 2008 <i>OX</i> ₂	20.2	X	262.50430	251.92792	220.21763	6.64876	0.620853	0.191917270	1.0476221	20	—	—
365015 2008 <i>OY</i> ₆	16.1	X	76.47905	32.60728	254.28881	9.01886	0.3158151	0.17995246	3.1071641	20	11 26.8	21.4
365016 2008 <i>OK</i> ₂₀	16.1	X	35.15421	178.82540	175.38990	12.46929	0.2294855	0.17913385	3.1166230	20	12 24.6	20.6
365017 2008 <i>PB</i> ₁₁	15.4	X	16.60904	177.79212	153.23743	18.34428	0.2305424	0.17271072	3.1934235	20	11 3.6	19.5
365018 2008 <i>PS</i> ₁₅	16.3	X	91.30346	202.10810	157.76162	11.12167	0.1203000	0.19264328	2.9691591	20	—	—
365019 2008 <i>QS</i> ₄	15.9	X	105.36397	44.98150	285.00042	9.17412	0.0654939	0.19313242	2.9641437	20	—	—
365020 2008 <i>QW</i> ₇	17.3	X	46.30879	211.17383	152.26818	10.14788	0.2309165	0.26686735	2.3893096	20	—	—
365021 2008 <i>QG</i> ₉	16.3	X	43.90702	158.58424	163.68925	6.08491	0.2392182	0.17523308	3.1627048	20	11 28.6	20.8
365022 2008 <i>QK</i> ₁₁	15.6	X	98.14656	39.86334	281.03644	10.99438	0.0972296	0.18691528	3.0295132	20	—	—
365023 2008 <i>QT</i> ₄₇	16.3	X	126.76705	102.86894	182.78985	18.67293	0.1426442	0.18689935	3.0296854	20	12 25.9	21.6
365024 2008 <i>RC</i> ₃₆	16.8	X	103.40371	109.13624	207.95249	1.91710	0.1624619	0.18501362	3.0502370	20	—	—
365025 2008 <i>RK</i> ₃₉	16.6	X	119.38006	127.55846	175.21228	9.46436	0.1379114	0.18558999	3.0439185	20	—	—
365026 2008 <i>RU</i> ₁₂₁	15.3	X	84.32976	292.18480	177.91984	11.21130	0.1067192	0.12610387	3.9383753	20	4 11.4	20.8
365027 2008 <i>RO</i> ₁₂₈	16.0	X	78.56100	103.21231	167.47780	18.75051	0.1635224	0.17114844	3.2128275	20	10 28.4	21.1
365028 2008 <i>RP</i> ₁₄₅	15.8	X	8.42747	105.06432	296.67673	9.20128	0.1010043	0.17945202	3.1129380	20	12 29.4	19.8
365029 2008 <i>SY</i> ₁	17.7	X	136.97546	97.27201	222.54810	20.18819	0.0711810	0.36045314	1.9554055	20	—	—
365030 2008 <i>SL</i> ₁₁	16.3	X	81.26698	45.73126	285.15896	5.54363	0.1446714	0.17933221	3.1143244	20	—	—
365031 2008 <i>SE</i> ₁₄	17.7	X	111.45280	186.94359	162.28016	22.45249	0.0687350	0.36450911	1.9408730	20	—	—
365032 2008 <i>SK</i> ₂₂	16.0	X	63.34039	153.99611	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>
365041 2008 <i>TK</i> ₄₃	15.8	X	73.77351	63.80277	292.95017	8.65801	0.1130541	0.18206739	3.0830549	20	—	—
365042 2008 <i>TU</i> ₇₃	15.6	X	102.11006	63.50975	227.92076	9.06988	0.2062202	0.17387571	3.1791433	20	12 13.1	20.9
365043 2008 <i>TF</i> ₁₁₅	15.8	X	91.72383	38.01023	286.34475	8.16191	0.0672098	0.17859579	3.1228796	20	12 31.6	20.4
365044 2008 <i>TH</i> ₁₆₇	15.9	X	140.35488	19.31109	266.78880	8.77532	0.0669263	0.18222334	3.0812957	20	—	—
365045 2008 <i>UA</i> ₂₂₈	16.1	X	272.35784	65.61469	292.39203	11.79922	0.1093274	0.22675258	2.6633887	20	6 11.2	19.7
365046 2008 <i>UK</i> ₃₁₂	15.9	X	67.38617	100.30963	241.47700	10.04268	0.1131672	0.18113682	3.0936052	20	12 30.4	20.5
365047 2008 <i>UA</i> ₃₂₈	16.1	X	164.94725	334.86550	252.01801	7.01025	0.0208147	0.17290904	3.1909812	20	11 23.7	20.7
365048 2008 <i>UV</i> ₃₇₀	17.1	X	36.96410	288.71913	247.68649	5.75371	0.1448147	0.27608335	2.3358372	20	4 18.9	19.3
365049 2008 <i>VQ</i> ₅₁	15.6	X	48.21234	147.97534	233.14657	12.58823	0.0594693	0.17973764	3.1096393	20	—	—
365050 2008 <i>VL</i> ₇₂	18.1	X	263.44022	331.70467	67.29805	2.46499	0.1567395	0.31397196	2.1439212	20	7 24.8	20.3
365051 2008 <i>WL</i> ₂	17.4	X	196.60658	65.18040	248.92480	19.34721	0.0515970	0.36487061	1.9395908	20	—	—
365052 2008 <i>WP</i> ₃₃	17.3	X	136.04806	301.43128	95.45903	0.71664	0.0545012	0.20182722	2.8783895	20	2 29.5	21.5
365053 2008 <i>WP</i> ₄₄	18.0	X	113.36133	272.39214	250.11358	1.81286	0.0438820	0.30548910	2.1834282	20	7 15.8	20.5
365054 2008 <i>WM</i> ₄₅	18.5	X	178.37433	69.64193	59.41472	1.56056	0.0794574	0.31220047	2.1520235	20	8 24.0	21.2
365055 2008 <i>WZ</i> ₈₀	18.9	X	149.81737	241.17053	204.68344	4.76937	0.0898108	0.29593210	2.2301872	20	5 18.5	21.9
365056 2008 <i>YJ</i> ₇	17.3	X	150.42619	56.39357	274.74424	17.15603	0.0726755	0.35251450	1.9846536	20	—	—
365057 2008 <i>YJ</i> ₁₂	18.0	X	163.89605	39.30371	70.75380	3.37931	0.0824068	0.30350163	2.1929498	20	7 8.5	20.9
365058 2008 <i>YF</i> ₃₄	17.0	X	25.58815	291.44718	279.49244	6.27919	0.0615939	0.28726246	2.2748362	20	5 13.9	19.4
365059 2008 <i>YP</i> ₃₇	17.7	X	86.00546	233.95031	282.05615	2.11249	0.1722650	0.28661184	2.2782775	20	6 17.3	20.5
365060 2008 <i>YV</i> ₄₃	18.2	X	182.01554	31.75050	94.54853	3.84726	0.0364065	0.31223271	2.1518754	20	8 28.7	20.8
365061 2008 <i>YU</i> ₅₂	16.1	X	183.88478	108.78032	107.62802	12.92781	0.0472707	0.23860629	2.5744322	20	12 16.3	19.8
365062 2008 <i>YG</i> ₆₂	18.0	X	64.53932	290.62250	198.15057	2.42092	0.1096165	0.27799304	2.3251275	20	3 24.8	20.2
365063 2008 <i>YL</i> ₆₉	17.8	X	97.49647	56.25148	91.87223	3.74436	0.0785294	0.29134122	2.2535546	20	6 7.1	20.5
365064 2008 <i>YS</i> ₁₀₀	18.4	X	28.54791	71.91910	105.46777	3.46519	0.1725139	0.27746332	2.3280859	20	4 8.4	20.1
365065 2008 <i>YQ</i> ₁₀₁	17.8	X	19.05984	78.10603	127.05658	6.00494	0.1771871	0.28161158	2.3051669	20	5 4.6	19.5
365066 2008 <i>YC</i> ₁₀₉	18.2	X	98.00686	131.73144	334.69983	2.21135	0.0864332	0.28004550	2.3137529	20	4 8.7	21.0
365067 2008 <i>YQ</i> ₁₂₆	17.9	X	126.20898	43.82859	96.15542	2.81263	0.0683906	0.29508583	2.2344492	20	7 2.7	20.6
365068 2008 <i>YY</i> ₁₂₇	17.9	X	29.02940	83.70900	116.51062	6.30097	0.1538196	0.28120259	2.3074015	20	5 16.2	19.9
365069 2008 <i>YA</i> ₁₄₁	18.1	X	168.73574	139.31627	275.06398	5.19944	0.1064168	0.28677384	2.2774195	20	4 25.5	21.4
365070 2008 <i>YT</i> ₁₆₅	18.5	X	124.29424	260.80596	222.60695	1.41078	0.1422389	0.28975756	2.2617583	20	6 14.1	21.6
365071 2009 <i>AV</i>	18.1	X	10.60937	322.10594	150.74098	45.86619	0.0739547	0.94321027	1.0297466	20	—	—
365072 2009 <i>AQ</i> ₁₁	18.1	X	92.11796	166.91040	324.25292	1.33591	0.0765892	0.28495975	2.2870748	20	5 4.3	20.7
365073 2009 <i>AM</i> ₄₁	18.0	X	344.79132	190.47574	142.19585	2.21402	0.0856608	0.30832882	2.1700012	20	9 18.2	19.7
365074 2009 <i>AA</i> ₄₃	17.6	X	344.70725	16.91928	269.70532	3.27540	0.0842005	0.29230877	2.2485790	20	6 30.7	19.4
365075 2009 <i>BA</i> ₁₃	16.9	X	270.47523	206.63057	296.43141	11.00710	0.1374115	0.24017933	2.5631792	20	12 23.8	19.8
365076 2009 <i>BK</i> ₁₃	17.1	X	161.98235	173.60016	292.23946	5.22269	0.0985336	0.29474181	2.2361875	20	6 30.0	20.0
365077 2009 <i>BD</i> ₁₇	17.9	X	171.41174	293.50547	130.15172	5.09264	0.1648425	0.29213347	2.2494785	20	5 16.2	21.4
365078 2009 <i>BS</i> ₃₆	17.8	X	40.27760	152.80398	16.94786	3.01456	0.0846399	0.27778594	2.3262830	20	4 10.3	20.2
365079 2009 <i>BW</i> ₃₇	17.8	X	107.42587	67.51312	98.91776	4.30822	0.0608939	0.29347504	2.2426178	20	7 15.4	20.5
365080 2009 <i>BO</i> ₄₆	17.7	X	8.54400	260.82868	229.21845	1.67760	0.1251366	0.26418796	2.4054372	20	1 14.2	19.9
365081 2009 <i>BL</i> ₇₂	17.8	X	50.17446	318.31583	248.37329	3.04578	0.1655652	0.28307349	2.2972235	20	6 7.6	20.0
365082 2009 <i>BD</i> ₇₉	17.9	X	71.69785	262.85132	250.16874	1.38380	0.1045847	0.28322791	2.2963884	20	5 10.9	20.5
365083 2009 <i>BY</i> ₉₀	17.3	X	74.13304	174.52486	317.15896	4.52158	0.0729559	0.27820619	2.3239397	20	4 5.9	20.0
365084 2009 <i>BD</i> ₁₀₂	16.6	X	69.55642	128.03774	148.20828	20.99885	0.2537901	0.21339240	2.7734270	20	11 13.7	21.4
365085 2009 <i>BG</i> ₁₀₅	17.9	X	101.30820	212.15564	287.29520	3.30436	0.0959511	0.28497263	2.2870059	20	6 1.9	20.6
365086 2009 <i>BY</i> ₁₀₅	18.2	X	309.90767	305.25611	268.26139	1.19373	0.2806581	0.25931369	2.4354867	20	—	—
365087 2009 <i>BO</i> ₁₀₆	17.4	X	3.79087	65.50589	120.34033	5.58282	0.1515661	0.26904178	2.3764183	20	2 27.4	19.5
365088 2009 <i>BS</i> ₁₀₆	17.7	X	164.56442	173.76874	259.91025	2.48011	0.1266068	0.28913067	2.2650264	20	5 19.6	21.0
365089 2009 <i>BS</i> ₁₁₀	18.0	X	84.30554	121.52467	357.47641	5.80054	0.1675022	0.27600555	2.3362761	20	4 19.6	20.8
365090 2009 <i>BE</i> ₁₁₇	17.6	X	341.06054	170.83220	4.91837	5.02101	0.0519994	0.26404185	2.4063245	20	1 18.5	20.5
365091 2009 <i>BE</i> ₁₂₄	17.3	X	177.41479	301.40926	157.94175	5.36234	0.1166186	0.29508846	2.2344359	20	7 7.8	20.6
365092 2009 <i>BA</i> ₁₂₆	18.3	X	6.12759	217.20988	322.44624	2.29590	0.1114032	0.27054071	2.3676326	20	2 23.6	20.4
365093 2009 <i>BJ</i> ₁₃₀	17.5	X	111.28244	348.47429	122.95599	6.81547	0.1786704	0.28139806	2.3063328	20	5 19.8	20.8
365094 2009 <i>BF</i> ₁₃₁	17.6	X	64.74334	73.21216	93.92767	4.23756	0.1006488	0.27977855	2.3152245	20	5 21.4	20.0
365095 2009 <i>BZ</i> ₁₄₁	18.3	X	24.88228	317.80081	112.02742	3.25275	0.1949268	0.25534173	2.4606784	20	—	—
365096 2009 <i>BY</i> ₁₄₃	17.9	X	187.38321	63.35190	337.22918	1.72629	0.1283465	0.28645266	2.2791215	20	4 28.7	21.3
365097 2009 <i>BX</i> ₁₄₉	18.1	X	25.40402	202.81601	313.48869	1.91549	0.1416927	0.26850995	2.3795552	20	2 24.9	20.1
365098 2009 <i>BF</i> ₁₅₀	17.7	X	49.37977	338.57053	177.59220	2.43901	0.0722935	0.27410022	2.3470903	20	4 5.1	20.1
365099 2009 <i>BZ</i> ₁₅₈	18.0	X	350.53871	329.11037	232.83066	0.62357	0.1253808	0.26835120	2.3804936	20	2 27.1	20.4
365100 2009 <i>BG</i> ₁₅₉	18.2	X	30.67171	299.62009	213.83514	0.55068	0.1192408	0.26867408	2.3785861	20	3 1.9	20.5
365101 2009 <i>BN</i> ₁₅₉	18.0	X	72.83963	334.82525	155.33437	2.60591	0.1584973	0.27485656	2.3427825	20	4 19.6	20.5
365102 2009 <i>BS</i> ₁₇₃	18.0	X	40.24150	16.54456	168.61872	3.01856	0.132835	0.27899324	2.3195671	20	5 8.4	20.2
365103 2009 <i>BJ</i> ₁₇₈	18.2	X	103.14545	101.38359	333.51511	1.47899	0.1933759	0.27419507	2.3465490	20	3 20.7	21.2
365104 2009 <i>BM</i> ₁₇₉	17.8	X	54.18865	96.16675	51.21075	4.21588	0.1837989	0.27489766	2.3425490	20	4 16.7	19.8
365105 2009 <i>BC</i> ₁₈₂	17.5	X	108.07318	301.29613	179.86795	7.11207	0.0784553	0.27944942	2.3170420	20	5 15.2	20.4
365106 2009 <i>BK</i> ₁₈₂	17.6	X	344.60973	220.54049	8.63297	2.69499	0.1211737	0.27457073	2.3444082	20	3 28.2	19.8
365107 2009 <i>BZ</i> ₁₈₂	16.3	X	186.28673	163.16711	356.82542	14.51473	0.1430417	0.21557567	2.7546698	20	9 26.2	20.7
365108 2009 <i>BF</i> ₁₈₆	17.6	X	345.36538	146.26442	119.45440	3.14593	0.0991584	0.28478895	2.2879892	20	5 28.6	19.7
365109 2009 <i>CT</i> ₁₂	17.4	X	12.31481	105.96929	148.06685	9.10952	0.1805905	0.28845973	2.2685373	20	7 9.9	19.2
365110 2009 <i>CH</i> ₁₄	17.7	X	120.74420	350.48584	92.46168	6.23530	0.1214951	0.28075466	2.3098551	20	4 15.7	20.8
365111 2009 <i>CA</i> ₁₈	17.6	X	201.82925	142.54452	290.43146	5.03276	0.1047876	0.29742010	2.2227426	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>
365121 2009 CH ₆₃	17.5	X	57.06256	138.54721	23.37427	5.82202	0.1209015	0.27763807	2.3271089	20	5 1.9	19.7
365122 2009 CJ ₆₅	17.7	X	281.18611	167.33350	112.95609	3.32011	0.1911121	0.26996261	2.3710114	20	2 26.6	21.0
365123 2009 CL ₆₅	17.9	X	330.93606	269.54788	14.23654	3.20343	0.1826126	0.28345448	2.2951646	20	5 16.9	19.7
365124 2009 DS ₁	18.0	X	28.45153	279.31832	210.61818	3.49243	0.1778225	0.26729789	2.3867432	20	1 20.3	20.0
365125 2009 DQ ₇	17.7	X	96.88325	305.79572	126.97775	1.99961	0.1656345	0.26859452	2.3790557	20	3 6.6	20.4
365126 2009 DE ₉	17.6	X	301.39793	61.10169	195.98618	5.65836	0.2235065	0.26430002	2.4047573	20	2 12.9	20.8
365127 2009 DE ₁₆	17.6	X	98.95055	317.54134	142.63090	5.91413	0.1537598	0.27631677	2.3345215	20	4 15.9	20.5
365128 2009 DF ₂₂	17.7	X	0.23853	150.26127	144.98585	5.54066	0.1829608	0.29801315	2.2197928	20	8 26.5	19.1
365129 2009 DB ₂₃	17.8	X	329.58060	257.49419	30.26369	2.71511	0.1359832	0.28236649	2.3010565	20	5 27.9	19.9
365130 Birnfeld	17.7	X	316.56517	111.29336	162.49133	6.83691	0.1371206	0.27502744	2.3418120	20	4 14.7	20.2
365131 Hassberge	17.6	X	51.33095	159.31985	346.17751	1.68143	0.1771349	0.27219640	2.3580217	20	4 5.3	19.6
365132 2009 DZ ₃₁	17.6	X	17.03768	13.08587	135.39314	3.94594	0.1062569	0.26161537	2.4211808	20	1 30.9	20.1
365133 2009 DY ₃₂	17.6	X	122.87157	293.58860	159.06603	6.68280	0.1102799	0.27507998	2.3415138	20	4 29.6	20.8
365134 2009 DK ₃₆	17.7	X	338.38243	293.47203	331.35470	1.36652	0.1765997	0.27870126	2.3211868	20	5 3.1	19.4
365135 2009 DA ₃₉	17.9	X	57.04388	135.89051	344.86613	7.25275	0.0611949	0.26919147	2.3755373	20	2 26.1	20.5
365136 2009 DX ₄₄	17.5	X	35.14093	25.32990	130.35845	3.41251	0.1685034	0.27032179	2.3689107	20	3 18.9	19.3
365137 2009 DE ₅₂	18.3	X	78.56776	87.11979	93.61310	4.67817	0.1003856	0.28919977	2.2646656	20	7 1.6	20.7
365138 2009 DO ₅₄	17.8	X	8.37827	72.43135	91.68700	2.04578	0.0998189	0.26646632	2.3917062	20	2 7.5	20.2
365139 2009 DY ₅₄	18.2	X	328.55079	120.00369	91.66883	2.20193	0.1679219	0.26478877	2.4017972	20	1 30.4	21.0
365140 2009 DF ₅₅	17.4	X	296.15153	164.68569	109.17678	2.38208	0.1704093	0.26948284	2.3738247	20	3 9.7	20.5
365141 2009 DN ₅₅	18.0	X	359.71999	82.06193	115.76578	1.99273	0.1266072	0.26933254	2.3747077	20	3 10.1	20.3
365142 2009 DY ₅₅	17.1	X	338.05346	182.69492	23.44353	2.87394	0.1507452	0.26523811	2.3990839	20	2 10.2	19.7
365143 2009 DD ₅₆	17.9	X	50.79877	81.46966	40.91536	3.01460	0.1430586	0.26747043	2.3857167	20	2 27.0	20.0
365144 2009 DA ₅₉	17.5	X	325.80958	161.94931	99.22146	2.08370	0.0668036	0.27553662	2.3389261	20	4 20.8	20.2
365145 2009 DV ₅₉	17.8	X	44.34276	23.67273	96.97601	3.46645	0.1456491	0.26495124	2.4008153	20	2 11.7	19.8
365146 2009 DM ₆₀	17.7	X	89.77102	37.81698	73.88444	3.58927	0.1647692	0.27444554	2.3451210	20	4 20.1	20.5
365147 2009 DF ₆₂	17.6	X	297.41916	190.06013	19.99171	5.03338	0.0603470	0.25640886	2.4538463	20	1 4.7	20.8
365148 2009 DL ₆₄	17.1	X	25.04394	78.28296	124.75105	6.86392	0.0586411	0.27543286	2.3395134	20	5 5.9	19.7
365149 2009 DD ₇₀	17.9	X	356.84700	325.33665	209.33960	0.87507	0.1061752	0.26515478	2.3995865	20	2 1.5	20.2
365150 2009 DL ₇₁	17.5	X	326.06073	187.21977	8.06040	2.61876	0.1075014	0.26223688	2.4173537	20	1 14.8	20.3
365151 2009 DO ₇₃	16.7	X	190.68586	26.57502	159.59034	13.21293	0.1134550	0.22554541	2.6728836	20	11 10.1	20.9
365152 2009 DB ₇₅	17.6	X	30.87543	162.61324	340.92138	2.12381	0.1409012	0.26703390	2.3883160	20	2 17.6	19.7
365153 2009 DY ₈₈	17.8	X	336.44183	42.47964	207.62810	2.23982	0.1635052	0.27555123	2.3388434	20	4 7.7	19.9
365154 2009 DS ₉₃	17.3	X	111.46649	1.33413	90.26992	4.13356	0.1411178	0.27320977	2.3521873	20	4 17.9	20.4
365155 2009 DT ₉₇	17.7	X	36.49141	44.24011	102.15669	3.11458	0.1313639	0.26800611	2.3825366	20	3 5.2	19.8
365156 2009 DW ₁₀₁	17.9	X	83.13465	37.01108	76.06938	5.50674	0.1717701	0.27268952	2.3551781	20	4 14.9	20.6
365157 2009 DU ₁₀₂	17.4	X	220.70585	284.10232	126.72108	6.87789	0.0695568	0.28865037	2.2675383	20	6 24.5	20.3
365158 2009 DN ₁₀₃	17.2	X	136.07379	346.46768	113.79355	6.34745	0.0612437	0.27971389	2.3155813	20	5 20.4	20.3
365159 Garching	17.8	X	2.01496	41.94297	156.49913	1.42808	0.1286856	0.26870197	2.3784215	20	3 14.7	19.8
365160 2009 DA ₁₁₇	18.0	X	74.66786	357.19410	161.64301	6.74658	0.0389417	0.27942008	2.3172042	20	5 15.6	20.8
365161 2009 DU ₁₁₈	17.2	X	283.26595	63.59382	171.95186	1.07519	0.1261875	0.25792275	2.4442350	20	1 10.9	20.7
365162 2009 DN ₁₂₀	17.3	X	280.43744	113.84501	164.13657	2.39579	0.1992803	0.26424880	2.4050680	20	2 21.2	20.5
365163 2009 DK ₁₂₄	17.9	X	5.02912	9.26150	156.27944	4.98861	0.1366473	0.26284511	2.4136231	20	1 30.5	20.3
365164 2009 DD ₁₂₇	17.6	X	47.48982	306.61340	232.24648	2.33488	0.0840459	0.27577195	2.3375953	20	5 6.8	20.0
365165 2009 DH ₁₂₉	17.9	X	0.60206	317.88234	229.07333	0.68331	0.1248614	0.26633158	2.3925128	20	2 23.7	20.1
365166 2009 DG ₁₃₁	17.8	X	289.34387	72.74909	191.46379	2.26463	0.1681382	0.26191581	2.4193289	20	2 17.0	21.1
365167 2009 DR ₁₃₆	17.7	X	94.20091	55.28518	82.79182	6.31189	0.1391312	0.28084267	2.3093725	20	5 28.7	20.6
365168 2009 DO ₁₃₈	17.7	X	313.77118	30.28116	214.64695	2.10391	0.1503125	0.26500330	2.4005008	20	2 24.8	20.5
365169 2009 DP ₁₃₈	17.1	X	170.01840	332.68397	89.46713	5.17452	0.0595566	0.28027678	2.3124799	20	5 9.4	20.2
365170 2009 DQ ₁₃₉	17.7	X	86.19706	90.61848	351.75070	1.91069	0.1619704	0.26504246	2.4002644	20	3 3.5	20.2
365171 2009 DJ ₁₄₀	16.9	X	154.99746	35.17415	29.94552	6.82334	0.0738339	0.27818273	2.3240704	20	4 24.2	19.9
365172 2009 DK ₁₄₁	18.0	X	283.50740	249.61807	86.50883	1.29441	0.1221204	0.27979819	2.3151162	20	5 25.1	20.6
365173 2009 EX ₁₁	18.0	X	32.32144	79.60088	89.32798	3.51249	0.1255656	0.27179309	2.3603538	20	3 31.4	20.2
365174 2009 ES ₂₁	17.3	X	343.33856	353.94913	173.97129	6.40809	0.1424051	0.26116006	2.4239940	20	—	—
365175 2009 EE ₂₂	17.7	X	58.10461	61.48245	72.68248	3.27011	0.1657077	0.27129525	2.3632405	20	4 1.9	19.8
365176 2009 ET ₃₀	17.4	X	348.60507	24.24835	192.59034	2.21036	0.1254357	0.26672776	2.3901431	20	3 17.0	19.7
365177 2009 FR ₁	17.8	X	355.19560	159.77328	355.72271	5.47730	0.1357631	0.25862481	2.4398095	20	1 1.3	20.6
365178 2009 FL ₃	17.9	X	45.74993	317.19681	193.26086	2.22695	0.1228202	0.27051357	2.3677909	20	3 26.5	20.1
365179 2009 FP ₄	16.7	X	288.50581	73.49974	35.15492	28.17442	0.3867042	0.23363098	2.6108531	20	10 26.6	18.9
365180 2009 FT ₅	18.3	X	311.36135	254.97053	340.84656	1.43350	0.1299778	0.26600821	2.3944514	20	2 13.3	21.0
365181 2009 FC ₉	17.6	X	350.87700	29.24841	197.86128	4.34427	0.1536369	0.27259318	2.3557330	20	4 2.5	19.4
365182 2009 FY ₁₉	16.9	X	295.09281	164.15364	97.13663	5.01391	0.1031199	0.26669444	2.3903422	20	3 3.1	19.9
365183 2009 FM ₂₃	17.5	X	320.82121	216.83628	16.25927	1.60882	0.1445537	0.26367830	2.4085359	20	2 21.5	20.1
365184 2009 FV ₂₄	16.9	X	52.53669	90.90148	37.95570	10.61630	0.1717897	0.26868727	2.3785082	20	3 18.7	19.1
365185 2009 FT ₂₅	17.4	X	355.67960	120.84902	98.43625	3.91039	0.0709827	0.26921985	2.3753704	20	4 9.7	20.0
365186 2009 FV ₂₅	17.2	X	344.24491	189.67613	75.90673	8.65755	0.2150566	0.28034918	2.3120818	20	5 16.3	18.6
365187 2009 FA ₂₇	17.8	X	85.99790	272.67137	309.95208	3.45028	0.0684910	0.29600433	2.2298245	20	9 6.0	20.6
365188 2009 FS ₂₇	17.7	X	33.27608	98.46358	150.67999	6.98636	0.1095085	0.28629523	2.2799569	20	8 3.1	20.0
365189 2009 FM ₂₉	17.7	X	22.24288	79.82142	89.93477	3.80167	0.1061650	0.26756413	2.3851596	20	3 13.2	20.0
365190 2009 FC ₃₀	17.7	X	331.17218	37.06147	191.21347	2.43645	0.1411567	0.26576235	2.3959279	20	2 29.9	20.4
365191 2009 FY ₃₂	18.0	X	9.88073	57.43404	159.49632	5.75818	0.1450894	0.27525363	2.3405289	20	4 30.7	20.0
365192 2009 FL ₃₄	17.1	X	339.85184	84.60943	156.33601	7.15004	0.0817953	0.27156307	2.3616865	20	4 14.1	19.6
365193 2009 FH ₃₅	17.5	X	354.62575	136.50051	73.26633	3.47615	0.1233706	0.26975892	2.3722048	20	3 20.0	19.8
365194 2009 FY ₃₈	17.3	X	0.841									

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>
365201 2009 <i>FR</i> ₇₄	16.9	X	23.55033	103.01186	88.69801	7.23227	0.0457113	0.27223468	2.3578006	20	4 16.9	19.6
365202 2009 <i>FB</i> ₇₆	17.2	X	53.90258	5.69722	145.99540	6.94782	0.0611465	0.26759519	2.3849751	20	4 7.7	19.9
365203 2009 <i>GJ</i> ₂	17.3	X	89.97620	134.09902	352.17502	6.32420	0.0676925	0.27490911	2.3424839	20	4 21.3	20.1
365204 2009 <i>GK</i> ₆	16.5	X	202.78356	217.57549	114.90444	9.60599	0.0743115	0.25590697	2.4570537	20	2 21.3	20.0
365205 2009 <i>HZ</i> ₁	17.2	X	277.18675	147.50067	126.16654	2.72143	0.0657391	0.26231508	2.4168732	20	2 29.9	20.4
365206 2009 <i>HP</i> ₃	17.4	X	346.22242	66.41007	129.14959	6.92028	0.0707099	0.26219916	2.4175855	20	2 19.9	20.2
365207 2009 <i>HL</i> ₄	17.4	X	358.82641	166.46589	136.47182	5.56732	0.1867794	0.28584426	2.2823543	20	9 4.5	19.0
365208 2009 <i>HO</i> ₄	17.9	X	20.53700	347.68747	177.67575	8.93218	0.1496361	0.26482012	2.4016077	20	2 28.5	20.1
365209 2009 <i>HX</i> ₈	16.9	X	187.21844	177.58137	118.56926	6.08292	0.0918336	0.24107970	2.5567933	20	—	—
365210 2009 <i>HM</i> ₁₂	17.8	X	283.90069	184.08104	88.19665	2.54347	0.1569302	0.25767490	2.4458021	20	2 24.9	21.1
365211 2009 <i>HQ</i> ₁₄	17.1	X	297.90843	249.79330	81.45739	6.99848	0.2563708	0.27863683	2.3215446	20	5 17.6	19.7
365212 2009 <i>HX</i> ₁₅	16.8	X	183.43267	276.84455	77.50730	7.95152	0.1312738	0.26022084	2.4298232	20	3 2.5	20.6
365213 2009 <i>HL</i> ₁₉	17.0	X	260.19030	94.05159	124.11980	4.81379	0.1891934	0.24086743	2.5582953	20	—	—
365214 2009 <i>HJ</i> ₂₀	17.4	X	330.94362	86.81420	101.03765	3.52644	0.1305630	0.25414666	2.4683862	20	1 9.2	20.4
365215 2009 <i>HZ</i> ₃₈	16.1	X	54.15437	82.45250	183.15305	14.60546	0.1274038	0.20455767	2.8527182	20	9 19.5	19.8
365216 2009 <i>HM</i> ₄₁	17.3	X	334.68679	199.69183	77.92771	5.06036	0.1861880	0.27147313	2.3622081	20	5 16.8	19.2
365217 2009 <i>HP</i> ₄₈	17.1	X	212.12453	288.40819	76.72622	8.72722	0.1501807	0.26203609	2.4185884	20	4 12.7	20.9
365218 2009 <i>HC</i> ₄₉	16.8	X	267.98787	359.81967	149.82765	13.47353	0.1020609	0.22736206	2.6586269	20	12 28.6	20.2
365219 2009 <i>HN</i> ₄₉	16.5	X	5.85505	246.65245	214.58232	21.28538	0.1093432	0.23955820	2.5676078	20	—	—
365220 2009 <i>HX</i> ₈₀	17.6	X	17.10381	86.93541	93.60529	2.19239	0.0672845	0.26545544	2.3977743	20	3 19.4	20.2
365221 2009 <i>HS</i> ₈₁	17.3	X	242.77423	196.06794	51.09297	0.96170	0.0910045	0.24029483	2.5623577	20	—	—
365222 2009 <i>HG</i> ₈₄	16.9	X	146.07790	124.64493	197.21369	11.77121	0.1948114	0.23077524	2.6323477	20	—	—
365223 2009 <i>HW</i> ₈₄	16.6	X	353.74406	90.55158	93.71235	15.27710	0.0264040	0.25522829	2.4614075	20	2 25.9	19.9
365224 2009 <i>HC</i> ₈₈	16.1	X	201.83852	170.02538	166.15214	23.80407	0.4730061	0.23271423	2.6177053	20	2 24.6	21.6
365225 2009 <i>HC</i> ₉₀	17.7	X	327.01139	94.89935	124.49311	1.81698	0.1400517	0.26009219	2.4306244	20	2 12.8	20.3
365226 2009 <i>HO</i> ₉₁	17.6	X	5.74658	82.20368	177.93482	3.46563	0.1653501	0.27509701	2.3414172	20	7 2.1	19.3
365227 2009 <i>HJ</i> ₉₂	16.9	X	156.12632	105.55885	127.76317	3.52992	0.2276033	0.23263473	2.6183016	20	1 4.9	21.1
365228 2009 <i>HH</i> ₉₆	16.8	X	300.73771	39.47628	209.13779	14.16080	0.0742674	0.25886572	2.4382956	20	2 20.8	20.3
365229 2009 <i>HG</i> ₉₉	16.8	X	40.20099	40.14744	215.75112	8.48021	0.2086599	0.19252332	2.9703924	20	8 26.1	20.7
365230 2009 <i>HO</i> ₁₀₃	16.0	X	257.19051	191.44044	31.64104	16.77688	0.1525728	0.24074853	2.5591375	20	—	—
365231 2009 <i>HK</i> ₁₀₄	17.0	X	179.61801	207.53824	106.95475	5.98767	0.2521159	0.23620498	2.5918509	20	1 15.1	21.4
365232 2009 <i>HV</i> ₁₀₄	17.0	X	346.96118	350.56364	165.54097	10.40204	0.0527046	0.24577165	2.5241483	20	1 2.3	20.3
365233 2009 <i>HY</i> ₁₀₄	17.1	X	306.87363	106.07823	51.51095	5.29821	0.1569016	0.24019546	2.5630644	20	—	—
365234 2009 <i>HO</i> ₁₀₆	16.7	X	234.37583	322.88300	269.74747	3.43495	0.2265028	0.23679826	2.5875200	20	—	—
365235 2009 <i>JZ</i> ₆	17.3	X	339.61696	152.21171	121.43419	6.81724	0.2001952	0.26980173	2.3719538	20	5 21.6	19.1
365236 2009 <i>JL</i> ₁₄	16.6	X	123.98674	298.31566	61.99047	6.58747	0.2007525	0.23251245	2.6192196	20	1 16.8	20.3
365237 2009 <i>JW</i> ₁₆	17.2	X	268.50722	2.87271	225.59124	11.83508	0.1305630	0.24417429	2.5351447	20	—	—
365238 2009 <i>JR</i> ₁₇	17.3	X	321.93582	294.61421	216.13132	11.25840	0.2052876	0.24143528	2.5542823	20	—	—
365239 2009 <i>KN</i> ₈	17.0	X	151.82954	171.30600	170.79022	12.61733	0.2170587	0.23506493	2.6002243	20	1 20.9	21.4
365240 2009 <i>KK</i> ₂₂	16.0	X	185.24756	54.75572	245.64301	30.86036	0.2431293	0.23268733	2.6179071	20	—	—
365241 2009 <i>LV</i> ₄	16.6	X	74.66950	277.49912	69.89914	6.68807	0.0146189	0.22358047	2.6885212	20	—	—
365242 2009 <i>MR</i> ₄	16.9	X	212.71441	148.27330	141.81014	13.60541	0.2119992	0.23292415	2.6161323	20	1 10.7	21.6
365243 2009 <i>MV</i> ₇	16.5	X	137.87210	211.72245	123.48513	14.06304	0.1742373	0.22235075	2.6984248	20	—	—
365244 2009 <i>MB</i> ₈	17.0	X	157.05894	131.55327	189.74328	13.02444	0.2779422	0.22306572	2.6926557	20	1 7.2	21.8
365245 2009 <i>MW</i> ₉	17.4	X	258.17753	221.51222	99.25325	0.44540	0.0876842	0.24757029	2.5119078	20	4 6.7	20.8
365246 2009 <i>NE</i>	15.9	X	154.48747	198.88399	230.42017	35.03086	0.8645754	0.22527588	2.6750152	20	5 25.4	22.6
365247 2009 <i>NU</i>	17.0	X	147.73529	114.27135	183.58367	9.44081	0.2900998	0.21737403	2.7394556	20	—	—
365248 2009 <i>OL</i>	16.1	X	165.36491	350.16130	304.05118	14.05284	0.1707858	0.22147967	2.7054954	20	—	—
365249 2009 <i>OQ</i> ₆	16.4	X	130.21163	177.51929	152.42497	9.63572	0.2135451	0.21610272	2.7501891	20	—	—
365250 2009 <i>OF</i> ₇	16.6	X	132.67574	138.79513	161.65770	8.06790	0.2155868	0.21246381	2.7815022	20	—	—
365251 2009 <i>OU</i> ₉	15.8	X	345.76091	180.35554	145.36377	7.42670	0.2200575	0.17854023	3.1235274	20	8 18.4	18.9
365252 2009 <i>OF</i> ₁₆	16.9	X	88.90093	203.98876	161.24967	6.18356	0.1305084	0.21321061	2.7750033	20	—	—
365253 2009 <i>OH</i> ₁₆	16.8	X	144.06964	152.32889	151.46225	9.79709	0.1851547	0.21534192	2.7566029	20	—	—
365254 2009 <i>OM</i> ₁₇	17.4	X	195.80738	59.38805	190.71866	3.38218	0.1448671	0.21719278	2.7409795	20	—	—
365255 2009 <i>OX</i> ₂₁	16.6	X	151.83881	102.79696	196.28339	14.88859	0.1831478	0.21661632	2.7458403	20	—	—
365256 2009 <i>OT</i> ₂₅	16.3	X	50.16738	79.49533	226.51861	7.70028	0.1493919	0.18864151	3.0110031	20	11 5.4	20.5
365257 2009 <i>PT</i>	15.7	X	309.18449	346.66905	5.89091	13.98333	0.1493489	0.17066330	3.2189134	20	7 24.3	19.9
365258 2009 <i>PH</i> ₃	16.8	X	176.95191	115.22783	183.78770	12.42636	0.2681782	0.22394717	2.6855856	20	—	—
365259 2009 <i>PB</i> ₈	15.6	X	72.92628	278.50252	303.59181	9.15377	0.0489513	0.17463011	3.1699808	20	8 3.6	20.0
365260 2009 <i>PK</i> ₈	15.7	X	345.41387	324.27900	349.00112	6.34515	0.1947020	0.17443195	3.1723811	20	7 31.9	19.0
365261 2009 <i>PO</i> ₉	15.7	X	358.23287	186.60955	174.11169	27.75961	0.1118690	0.18395098	3.0619726	20	10 29.3	19.9
365262 2009 <i>PN</i> ₂₁	15.5	X	307.45073	238.81558	128.31452	12.49083	0.1819739	0.17146889	3.2088234	20	7 31.7	19.2
365263 2009 <i>QY</i>	16.5	X	137.53772	161.97390	156.92546	14.83622	0.2261580	0.21466359	2.7624672	20	—	—
365264 2009 <i>QQ</i> ₄	16.0	X	81.60171	194.80917	150.21807	16.12833	0.1566138	0.20621791	2.8373863	20	—	—
365265 2009 <i>QW</i> ₄	16.7	X	87.15794	36.92265	294.01787	3.49748	0.1186425	0.20531338	2.8457137	20	—	—
365266 2009 <i>QX</i> ₁₀	16.0	X	322.87485	248.07575	120.44457	2.68992	0.1907305	0.17655816	3.1468607	20	8 31.8	19.3
365267 2009 <i>QG</i> ₁₁	16.1	X	75.22674	102.90507	250.16961	11.68285	0.2102562	0.20594841	2.8398610	20	—	—
365268 2009 <i>QE</i> ₁₃	16.0	X	320.94023	217.74105	170.01226	8.27696	0.1563464	0.18105486	3.0945388	20	9 27.4	19.6
365269 2009 <i>QG</i> ₁₃	16.5	X	161.84353	109.90806	166.81534	20.17257	0.2235441	0.21241188	2.7819556	20	—	—
365270 2009 <i>QJ</i> ₂₂	16.2	X	330.72873	359.09396	157.74564	8.08818	0.2515380	0.17741189	3.1367572	20	8 28.6	19.2
365271 2009 <i>QH</i> ₂₇	16.1	X	335.35346	349.46855	0.05275	11.24251	0.1033025	0.17650207	3.1475273	20	9 4.4	20.0
365272 2009 <i>QD</i> ₂₈	15.9	X	96.30940	144.81788	172.44624	15.25798	0.1468773	0.20410596	2.8569256	20	—	—
365273 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>
365281 2009 QM ₅₅	16.2	X	66.19339	159.39554	185.28312	11.89004	0.0393611	0.19867591	2.9087467	20	12 28.0	20.5
365282 2009 QQ ₅₅	16.1	X	110.16315	79.43642	182.75328	10.53216	0.0678520	0.19084383	2.9877939	20	11 12.2	20.6
365283 2009 QQ ₅₆	16.2	X	278.44486	252.52822	178.02764	10.71029	0.0992896	0.18050063	3.1008701	20	9 21.9	20.3
365284 2009 QM ₆₂	16.2	X	53.06262	260.57882	50.23649	4.21064	0.1862998	0.18966267	3.0001857	20	11 19.8	20.4
365285 2009 RU ₆	15.8	X	313.01494	200.73756	181.50948	10.78672	0.2151101	0.17431174	3.1738395	20	8 25.2	19.5
365286 2009 RB ₁₀	15.9	X	293.11637	204.36594	190.78159	3.58496	0.1011280	0.17280047	3.1923177	20	8 25.7	20.1
365287 2009 RS ₁₆	15.8	X	355.10629	194.52334	178.64166	8.53788	0.2016743	0.18339715	3.0681341	20	11 15.9	19.2
365288 2009 RT ₁₇	15.9	X	1.03352	198.75298	180.80480	10.36622	0.1053568	0.18597326	3.0397349	20	11 24.7	19.9
365289 2009 RD ₁₈	16.1	X	9.63302	248.94428	94.75060	1.83984	0.1573218	0.18100909	3.0950603	20	10 26.7	19.8
365290 2009 RK ₂₂	16.4	X	172.88433	318.06431	297.50012	6.59311	0.1763190	0.21206659	2.7849745	20	—	—
365291 2009 RO ₂₆	15.7	X	319.42348	188.30146	199.85871	18.17249	0.1638060	0.17583473	3.1554861	20	9 20.0	19.4
365292 2009 RS ₂₇	15.4	X	350.52774	104.74025	248.93690	9.22503	0.1673167	0.17938674	3.1136932	20	10 1.7	19.0
365293 2009 RD ₃₃	16.3	X	24.38616	316.03945	17.27179	4.88305	0.1495142	0.18054866	3.1003202	20	11 2.4	20.2
365294 2009 RK ₃₈	15.8	X	336.70594	177.32082	179.99256	18.84345	0.1927109	0.17625782	3.1504345	20	9 11.4	19.1
365295 2009 RJ ₄₆	15.8	X	56.71255	121.96286	199.44301	8.51244	0.1221498	0.18734293	3.0249010	20	11 28.8	20.1
365296 2009 RC ₄₈	15.6	X	119.00176	44.32079	199.24854	11.60276	0.0784285	0.18277950	3.0750421	20	10 28.7	20.2
365297 2009 RM ₄₈	16.3	X	37.87512	285.43917	15.64795	0.34631	0.1678513	0.17948379	3.1125707	20	10 15.3	20.4
365298 2009 RF ₅₀	16.4	X	69.03476	78.98613	199.12854	6.32257	0.1398266	0.18014227	3.1049811	20	10 22.2	20.8
365299 2009 RN ₅₁	15.8	X	110.95573	102.38392	196.67052	12.32827	0.1379687	0.19518163	2.9433603	20	12 28.4	20.7
365300 2009 RK ₅₂	16.4	X	77.41987	107.80259	191.05146	10.80351	0.0939153	0.18591927	3.0403233	20	11 21.8	20.9
365301 2009 RC ₆₃	14.1	X	270.22547	243.03169	186.00679	10.56003	0.0985504	0.08053043	5.3108337	20	8 26.4	21.2
365302 2009 RH ₆₃	15.8	X	343.47172	106.24603	251.86932	8.69067	0.1634493	0.18000682	3.1065385	20	9 23.8	19.4
365303 2009 RT ₆₈	16.4	X	61.44618	124.76512	191.77360	10.29696	0.0817311	0.18557591	3.0440725	20	11 23.2	20.8
365304 2009 RE ₆₉	15.6	X	317.11063	169.72655	190.51884	15.41258	0.2146433	0.17291540	3.1909030	20	7 31.7	19.5
365305 2009 RF ₇₁	16.5	X	30.53373	130.49719	15.88242	4.84702	0.1272741	0.18140350	3.0905725	20	10 30.5	20.5
365306 2009 RC ₇₄	16.0	X	69.35709	63.06750	195.33352	14.09598	0.1532173	0.17496654	3.1659160	20	9 28.3	20.5
365307 2009 SS ₈	16.8	X	134.01153	94.39692	193.96626	14.15958	0.1479756	0.20595453	2.8398047	20	—	—
365308 2009 SR ₁₂	15.8	X	3.06968	136.97696	181.78705	15.08856	0.0535104	0.17571655	3.1569008	20	9 1.1	20.0
365309 2009 SR ₂₀	15.8	X	317.57713	149.84112	208.73609	22.86939	0.2419862	0.17185169	3.2040566	20	7 23.4	19.9
365310 2009 SO ₂₅	15.8	X	349.39635	143.57535	196.40648	11.60639	0.0770018	0.17525567	3.1624330	20	9 8.9	19.9
365311 2009 SX ₂₅	17.0	X	69.19051	24.17896	257.92827	1.32906	0.2034943	0.18555770	3.0442716	20	11 4.2	21.6
365312 2009 SW ₂₉	16.1	X	93.28918	244.71436	31.84504	4.24366	0.2008378	0.18861343	3.0113020	20	11 20.2	20.9
365313 2009 SC ₃₅	15.6	X	280.11846	143.16631	213.69401	9.40074	0.0657205	0.15785232	3.3907991	20	6 24.2	20.4
365314 2009 SP ₅₅	15.5	X	2.74929	143.20507	218.05992	15.69711	0.1137156	0.18204370	3.0833225	20	11 2.2	19.3
365315 2009 SM ₆₉	16.3	X	352.57074	165.88532	179.87332	10.78533	0.1028365	0.17425503	3.1745281	20	9 24.7	20.2
365316 2009 SC ₇₀	16.3	X	52.94005	78.27040	192.68530	11.39292	0.0388222	0.17546452	3.1599231	20	9 6.1	20.8
365317 2009 SE ₇₃	16.4	X	325.54522	135.99747	204.75493	3.61478	0.0671642	0.17045244	3.2215675	20	8 5.7	20.7
365318 2009 SC ₇₉	16.3	X	81.21188	61.28321	235.41231	5.90077	0.1176589	0.18971910	2.9995908	20	11 25.4	20.8
365319 2009 SW ₉₉	16.2	X	14.62569	88.68845	252.33233	5.13341	0.2517442	0.18452364	3.0556343	20	11 13.6	19.7
365320 2009 SN ₁₁₀	16.3	X	118.22612	250.02554	93.01736	11.65809	0.2567776	0.21243161	2.7817833	20	—	—
365321 2009 SQ ₁₁₃	16.2	X	297.00755	203.39645	210.75654	8.49589	0.0399892	0.17974127	3.1095975	20	10 2.4	20.4
365322 2009 SF ₁₂₀	16.4	X	34.91615	91.97602	212.35061	4.86091	0.1435553	0.18010018	3.1054648	20	10 11.3	20.4
365323 2009 SB ₁₂₂	16.2	X	6.54390	137.00518	197.91774	11.98293	0.0692310	0.17773788	3.1329206	20	9 29.3	20.2
365324 2009 SG ₁₂₅	15.9	X	336.17286	137.52349	220.57853	8.51869	0.0857174	0.17430349	3.1739396	20	9 11.3	20.0
365325 2009 SD ₁₃₁	16.7	X	52.22434	136.42216	176.17744	5.85710	0.2114061	0.18585119	3.0410658	20	11 24.9	21.1
365326 2009 SY ₁₃₇	16.1	X	25.75797	295.16466	16.10231	4.59159	0.1547926	0.17694167	3.1423120	20	10 9.6	19.9
365327 2009 SM ₁₄₁	15.5	X	201.27015	223.59780	205.52951	7.83281	0.0415366	0.15542900	3.4259526	20	6 23.1	20.6
365328 2009 SL ₁₄₆	16.3	X	28.53392	276.77846	41.58183	5.87982	0.1287792	0.17829238	3.1264215	20	10 19.0	20.2
365329 2009 SP ₁₆₁	16.3	X	69.61408	97.34845	192.67398	2.89539	0.2027999	0.19218505	2.9738769	20	11 15.8	20.9
365330 2009 SX ₁₆₄	15.7	X	78.92897	120.25325	198.54125	11.53764	0.0948539	0.18898835	3.0073180	20	12 16.4	20.4
365331 2009 ST ₁₈₀	16.4	X	21.85106	98.60111	238.88038	8.65342	0.2098957	0.18672781	3.0315406	20	11 14.9	20.2
365332 2009 SA ₁₈₁	15.9	X	123.96765	201.35975	353.07713	8.53578	0.0440155	0.17387950	3.1790971	20	9 1.0	20.4
365333 2009 SY ₁₈₈	15.6	X	25.34775	138.92738	202.22752	14.91937	0.0985110	0.18517307	3.0448410	20	11 9.9	19.6
365334 2009 SJ ₂₀₁	17.1	X	57.29312	250.36621	183.86433	4.82246	0.1426126	0.21061900	2.7977200	20	1 11.3	20.4
365335 2009 SO ₂₀₉	16.2	X	347.47618	159.19354	199.56247	9.38505	0.0876719	0.17816275	3.1279378	20	10 2.9	20.1
365336 2009 SB ₂₁₆	16.3	X	335.30443	171.26168	181.31947	2.50918	0.0915327	0.17462440	3.1700499	20	9 5.4	20.3
365337 2009 SM ₂₁₇	16.3	X	61.18075	101.36893	202.48631	8.43839	0.0601603	0.18518625	3.0483411	20	11 3.9	20.6
365338 2009 SP ₂₁₇	15.8	X	1.26307	343.99242	354.03126	5.02250	0.0544898	0.17756596	3.1349425	20	9 25.1	20.0
365339 2009 SQ ₂₂₄	15.6	X	50.57581	78.40182	228.45536	9.62399	0.1098968	0.18547364	3.0451914	20	10 31.3	19.7
365340 2009 SB ₂₂₇	16.1	X	127.67273	285.11172	33.57437	9.29696	0.2198194	0.20998388	2.8033592	20	—	—
365341 2009 SR ₂₄₀	16.8	X	91.67206	226.61435	149.80222	16.52300	0.3287913	0.20976749	2.8052868	20	1 18.5	20.6
365342 2009 SH ₂₄₃	16.8	X	218.28490	47.06752	274.84061	10.75829	0.1874513	0.23177898	2.6247424	20	2 17.6	21.4
365343 2009 SA ₂₅₅	16.3	X	195.05571	221.38136	102.68899	14.40555	0.3619798	0.23130097	2.6283574	20	2 10.3	21.5
365344 2009 SM ₂₅₅	15.9	X	224.08146	162.85852	143.44679	34.11312	0.2072429	0.23365214	2.6106955	20	2 7.7	20.4
365345 2009 SS ₂₆₃	16.0	X	347.27635	157.90673	178.15448	16.31541	0.0753163	0.17320608	3.1873320	20	8 31.9	20.1
365346 2009 SN ₂₇₀	16.3	X	78.59758	138.60915	151.23996	6.65525	0.1347646	0.18806411	3.0171629	20	11 17.8	20.9
365347 2009 SQ ₂₇₄	16.5	X	43.08519	279.52645	57.25050	2.12157	0.1621051	0.18915722	3.0055279	20	12 6.2	20.7
365348 2009 SR ₂₇₄	16.2	X	9.41918	175.01029	182.75524	11.85501	0.0297238	0.18367004	3.0650943	20	11 1.7	20.4
365349 2009 SW ₂₇₆	16.3	X	356.82566	171.58838	166.58473	6.18688	0.0919357	0.17681201	3.1438481	20	9 21.9	20.1
365350 2009 SK ₂₇₉	15.8	X	55.28510	209.58316	53.42364	5.39208	0.1391361	0.17372675	3.1809604	20	9 18.2	20.2
365351 2009 SL ₂₈₂	16.1	X	78.83867	93.62208	174.59486	11.62433	0.0523820	0.17874221	3.1211739	20	10 11.1	20.5
365352 2009 ST ₂₈₂	15.7	X	87.40882	98.83391	173.85506	12.76143	0.0217703	0.18124265	3.0924009	20	10 24.1	20.2
365353 2009 SX ₃₁₁	17.0	X	121.91445	350.55307	4.04215	5.						

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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>
365361 2009 SD ₃₅₂	16.3	X	127.47763	226.60216	116.46913	9.80687	0.3224449	0.21301185	2.7767293	20	1 15.0	20.6
365362 2009 SD ₃₆₀	16.3	X	10.29673	120.96292	206.09188	9.25530	0.0978783	0.17685799	3.1433031	20	9 26.5	20.4
365363 2009 TK ₃	16.1	X	354.30782	110.99449	225.32723	13.70532	0.2928399	0.17558079	3.1585278	20	9 23.4	19.1
365364 2009 TM ₁₃	16.1	X	78.40025	75.22227	211.54065	9.66891	0.0687060	0.18307678	3.0717123	20	11 3.8	20.5
365365 2009 TL ₂₁	16.1	X	82.63482	253.56279	192.69909	13.42413	0.1523871	0.21757417	2.7377754	20	3 5.5	19.6
365366 2009 TU ₂₃	16.5	X	29.34549	254.25829	49.00808	1.73027	0.1702385	0.17729127	3.1381798	20	10 6.3	20.5
365367 2009 TA ₃₀	15.6	X	330.93729	281.20768	99.42463	15.48074	0.1986466	0.17537090	3.1610475	20	10 11.9	19.3
365368 2009 TE ₃₁	15.7	X	15.87029	91.10877	235.46906	13.55993	0.0807581	0.17666775	3.1455592	20	9 29.6	20.0
365369 2009 TF ₃₄	15.2	X	322.47085	137.26597	229.59611	16.34693	0.1182452	0.17497372	3.1658293	20	8 26.4	19.5
365370 2009 TD ₃₆	16.7	X	211.08315	108.19617	212.43290	10.60187	0.3137296	0.22880853	2.6474102	20	2 10.4	21.9
365371 2009 TU ₃₆	15.6	X	42.46802	250.28457	104.14482	12.55272	0.1739456	0.19101820	2.9859754	20	12 28.9	19.7
365372 2009 TR ₃₇	15.9	X	7.07910	129.32791	229.47671	8.49127	0.1042999	0.18279004	3.0749238	20	11 4.5	19.8
365373 2009 TE ₄₂	15.2	X	21.96444	268.68506	59.64168	16.27666	0.1368176	0.17831795	3.1261226	20	10 27.2	19.3
365374 2009 TJ ₄₃	15.9	X	46.75830	237.58078	47.25704	9.63767	0.0754259	0.17431863	3.1737559	20	9 26.9	20.3
365375 2009 UZ ₃	15.2	X	285.46660	179.48056	244.48810	15.78489	0.0387910	0.18172292	3.0869499	20	9 25.1	19.8
365376 2009 UZ ₄₃	15.8	X	341.38290	168.17293	210.50714	16.87299	0.1933596	0.17870007	3.1216646	20	10 22.8	19.0
365377 2009 UM ₄₇	15.7	X	349.90361	108.78681	229.50254	21.20777	0.1329855	0.16947208	3.2339797	20	9 1.9	20.0
365378 2009 UZ ₉₅	15.6	X	17.87129	104.68660	221.30833	20.87582	0.1883304	0.17761774	3.1343331	20	10 18.3	19.4
365379 2009 UG ₁₃₀	15.8	X	330.61120	278.42860	89.31192	9.99400	0.0796023	0.17500626	3.1654369	20	9 24.4	20.0
365380 2009 UX ₁₃₂	15.7	X	19.60430	103.79310	248.56416	6.26372	0.1521563	0.18326129	3.0696502	20	11 21.1	19.5
365381 2009 UD ₁₃₄	15.0	X	356.16412	88.47198	242.74897	15.36475	0.1102208	0.17015923	3.2252673	20	9 3.3	19.4
365382 2009 UT ₁₃₄	16.4	X	50.60588	216.91259	125.99841	1.68013	0.2850306	0.18927225	3.0043101	20	—	—
365383 2009 UY ₁₄₁	16.2	X	112.54564	216.92176	104.84012	9.53317	0.3179983	0.20197238	2.8770102	20	—	—
365384 2009 VL ₂₃	16.2	X	1.62447	131.20714	230.86864	15.70616	0.2621288	0.17750558	3.1356533	20	11 17.7	19.3
365385 2009 VL ₄₂	15.7	X	24.81707	238.64563	97.13849	11.05173	0.1071127	0.17945270	3.1129302	20	11 5.4	19.9
365386 2009 VC ₅₁	15.3	X	27.09939	267.58151	66.84969	17.57806	0.1512571	0.17741401	3.1367322	20	11 11.4	19.4
365387 2009 VM ₆₁	16.3	X	111.40704	99.83867	247.60173	6.89749	0.0679972	0.19909100	2.9047024	20	—	—
365388 2009 VY ₆₃	16.2	X	47.96257	254.12124	64.49273	17.02436	0.2665412	0.17853436	3.1235958	20	12 1.4	20.7
365389 2009 VX ₇₉	15.2	X	256.45379	227.78482	285.48848	13.38762	0.1197237	0.18220565	3.0814952	20	12 1.5	19.5
365390 2009 VC ₈₅	15.9	X	164.95987	140.26331	71.20042	10.05127	0.0261927	0.17555107	3.1588843	20	11 8.0	20.5
365391 2009 VM ₁₀₄	15.1	X	348.62111	296.64574	62.04196	17.97051	0.2442713	0.17690999	3.1426871	20	10 21.2	18.4
365392 2009 VH ₁₀₅	15.2	X	12.47597	245.30283	88.43241	27.56714	0.1869628	0.17840839	3.1250660	20	11 4.2	19.5
365393 2009 VM ₁₀₈	15.4	X	40.81923	86.61035	216.27706	14.32006	0.0671666	0.17493802	3.1662600	20	10 4.2	19.8
365394 2009 WO ₄₄	15.6	X	309.24432	263.49605	71.21613	6.41507	0.0966254	0.15437759	3.4414902	20	7 2.1	20.1
365395 2009 WM ₄₇	15.4	X	181.29825	317.81962	219.60022	26.49017	0.0524031	0.17696767	3.1420042	20	10 11.4	20.2
365396 2009 WH ₄₉	15.6	X	254.87797	33.93781	75.77782	10.34035	0.0540005	0.17453355	3.1711499	20	10 20.1	20.1
365397 2009 WP ₅₄	16.6	X	35.80177	234.76653	81.21560	2.33755	0.1382181	0.17800064	3.1298367	20	10 27.3	20.8
365398 2009 WT ₆₂	15.7	X	11.11635	122.00487	227.14130	17.17198	0.0533283	0.17292839	3.1907431	20	10 20.6	20.0
365399 2009 WV ₆₃	15.6	X	273.14014	34.99493	78.02882	17.37452	0.0865973	0.17642775	3.1484113	20	11 12.4	20.0
365400 2009 WG ₁₁₉	16.4	X	54.87437	281.44650	33.15482	9.04473	0.1763180	0.17946583	3.1127784	20	11 23.2	20.9
365401 2009 WZ ₁₀₉	15.5	X	333.26701	110.44973	223.88951	11.24875	0.0861510	0.15802927	3.3882675	20	8 3.6	20.1
365402 2009 WP ₂₅₃	15.4	X	95.45200	182.29311	88.78742	8.59142	0.0111669	0.17093878	3.2154542	20	10 29.6	20.0
365403 2009 WD ₂₆₁	15.7	X	321.01688	168.80689	230.64695	16.15547	0.1814182	0.17742366	3.1366185	20	10 6.1	19.4
365404 2009 XD ₂₂	15.1	X	8.95042	253.79487	114.26035	27.35248	0.2836868	0.17371686	3.1810811	20	12 15.8	19.1
365405 2009 YC ₁₂	15.1	X	67.88642	16.75918	298.13633	7.76524	0.1107749	0.16898223	3.2402264	20	11 26.5	20.0
365406 2010 AE ₄	17.4	X	359.47860	80.02027	79.96220	20.74647	0.0655888	0.39048249	1.8538233	20	—	—
365407 2010 AX ₇₉	17.4	X	220.10653	107.15104	125.29375	24.35472	0.0725165	0.36378197	1.9434585	20	—	—
365408 2010 AD ₈₈	15.9	X	92.43293	76.57607	172.43542	8.19286	0.0293759	0.17544929	3.1601059	20	9 29.4	20.3
365409 2010 AX ₁₀₀	14.9	X	248.25915	238.61573	104.54884	19.22756	0.0752986	0.14699452	3.5557833	20	5 7.4	20.4
365410 2010 DC ₄₁	16.8	X	210.90349	125.20091	327.79644	7.28620	0.1475135	0.23432689	2.6056813	20	7 31.6	20.7
365411 2010 ET ₁₁₁	17.0	X	30.83879	338.28935	325.60732	2.98437	0.0441415	0.23231953	2.6206694	20	9 29.5	20.2
365412 2010 EA ₁₃₇	16.2	X	264.04742	205.96143	190.67803	9.86315	0.0149699	0.22047213	2.7137318	20	8 3.3	20.0
365413 2010 FA	17.5	X	23.60987	276.93866	148.04043	23.03518	0.1249261	0.36720853	1.9313495	20	—	—
365414 2010 FE ₅	17.8	X	243.65634	10.24318	180.37425	22.39193	0.0608094	0.35584307	1.9722579	20	—	—
365415 2010 FY ₂₁	17.7	X	27.11205	249.04112	174.07841	22.95490	0.0774714	0.36407839	1.9424035	20	—	—
365416 2010 FM ₃₁	17.1	X	59.15121	66.92990	3.27701	23.75777	0.1003436	0.38908131	1.8582714	20	—	—
365417 2010 FM ₈₄	18.2	X	338.91257	266.97263	194.14871	22.56247	0.0916551	0.36037905	1.9556735	20	—	—
365418 2010 FC ₉₂	17.1	X	291.58008	31.94937	146.91815	23.91858	0.0472878	0.36693526	1.9323083	20	—	—
365419 2010 GW ₉₀	15.6	X	187.62172	328.04479	283.30627	11.09049	0.0587154	0.17663785	3.1459141	20	—	—
365420 2010 HQ ₃₅	17.8	X	314.05532	159.59293	129.81294	7.09740	0.2037235	0.28387612	2.2928913	20	4 23.1	20.2
365421 2010 JP ₁₇	16.3	X	254.89886	116.69973	243.65752	24.84556	0.1792039	0.27964459	2.3159638	20	5 12.9	19.6
365422 2010 JX ₁₀₈	15.7	X	221.05126	72.59529	309.32527	12.33357	0.1921685	0.17438504	3.1729501	20	5 3.9	21.1
365423 2010 JZ ₁₃₁	16.6	X	328.91792	335.63318	278.16227	11.22635	0.0675384	0.27578325	2.3375314	20	4 7.4	19.6
365424 2010 KX ₇	21.9	X	169.50592	61.86805	46.47953	21.49218	0.1708861	1.00124542	0.9895605	20	—	—
365425 2010 KP ₅₃	17.4	X	304.95543	77.85356	258.94775	7.82991	0.1780650	0.28682224	2.2771633	20	6 21.2	19.3
365426 2010 KC ₆₁	17.7	X	357.26695	261.43296	62.25898	7.26878	0.3059352	0.29843550	2.2176980	20	11 2.2	19.1
365427 2010 KD ₁₀₉	16.6	X	351.21244	211.90960	182.40847	8.01426	0.2244646	0.20958265	2.8069359	20	12 17.6	19.6
365428 2010 LJ ₉	16.4	X	351.84459	232.80837	354.47895	10.71851	0.2551723	0.27782359	2.3260728	20	3 20.4	18.0
365429 2010 LF ₃₂	15.6	X	2.52285	272.34983	337.89897	10.44489	0.1613160	0.18265303	3.0764613	20	6 4.1	19.2
365430 2010 LK ₄₁	16.6	X	206.68682	64.49695	214.09632	12.17020	0.0771783	0.24434344	2.5339746	20	—	—
365431 2010 LO ₅₁	16.9	X	330.85885	130.94586	164.67685	22.77083	0.1938659	0.28555220	2.2839103	20	6 9.6	19.5
365432 2010 LQ ₅₂	15.9	X	318.05592	42.14589	248.06131	13.44456	0.1839476	0.17971346	3.1099183	20	5 5.0	19.8
365433 2010 LS ₉₀	16.5	X	180.32643	315.80497	263.20258	13.57154	0.0379700	0.21811964	2.7332092	20	12 10.7	20.3
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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>
365441 2010 MF ₃₈	17.3	X	76.80114	180.69868	204.91780	10.13563	0.1367300	0.23031468	2.6358557	20	—	—
365442 2010 MF ₄₈	15.8	X	331.07537	45.08745	272.70542	9.15087	0.1633012	0.18579926	3.0416324	20	7 9.2	19.3
365443 Holiday	17.2	X	296.36961	280.19686	28.04211	5.72465	0.2398507	0.27686349	2.3314472	20	4 13.9	19.9
365444 2010 MK ₆₁	17.8	X	305.68669	104.53840	185.30714	4.66194	0.2309153	0.27559661	2.3385867	20	4 2.7	20.3
365445 2010 MG ₆₂	15.6	X	0.34271	61.48764	192.13771	16.15975	0.1555642	0.17863154	3.1224629	20	6 6.9	19.4
365446 2010 ML ₇₄	16.9	X	256.55447	79.20219	248.10613	9.50199	0.2645806	0.26905426	2.3763449	20	3 20.4	21.0
365447 2010 MY ₁₀₅	17.1	X	274.18429	188.39054	125.95621	4.77532	0.2116783	0.27049792	2.3678822	20	4 1.9	20.4
365448 2010 MP ₁₁₅	15.7	X	339.39420	83.87522	171.25877	17.16847	0.1518208	0.17126141	3.2114146	20	5 4.2	19.8
365449 2010 NJ ₁	20.2	X	220.33020	358.55033	128.25598	11.22368	0.5406584	1.03439609	0.9683034	20	—	—
365450 2010 NA ₄	17.3	X	249.36394	357.83107	322.23742	6.12865	0.1204162	0.27161709	2.3613733	20	3 18.6	20.8
365451 2010 NV ₅	16.0	X	353.17164	295.00888	120.21435	22.78499	0.0339000	0.22638003	2.6663100	20	—	—
365452 2010 NZ ₂₃	17.8	X	254.45063	193.62256	131.97359	3.96147	0.1981791	0.26655758	2.3911603	20	3 28.2	21.4
365453 2010 NK ₂₇	16.7	X	245.09678	27.01013	19.65550	10.36150	0.1252874	0.17659255	3.1464522	20	6 27.6	21.8
365454 2010 NS ₄₁	17.0	X	65.31467	282.12920	74.61644	6.92251	0.1334748	0.21861411	2.7290862	20	—	—
365455 2010 NA ₅₆	17.1	X	231.30594	182.81001	180.81642	11.48790	0.2510727	0.26686993	2.3892941	20	4 20.7	21.2
365456 2010 NX ₆₆	15.3	X	162.45421	241.86734	111.39420	17.87552	0.1340497	0.17681053	3.1438655	20	2 17.1	20.4
365457 2010 NB ₇₅	17.4	X	274.73861	213.42080	120.95035	2.52706	0.1852379	0.27270653	2.3558020	20	5 1.7	20.4
365458 2010 NC ₈₇	16.4	X	340.59209	13.41139	165.10231	9.33904	0.0549276	0.24617349	2.5214006	20	1 21.7	19.7
365459 2010 NS ₈₈	16.2	X	203.38151	231.25183	211.78616	9.44990	0.1913004	0.17363913	3.1820304	20	7 4.2	21.6
365460 2010 NM ₈₉	17.6	X	290.51756	141.50153	141.05542	5.29056	0.1074151	0.26480055	2.4017260	20	3 24.9	20.6
365461 2010 NT ₁₀₆	16.2	X	12.01043	198.34288	208.94515	8.99808	0.2827559	0.21209536	2.7847225	20	—	—
365462 2010 OX ₁₈	16.1	X	245.26173	189.96110	220.86905	19.71588	0.1913033	0.17659274	3.1464498	20	7 1.7	21.3
365463 2010 OU ₂₂	17.5	X	141.24001	46.30700	301.98548	2.61890	0.2947387	0.23841897	2.5757805	20	1 27.2	21.7
365464 2010 OK ₂₃	16.3	X	93.62753	174.60768	192.40197	13.12293	0.1778573	0.22749703	2.6575752	20	—	—
365465 2010 OP ₃₆	17.1	X	135.40863	133.03233	355.20630	8.15982	0.1525774	0.22568457	2.6717848	20	—	—
365466 2010 OU ₃₆	16.7	X	119.49677	324.07950	14.48598	14.31376	0.1433925	0.22815170	2.6524889	20	—	—
365467 2010 OP ₆₈	16.0	X	282.88151	30.79409	21.80330	9.64144	0.0867377	0.18848993	3.0126171	20	9 11.5	20.0
365468 2010 OB ₈₈	15.5	X	150.73206	288.13322	213.99057	20.71082	0.1226482	0.17341093	3.1848213	20	7 24.4	20.9
365469 2010 OM ₉₅	15.7	X	276.88068	38.73879	8.85291	22.05102	0.1163596	0.18421856	3.0590069	20	8 29.3	20.1
365470 2010 PS ₈	17.6	X	292.64861	177.63263	146.03927	4.78999	0.1771826	0.28322196	2.2964206	20	5 12.6	20.2
365471 2010 PX ₉	17.8	X	354.02847	137.05641	180.66703	5.49010	0.2383820	0.29885061	2.2156438	20	9 29.3	18.7
365472 2010 PL ₁₇	16.1	X	28.29974	348.78240	290.12755	23.78041	0.1221910	0.28683328	2.2771048	20	8 27.8	19.2
365473 2010 PF ₂₃	17.5	X	270.95194	238.68830	104.71256	1.92117	0.2425838	0.28098263	2.3086056	20	5 1.1	20.5
365474 2010 PX ₂₃	17.4	X	273.93584	218.64377	149.06277	7.31109	0.2501686	0.28434899	2.2903486	20	6 6.7	20.5
365475 2010 PF ₂₆	13.2	X	298.03206	349.27681	73.08610	13.75634	0.0206768	0.08376440	5.1732453	20	10 8.5	20.1
365476 2010 PT ₂₇	14.7	X	211.80386	227.82819	218.21312	26.36035	0.1036271	0.17447526	3.1718561	20	7 15.4	20.1
365477 2010 PO ₃₀	17.5	X	247.53299	275.24834	33.66604	4.07332	0.2243665	0.25790562	2.4443432	20	2 28.9	21.5
365478 2010 PU ₃₂	15.6	X	137.03589	306.11126	225.70494	26.91327	0.2260852	0.17561921	3.1580672	20	8 17.6	21.5
365479 2010 PX ₃₉	17.0	X	43.79183	132.85330	240.00232	3.38662	0.0694361	0.21138189	2.7909852	20	—	—
365480 2010 PE ₄₁	15.4	X	156.44446	256.67485	230.63168	13.22819	0.1148673	0.16844341	3.2471327	20	7 14.1	20.7
365481 2010 PN ₄₁	17.1	X	121.23785	217.88133	132.05176	8.71151	0.1474109	0.22907339	2.6453692	20	—	—
365482 2010 PQ ₄₂	16.1	X	253.68857	34.41387	34.90529	9.20492	0.0863971	0.18231142	3.0803032	20	8 25.5	20.6
365483 2010 PD ₄₈	16.5	X	82.81745	158.78198	213.53857	13.22845	0.2631327	0.22409472	2.6844066	20	—	—
365484 2010 PM ₆₃	17.2	X	215.73024	39.49559	290.42755	2.76850	0.2195417	0.26171600	2.4205601	20	2 25.6	21.3
365485 2010 PA ₆₄	17.5	X	303.77340	164.10407	167.82532	6.61785	0.1613683	0.28554307	2.2839590	20	6 14.8	19.8
365486 2010 PV ₇₃	16.8	X	173.91907	198.98182	152.57844	15.09569	0.1457567	0.25438737	2.4668289	20	2 15.7	20.6
365487 2010 PG ₇₆	17.6	X	247.90265	193.98414	141.99419	3.13769	0.1887449	0.27138649	2.3627108	20	4 4.2	21.1
365488 2010 PM ₇₆	17.7	X	282.45085	26.80975	326.97477	3.35472	0.2440921	0.28527460	2.2853917	20	5 27.9	20.6
365489 2010 PF ₇₇	17.8	X	304.43098	296.47020	42.32306	5.77733	0.1841240	0.28706250	2.2758925	20	6 22.3	19.9
365490 2010 PX ₇₈	17.4	X	245.61204	346.34477	339.46094	2.14876	0.1930983	0.27030537	2.3690066	20	3 18.2	21.1
365491 2010 PD ₇₉	17.5	X	213.16613	330.90012	18.20283	2.36869	0.1987842	0.26605435	2.3941745	20	3 19.3	21.5
365492 2010 QC	17.5	X	244.36093	14.52618	332.62591	1.57722	0.2458915	0.26789534	2.3831934	20	4 8.9	21.4
365493 2010 QM ₄	17.3	X	327.47434	126.86549	162.67257	5.96264	0.1528763	0.28217612	2.3020913	20	5 26.3	19.4
365494 2010 QO ₆	17.5	X	299.45409	276.48791	16.50638	3.17307	0.1397378	0.27553905	2.3389123	20	4 12.8	20.0
365495 2010 RB ₃	17.3	X	323.56647	305.39727	0.01166	3.64935	0.1942441	0.28617700	2.2805849	20	6 4.5	19.1
365496 2010 RM ₃	18.0	X	295.66886	127.38788	174.04753	3.84903	0.2468763	0.27780569	2.3261727	20	4 2.8	20.7
365497 2010 RE ₉	17.8	X	251.46415	221.68012	102.01794	2.58753	0.1975263	0.26961015	2.3730773	20	3 22.5	21.3
365498 2010 RN ₁₄	17.1	X	242.30784	289.17687	31.29004	3.95382	0.1923059	0.26400182	2.4065678	20	3 10.8	21.0
365499 2010 RK ₁₆	17.6	X	244.32541	57.20932	297.24660	6.78917	0.1385305	0.27481095	2.3430417	20	4 24.9	21.1
365500 2010 RY ₅₄	17.5	X	240.84202	148.37054	203.44505	6.13329	0.1385095	0.26920699	2.3754460	20	4 21.2	20.7
365501 2010 RE ₅₉	17.5	X	234.87261	125.00784	206.77387	7.21498	0.1283116	0.26501284	2.4004432	20	3 18.9	21.2
365502 2010 RP ₆₀	17.9	X	254.02641	110.51800	196.20507	4.73823	0.2101001	0.26315363	2.4117362	20	2 29.5	21.8
365503 2010 RJ ₆₂	17.7	X	261.67373	158.17049	183.82478	6.16693	0.1612866	0.27145316	2.3623239	20	4 29.9	21.0
365504 2010 RF ₆₃	17.5	X	223.32771	175.54631	186.33799	5.72734	0.1329313	0.26523652	2.3990935	20	4 17.1	21.1
365505 2010 RB ₆₈	17.2	X	202.72852	107.74450	257.01822	4.49829	0.1322541	0.26343706	2.4100060	20	3 28.1	21.0
365506 2010 RF ₆₉	17.2	X	69.92426	353.48643	297.77127	5.80107	0.0134342	0.30682462	2.1770876	20	11 14.9	19.9
365507 2010 RW ₇₁	16.5	X	72.18935	359.25802	0.67358	14.34850	0.1000976	0.22286664	2.6942590	20	—	—
365508 2010 RR ₈₂	16.0	X	38.47207	287.92958	122.16356	13.11258	0.1811825	0.22245478	2.6975834	20	—	—
365509 2010 RJ ₈₈	17.4	X	103.32478	251.06673	107.22749	2.63903	0.0806926	0.23355520	2.6114178	20	—	—
365510 2010 RX ₉₇	17.6	X	97.22528	4.06076	226.95337	4.92934	0.0995872	0.29695065	2.2250846	20	10 5.5	20.6
365511 2010 RB ₁₀₂	17.0	X	75.09367	151.10048	203.77177	5.93212	0.0558693	0.22012473	2.7165862	20	—	—
365512 2010 RB ₁₀₆	17.9	X	280.18462	1.30977	254.62022	0.61299	0.1498882	0.25414176	2.4684810	20	1 31.0	21.5
365513 2010 RB ₁₀₇	17.8	X	280.67886	141.32617	191.62158	1.52306	0.2333257	0.27613394	2.3355190	20	4 29.1	20.9
365514 2010 RL ₁₀₇	15.7	X	160.15896	105.40943	15.4172							

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>
365521 2010 RY ₁₂₄	18.1	X	235.37095	211.83523	138.68831	3.03237	0.1769679	0.26745515	2.3858076	20	4 11.9	21.7
365522 2010 RL ₁₂₆	16.5	X	273.30775	18.05373	168.64026	13.76708	0.1041153	0.22900414	2.6459024	20	—	—
365523 2010 RA ₁₂₇	16.5	X	185.54441	79.56566	33.45105	6.83662	0.1198172	0.17885450	3.1198674	20	7 30.9	21.5
365524 2010 RM ₁₂₇	17.2	X	252.14585	176.99583	163.53022	7.07511	0.1213056	0.26851656	2.3795162	20	4 22.7	20.5
365525 2010 RW ₁₃₆	17.9	X	240.66303	231.74567	107.99747	2.33532	0.1781879	0.26532669	2.3985499	20	4 3.2	21.5
365526 2010 RE ₁₄₂	16.6	X	322.69204	283.54601	203.34937	14.73419	0.1023830	0.22369587	2.6875965	20	—	—
365527 2010 RM ₁₄₂	16.6	X	207.77157	299.88203	227.78577	5.98151	0.0508391	0.20495694	2.8490121	20	11 5.1	20.7
365528 2010 RJ ₁₄₃	17.5	X	277.70118	325.23859	305.89983	3.48497	0.1630916	0.26225756	2.4172266	20	2 22.3	20.8
365529 2010 RK ₁₄₄	17.5	X	133.91893	118.69085	212.17340	3.94036	0.1255802	0.23226576	2.6210738	20	—	—
365530 2010 RJ ₁₄₅	16.3	X	247.33765	235.35291	194.39446	9.12436	0.1054110	0.18490511	3.0514302	20	8 8.8	20.9
365531 2010 RN ₁₄₅	18.0	X	59.37152	49.63821	204.83509	5.14220	0.1588342	0.29321487	2.2439442	20	9 29.3	20.7
365532 2010 RY ₁₄₈	18.1	X	295.69134	81.53130	217.97210	2.98571	0.2389624	0.27600657	2.3362704	20	3 31.1	21.2
365533 2010 RE ₁₆₀	17.3	X	359.09620	161.56053	236.11737	2.90591	0.1005052	0.21400580	2.7681249	20	12 20.6	20.6
365534 2010 RP ₁₆₃	17.4	X	297.52120	282.82643	343.07102	5.20306	0.1493871	0.26737609	2.3862778	20	3 3.0	20.2
365535 2010 RS ₁₇₅	17.0	X	234.40655	336.65186	232.95827	5.64799	0.0800012	0.22599123	2.6993673	20	—	—
365536 2010 SF ₁	18.3	X	340.22508	45.25416	248.96997	6.77614	0.1808314	0.28607276	2.2811388	20	6 28.4	19.9
365537 2010 SC ₃	17.0	X	190.45775	262.09306	322.95338	4.14689	0.1801475	0.21194258	2.7860607	20	12 20.5	21.1
365538 2010 SH ₁₀	17.1	X	92.88884	122.92193	249.81923	4.87258	0.0522372	0.22639806	2.6661684	20	—	—
365539 2010 SC ₁₂	16.6	X	100.06735	339.02912	10.95669	12.96852	0.1480207	0.22586671	2.6703482	20	—	—
365540 2010 SF ₁₇	16.9	X	76.02524	354.43337	351.73576	7.02458	0.0487472	0.21960588	2.7208634	20	—	—
365541 2010 SK ₂₅	17.6	X	127.22040	306.36287	45.46536	1.80841	0.1742817	0.23714518	2.5849958	20	1 4.9	21.1
365542 2010 TL ₂₉	17.4	X	274.28910	157.22094	170.57924	6.04150	0.1677318	0.27340799	2.3510503	20	4 25.2	20.5
365543 2010 SP ₂₉	17.6	X	253.42960	245.91971	107.06209	1.48296	0.2448860	0.27128218	2.3633164	20	4 25.7	21.2
365544 2010 SY ₃₃	17.5	X	205.39487	351.00449	6.29216	2.67691	0.2110212	0.25915227	2.4364979	20	3 22.8	21.4
365545 2010 TD ₃	17.1	X	246.92986	87.26025	15.25529	9.31152	0.0155215	0.19558614	2.9393005	20	10 5.9	21.2
365546 2010 TG ₃	17.2	X	327.47015	85.11397	2.91710	4.36487	0.0284704	0.21381802	2.7697454	20	—	—
365547 2010 TH ₃	16.2	X	224.08918	143.27558	274.47576	3.64067	0.1843863	0.17264058	3.1942884	20	6 23.7	21.3
365548 2010 TP ₃	15.7	X	230.23793	325.32303	111.84810	19.55808	0.1314805	0.17287395	3.1914131	20	7 28.9	20.6
365549 2010 TE ₅	17.7	X	196.51856	337.99464	25.50957	2.81990	0.1829623	0.25794190	2.4444140	20	3 23.7	21.5
365550 2010 TJ ₅	17.6	X	264.78826	288.46331	51.92241	3.16689	0.2065333	0.27415308	2.3467885	20	4 24.7	20.8
365551 2010 TU ₆	17.3	X	103.81750	127.46429	227.13829	3.07989	0.2234381	0.22855786	2.6493455	20	—	—
365552 2010 TZ ₁₅	17.6	X	95.15226	348.97337	274.90196	4.79209	0.1728059	0.30672441	2.1775618	20	11 23.3	20.9
365553 2010 TL ₂₀	16.0	X	356.39664	178.09639	254.14955	11.60326	0.1510642	0.21561341	2.7543484	20	—	—
365554 2010 TM ₂₃	17.0	X	28.12974	184.30873	183.83770	4.86269	0.0353587	0.20998031	2.8033910	20	12 13.5	20.8
365555 2010 TH ₂₇	17.0	X	180.81377	50.97315	239.40182	3.93003	0.0905185	0.23563956	2.5959954	20	—	—
365556 2010 TT ₂₇	16.6	X	206.01360	248.82629	290.35157	3.15847	0.0082704	0.20822029	2.8191662	20	11 22.6	20.5
365557 2010 TC ₂₉	16.5	X	211.79569	166.42182	353.67733	4.11416	0.1372532	0.20208930	2.8759003	20	10 20.4	20.8
365558 2010 TO ₃₄	17.3	X	60.44019	200.22107	182.06272	6.25776	0.0539238	0.22214054	2.7001268	20	—	—
365559 2010 TQ ₃₄	16.5	X	274.19787	189.77936	43.48575	6.10738	0.1812358	0.24404452	2.5360434	20	—	—
365560 2010 TM ₃₈	16.5	X	81.60826	346.73856	28.47836	11.87372	0.0864717	0.22342170	2.6897948	20	—	—
365561 2010 TG ₄₀	17.5	X	267.38881	220.69752	312.70556	2.68313	0.0648615	0.22145457	2.7056999	20	—	—
365562 2010 TN ₄₀	17.3	X	20.89287	83.24694	338.58341	4.29631	0.1027323	0.22077050	2.7112861	20	—	—
365563 2010 TZ ₄₀	16.3	X	140.72603	129.93396	4.90149	8.52619	0.1329345	0.17000787	3.2271814	20	7 13.7	21.5
365564 2010 TD ₅₀	17.6	X	175.38587	221.36452	117.63900	2.40795	0.1520578	0.24510675	2.5287110	20	2 3.7	21.4
365565 2010 TA ₆₂	17.3	X	284.36727	141.17773	299.66271	4.96485	0.0423980	0.20099116	2.8863660	20	10 21.8	21.2
365566 2010 TZ ₆₂	17.3	X	63.60100	343.54284	267.76807	3.63103	0.1092376	0.29317190	2.2441635	20	9 21.6	20.0
365567 2010 TL ₆₈	17.5	X	312.83742	82.01828	335.76424	4.55278	0.1050345	0.20262992	2.8707828	20	10 29.1	20.9
365568 2010 TT ₈₅	17.4	X	213.02311	243.92233	38.24890	4.90852	0.0746212	0.24211353	2.5495098	20	—	—
365569 2010 TQ ₉₀	17.4	X	275.88375	166.55119	141.07568	2.78274	0.2142820	0.26986308	2.3715943	20	3 24.4	20.6
365570 2010 TO ₉₁	17.1	X	145.06657	77.35652	192.09557	7.45269	0.0389007	0.21689628	2.7434769	20	12 31.1	21.1
365571 2010 TC ₉₆	17.7	X	292.53482	248.34178	28.73308	3.45457	0.2319777	0.26723710	2.3871051	20	3 1.4	21.1
365572 2010 TV ₉₆	17.2	X	239.02912	83.51036	137.33466	2.79426	0.0607020	0.23017928	2.6368893	20	—	—
365573 2010 TR ₉₉	17.5	X	127.29988	148.42816	152.23182	2.38289	0.0469984	0.22120901	2.7077019	20	—	—
365574 2010 TB ₁₀₁	15.1	X	246.53766	184.12349	242.77666	15.41060	0.2743772	0.17906155	3.1174619	20	7 13.8	20.3
365575 2010 TA ₁₀₄	17.9	X	274.27224	193.67959	89.32803	2.42382	0.1728739	0.26184262	2.4197797	20	2 25.6	21.3
365576 2010 TU ₁₀₄	16.6	X	210.19306	210.53078	241.59344	4.62632	0.1091310	0.17923953	3.1153979	20	7 26.9	21.5
365577 2010 TS ₁₁₂	17.3	X	155.30217	7.32417	272.82780	1.70606	0.1770366	0.22554695	2.6728715	20	—	—
365578 2010 TG ₁₁₃	18.2	X	318.74336	109.22791	204.23337	8.53421	0.2710204	0.28345467	2.2951636	20	5 25.5	20.0
365579 2010 TE ₁₁₄	16.7	X	69.77182	234.94679	15.78793	5.13451	0.0958051	0.19015661	2.9949881	20	9 15.5	20.9
365580 2010 TF ₁₁₆	16.0	X	138.78844	124.13282	221.20657	21.18413	0.1117339	0.23323378	2.6138164	20	—	—
365581 2010 TO ₁₁₉	16.7	X	94.52305	170.22196	211.89900	14.13453	0.2923330	0.22866114	2.6485477	20	1 17.7	20.3
365582 2010 TH ₁₂₂	17.4	X	122.34674	263.66488	251.21686	4.75646	0.0302662	0.27280039	2.3545399	20	7 13.0	20.3
365583 2010 TM ₁₃₈	17.4	X	157.30101	329.19071	349.87701	4.65063	0.0462683	0.23045714	2.6347693	20	—	—
365584 2010 TP ₁₃₈	16.7	X	41.35342	99.61793	262.54965	4.06282	0.0600876	0.20931259	2.8093498	20	12 25.7	20.6
365585 2010 TQ ₁₃₈	16.7	X	276.62539	217.63013	259.03950	4.82179	0.0456040	0.20397747	2.8581252	20	11 28.3	20.3
365586 2010 TJ ₁₄₀	17.1	X	94.34765	104.49013	270.32299	4.19857	0.0759067	0.22766582	2.6562157	20	—	—
365587 2010 TW ₁₄₃	16.5	X	67.30505	97.55953	274.50553	4.71756	0.0186303	0.21820939	2.7324597	20	—	—
365588 2010 TB ₁₄₇	17.4	X	60.97405	47.02136	314.41919	2.66208	0.1810643	0.21605199	2.7506196	20	—	—
365589 2010 TL ₁₄₈	17.3	X	312.03537	303.85120	237.70896	3.57368	0.0547404	0.23939003	2.5688101	20	—	—
365590 2010 TP ₁₄₈	16.9	X	2.05020	251.78508	228.10079	6.11856	0.0875592	0.23658432	2.5890797	20	—	—
365591 2010 TE ₁₅₀	17.9	X	300.73867	222.77338	85.60570	3.40927	0.1987402	0.27616095	2.3353996	20	4 28.5	20.6
365592 2010 TJ ₁₅₆	17.6	X	309.48410	133.88350	157.27589	5.31167	0.2156797	0.27556813	2.3387478	20	4 14.7	20.1
365593 2010 TS ₁₆₂	17.2	X	81.76130	318.43465	335.83681	1.34369	0.0488161	0.20381657	2.8596292	20	11 17.5	21.1
365594 2010 TC ₁₆₃	16.5	X	246.15331	298.06953	235.31420	8.09365	0.0863852	0.21331575</				

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>		
365601	2010	<i>TW</i> ₁₇₁	17.1	X	123.53370	151.04485	184.02496	3.95664	0.1119806	0.22715844	2.6602153	20	—	—
365602	2010	<i>TP</i> ₁₇₃	16.9	X	38.04360	250.13393	185.19045	11.58590	0.0514713	0.23095023	2.6310178	20	—	—
365603	2010	<i>TL</i> ₁₇₄	16.2	X	280.64824	43.58920	5.93042	9.89588	0.1035946	0.18730808	3.0252763	20	9 1.1	20.2
365604	2010	<i>TG</i> ₁₈₄	17.1	X	48.17875	318.63381	285.76387	5.39227	0.0789834	0.28181819	2.3040401	20	8 13.8	19.7
365605	2010	<i>TF</i> ₁₈₅	17.3	X	81.92871	157.08398	193.33061	2.52712	0.0945116	0.22271745	2.6954621	20	—	—
365606	2010	<i>TX</i> ₁₈₆	17.0	X	29.48958	178.73438	201.57339	8.00169	0.1489649	0.21042834	2.7994103	20	—	—
365607	2010	<i>UN</i> ₁₅	16.7	X	93.67830	319.54836	48.24827	7.12720	0.0593224	0.22506692	2.6766706	20	—	—
365608	2010	<i>UV</i> ₁₈	15.9	X	302.21618	142.21271	232.60308	14.58465	0.1922304	0.18032391	3.1028956	20	7 27.2	20.1
365609	2010	<i>UA</i> ₂₂	16.7	X	96.08528	243.32519	69.13556	3.17630	0.0607811	0.21129006	2.7917938	20	12 29.1	20.6
365610	2010	<i>UY</i> ₂₂	16.2	X	180.97110	105.98264	40.72776	9.65940	0.0525789	0.18417397	3.0595007	20	9 11.1	20.8
365611	2010	<i>UG</i> ₂₇	16.3	X	71.81751	321.65747	48.77047	7.47396	0.0538146	0.21587471	2.7521253	20	—	—
365612	2010	<i>UQ</i> ₂₇	17.4	X	202.69637	92.82121	227.36974	8.13823	0.1941130	0.24438760	2.5336693	20	2 3.2	21.8
365613	2010	<i>UJ</i> ₃₀	17.1	X	62.37136	79.50960	309.24201	4.00886	0.1267746	0.22083798	2.7107338	20	—	—
365614	2010	<i>UR</i> ₃₀	16.2	X	252.40314	137.07411	352.81540	4.49553	0.0221818	0.19989332	2.8969246	20	11 14.4	20.3
365615	2010	<i>UT</i> ₃₀	16.0	X	226.84698	111.04311	20.99845	8.22230	0.0366399	0.19278039	2.9677512	20	10 14.4	20.2
365616	2010	<i>UW</i> ₃₀	17.2	X	96.08783	321.94504	13.05230	5.97400	0.0786769	0.21665659	2.7455000	20	—	—
365617	2010	<i>UQ</i> ₃₁	15.7	X	230.64321	13.10958	36.99862	16.51366	0.0963879	0.17275021	3.1929369	20	6 28.4	20.8
365618	2010	<i>UP</i> ₃₅	17.7	X	250.93817	204.28043	126.73177	5.89069	0.2457825	0.26547560	2.3976529	20	3 28.7	21.6
365619	2010	<i>UB</i> ₄₀	16.6	X	213.11365	94.80427	14.77460	4.92316	0.0967216	0.18221903	3.0813443	20	8 25.1	21.2
365620	2010	<i>UJ</i> ₄₄	16.5	X	131.89222	107.83045	233.73233	13.54153	0.1268819	0.23117834	2.6292867	20	—	—
365621	2010	<i>UZ</i> ₅₀	16.7	X	136.16115	23.28614	292.14707	4.44197	0.0640156	0.22278536	2.6949143	20	—	—
365622	2010	<i>UD</i> ₅₂	17.4	X	110.05381	273.91636	74.44177	2.63108	0.2085851	0.22785643	2.6547799	20	—	—
365623	2010	<i>UM</i> ₅₂	16.6	X	207.51000	247.82429	42.70015	7.84488	0.1385827	0.23493673	2.6011702	20	1 7.3	20.8
365624	2010	<i>UX</i> ₅₃	16.8	X	202.00404	68.05967	234.35432	14.00725	0.1036788	0.23858332	2.5745974	20	1 11.5	21.0
365625	2010	<i>UR</i> ₅₄	16.4	X	123.32383	31.06740	252.38030	5.07242	0.0206668	0.20548097	2.8441663	20	12 20.9	20.4
365626	2010	<i>UW</i> ₅₆	15.6	X	276.28295	191.98512	251.42074	8.84216	0.0951726	0.18843211	3.0132334	20	10 3.5	19.8
365627	2010	<i>UR</i> ₅₇	16.1	X	61.58123	255.20071	45.65702	9.27900	0.0742873	0.19147184	2.9812571	20	11 3.4	20.3
365628	2010	<i>UJ</i> ₅₇	16.0	X	288.72001	345.27501	44.91858	10.67714	0.0932212	0.17799983	3.1298462	20	8 20.9	20.3
365629	2010	<i>UO</i> ₅₉	15.7	X	104.27922	334.87932	263.81391	8.83899	0.0281973	0.18211996	3.0824617	20	9 26.4	20.3
365630	2010	<i>UO</i> ₆₂	16.2	X	236.33545	61.48900	357.74475	9.44698	0.1073872	0.17416467	3.1756259	20	7 17.8	21.1
365631	2010	<i>UG</i> ₆₅	16.4	X	140.89933	277.72470	42.64762	11.15997	0.2075546	0.22804389	2.6533248	20	—	—
365632	2010	<i>UB</i> ₇₅	16.9	X	70.63564	350.79336	12.14367	14.48724	0.1606101	0.21779106	2.7359575	20	—	—
365633	2010	<i>UR</i> ₇₉	16.4	X	53.79453	12.61525	137.92410	5.00840	0.0902193	0.20177723	2.8788648	20	12 3.7	20.5
365634	2010	<i>UM</i> ₈₀	16.1	X	196.29701	248.54216	220.90544	25.64094	0.1809691	0.17675075	3.1445744	20	7 23.9	21.8
365635	2010	<i>UT</i> ₈₃	16.4	X	148.80800	123.86922	219.92600	14.13162	0.1576501	0.23319987	2.6140698	20	1 13.3	20.6
365636	2010	<i>UJ</i> ₈₃	16.9	X	92.29311	157.49878	231.20821	11.28158	0.1932126	0.23035140	2.6355756	20	1 8.5	20.2
365637	2010	<i>UZ</i> ₈₃	16.2	X	219.20093	212.40205	253.92511	5.43402	0.1499287	0.18078127	3.0976601	20	8 18.4	21.2
365638	2010	<i>UA</i> ₈₆	17.2	X	134.01187	206.77813	89.01918	3.74107	0.0679067	0.21796185	2.7345281	20	—	—
365639	2010	<i>UY</i> ₉₁	16.4	X	81.66882	262.51578	78.00728	5.24855	0.0780974	0.21475754	2.7616614	20	—	—
365640	2010	<i>UA</i> ₉₃	16.4	X	145.32577	9.09297	256.39308	10.91011	0.0587122	0.20593148	2.8400166	20	12 23.9	20.6
365641	2010	<i>UH</i> ₉₅	15.9	X	237.39898	290.50186	122.20060	6.41551	0.1734168	0.16993731	3.2280746	20	7 1.1	20.8
365642	2010	<i>UN</i> ₉₆	15.6	X	307.13823	20.84289	17.84087	12.98578	0.1208164	0.18768303	3.0212457	20	9 24.6	19.3
365643	2010	<i>UV</i> ₉₉	16.5	X	117.09546	43.54086	282.47442	5.31955	0.0957845	0.21791858	2.7348901	20	—	—
365644	2010	<i>UK</i> ₁₀₀	16.6	X	125.86050	112.18111	221.19934	11.66686	0.2296116	0.22590320	2.6700606	20	—	—
365645	2010	<i>UM</i> ₁₀₁	16.4	X	159.99397	106.80410	203.23044	13.03856	0.1083193	0.23155492	2.6264353	20	—	—
365646	2010	<i>UV</i> ₁₀₁	15.9	X	188.19425	88.66903	33.62922	10.10721	0.0980337	0.17936162	3.1139840	20	8 17.1	20.9
365647	2010	<i>UN</i> ₁₀₃	17.3	X	132.49296	103.57890	201.26361	5.82630	0.0262207	0.21535732	2.7565315	20	—	—
365648	2010	<i>UU</i> ₁₀₇	17.2	X	300.11353	268.86878	151.64216	1.00682	0.1537376	0.19144064	2.9815811	20	10 6.7	20.8
365649	2010	<i>VC</i> ₁₅	17.3	X	17.72653	43.38247	356.94895	6.99855	0.0610380	0.21024754	2.8010150	20	—	—
365650	2010	<i>VT</i> ₂₀	17.3	X	290.29771	220.76664	106.93285	7.46061	0.2451905	0.27390343	2.3482143	20	5 5.3	20.3
365651	2010	<i>VL</i> ₂₅	16.2	X	351.03570	279.61327	66.56647	4.00827	0.0968559	0.18458250	3.0549846	20	9 26.4	20.0
365652	2010	<i>VS</i> ₂₅	13.4	X	219.67154	75.51922	65.57383	12.00482	0.1011390	0.08190781	5.2511266	20	9 30.8	20.7
365653	2010	<i>VD</i> ₂₆	16.9	X	193.19180	237.71929	74.15153	2.57649	0.1787408	0.23619464	2.5919266	20	1 20.4	21.2
365654	2010	<i>VY</i> ₂₆	15.7	X	274.21529	325.42002	68.40941	11.67899	0.0231689	0.17214519	3.2004137	20	8 14.5	20.3
365655	2010	<i>VO</i> ₂₇	15.5	X	203.18211	238.67540	214.82471	13.76114	0.0378391	0.17392036	3.1785992	20	7 23.3	20.4
365656	2010	<i>VQ</i> ₃₁	17.0	X	91.88706	294.64977	113.45600	3.05343	0.1727594	0.23284098	2.6167553	20	2 1.3	20.0
365657	2010	<i>VV</i> ₃₁	16.4	X	198.76847	113.83797	199.48074	7.81466	0.1110505	0.23970379	2.5665680	20	1 22.7	20.4
365658	2010	<i>VW</i> ₃₁	17.0	X	44.63509	272.90007	139.35357	3.17620	0.0595338	0.22014260	2.7164392	20	—	—
365659	2010	<i>VA</i> ₃₂	17.1	X	254.46672	299.01174	152.25882	3.90394	0.0837321	0.18725248	3.0258751	20	9 20.7	21.2
365660	2010	<i>VS</i> ₃₆	16.8	X	141.28942	262.87265	98.03358	10.31091	0.2272867	0.23661176	2.5888795	20	2 7.2	20.9
365661	2010	<i>VK</i> ₃₈	16.4	X	353.70135	338.25454	66.04617	13.43927	0.0601433	0.20360036	2.8616533	20	12 13.2	20.1
365662	2010	<i>VD</i> ₄₄	17.0	X	67.42023	102.78140	281.96546	3.61303	0.0503858	0.22263447	2.6961317	20	—	—
365663	2010	<i>VA</i> ₄₆	13.2	X	282.29979	14.64071	55.13209	17.10640	0.1910126	0.08235361	5.2321593	20	9 8.9	20.2
365664	2010	<i>VM</i> ₄₆	15.5	X	70.61346	187.05323	52.06371	19.57571	0.1376754	0.17387270	3.1791800	20	9 16.1	20.4
365665	2010	<i>VL</i> ₄₇	15.6	X	126.69311	298.85985	252.16535	7.57665	0.0472505	0.17482233	3.1676567	20	8 26.2	20.4
365666	2010	<i>VZ</i> ₄₉	15.2	X	147.35011	271.12382	241.91698	24.03553	0.1746245	0.16903973	3.2394915	20	8 1.2	21.0
365667	2010	<i>VJ</i> ₅₀	16.4	X	187.73655	48.20879	203.32851	12.91071	0.0713510	0.22100598	2.7093599	20	—	—
365668	2010	<i>VJ</i> ₅₁	15.8	X	163.27933	136.41357	35.55656	10.95687	0.0345456	0.18051246	3.1007346	20	9 21.9	20.4
365669	2010	<i>VN</i> ₅₃	15.7	X	25									

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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>
365681 2010 VX ₉₀	16.7	X	149.72806	72.80119	293.71956	2.58418	0.2402040	0.23901234	2.5715156	20	2 19.6	21.0
365682 2010 VL ₉₂	16.7	X	199.65952	257.29667	219.74201	6.51197	0.0438020	0.18288522	3.0738569	20	8 19.4	21.2
365683 2010 VE ₉₉	16.3	X	150.33732	109.61686	234.12172	11.42398	0.3012784	0.23552608	2.5968292	20	1 26.3	20.9
365684 2010 VU ₁₀₁	16.2	X	311.47699	128.65823	233.82272	8.76277	0.0507705	0.17748434	3.1359035	20	8 13.2	20.6
365685 2010 VR ₁₀₂	17.3	X	184.38639	110.18343	218.12545	2.96287	0.1727860	0.23870998	2.5736866	20	1 30.5	21.6
365686 2010 VC ₁₀₄	16.8	X	157.41573	283.63557	72.96103	5.30346	0.1693438	0.23783065	2.5800265	20	2 11.9	20.8
365687 2010 VP ₁₀₄	16.3	X	143.84974	275.23462	84.66799	8.44163	0.2192800	0.23587654	2.5942563	20	2 8.0	20.4
365688 2010 VS ₁₀₄	15.8	X	279.76773	353.84546	68.78345	12.04949	0.1536680	0.18512761	3.0489848	20	9 13.1	20.0
365689 2010 VC ₁₀₅	16.9	X	66.34412	284.67480	71.12843	7.11082	0.0616168	0.21071082	2.7969078	20	—	—
365690 2010 VH ₁₀₆	17.3	X	188.51418	268.76454	64.00348	11.74106	0.2488737	0.24527875	2.5275287	20	2 15.4	21.9
365691 2010 VK ₁₀₆	16.3	X	232.00546	27.95962	76.23766	10.65882	0.0968975	0.18247461	3.0784665	20	9 12.4	21.0
365692 2010 VP ₁₁₀	16.3	X	191.00815	326.27622	165.26024	5.45143	0.1600250	0.17902046	3.1179389	20	8 25.9	21.2
365693 2010 VU ₁₁₀	17.0	X	160.66123	245.96913	91.26049	6.47896	0.1179256	0.23584861	2.5944611	20	1 16.9	20.8
365694 2010 VT ₁₁₆	15.9	X	169.43119	351.81922	249.12365	14.31586	0.0916553	0.20580580	2.8411727	20	12 18.3	20.2
365695 2010 VD ₁₁₉	14.0	X	213.64227	280.98065	232.56896	10.72744	0.0658626	0.08479343	5.1313061	20	10 3.5	21.1
365696 2010 VE ₁₁₉	16.1	X	176.84629	282.48488	228.83224	8.72846	0.0410787	0.17896769	3.1185518	20	9 3.5	20.8
365697 2010 VU ₁₂₀	16.6	X	77.62539	303.30821	69.86235	12.96481	0.0888458	0.21667507	2.7453439	20	—	—
365698 2010 VW ₁₂₀	16.8	X	49.51909	288.63761	90.02585	4.23439	0.1378224	0.21101211	2.7942448	20	—	—
365699 2010 VX ₁₂₁	17.0	X	145.69207	302.84276	327.48696	4.00344	0.0478552	0.20893580	2.8127263	20	12 31.7	21.1
365700 2010 VF ₁₂₈	15.6	X	254.59296	72.10608	321.63793	10.83014	0.0738139	0.17474662	3.1685716	20	7 10.6	20.2
365701 2010 VP ₁₂₈	16.7	X	111.64873	332.83511	26.81188	6.12733	0.0262539	0.22537698	2.6742152	20	—	—
365702 2010 VZ ₁₂₈	17.0	X	137.57172	148.25989	196.10420	4.21051	0.2098444	0.23411863	2.6072263	20	1 10.7	21.0
365703 2010 VE ₁₃₀	16.1	X	269.46924	198.78059	244.64891	5.47918	0.1381474	0.18750237	3.0231861	20	9 18.5	20.2
365704 2010 VZ ₁₃₂	16.7	X	331.14136	169.73983	248.74920	10.24383	0.1325073	0.20034501	2.8925688	20	12 1.1	19.9
365705 2010 VD ₁₃₆	16.7	X	162.87477	219.21614	62.56671	10.01360	0.1889276	0.22049634	2.7135331	20	—	—
365706 2010 VR ₁₃₈	16.1	X	230.69233	11.50667	60.85091	6.62824	0.0855005	0.17297692	3.1901463	20	7 29.6	20.9
365707 2010 VT ₁₄₂	16.8	X	63.96479	246.78643	84.79508	6.13792	0.1645018	0.21008667	2.8024447	20	—	—
365708 2010 VU ₁₄₉	16.0	X	65.32969	172.30401	90.90441	10.68216	0.0748458	0.17879517	3.1205575	20	9 13.0	20.5
365709 2010 VD ₁₅₂	16.1	X	40.13424	103.21121	230.21802	8.10105	0.1081765	0.19341780	2.9612274	20	11 22.0	20.1
365710 2010 VV ₁₅₉	16.5	X	29.26590	127.35032	214.44827	9.39239	0.1111639	0.19323675	2.9630768	20	11 19.0	20.3
365711 2010 VJ ₁₆₀	16.9	X	31.03160	111.58491	274.75065	5.35624	0.0450049	0.21077279	2.7963596	20	—	—
365712 2010 VF ₁₆₈	16.9	X	177.57344	275.80671	47.80844	2.77361	0.1503276	0.23670295	2.5882146	20	1 19.5	21.0
365713 2010 VH ₁₇₀	15.7	X	341.12332	251.97422	60.11974	16.56684	0.1171327	0.17296285	3.1903193	20	7 25.4	19.8
365714 2010 VG ₁₇₁	15.8	X	47.16075	61.60820	244.95489	12.23826	0.0569937	0.18806794	3.0171220	20	10 17.1	20.2
365715 2010 VB ₁₇₂	15.9	X	18.49768	280.49517	58.19657	8.44120	0.0114375	0.18778745	3.0201256	20	10 20.1	20.1
365716 2010 VK ₁₇₃	15.7	X	318.04680	138.38803	250.86264	12.05214	0.0817076	0.18465863	3.0541449	20	9 23.5	19.9
365717 2010 VW ₁₇₄	16.1	X	80.03382	150.13960	84.43353	4.08958	0.0653932	0.17702685	3.1413039	20	9 2.6	20.5
365718 2010 VH ₁₇₅	16.3	X	173.24334	66.12540	227.18637	11.62014	0.1207267	0.22411924	2.6842108	20	—	—
365719 2010 VA ₁₇₇	15.9	X	143.25508	289.51909	238.81493	9.23853	0.0507583	0.17608822	3.1524571	20	8 16.9	20.8
365720 2010 VZ ₁₇₉	15.6	X	114.47797	142.52845	60.42177	8.93288	0.0840255	0.17611969	3.1520815	20	9 8.0	20.4
365721 2010 VL ₁₈₁	16.5	X	43.58623	192.04550	91.39255	3.64977	0.0339495	0.17937464	3.1138333	20	9 13.6	20.8
365722 2010 VS ₁₈₂	15.6	X	170.83163	62.60081	82.31513	13.07083	0.0861133	0.17837225	3.1254881	20	8 28.0	20.6
365723 2010 VK ₁₈₆	15.8	X	4.40766	13.51639	300.86370	8.36951	0.0362480	0.18032854	3.1028425	20	8 27.1	20.1
365724 2010 VC ₁₈₈	13.5	X	193.43841	71.77541	86.74241	11.41787	0.1239082	0.08256653	5.2231604	20	9 24.6	21.0
365725 2010 VA ₁₉₃	16.1	X	303.69744	195.18003	221.34310	4.71926	0.1144468	0.19078081	2.9884518	20	10 10.2	19.7
365726 2010 VC ₁₉₅	16.4	X	197.20454	219.04165	253.52458	1.44451	0.0436689	0.17770144	3.1333489	20	8 12.5	20.9
365727 2010 VN ₁₉₈	16.5	X	118.18330	320.64729	15.53748	8.89247	0.0957615	0.22280243	2.6947766	20	—	—
365728 2010 VH ₁₉₉	15.8	X	114.84067	136.11555	254.20233	15.59192	0.2668633	0.23428983	2.6059561	20	2 12.8	19.9
365729 2010 VM ₂₀₈	15.9	X	122.51318	215.83344	7.64466	11.23113	0.0314369	0.19040578	2.9923747	20	10 4.6	20.2
365730 2010 VE ₂₁₁	16.4	X	223.00450	15.14117	230.86904	14.06496	0.0779490	0.22681603	2.6628920	20	—	—
365731 2010 VB ₂₁₂	16.9	X	7.69730	91.33921	185.81562	1.03284	0.0797895	0.20141232	2.8823410	20	11 30.7	20.5
365732 2010 VT ₂₁₃	16.6	X	201.25090	324.98927	135.34051	0.49927	0.1684673	0.17021977	3.2245025	20	7 25.5	21.8
365733 2010 VU ₂₁₄	17.0	X	229.27795	313.42690	324.77259	2.34591	0.1364962	0.24027665	2.5624870	20	1 11.4	21.1
365734 2010 VV ₂₁₄	16.7	X	122.32514	18.65728	285.77748	5.02757	0.0524338	0.21811351	2.7332604	20	—	—
365735 2010 WJ ₈	16.4	X	281.59909	7.34603	39.71250	10.39092	0.1003657	0.18633806	3.0357663	20	9 2.0	20.6
365736 2010 WK ₈	14.7	X	126.93857	248.40780	254.85541	15.23619	0.1145799	0.15993918	3.3612397	20	7 4.8	19.9
365737 2010 WQ ₉	16.0	X	206.73430	76.04978	23.99413	11.20837	0.0479223	0.17392635	3.1785262	20	8 12.7	20.8
365738 2010 WX ₉	16.8	X	289.52041	68.15084	8.66149	2.97917	0.0930250	0.19172512	2.9786310	20	10 18.0	20.4
365739 Peterbecker	16.1	X	287.16012	189.04925	230.88693	10.46488	0.0851152	0.18684290	3.0302955	20	9 19.4	20.2
365740 2010 WC ₁₄	16.9	X	135.18034	87.47106	217.97219	5.99192	0.0996780	0.21572969	2.7533586	20	—	—
365741 2010 WN ₁₅	15.3	X	302.66410	339.12738	66.92617	13.11853	0.0523109	0.18633127	3.0358401	20	10 7.9	19.5
365742 2010 WO ₁₅	16.5	X	79.43329	259.03609	121.56602	3.71401	0.0877926	0.22002455	2.7174107	20	—	—
365743 2010 WK ₂₁	15.8	X	35.55658	62.75486	247.23223	8.91150	0.0903063	0.18633428	3.0358073	20	10 10.5	19.9
365744 2010 WZ ₂₂	15.7	X	123.72993	167.71622	66.24341	17.62436	0.1417635	0.18636901	3.0354302	20	10 30.5	20.7
365745 2010 WS ₂₆	16.4	X	140.93475	317.54858	51.54712	5.05337	0.2102676	0.23679005	2.5875798	20	2 15.5	20.4
365746 2010 WW ₂₆	16.3	X	336.13881	289.55427	39.46431	3.13679	0.0569789	0.17366318	3.1817365	20	8 9.4	20.4
365747 2010 WB ₃₃	15.9	X	295.08211	286.02268	78.62325	8.91901	0.0352761	0.17110217	3.2134068	20	7 31.3	20.4
365748 2010 WA ₃₈	15.8	X	30.84058	55.75127	217.35338	7.22954	0.0971806	0.17387688	3.1791291	20	8 16.3	20.1
365749 2010 WZ ₃₉	16.0	X	345.49429	298.58312	96.42701	11.64347	0.0803417	0.19544579	2.9407075	20	11 22.5	19.8
365750 2010 WY ₄₉	15.9	X	125.13611	293.26705	73.44660	18.01441	0.2282344	0.23156911	2.6263280	20	1 31.9	20.1
365751 2010 WS ₅₄	17.4	X	22.21376	80.24237	267.45593	7.09512	0.2288815	0.30192355	2.2005846	20	12 31.7	20.1
365752 2010 WR ₅₅	15.6	X	263.04414	303.76150	106.46237	10.26058	0.1438862	0.16814501	3.2509732	20	7 30.7	20.2
365753 2010 WL ₆₀	16.1	X	326.53059	162.30472	238.40052	8.21435	0.0988514	0.19260722	2.9695297	20	10 27.2	

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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>
365761 Popovici	17.2	X	133.77675	218.07584	168.93421	5.26907	0.1911464	0.23949220	2.5680795	20	2 25.5	21.0
365762 2010 XZ ₈	16.3	X	180.69815	171.32836	163.27557	5.72909	0.2639828	0.23910632	2.5708417	20	2 7.4	20.9
365763 2010 XE ₁₀	15.9	X	300.56325	166.38028	226.04513	9.34682	0.0855835	0.18068489	3.0987615	20	9 1.9	20.1
365764 2010 XX ₁₁	16.6	X	176.41910	258.83507	110.99605	7.17848	0.3057231	0.24465918	2.5317940	20	3 21.3	21.3
365765 2010 XE ₁₂	15.4	X	326.53377	255.22172	99.27318	12.04347	0.0767673	0.16881538	3.2423610	20	8 29.8	19.7
365766 2010 XK ₁₄	17.1	X	23.20719	96.23093	288.21690	3.92831	0.0254007	0.20486828	2.8498341	20	12 24.6	21.0
365767 2010 XO ₂₁	16.8	X	77.39768	302.49319	80.27461	15.31472	0.1888122	0.22057791	2.7128641	20	—	—
365768 2010 XG ₂₃	16.9	X	103.28719	112.96631	245.18297	5.46025	0.0710943	0.22054233	2.7131558	20	—	—
365769 2010 XN ₂₄	16.0	X	266.97975	292.53816	111.50282	11.25132	0.1928997	0.17596872	3.1538842	20	7 20.6	20.3
365770 2010 XR ₃₅	16.7	X	104.00098	250.33889	87.67115	4.40317	0.0951400	0.21323635	2.7747800	20	—	—
365771 2010 XY ₃₅	16.7	X	153.41435	269.31680	82.89705	9.69672	0.2104845	0.23536787	2.5979927	20	2 6.9	20.9
365772 2010 XN ₄₉	16.0	X	310.17616	218.23825	164.03640	8.80042	0.0826411	0.18333416	3.0688367	20	9 7.9	20.0
365773 2010 XU ₄₉	15.9	X	287.07713	305.85597	114.16135	10.38786	0.1311037	0.18616114	3.0376894	20	9 21.6	19.9
365774 2010 XF ₅₀	16.4	X	149.45233	129.76549	236.59211	8.58963	0.2226119	0.23808937	2.5781571	20	2 14.9	20.7
365775 2010 XH ₅₀	15.6	X	200.42190	61.57595	83.52616	19.93654	0.0360585	0.18188831	3.0850783	20	10 8.9	20.5
365776 2010 XH ₅₁	16.7	X	354.58273	306.02816	63.50578	10.62217	0.0890735	0.19649489	2.9302311	20	11 3.8	20.4
365777 2010 XH ₅₄	16.1	X	102.37319	251.68212	126.02604	14.90058	0.0633877	0.22335062	2.6903654	20	—	—
365778 2010 XK ₅₆	15.9	X	299.40283	173.96623	249.40046	9.09924	0.0813122	0.18723667	3.0260454	20	10 12.9	19.9
365779 2010 XL ₅₇	16.6	X	305.97527	197.58439	242.38220	2.65085	0.0570628	0.19250607	2.9705698	20	11 18.6	20.3
365780 2010 XU ₆₀	16.7	X	139.09123	252.40754	83.28738	16.78811	0.2399989	0.22661970	2.6644298	20	1 6.5	20.9
365781 2010 XC ₆₁	16.8	X	333.03036	106.07135	245.63593	1.89088	0.1054056	0.18301412	3.0724134	20	8 31.8	20.4
365782 2010 XC ₇₃	15.9	X	263.06215	355.59412	75.54605	10.84877	0.0679315	0.18291875	3.0734812	20	9 13.0	20.3
365783 2010 XB ₇₄	16.8	X	30.82927	189.41657	219.17159	12.24488	0.0792847	0.21370570	2.7707158	20	—	—
365784 2010 XZ ₇₄	15.4	X	261.32707	297.81363	112.43300	13.86101	0.2017733	0.16896225	3.2404818	20	7 20.2	20.0
365785 2010 XC ₇₆	16.2	X	314.23355	313.39952	93.99739	9.80632	0.1040278	0.18876999	3.0096368	20	10 21.4	20.0
365786 Florencelosse	15.3	X	237.20719	9.22695	107.21072	12.03559	0.0337782	0.18144019	3.0901559	20	10 12.3	19.9
365787 2011 AW ₁₆	16.5	X	171.26310	261.24673	79.24080	15.67068	0.1432751	0.23754327	2.5821070	20	2 5.2	20.7
365788 2011 AF ₁₇	16.6	X	65.76873	299.96108	72.54026	6.92713	0.0490891	0.21264231	2.7799454	20	—	—
365789 2011 AQ ₂₀	15.8	X	286.48823	300.89824	122.07572	17.57606	0.2042435	0.17796675	3.1302340	20	9 12.8	20.0
365790 2011 AK ₂₁	15.6	X	348.58383	242.03765	109.39793	17.48719	0.1228848	0.17193656	3.2030021	20	10 4.6	19.8
365791 2011 AT ₂₃	17.4	X	212.97770	353.71302	106.00939	7.07446	0.1421365	0.26948454	2.3738147	20	8 15.4	20.8
365792 2011 AV ₂₃	16.4	X	168.18242	67.41393	278.65303	5.09800	0.0208300	0.22156608	2.7047919	20	1 28.3	20.2
365793 2011 AY ₂₇	16.5	X	150.88773	72.17249	296.42489	5.37719	0.0666919	0.22259883	2.6964195	20	2 9.3	20.4
365794 2011 AS ₃₅	15.7	X	210.12721	241.20760	288.87446	12.17833	0.2466271	0.17451482	3.1713768	20	10 13.2	21.2
365795 2011 AS ₅₄	16.0	X	8.41978	248.52842	100.87366	13.28045	0.1480077	0.18054656	3.1003442	20	11 4.9	20.0
365796 2011 AM ₅₇	15.9	X	120.35501	9.10360	287.81147	13.70499	0.1318194	0.19265891	2.9689985	20	—	—
365797 2011 BW ₁₅	17.8	X	267.95107	263.48260	148.75732	24.56771	0.1389502	0.37713583	1.8973066	20	9 6.8	19.0
365798 2011 BF ₂₆	15.7	X	313.43532	274.34370	134.59213	10.69751	0.1746474	0.18143767	3.0901845	20	10 14.6	19.3
365799 2011 BR ₂₇	15.9	X	93.64827	182.75457	146.26996	11.46232	0.1366812	0.18418460	3.0593829	20	—	—
365800 2011 CF ₃	16.0	X	257.17107	326.73638	154.58236	10.27539	0.0782692	0.17897203	3.1185014	20	11 2.4	20.4
365801 2011 CH ₃	15.6	X	129.77662	322.98767	287.65155	8.70896	0.0417686	0.17749647	3.1357606	20	11 11.8	20.3
365802 2011 CZ ₆₉	15.5	X	277.73128	315.94013	131.53833	23.08042	0.1381628	0.17498238	3.1657249	20	10 14.2	20.1
365803 2011 CJ ₁₁₅	16.4	X	157.30572	146.59165	193.62538	8.90662	0.1985286	0.21035321	2.8000768	20	1 24.5	21.1
365804 2011 DV ₄₁	15.9	X	68.27989	204.62289	163.62931	12.03989	0.1121888	0.18625526	3.0366659	20	—	—
365805 2011 EU ₁₆	16.4	X	5.95392	250.60838	165.17621	11.56370	0.1685431	0.18730366	3.0253239	20	—	—
365806 2011 EU ₄₂	15.4	X	333.42136	293.55996	126.94512	15.94542	0.0605915	0.17509814	3.1643294	20	12 2.2	19.8
365807 2011 HS ₅₁	16.3	X	321.88152	236.52839	62.41351	13.77346	0.1727169	0.22627969	2.6670981	20	5 25.6	19.1
365808 2011 QK ₆₇	18.1	X	201.77411	145.12701	183.96969	3.14675	0.1671713	0.28722269	2.2750462	20	2 10.8	21.8
365809 2011 QJ ₉₈	15.6	X	180.82900	205.27530	176.63541	9.49022	0.0955081	0.17569620	3.1571446	20	4 5.0	20.4
365810 2011 RU ₃	17.0	X	339.96628	192.29917	173.18732	14.86020	0.1288381	0.22349777	2.6891844	20	10 14.0	19.9
365811 2011 RS ₉	16.6	X	268.60805	232.99438	179.00506	15.56224	0.1140425	0.21381523	2.7697695	20	8 14.3	20.5
365812 2011 SX ₃₇	16.0	X	192.04958	218.91767	196.86076	16.58734	0.2154488	0.17991378	3.1076094	20	5 25.1	21.5
365813 2011 SP ₅₁	17.5	X	192.52697	35.87787	11.24485	6.30482	0.1601214	0.29340273	2.2429863	20	5 11.3	20.9
365814 2011 SD ₈₅	17.4	X	312.17227	315.06780	161.26862	4.52290	0.2166962	0.23200068	2.6230700	20	—	—
365815 2011 SX ₈₉	18.1	X	180.28957	139.34409	298.50523	1.47089	0.1071116	0.30022040	2.2088993	20	6 11.6	21.0
365816 2011 SJ ₉₁	17.8	X	178.80488	186.81302	238.22264	4.19723	0.1151572	0.29444286	2.2377009	20	5 23.3	20.8
365817 2011 SJ ₁₁₄	16.0	X	229.08872	201.34637	169.40349	10.89227	0.1751306	0.18492819	3.0511763	20	5 5.6	21.0
365818 2011 SE ₁₄₇	17.4	X	191.59415	253.74191	39.29472	1.71725	0.1908253	0.27102298	2.3648230	20	—	—
365819 2011 SF ₁₇₁	16.6	X	264.94139	124.59604	223.95259	8.07382	0.0689728	0.18534657	3.0465830	20	5 26.2	20.9
365820 2011 SH ₁₈₀	17.8	X	103.96908	255.46402	209.94188	5.01410	0.2172323	0.27967010	2.3158230	20	5 6.5	20.9
365821 2011 SS ₁₈₀	17.9	X	81.33216	63.00169	5.32518	2.35252	0.1006612	0.26550798	2.3974579	20	1 27.2	20.5
365822 2011 SO ₁₈₇	17.9	X	152.54179	269.28425	204.63208	5.67544	0.0935329	0.30408577	2.1901405	20	6 29.7	21.0
365823 2011 SS ₂₁₆	17.8	X	141.16278	185.08204	183.08147	21.54557	0.0804200	0.38365301	1.8757587	20	—	—
365824 2011 SC ₂₂₀	18.3	X	96.62696	86.02587	345.20745	4.96710	0.1844425	0.26874470	2.3781693	20	3 6.4	21.0
365825 2011 SH ₂₂₄	18.0	X	247.22809	58.95936	352.55452	4.68871	0.0346221	0.31259624	2.1502067	20	8 10.6	20.2
365826 2011 SA ₂₅₅	18.5	X	184.81315	239.91894	189.01078	4.83369	0.0548058	0.30263648	2.1971272	20	6 5.7	21.3
365827 2011 SA ₂₆₀	18.4	X	133.66372	250.98745	217.27484	3.66432	0.1095058	0.29449387	2.2374425	20	5 31.9	21.3
365828 2011 SF ₂₆₀	17.6	X	41.35617	104.88077	19.40564	2.59945	0.1570229	0.26442741	2.4039849	20	2 11.9	19.5
365829 2011 SL ₂₆₁	17.4	X	136.59521	342.69572	90.91567	6.92158	0.0773254	0.27921857	2.3183189	20	4 17.4	20.5
365830 2011 SU ₂₆₁	17.8	X	100.65915	326.29785	128.84582	3.55457	0.1161251	0.27761339	2.3272468	20	4 4.2	20.5
365831 2011 SN ₂₇₅	16.7	X	53.20303	149.06723	161.10398	11.22030	0.0507887	0.22528745	2.6749236	20	11 10.8	20.5
365832 2011 TE ₂	17.4	X	129.34266	81.56739	239.57139	20.07198	0.0885125	0.36878370	1.9258461	20	—	—
365833 2011 TM ₄	17.6	X	226.41354	181.07712	45.88877	23.01253	0.1028174	0.36681557	1.9327286	20	—	—
365834 2011 TH ₇	18.											

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>		
365841	2011	US ₅₈	18.0	X	98.31007	279.36561	185.67134	7.98237	0.1653489	0.28250072	2.3003275	20	4 22.1	20.8
365842	2011	UY ₇₀	17.8	X	185.36281	110.71359	338.78700	4.48835	0.0342916	0.30520681	2.1847742	20	7 7.8	20.5
365843	2011	UM ₇₆	16.7	X	294.63233	123.21888	22.96724	14.83275	0.1896380	0.23523987	2.5989351	20	—	—
365844	2011	US ₈₃	18.2	X	145.15961	88.46139	336.14093	1.89715	0.0791348	0.28013680	2.3132502	20	4 11.4	21.1
365845	2011	UU ₈₄	16.6	X	293.69130	248.07279	256.05582	8.28640	0.1689406	0.23084618	2.6318083	20	—	—
365846	2011	UN ₈₇	17.3	X	344.27220	66.51880	60.64744	14.44386	0.1258586	0.24245135	2.5471409	20	—	—
365847	2011	UU ₉₂	17.9	X	83.17755	260.83641	213.06510	4.56524	0.1064451	0.27910283	2.3189598	20	3 31.9	20.6
365848	2011	UD ₉₄	17.9	X	165.69560	100.80382	302.86266	1.34472	0.182518	0.28187406	2.3037356	20	4 14.8	21.6
365849	2011	UG ₁₀₃	16.0	X	325.53238	76.84942	212.34410	12.36368	0.1170692	0.18369178	3.0648524	20	5 26.9	19.9
365850	2011	UY ₁₀₄	17.4	X	192.76904	167.46844	259.91954	3.42155	0.1503549	0.29932460	2.2133042	20	6 9.8	20.8
365851	2011	UJ ₁₀₆	16.5	X	359.54843	337.98661	98.55416	15.37675	0.1640995	0.22416479	2.6838472	20	—	—
365852	2011	UK ₁₀₆	17.6	X	54.78286	5.72615	115.25280	3.32858	0.1535581	0.26341941	2.4101137	20	3 5.4	19.7
365853	2011	UG ₁₁₃	15.7	X	222.36024	100.51404	54.73928	25.52296	0.1318714	0.21396298	2.7684943	20	11 3.5	19.8
365854	2011	UJ ₁₂₆	17.7	X	346.32832	158.96821	285.21776	4.17900	0.2270963	0.23433666	2.6056088	20	—	—
365855	2011	UV ₁₂₆	17.3	X	56.62766	121.53362	12.35657	3.85390	0.1474077	0.27109450	2.3644070	20	3 25.4	19.4
365856	2011	UA ₁₂₇	15.9	X	323.08128	241.81052	226.25943	13.87141	0.2385473	0.23052857	2.6342251	20	—	—
365857	2011	UK ₁₂₈	16.5	X	35.09943	248.03966	257.41827	11.91905	0.1081797	0.26643760	2.3918781	20	2 20.6	19.3
365858	2011	UY ₁₃₂	16.8	X	72.16653	69.42913	231.66526	12.46324	0.2936006	0.22774054	2.6556804	20	12 14.7	21.3
365859	2011	UK ₁₃₃	17.0	X	348.70012	326.37768	270.87532	5.83407	0.0843153	0.28619802	2.2804731	20	4 17.0	19.4
365860	2011	UE ₁₃₈	18.0	X	165.16698	161.54701	261.01327	2.53321	0.0986866	0.28447502	2.2896721	20	5 3.7	21.1
365861	2011	UQ ₁₄₂	17.7	X	104.14760	126.33780	282.58547	3.18991	0.2148993	0.26268255	2.4146188	20	2 19.7	20.8
365862	2011	UM ₁₄₅	18.4	X	238.60385	76.72989	312.19242	2.79075	0.1472584	0.29999740	2.2099938	20	6 6.4	21.4
365863	2011	UH ₁₄₉	18.1	X	114.52761	11.35490	84.48997	3.23489	0.1472973	0.27868698	2.3212661	20	4 27.3	21.2
365864	2011	UR ₁₄₉	17.6	X	76.12044	345.86264	90.70831	3.66728	0.1721636	0.26109602	2.4243903	20	2 11.2	20.0
365865	2011	UV ₁₅₂	18.1	X	192.34757	247.85234	224.85410	6.31327	0.0278706	0.30738630	2.1744347	20	8 18.2	20.9
365866	2011	UN ₁₈₈	17.5	X	121.44347	6.88954	79.67863	8.84306	0.1034524	0.27864679	2.3214893	20	4 20.1	20.7
365867	2011	UV ₂₀₉	17.3	X	279.01117	193.86403	4.28841	6.27516	0.0983115	0.25558595	2.4591106	20	—	—
365868	2011	UT ₂₃₇	17.3	X	301.16869	232.56569	260.04965	2.48511	0.1424813	0.23266235	2.6180944	20	—	—
365869	2011	UJ ₂₆₀	17.7	X	58.62874	305.24567	292.49644	2.89037	0.1086572	0.30832535	2.1700175	20	8 28.8	20.2
365870	2011	UO ₂₈₂	18.4	X	96.19381	314.90062	174.03061	2.96582	0.1118034	0.28259260	2.2998289	20	5 14.3	21.1
365871	2011	UN ₂₈₅	15.5	X	227.50281	208.34947	129.95438	15.91270	0.2368067	0.17496197	3.1659711	20	3 26.4	21.1
365872	2011	UC ₂₉₅	17.1	X	156.81693	205.66051	176.22870	4.42632	0.1028333	0.27472977	2.3435033	20	3 1.9	20.5
365873	2011	UT ₂₉₅	17.8	X	81.43053	258.30670	212.32413	0.89346	0.1386744	0.27378710	2.3488795	20	3 31.1	20.5
365874	2011	UH ₂₉₉	17.3	X	90.70284	227.97709	218.99243	7.41591	0.1855417	0.26768101	2.3844653	20	3 17.6	20.2
365875	2011	UV ₃₀₀	18.0	X	109.60943	271.15457	232.57335	3.16085	0.0959436	0.29463771	2.2367142	20	6 19.6	20.9
365876	2011	UN ₃₀₈	17.3	X	110.22439	350.73655	102.26905	5.74805	0.1592000	0.27535027	2.3399813	20	4 21.6	20.4
365877	2011	UE ₃₁₅	16.8	X	42.21316	279.73110	218.73793	22.67281	0.2112413	0.26458357	2.4030389	20	3 2.2	19.3
365878	2011	UO ₃₁₅	17.7	X	65.38473	305.70427	185.76154	4.91087	0.1023561	0.27378271	2.3489046	20	3 30.1	20.2
365879	2011	UC ₃₁₈	18.4	X	104.92897	13.18872	58.10500	1.75309	0.0819595	0.26808125	2.3820914	20	3 2.8	21.1
365880	2011	UF ₃₁₉	18.4	X	222.34999	255.98342	132.29422	0.29400	0.0855426	0.29443446	2.2377435	20	5 23.6	21.2
365881	2011	UA ₃₂₀	18.0	X	17.69001	33.46463	48.90327	4.86947	0.1808502	0.24206611	2.5498427	20	—	—
365882	2011	UO ₃₅₉	17.1	X	297.94458	283.84964	235.72929	10.11754	0.1038790	0.23714445	2.5850011	20	—	—
365883	2011	UP ₃₆₁	17.7	X	331.97895	194.43206	235.36008	1.21326	0.2726543	0.22373908	2.6872505	20	—	—
365884	2011	UU ₃₆₆	17.0	X	293.12155	189.15385	56.87954	7.37594	0.0792450	0.27749418	2.3279133	20	2 12.1	20.0
365885	2011	UM ₃₆₉	17.4	X	203.98900	324.19321	77.43344	7.76169	0.1190208	0.29102104	2.2552072	20	5 19.6	20.7
365886	2011	UL ₃₈₁	17.9	X	311.74629	291.86765	197.47164	5.45263	0.2048486	0.23313782	2.6145336	20	—	—
365887	2011	UC ₄₀₁	15.6	X	265.31209	179.61232	183.42257	13.43184	0.1656853	0.19009928	2.9955903	20	6 1.9	20.2
365888	2011	UK ₄₀₂	17.7	X	164.05557	130.21324	187.30888	21.65519	0.0903702	0.37061696	1.9194900	20	—	—
365889	2011	UF ₄₀₆	16.0	X	212.00805	201.47686	185.09757	11.14011	0.0521360	0.18135118	3.0911669	20	5 15.2	20.6
365890	2011	VB ₁₂	17.5	X	44.06961	146.94243	73.04347	4.06072	0.0985895	0.29370376	2.2414534	20	7 6.9	19.7
365891	2011	VV ₂₁	16.5	X	274.58551	106.08295	210.59605	9.06400	0.0565469	0.17525393	3.1624539	20	4 29.9	21.0
365892	2011	WK ₁	17.2	X	51.77274	170.07178	69.49766	7.46563	0.1696854	0.30092617	2.2054442	20	9 5.8	19.8
365893	2011	WB ₃	18.3	X	293.55848	321.72645	51.61178	3.51098	0.1892109	0.31319817	2.1474509	20	7 31.5	19.9
365894	2011	WJ ₁₀	18.2	X	53.78415	69.89412	71.26081	2.41910	0.1298125	0.27022461	2.3694785	20	3 29.8	20.5
365895	2011	WK ₁₃	15.5	X	168.08353	7.16268	74.00109	18.12677	0.1717664	0.17425087	3.1745786	20	6 3.5	20.7
365896	2011	WC ₁₆	16.1	X	1.26160	125.37636	233.20905	8.30201	0.2362517	0.21640983	2.7475866	20	11 21.4	18.8
365897	2011	WQ ₂₄	17.2	X	108.73180	197.74612	254.82921	5.96364	0.0546605	0.27347815	2.3506481	20	3 28.5	20.3
365898	2011	WK ₂₉	16.3	X	323.13556	49.15905	46.87418	22.65470	0.0467074	0.22803650	2.6533822	20	—	—
365899	2011	WY ₃₆	18.2	X	171.38600	44.59368	56.94091	6.92468	0.0530409	0.30094605	2.2053471	20	7 5.6	21.0
365900	2011	WM ₅₂	17.4	X	57.42084	144.31231	57.11112	5.16022	0.1014859	0.29045282	2.2581476	20	6 30.6	19.7
365901	2011	WS ₅₇	17.1	X	219.98753	304.05666	227.79594	6.88079	0.1559877	0.21493328	2.7601559	20	11 13.6	21.2
365902	2011	WM ₅₉	17.5	X	352.60496	248.80327	172.45274	1.79565	0.0616584	0.22775893	2.6555375	20	—	—
365903	2011	WH ₆₀	17.4	X	16.33241	54.79104	213.10249	3.79383	0.1742396	0.30364642	2.1922527	20	8 12.9	19.1
365904	2011	WG ₆₃	17.6	X	44.34529	77.01213	349.98151	0.70357	0.1664947	0.24527542	2.5275516	20	—	—
365905	2011	WP ₆₅	15.7	X	128.38664	244.19995	263.94727	12.41212	0.2361603	0.17149120	3.2085451	20	7 20.6	21.2
365906	2011	WY ₇₀	17.0	X	339.70259	226.11304	274.05467	4.39669	0.1111703	0.24432921	2.5340730	20	—	—
365907	2011	WC ₇₁	17.8	X	209.20368	6.91529	57.81251	5.92576	0.1081438	0.29796743	2.2200198	20	6 26.5	20.8
365908	2011	WC ₈₉	17.3	X	218.33499	80.07853	65.52059	7.22731	0.2392225	0.20049365	2.8911390	20	10 3.9	22.0
365909	2011	WD ₉₁	15.4	X	291.06803	291.40970	237.12475	26.71522	0.2143804	0.23207607	2.6225018	20	—	—
365910	2011	WG ₉₅	17.3	X	344.89819	263.92048	226.27073	11.0167						

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>		
365921	2011	YU ₁₇	17.2	X	40.84373	171.16183	274.93282	7.70901	0.1154582	0.24132390	2.5550682	20	—	—
365922	2011	YJ ₂₀	16.5	X	345.52881	149.30010	278.49694	5.28054	0.0097326	0.21555619	2.7548358	20	12 31.7	20.1
365923	2011	YV ₂₂	16.8	X	233.05353	93.18375	87.61048	8.64397	0.1592219	0.21108558	2.7935965	20	12 8.3	20.6
365924	2011	YQ ₃₃	17.0	X	162.79078	193.26399	57.48841	5.09021	0.0257447	0.21489831	2.7604553	20	12 29.5	20.8
365925	2011	YR ₃₃	16.4	X	42.79336	322.32247	95.88007	15.32652	0.0544589	0.23259025	2.6186354	20	—	—
365926	2011	YQ ₃₅	17.6	X	236.52600	277.44365	103.65485	7.65135	0.1279304	0.28567541	2.2832536	20	5 27.9	20.8
365927	2011	YU ₄₀	15.2	X	156.31214	30.28487	115.66531	27.32729	0.0986489	0.17471451	3.1689599	20	8 9.9	20.2
365928	2011	YY ₅₂	16.6	X	45.03314	107.05188	277.75094	8.03590	0.0728511	0.22458961	2.6804617	20	—	—
365929	2011	YH ₅₆	17.2	X	245.23175	178.94054	54.09085	2.76956	0.0913093	0.23447755	2.6045651	20	—	—
365930	2011	YS ₅₆	16.8	X	144.33811	122.48167	26.72167	1.09546	0.1202581	0.17389715	3.1788820	20	8 1.9	21.7
365931	2011	YN ₆₀	16.4	X	312.18071	236.65754	152.50011	6.36496	0.0653251	0.19078501	2.9884079	20	9 23.9	20.2
365932	2011	YV ₆₀	17.0	X	199.76473	207.91430	155.41623	7.15514	0.1284775	0.26622691	2.3931399	20	3 27.1	20.6
365933	2011	YR ₆₆	17.0	X	201.55734	329.76346	132.84628	15.45782	0.0872192	0.35378197	1.9799106	20	—	—
365934	2011	YI ₆₈	15.4	X	86.20620	90.04872	76.32075	12.03665	0.1059450	0.16181727	3.3351814	20	6 18.4	20.2
365935	2011	YT ₇₅	17.9	X	130.05028	282.91804	122.84233	25.24995	0.0874579	0.37123051	1.9173745	20	2 19.3	19.9
365936	2011	YF ₇₈	17.0	X	164.28937	334.04309	61.57091	7.56256	0.0920428	0.26484146	2.4014787	20	4 1.5	20.5
365937	2012	AB ₁	16.6	X	268.57573	229.78943	252.67945	22.57860	0.2526561	0.32101913	2.1124290	20	12 2.2	17.6
365938	2012	AF ₂	17.6	X	98.17677	331.63632	245.87154	3.56977	0.1328087	0.29678481	2.2259134	20	9 20.8	20.7
365939	2012	AW ₂	16.3	X	19.46107	278.27753	212.10676	14.50887	0.0705797	0.24321945	2.5417755	20	1 12.1	19.6
365940	2012	AA ₆	16.5	X	345.82749	346.54311	115.07309	14.33572	0.1146976	0.22683737	2.6627250	20	—	—
365941	2012	AO ₆	16.7	X	248.91638	273.65623	250.11962	3.12545	0.0494560	0.21158818	2.7891708	20	12 22.5	20.4
365942	2012	AE ₉	17.5	X	127.24236	294.51842	145.16795	6.70161	0.0696579	0.26463490	2.4027281	20	4 12.9	20.7
365943	2012	AJ ₁₂	16.0	X	312.36987	241.49251	135.11860	11.97236	0.0575903	0.19103779	2.9857712	20	9 9.5	19.9
365944	2012	AZ ₁₆	16.9	X	283.69166	48.39010	80.16222	8.84343	0.1706725	0.21469027	2.7622383	20	12 12.9	19.9
365945	2012	AC ₁₈	17.0	X	321.20068	355.72244	171.06966	7.46108	0.0591319	0.23720517	2.5845600	20	—	—
365946	2012	AH ₁₉	15.5	X	81.97990	97.99772	146.15973	10.11699	0.0326159	0.17805986	3.1291427	20	9 12.3	19.9
365947	2012	AN ₂₁	16.8	X	178.75883	321.03691	118.60373	23.73035	0.2015282	0.28561068	2.2835985	20	6 15.8	20.8
365948	2012	AV ₂₂	15.9	X	10.58645	242.43414	233.99688	27.09847	0.1500013	0.24248923	2.5468757	20	—	—
365949	2012	BS ₃	16.5	X	170.52603	31.94948	125.25186	2.52752	0.1415440	0.18547830	3.0451403	20	9 7.0	21.5
365950	2012	BJ ₄	16.6	X	319.74646	349.16562	117.51537	9.21729	0.0571086	0.22030770	2.7150819	20	—	—
365951	2012	BD ₈	17.1	X	118.19439	231.37284	345.91849	0.46882	0.0292784	0.18796530	3.0182202	20	9 21.8	21.3
365952	2012	BH ₉	16.0	X	244.75695	252.86739	163.28692	10.78640	0.0744896	0.17191378	3.2032850	20	7 23.8	20.7
365953	2012	BK ₉	16.4	X	81.06487	112.55180	160.90565	11.74663	0.0943058	0.18412297	3.0600656	20	10 27.9	21.0
365954	2012	BO ₁₀	15.6	X	176.32959	39.88585	152.97061	14.64805	0.0976007	0.18834909	3.0141188	20	10 30.6	20.5
365955	2012	BS ₁₁	15.7	X	109.48324	64.40904	133.84360	10.26274	0.0452898	0.17409442	3.1764802	20	8 19.3	20.2
365956	2012	BO ₁₄	16.5	X	68.60078	323.98234	82.29575	15.65699	0.0918689	0.23750352	2.5823950	20	—	—
365957	2012	BW ₁₄	16.8	X	211.10126	353.32481	121.76704	6.50997	0.1936680	0.18688482	3.0298423	20	8 21.8	21.7
365958	2012	BZ ₁₆	16.6	X	194.24453	96.20508	46.15871	2.60139	0.1100888	0.18451909	3.0556846	20	9 13.4	21.3
365959	2012	BB ₂₃	17.2	X	108.40185	312.52682	95.02813	3.48576	0.1790214	0.25390715	2.4699383	20	2 21.8	20.3
365960	2012	BE ₂₄	14.9	X	133.41232	47.24326	94.31938	15.97952	0.0779416	0.15659744	3.4088897	20	7 8.3	20.1
365961	2012	BU ₂₄	15.9	X	308.32071	321.88856	138.78178	14.04169	0.1464299	0.21171008	2.7881001	20	12 21.9	19.1
365962	2012	BB ₂₆	16.0	X	345.48677	30.84347	339.64842	9.97018	0.0529750	0.19384384	2.9568869	20	10 13.5	20.0
365963	2012	BG ₃₁	16.2	X	236.22977	274.98678	189.53206	8.60033	0.0289441	0.18425684	3.0585833	20	9 20.5	20.4
365964	2012	BK ₃₃	15.9	X	160.46480	119.19248	354.72700	4.74733	0.0675815	0.16800693	3.2527543	20	7 4.1	20.8
365965	2012	BS ₃₃	17.1	X	162.05790	322.70612	40.44943	3.50990	0.1756880	0.25662773	2.4524510	20	2 22.5	20.8
365966	2012	BU ₃₄	16.0	X	172.99922	295.90710	241.98930	11.82190	0.0766343	0.18810760	3.0166979	20	10 1.5	20.7
365967	2012	BU ₃₅	17.7	X	41.87664	192.78868	190.57117	1.79833	0.0917032	0.22226016	2.6991580	20	—	—
365968	2012	BU ₃₅	16.8	X	53.24692	244.87953	133.86310	6.13677	0.0705075	0.22385349	2.6863348	20	—	—
365969	2012	BT ₄₂	16.2	X	123.34570	265.68756	315.33155	8.66487	0.0461756	0.18942891	3.0026534	20	9 29.8	20.7
365970	2012	BT ₄₃	16.6	X	79.24753	246.76644	109.02870	6.22515	0.0107894	0.22074659	2.7114819	20	—	—
365971	2012	BM ₄₇	16.9	X	349.72156	174.13443	97.11907	7.47525	0.1225205	0.27609327	2.3357813	20	6 14.1	18.9
365972	2012	BL ₄₉	17.5	X	101.24578	59.40937	282.36340	4.24012	0.0763078	0.22587017	2.6703210	20	—	—
365973	2012	BM ₅₁	17.1	X	161.64431	37.66993	276.08606	2.95730	0.0649874	0.23329599	2.6133517	20	—	—
365974	2012	BV ₅₂	15.6	X	68.73137	126.89997	137.29289	14.47584	0.1233609	0.17487506	3.1670199	20	10 6.4	20.3
365975	2012	BM ₅₅	15.7	X	156.01591	51.19567	130.20458	11.95997	0.0313213	0.17894653	3.1187977	20	9 24.6	20.3
365976	2012	BT ₅₆	16.1	X	200.28625	108.28826	126.15098	9.88299	0.0943227	0.21605564	2.7505886	20	—	—
365977	2012	BJ ₆₈	17.1	X	303.10193	315.28911	158.98529	4.34304	0.0527501	0.21328017	2.7743999	20	—	—
365978	2012	BC ₇₀	16.0	X	13.51984	203.49192	97.07652	5.06510	0.0387165	0.17731136	3.1379427	20	8 26.4	20.2
365979	2012	BT ₇₀	16.7	X	223.84894	18.13926	39.69985	0.29559	0.1489621	0.17244608	3.1966898	20	6 26.4	21.7
365980	2012	BY ₇₀	15.9	X	193.14815	336.29492	125.51418	11.59701	0.1738158	0.17457660	3.1706285	20	7 19.9	21.2
365981	2012	BZ ₇₀	17.0	X	17.35558	122.52606	113.26408	4.53793	0.0375954	0.22521571	2.6754916	20	—	—
365982	2012	BT ₇₂	16.4	X	37.67957	273.50996	214.36232	10.02598	0.0602737	0.22005779	2.7171371	20	—	—
365983	2012	BN ₇₃	15.7	X	118.66803	58.38453	131.55580	27.59567	0.1960897	0.17230468	3.1984384	20	9 3.0	21.1
365984	2012	BX ₇₃	16.2	X	171.88088	130.71879	141.11474	12.02881	0.0719412	0.21984497	2.7188904	20	—	—
365985	2012	BF ₇₄	17.1	X	176.84452	214.69036	146.66845	4.95944	0.1959512	0.25980096	2.4324404	20	3 4.4	20.9
365986	2012	BJ ₇₆	17.4	X	344.52644	287.08899	322.79285	4.41347	0.0829740	0.26498296	2.4006237	20	5 1.0	19.9
365987	2012	BM ₈₁	16.1	X	211.81604	349.29028	125.53452	10.58208	0.1040650	0.18457637	3.0550523	20	8 30.1	20.7
365988	2012	BG ₈₃	16.1	X	225.33906	338.87590	104.74411	6.22772	0.1118855	0.18018799	3.1044559	20	8 3.5	20.7
365989	2012	BS ₈₄	17.4	X	275.07012	30.42370	117.44842	4.58452	0.0362336	0.21398397	2.7683132	20	—	—
365990	2012	BT ₈₇	16.2	X	53.62817	351.72510	98.26795	15.60173	0.0655979	0.24040715	2.561			

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>	
366001	2012 BT ₁₀₀	16.8	X	175.97336	112.58290	104.60983	3.24257	0.0107284	0.20327096	2.8647440	20	12 2.5	20.8
366002	2012 BB ₁₀₁	16.8	X	338.04053	199.36168	219.92533	5.10445	0.0298607	0.20149345	2.8815672	20	12 9.2	20.6
366003	2012 BJ ₁₀₂	16.4	X	161.28958	76.03646	114.25965	5.88480	0.1418929	0.19046898	2.9917126	20	10 10.8	21.3
366004	2012 BV ₁₀₂	17.0	X	298.85524	44.00989	86.02774	5.12960	0.0617648	0.21832231	2.7315174	20	—	—
366005	2012 BO ₁₀₃	16.7	X	332.12251	20.94429	74.41132	7.04759	0.0351495	0.21642718	2.7474398	20	—	—
366006	2012 BF ₁₀₇	16.0	X	20.15568	150.08541	137.41474	6.70349	0.0697677	0.17155189	3.2077883	20	8 19.4	20.0
366007	2012 BB ₁₀₉	15.8	X	99.42121	107.73238	125.18287	16.49380	0.1942405	0.17531364	3.1617359	20	10 10.6	21.1
366008	2012 BQ ₁₀₉	16.1	X	82.61515	114.26151	123.88576	10.53573	0.0756146	0.17632026	3.1496907	20	9 12.8	20.7
366009	2012 BA ₁₁₃	15.8	X	169.24034	13.20689	155.04767	11.34823	0.0342346	0.18096823	3.0955262	20	9 21.7	20.3
366010	2012 BQ ₁₁₈	16.6	X	154.33960	170.57987	122.77286	7.04542	0.1237806	0.22068561	2.7119814	20	—	—
366011	2012 BY ₁₂₀	16.6	X	42.94861	312.73112	142.73751	22.62885	0.0794478	0.24047255	2.5610951	20	1 6.6	19.9
366012	2012 BR ₁₂₆	17.4	X	116.93090	286.14204	161.29877	7.06683	0.1340673	0.26290022	2.4132858	20	4 18.9	20.7
366013	2012 BU ₁₂₆	15.6	X	57.55905	172.42885	138.69186	12.54037	0.0412784	0.18808642	3.0169244	20	11 9.9	20.0
366014	2012 BP ₁₂₇	15.6	X	102.69414	70.03466	125.85855	16.19099	0.0168472	0.17916643	3.1162453	20	8 4.6	20.0
366015	2012 BH ₁₂₈	16.1	X	163.91283	191.35982	303.67786	7.26767	0.1168655	0.16917007	3.2378274	20	8 2.6	21.1
366016	2012 BK ₁₂₈	16.2	X	170.52340	353.34486	169.22718	7.27336	0.0475733	0.17856439	3.1232457	20	9 13.9	20.8
366017	2012 BW ₁₂₉	15.5	X	157.51477	51.19834	127.34737	27.78595	0.1268383	0.18130658	3.0916738	20	9 26.9	20.8
366018	2012 BZ ₁₂₉	16.4	X	216.56110	174.06941	109.80090	10.60150	0.1074883	0.23576415	2.5950808	20	1 6.9	20.3
366019	2012 BC ₁₃₀	16.8	X	357.19630	300.46170	153.94488	6.46519	0.1092284	0.22501932	2.6770481	20	—	—
366020	2012 BL ₁₃₀	15.9	X	177.24836	53.82305	96.31640	10.08076	0.0205056	0.18210586	3.0826208	20	9 12.0	20.4
366021	2012 BP ₁₃₀	16.7	X	168.02662	273.90181	106.61693	14.41976	0.0865726	0.25647031	2.4534544	20	3 20.5	20.5
366022	2012 BR ₁₃₃	15.5	X	174.89361	54.25260	99.35985	10.94614	0.0223953	0.18203092	3.0834668	20	9 13.8	20.1
366023	2012 BZ ₁₃₃	16.0	X	265.11543	63.93407	91.28918	18.35362	0.0927598	0.21159732	2.7890905	20	12 27.5	19.3
366024	2012 BE ₁₃₅	16.5	X	150.67101	90.33849	87.34022	5.41272	0.1050206	0.18172290	3.0869501	20	9 14.5	21.3
366025	2012 BC ₁₃₆	17.2	X	197.41095	263.33835	67.65686	4.51585	0.0404654	0.25292236	2.4763455	20	2 12.8	20.6
366026	2012 BR ₁₃₈	16.2	X	134.52332	26.42752	162.27524	5.58172	0.0842996	0.17996437	3.1070271	20	9 7.9	21.0
366027	2012 BD ₁₃₉	16.1	X	150.89360	357.98734	161.49847	9.22741	0.0343244	0.17398144	3.1778552	20	8 16.9	20.8
366028	2012 BR ₁₃₉	16.9	X	96.52895	223.00161	121.16696	7.09521	0.0453259	0.21809384	2.7334247	20	—	—
366029	2012 BU ₁₃₉	16.1	X	161.77624	68.83622	74.11081	6.73372	0.1050144	0.17394377	3.1783139	20	8 13.0	21.1
366030	2012 BA ₁₄₃	16.5	X	334.37899	117.16282	252.69405	0.91322	0.0381034	0.18929731	3.0040449	20	9 29.7	20.3
366031	2012 BX ₁₄₃	16.2	X	205.24042	156.91676	91.11967	12.89904	0.1047837	0.22347724	2.6893491	20	—	—
366032	2012 BV ₁₄₄	17.0	X	103.95272	5.41433	272.32445	0.90232	0.0312779	0.19796842	2.9156727	20	11 20.4	21.1
366033	2012 BO ₁₄₇	16.7	X	188.06238	303.35884	322.88361	5.46227	0.0550621	0.22334360	2.6904218	20	—	—
366034	2012 BO ₁₄₈	17.1	X	347.43737	261.87054	167.49970	5.05094	0.1424976	0.21501538	2.7594532	20	—	—
366035	2012 BC ₁₄₉	16.0	X	36.68966	179.21898	143.39722	10.67820	0.0207590	0.18858770	3.0115758	20	10 25.8	20.3
366036	2012 BF ₁₄₉	15.8	X	113.67362	157.53501	100.84855	5.02074	0.0885650	0.18848503	3.0126694	20	11 11.9	20.4
366037	2012 BZ ₁₄₉	15.9	X	251.13568	274.95679	163.41405	11.63067	0.0739877	0.18115144	3.0934387	20	8 30.5	20.1
366038	2012 BC ₁₅₁	16.5	X	224.05519	67.50020	47.98278	2.91279	0.2182080	0.18746896	3.0235452	20	9 1.3	21.3
366039	2012 BZ ₁₅₁	17.1	X	104.52238	261.57201	98.92988	5.25312	0.1192865	0.23571272	2.5954582	20	—	—
366040	2012 BX ₁₅₂	16.2	X	198.90094	289.92193	214.13207	4.28266	0.1313659	0.18332068	3.0689871	20	9 16.0	21.1
366041	2012 CX	16.2	X	112.96064	228.80512	137.66828	15.47138	0.1209802	0.23204078	2.6227678	20	—	—
366042	2012 CS ₁	16.6	X	101.14400	35.52938	314.02227	4.24767	0.0811873	0.22119350	2.7078284	20	—	—
366043	2012 CJ ₅	15.8	X	213.96709	345.58835	100.10666	11.11956	0.1913539	0.17557958	3.1585424	20	7 18.4	21.0
366044	2012 CL ₅	16.4	X	54.36940	14.34165	63.85178	10.41745	0.1413912	0.23929561	2.5694858	20	1 5.3	19.1
366045	2012 CO ₅	15.4	X	162.46741	22.94474	109.35911	19.52739	0.1259708	0.16978826	3.2299634	20	7 30.1	20.6
366046	2012 CR ₇	15.6	X	70.17258	331.77189	305.35985	8.69554	0.1552350	0.18294177	3.0732324	20	10 20.2	20.2
366047	2012 CX ₇	17.1	X	341.21828	243.08307	200.86345	2.95518	0.0674958	0.21473127	2.7618867	20	—	—
366048	2012 CY ₈	17.1	X	197.54255	285.44917	324.75521	1.76131	0.0277318	0.21896861	2.7261399	20	—	—
366049	2012 CJ ₉	16.4	X	75.27542	275.54033	323.68618	4.95417	0.0362213	0.17451663	3.1713549	20	8 26.6	20.9
366050	2012 CZ ₁₀	16.1	X	115.00018	72.09454	131.01695	12.46495	0.0250527	0.17589275	3.1547922	20	8 31.3	20.6
366051	2012 CA ₁₁	16.5	X	101.71343	154.59325	93.32854	2.84477	0.1666726	0.18082974	3.0971065	20	10 23.4	21.4
366052	2012 CD ₁₁	16.6	X	336.57585	323.27889	119.55357	5.54075	0.0502503	0.21150722	2.7898825	20	—	—
366053	2012 CZ ₁₂	16.2	X	17.47640	245.27254	94.38481	2.34802	0.0497383	0.18797689	3.0180962	20	10 22.6	20.2
366054	2012 CP ₁₃	15.5	X	174.01650	33.08256	133.77474	11.60968	0.1270897	0.18094631	3.0957763	20	9 24.5	20.5
366055	2012 CS ₁₃	15.9	X	41.92771	236.15515	61.53613	3.76304	0.0183762	0.18106424	3.0944318	20	9 27.6	20.2
366056	2012 CP ₁₆	15.4	X	50.26534	145.59249	135.15691	12.48806	0.0503540	0.17821777	3.1272940	20	9 22.8	19.8
366057	2012 CD ₁₉	15.8	X	227.64226	34.68102	100.27384	13.11529	0.0789313	0.19245912	2.9710529	20	10 20.0	20.3
366058	2012 CA ₂₅	15.8	X	73.70778	12.55190	272.29325	8.01692	0.1238661	0.18447944	3.0561223	20	10 31.6	20.4
366059	2012 CX ₂₅	16.0	X	123.45701	51.69506	193.81921	9.18720	0.0151686	0.19113366	2.9847727	20	11 2.8	20.2
366060	2012 CH ₂₈	17.6	X	336.07652	356.30613	272.85095	1.80778	0.2153310	0.26477191	2.4018992	20	4 30.0	19.7
366061	2012 CG ₂₉	16.0	X	293.38210	213.08450	249.63039	8.20051	0.0972578	0.20503960	2.8482464	20	11 29.5	19.3
366062	2012 CF ₃₀	16.0	X	267.83932	20.51188	85.86212	11.76913	0.0231199	0.19940460	2.9016560	20	11 9.4	20.0
366063	2012 CF ₃₂	16.8	X	34.67787	216.16978	176.77526	6.37735	0.0306713	0.21407322	2.7675437	20	—	—
366064	2012 CO ₃₃	16.9	X	76.03109	173.62190	253.90006	2.00475	0.1160261	0.24083429	2.5585299	20	1 23.5	19.7
366065	2012 CP ₃₅	16.5	X	49.31522	345.72589	326.15775	3.25817	0.0598100	0.18939652	3.0029957	20	10 28.7	20.6
366066	2012 CV ₃₅	17.7	X	245.48917	216.19985	145.90665	6.74162	0.2322245	0.27967882	2.3157749	20	5 2.9	21.3
366067	2012 CK ₃₆	16.6	X	241.83657	243.76253	212.53135	7.66663	0.1607287	0.18629449	3.0362397	20	8 28.6	21.3
366068	2012 CK ₃₇	16.2	X	207.73323	242.44120	267.85998	6.86702	0.0994431	0.19126846	2.9833701	20	10 4.2	20.8
366069	2012 CC ₃₈	16.4	X	32.20668	330.36974	98.22089	6.59873	0.0513777	0.22531900	2.6746739	20	—	—
366070	2012 CL ₃₈	16.0	X	229.42179	0.87198	106.38506	8.54565	0.1241690	0.18603735	3.0390368	20	9 8.1	20.6
366071	2012 CF ₃₉	17.1	X	137.19518	123.47340	146.59783	7.06189	0.0203974	0.20590522	2.8402582	20	12 21.3	21.2
366072	2012 CK ₃₉	15.7	X	85.63744	295.23704	321.							

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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>
366081 2012 CC ₄₃	16.0	X	237.97879	350.07609	72.33311	6.12248	0.0967036	0.17538595	3.1608667	20	7 23.6	20.6
366082 2012 CE ₄₃	16.0	X	172.09984	77.01920	74.55949	10.65444	0.1316410	0.17884622	3.1199637	20	9 5.8	21.1
366083 2012 CF ₄₃	16.3	X	169.05857	41.60215	120.94284	4.78642	0.0695125	0.18430453	3.0580556	20	9 14.2	20.9
366084 2012 CB ₄₄	16.3	X	225.22517	202.96542	233.59134	5.05148	0.0729307	0.17427970	3.1742285	20	7 26.8	21.1
366085 2012 CM ₄₅	16.6	X	348.51680	341.69459	154.02455	16.17420	0.0818645	0.22881480	2.6473618	20	—	—
366086 2012 CS ₄₅	16.3	X	96.17435	117.55234	145.38552	6.25159	0.1113411	0.18519833	3.0482086	20	11 1.6	20.9
366087 2012 CC ₄₆	16.8	X	132.28505	199.05030	147.78557	6.75228	0.0794580	0.22591451	2.6699715	20	—	—
366088 2012 CD ₄₆	15.7	X	335.83403	210.50905	150.17550	10.30550	0.0709890	0.17929047	3.1148077	20	9 20.4	19.7
366089 2012 CF ₄₆	15.8	X	16.56766	168.38000	147.64647	9.99596	0.0713082	0.17590266	3.1546737	20	9 22.7	19.9
366090 2012 CR ₄₇	16.2	X	195.10138	130.39341	146.14304	13.49147	0.1127187	0.21846532	2.7303252	20	—	—
366091 2012 CN ₄₈	16.2	X	141.93367	139.80183	55.02427	6.63187	0.0444976	0.18390156	3.0625212	20	9 25.1	20.7
366092 2012 CE ₅₁	16.4	X	144.43149	326.86106	252.64456	1.96594	0.0565895	0.18716782	3.0267875	20	10 25.1	20.9
366093 2012 CQ ₅₁	16.3	X	114.39492	235.78845	161.11257	12.35126	0.0345753	0.23834493	2.5763138	20	1 24.6	19.8
366094 2012 CG ₅₂	16.1	X	138.34558	25.75041	157.07694	10.77587	0.0782657	0.17519141	3.1632063	20	9 4.1	20.9
366095 2012 CL ₅₄	17.1	X	331.76450	339.89981	123.86163	11.64973	0.2089028	0.21861596	2.7290708	20	—	—
366096 2012 CQ ₅₅	16.6	X	255.93661	313.98131	107.71039	2.32961	0.1132583	0.18005434	3.1059919	20	8 10.5	20.9
366097 2012 CX ₅₆	16.1	X	70.81696	27.54598	50.23131	15.82028	0.0950040	0.24471237	2.5314271	20	1 31.7	19.4
366098 2012 CG ₅₇	15.2	X	40.12350	126.23822	148.67155	21.95485	0.0588922	0.17630279	3.1498988	20	8 30.9	19.4
366099 2012 DA ₅	17.3	X	326.68338	118.13782	144.69788	2.84922	0.1655274	0.25777482	2.4451700	20	4 11.7	19.7
366100 2012 DG ₇	16.7	X	96.77016	221.85776	131.96112	6.78215	0.0322031	0.21770711	2.7366608	20	—	—
366101 2012 DR ₇	15.9	X	214.14732	9.07193	128.79955	11.50834	0.0313197	0.18485545	3.0519767	20	10 10.6	20.4
366102 2012 DL ₉	16.0	X	175.75274	338.50324	143.97710	12.18931	0.0651922	0.16823823	2.6497722	20	7 30.1	20.8
366103 2012 DF ₁₁	16.8	X	234.34420	84.26740	135.97920	5.87565	0.0488237	0.22310468	2.9232422	20	—	—
366104 2012 DP ₁₁	16.1	X	53.65701	129.42908	161.20693	9.83709	0.0753541	0.17981298	3.1087707	20	10 12.1	20.4
366105 2012 DE ₁₃	16.0	X	190.88626	40.27004	63.35921	28.92860	0.2377162	0.17069060	3.2185701	20	7 19.4	21.9
366106 2012 DZ ₁₅	15.5	X	309.15391	295.26947	122.37761	10.84657	0.0171198	0.18948394	3.0020720	20	11 1.3	19.8
366107 2012 DG ₁₇	15.0	X	120.22092	24.74488	126.70792	8.17422	0.0853375	0.15395608	3.4477689	20	7 6.5	20.2
366108 2012 DR ₂₂	16.6	X	300.32846	281.11775	175.32380	9.40384	0.0263187	0.19819421	2.9134578	20	12 5.9	20.7
366109 2012 DT ₂₂	15.8	X	178.62795	336.86261	173.97076	10.92889	0.1695170	0.17642018	3.1485013	20	9 3.7	21.0
366110 2012 DE ₂₃	15.5	X	227.78035	301.55535	174.49796	16.29298	0.1131498	0.18256333	3.0774690	20	9 13.2	20.1
366111 2012 DJ ₂₆	15.6	X	163.14575	7.95624	174.43593	16.77796	0.1250239	0.18054242	3.1003915	20	9 30.5	20.5
366112 2012 DP ₂₆	16.4	X	297.75508	317.21147	168.62449	25.45921	0.0941903	0.21010376	2.8022927	20	—	—
366113 2012 DV ₂₇	15.9	X	144.03857	32.86878	159.24672	12.68013	0.0863309	0.17765095	3.1339425	20	9 23.3	20.7
366114 2012 DF ₂₈	15.3	X	333.20582	289.48908	95.62988	9.74962	0.0435324	0.18247969	3.0784093	20	10 21.5	19.5
366115 2012 DH ₃₀	15.4	X	25.81388	151.71623	164.70743	15.93020	0.0296335	0.17380938	3.1799521	20	9 30.9	19.8
366116 2012 DM ₃₀	15.9	X	272.66352	240.09606	155.22207	10.45034	0.1664393	0.17856985	3.1231820	20	7 19.4	20.4
366117 2012 DS ₃₁	16.5	X	155.10465	187.84469	113.27500	3.43206	0.0514356	0.21253015	2.7809234	20	—	—
366118 2012 DM ₃₃	15.5	X	224.94432	297.29413	165.84573	17.5891	0.1457817	0.17742045	3.1366563	20	8 21.5	20.4
366119 2012 DP ₃₃	15.3	X	318.96582	318.89678	34.49128	13.43007	0.0246396	0.16831639	3.2487662	20	8 23.6	20.0
366120 2012 DZ ₃₃	16.5	X	124.94900	94.07959	147.28420	6.38357	0.1139739	0.18629170	3.0362699	20	11 4.8	21.3
366121 2012 DB ₄₄	16.0	X	221.85619	39.07583	70.44929	10.08750	0.0318642	0.17563470	3.1578815	20	9 13.9	20.7
366122 2012 DR ₄₇	15.8	X	195.41290	311.26115	168.82628	27.71579	0.1386323	0.17296624	3.1902777	20	8 12.9	21.1
366123 2012 DA ₅₂	15.8	X	68.61235	116.17471	148.34144	1.81959	0.1636222	0.17201456	3.2020338	20	10 7.4	20.5
366124 2012 DN ₅₂	16.3	X	262.00398	278.01227	166.22118	12.55380	0.1222193	0.18662533	3.0326502	20	9 15.4	20.5
366125 2012 DE ₅₇	18.2	X	245.88798	255.34343	232.75622	2.20446	0.0249456	0.31015408	2.1614792	20	11 30.6	20.4
366126 2012 DT ₅₇	18.1	X	285.36062	168.81598	239.78183	1.67620	0.1444415	0.30111624	2.2045160	20	9 15.7	20.1
366127 2012 DS ₅₈	16.1	X	67.25696	175.18588	153.58557	11.00126	0.1073016	0.19234672	2.9722102	20	12 18.5	20.6
366128 2012 DP ₆₀	15.4	X	131.29107	43.22208	149.78410	13.98676	0.0413241	0.17328201	3.1864008	20	9 7.4	20.1
366129 2012 DJ ₆₂	16.2	X	197.82738	271.29837	227.75202	8.55399	0.1251355	0.18154264	3.0889932	20	9 7.0	21.3
366130 2012 DR ₆₃	16.2	X	352.67132	187.53869	150.28680	7.44168	0.1109513	0.18237241	3.0796164	20	9 17.5	20.0
366131 2012 DV ₆₃	17.1	X	95.08746	176.89716	177.61927	2.55818	0.0884975	0.22223477	2.6993635	20	—	—
366132 2012 DT ₆₄	16.7	X	184.88666	52.13438	126.95193	2.13584	0.0162725	0.18644531	3.0346020	20	10 24.3	21.0
366133 2012 DT ₆₇	17.4	X	39.91733	319.88472	311.95962	2.75518	0.1478745	0.28649978	2.2788716	20	9 23.7	19.9
366134 2012 DF ₆₈	15.9	X	99.89673	107.60209	158.69916	11.53640	0.1761712	0.18580292	3.0415925	20	11 15.4	20.9
366135 2012 DZ ₇₁	16.1	X	271.50626	157.66948	281.79235	7.37587	0.0838834	0.18761963	3.0219263	20	9 22.9	20.3
366136 2012 DF ₇₅	16.7	X	69.95153	195.87655	165.45379	5.68365	0.0858490	0.21114822	2.7930439	20	—	—
366137 2012 DY ₇₇	15.5	X	202.33215	173.60886	58.43975	9.91733	0.1513844	0.20386896	2.8591392	20	—	—
366138 2012 DR ₇₈	16.3	X	7.51409	7.42832	41.63259	15.41312	0.2118852	0.21727067	2.7403244	20	—	—
366139 2012 DD ₈₂	16.5	X	310.96612	218.22806	332.25179	5.56104	0.0861907	0.22931101	2.6435414	20	—	—
366140 2012 DS ₈₇	17.0	X	111.97445	270.22574	275.27126	7.78731	0.0253406	0.28188787	2.3036604	20	8 10.0	19.9
366141 2012 DJ ₉₀	16.3	X	141.39888	183.34279	147.82136	14.57004	0.1055206	0.22335764	2.6903091	20	—	—
366142 2012 DM ₉₀	16.5	X	94.18315	244.17140	147.23104	12.22688	0.0689599	0.23024786	2.6363657	20	—	—
366143 2012 DN ₉₁	17.3	X	48.49869	242.22336	148.76948	3.25859	0.1004611	0.21557530	2.7546730	20	—	—
366144 2012 DQ ₉₆	16.4	X	276.70062	292.09154	144.89589	10.44983	0.1564133	0.18914875	3.0056177	20	9 23.3	20.3
366145 2012 DP ₉₇	15.6	X	111.06851	71.29848	135.55063	12.08490	0.0321017	0.16982033	3.2295568	20	8 30.9	20.2
366146 2012 DK ₉₈	15.7	X	14.26705	329.76322	98.13654	26.83189	0.1415230	0.21980200	2.7192447	20	—	—
366147 2012 EP ₂	16.6	X	179.78832	14.64527	137.90474	2.10631	0.1002611	0.17769687	3.1334026	20	9 10.3	21.3
366148 2012 EV ₂	15.5	X	210.36776	352.05495	158.66587	10.43638	0.0565404	0.18668488	3.0320053	20	10 17.5	20.0
366149 2012 EC ₄	15.6	X	55.48363	137.01971	167.33081	15.77121	0.0870010	0.17786468	3.1314315	20	11 2.7	20.2
366150 2012 EC ₇	17.2	X	107.45392	358.83575	247.28079	6.94473	0.0949115	0.29602612	2.2297150	20	11 6.6	20.4
366151 2012 EY ₇	15.2	X	119.14928	110.11340	102.15913	10.38433	0.0535107	0.17459674	3.1703846	20	9 22.1	20.0
366152 2012 EF ₁₁	16.0	X	298.42512	258.38817	172.36789	13.67162	0.1669002	0.19039110	2.9925284	20	10 17.9	19.6
366153 2012 EL ₁₁	16.1	X	272.25760	300.10004	143.03897	11.20241	0.0886430	0.18966965	3.0001122	20	10 6.2	20.2
366154 2012 EK ₁₅	15.9	X	25									

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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>
366161 2012 <i>FB</i> ₂₃	16.1	X	190.63773	254.45833	95.82234	14.67814	0.2191955	0.24348349	2.5399375	20	3 9.8	20.7
366162 2012 <i>FU</i> ₂₅	16.2	X	148.49044	297.71763	18.66814	4.42186	0.0986869	0.21165556	2.7885788	20	—	—
366163 2012 <i>FQ</i> ₃₄	15.0	X	297.65505	200.71846	169.25186	12.42237	0.0796188	0.15987582	3.3621276	20	7 31.3	19.6
366164 2012 <i>FU</i> ₄₃	16.0	X	208.76893	139.53789	131.16994	13.72690	0.1227646	0.21205215	2.7851009	20	—	—
366165 2012 <i>FP</i> ₄₈	15.9	X	23.91215	166.94411	167.51988	9.91703	0.0912602	0.17983800	3.1084823	20	10 29.8	20.1
366166 2012 <i>FR</i> ₅₈	15.9	X	22.86434	178.96835	164.32127	11.08683	0.0805877	0.17760561	3.1344759	20	11 6.9	20.2
366167 2012 <i>FH</i> ₆₈	16.1	X	358.58369	234.26754	132.98329	7.88742	0.0983877	0.18178323	3.0862671	20	11 5.1	20.1
366168 2012 <i>FY</i> ₇₅	15.2	X	263.14469	240.61116	197.20083	8.75695	0.0522577	0.17707966	3.1406794	20	9 15.5	19.7
366169 2012 <i>FS</i> ₇₆	17.1	X	305.37435	6.27244	196.76271	4.27489	0.1974568	0.22638700	2.6662552	20	—	—
366170 2012 <i>FV</i> ₇₉	15.9	X	65.97953	137.44204	171.26069	11.57937	0.0990811	0.18286213	3.0741156	20	11 21.7	20.5
366171 2012 <i>FS</i> ₈₁	15.6	X	97.76271	183.94019	95.47157	10.58451	0.0685502	0.18206206	3.0831151	20	11 18.5	20.2
366172 2012 <i>FX</i> ₈₁	15.8	X	174.08946	226.40911	74.81913	12.43027	0.0441644	0.21659812	2.7459941	20	—	—
366173 2012 <i>FY</i> ₈₂	15.8	X	213.26310	283.70602	191.70454	15.17364	0.1820337	0.17906791	3.1173881	20	8 20.1	21.0
366174 2012 <i>FG</i> ₈₃	15.7	X	240.22220	358.85450	98.84213	12.66110	0.1249310	0.18319463	3.0703948	20	9 9.9	20.4
366175 2012 <i>FP</i> ₈₃	15.8	X	53.34785	311.00548	134.71519	32.07743	0.2039093	0.23250153	2.6193016	20	1 21.9	18.5
366176 2012 <i>GN</i> ₄	16.4	X	325.55211	87.47793	49.90912	5.89596	0.0596793	0.21325137	2.7746497	20	—	—
366177 2012 <i>GH</i> ₂₄	16.6	X	347.64611	314.33462	223.16794	5.11337	0.2360135	0.23298752	2.6156579	20	1 8.5	19.4
366178 2012 <i>GL</i> ₂₉	18.0	X	158.20978	296.02212	192.03990	2.30797	0.1569424	0.27643397	2.3338616	20	7 25.6	21.6
366179 2012 <i>GE</i> ₃₄	16.8	X	339.35333	2.69346	207.35826	6.11516	0.0791384	0.23883277	2.5728044	20	2 28.5	20.0
366180 2012 <i>GR</i> ₃₉	17.2	X	69.41912	300.33534	281.03978	3.16065	0.1552701	0.27115839	2.3640356	20	8 22.9	20.2
366181 2012 <i>HJ</i> ₆	15.7	X	249.61456	82.71947	63.17353	8.64714	0.0581537	0.18702962	3.0282783	20	11 24.2	19.9
366182 2012 <i>HA</i> ₉	15.5	X	61.10875	239.66178	104.28511	10.55515	0.1131225	0.18436640	3.0573714	20	12 27.9	19.8
366183 2012 <i>HD</i> ₉	15.9	X	103.79428	178.51648	93.67479	11.51306	0.0526200	0.17592717	3.1543807	20	11 14.6	20.6
366184 2012 <i>HE</i> ₉	16.2	X	279.11425	125.81386	121.57060	9.72531	0.0402695	0.23272328	2.6176375	20	2 5.4	19.7
366185 2012 <i>HN</i> ₁₁	15.7	X	108.84110	194.31640	141.31843	7.35792	0.0611544	0.20030187	2.8929841	20	—	—
366186 2012 <i>HE</i> ₂₆	15.0	X	7.90689	166.82710	152.47925	14.16819	0.3016629	0.14479366	3.5917244	20	10 3.1	18.7
366187 2012 <i>HU</i> ₂₇	17.2	X	278.38833	135.42808	164.34685	4.41220	0.0973936	0.23973554	2.5663415	20	4 3.9	20.5
366188 2012 <i>HU</i> ₃₆	15.9	X	79.53013	223.62725	122.27590	11.47894	0.0978848	0.18798294	3.0180314	20	—	—
366189 2012 <i>HF</i> ₃₇	15.5	X	47.62903	257.62984	67.69115	10.08813	0.0779501	0.17460124	3.1703302	20	11 14.2	19.9
366190 2012 <i>HF</i> ₃₇	15.3	X	154.47961	17.90867	219.89409	16.80591	0.1551216	0.17647102	3.1478966	20	11 24.6	20.5
366191 2012 <i>HK</i> ₄₂	17.9	X	167.54627	52.27222	113.90443	2.04763	0.0840735	0.28764685	2.2728091	20	9 28.9	20.8
366192 2012 <i>HM</i> ₄₈	15.7	X	104.76632	223.21617	145.36626	13.14465	0.1182545	0.20378204	2.8599523	20	—	—
366193 2012 <i>HT</i> ₄₉	16.6	X	112.69724	163.15997	128.87244	2.31177	0.1493950	0.18004420	3.1061086	20	12 20.6	21.5
366194 2012 <i>HD</i> ₅₇	15.6	X	136.74577	57.10282	189.08571	15.99337	0.0742278	0.17671732	3.1449709	20	11 18.8	20.6
366195 2012 <i>HS</i> ₅₈	16.7	X	28.66389	20.86414	77.95471	6.02807	0.0270570	0.21630996	2.7484323	20	—	—
366196 2012 <i>HE</i> ₈₂	15.7	X	141.21222	71.80470	190.33930	16.35453	0.0559814	0.18414752	3.0597936	20	12 11.8	20.5
366197 2012 <i>JW</i> ₁	16.0	X	156.02388	58.86170	168.14232	10.89797	0.0492151	0.17797389	3.1301502	20	11 16.9	20.8
366198 2012 <i>JR</i> ₁₉	15.9	X	121.17662	215.96185	79.34791	9.13045	0.0836991	0.18353875	3.0665558	20	12 30.0	20.5
366199 2012 <i>JL</i> ₂₆	14.7	X	78.17702	185.77449	130.87758	29.07347	0.1586533	0.17488079	3.1669507	20	12 21.4	19.9
366200 2012 <i>KT</i> ₁	16.3	X	147.15146	238.12292	104.56757	6.31219	0.0838428	0.21188099	2.7866005	20	1 8.8	20.3
366201 2012 <i>KH</i> ₂₃	15.1	X	30.95955	187.12777	139.25447	16.52280	0.093510	0.15872231	3.3783974	20	10 24.5	20.0
366202 2012 <i>LY</i> ₁₅	16.4	X	163.50805	85.76268	133.27515	3.19827	0.0784818	0.17072395	3.2181510	20	11 12.2	21.3
366203 2012 <i>PQ</i> ₁₃	15.5	X	185.10686	310.66547	334.13201	21.41238	0.1036025	0.17377841	3.1803299	20	—	—
366204 2012 <i>QZ</i> ₃₁	15.9	X	19.22667	267.27234	324.15806	12.85343	0.0654109	0.22192026	2.7019133	20	6 3.6	19.5
366205 2012 <i>RX</i> ₇	16.2	X	316.74049	359.59278	295.42346	12.45577	0.1603833	0.22845807	2.6501170	20	5 8.7	19.6
366206 2012 <i>RX</i> ₁₁	15.6	X	130.94186	74.66420	284.81886	8.43083	0.0895365	0.17783069	3.1318304	20	1 16.3	20.1
366207 2012 <i>RJ</i> ₂₄	17.3	X	341.72197	27.13313	16.68505	5.03778	0.1433194	0.25750694	2.4468655	20	12 20.2	19.8
366208 2012 <i>RW</i> ₂₈	17.0	X	5.93052	234.56477	107.07729	4.20459	0.1745778	0.25660486	2.4525966	20	11 9.8	19.5
366209 2012 <i>SZ</i> ₁₂	17.7	X	129.22743	268.54419	33.95297	3.73918	0.1739940	0.28563548	2.2834663	20	—	—
366210 2012 <i>SX</i> ₅₉	15.9	X	128.99564	233.43122	168.51586	9.13216	0.1157461	0.18441989	3.0567802	20	3 7.0	20.4
366211 2012 <i>TF</i> ₁₃	17.0	X	315.80523	228.86020	133.16516	7.59703	0.0637657	0.23709825	2.5853370	20	8 30.8	19.9
366212 2012 <i>TT</i> ₂₃	15.5	X	243.22107	309.25659	322.54800	8.60518	0.0792093	0.18411144	3.0601934	20	1 28.3	20.1
366213 2012 <i>TY</i> ₃₀	16.7	X	350.34041	236.46498	163.86308	7.86612	0.1229975	0.26336649	2.4104365	20	12 29.2	19.4
366214 2012 <i>TY</i> ₃₂	17.5	X	135.76490	330.30639	127.86667	5.02531	0.1814505	0.29847733	2.2174908	20	—	—
366215 2012 <i>TM</i> ₈₉	17.8	X	134.67659	21.07637	294.53973	2.47778	0.1753624	0.28844970	2.2685898	20	—	—
366216 2012 <i>TV</i> ₉₈	17.0	X	258.11761	45.45713	321.74725	0.91312	0.1020235	0.21511348	2.7586142	20	6 5.8	20.9
366217 2012 <i>TO</i> ₁₆₆	16.3	X	349.65403	30.64640	249.82591	2.30887	0.0565585	0.21420033	2.7664487	20	6 26.7	19.7
366218 2012 <i>TP</i> ₁₈₄	17.5	X	316.38910	323.60300	6.70005	4.44240	0.1013019	0.22931033	2.6435466	20	7 11.9	20.5
366219 2012 <i>TY</i> ₁₈₉	15.6	X	324.16548	226.67900	339.81890	4.85778	0.0796883	0.17801412	3.1296787	20	2 13.7	19.7
366220 2012 <i>TQ</i> ₂₁₇	17.6	X	55.39567	317.42360	66.82767	5.12424	0.1171918	0.28073962	2.3099376	20	—	—
366221 2012 <i>TH</i> ₂₃₂	16.2	X	342.27287	185.58162	125.37122	4.83738	0.0409602	0.22922017	2.6442397	20	7 29.5	19.5
366222 2012 <i>TQ</i> ₂₃₂	17.1	X	350.51469	67.12123	52.93858	10.40533	0.0893057	0.28840495	2.2688245	20	—	—
366223 2012 <i>TV</i> ₂₃₈	16.2	X	257.31798	212.26063	138.85881	6.84602	0.0640509	0.21118111	2.7927539	20	5 21.9	20.2
366224 2012 <i>TF</i> ₂₄₂	16.0	X	160.60919	140.79416	192.70403	9.28129	0.1046619	0.17203271	3.2018085	20	1 17.8	21.1
366225 2012 <i>TA</i> ₂₈₇	15.9	X	159.13840	225.46362	175.34800	10.70229	0.0871436	0.18832911	3.0143319	20	4 4.9	20.4
366226 2012 <i>TU</i> ₂₉₈	16.4	X	73.67559	76.95293	37.30735	4.44196	0.1605084	0.18029134	3.1032694	20	4 6.2	20.4
366227 2012 <i>TT</i> ₃₀₃	16.3	X	174.03350	342.40044	9.56546	2.40271	0.1322559	0.18379189	3.0637394	20	2 23.4	21.1
366228 2012 <i>UQ</i> ₇	18.0	X	146.29633	237.53408	97.65615	4.43286	0.1982738	0.29914358	2.2141970	20	—	—
366229 2012 <i>UT</i> ₈₅	16.4	X	161.22307	287.59440	238.04610	10.48418	0.1296202	0.22627535	2.6671322	20	9 7.1	20.9
366230 2012 <i>UZ</i> ₈₅	16.4	X	92.84325	75.67280	32.98422	8.61297	0.0915929	0.18208231	3.0828866	20	4 13.9	20.6
366231 2012 <i>UC</i> ₉₁	16.1	X	163.31501	193.99018	173.76860	15.41526	0.0568261	0.18937155	3.0032597	20	2 24.6	20.6
366232 2012 <i>UD</i> ₉₃												

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>
366241 2012 VF ₂₄	17.0	X	128.65950	304.36447	221.91150	1.63973	0.0191900	0.21948420	2.7218689	20	8 1.6	20.6
366242 2012 VZ ₃₂	17.8	X	159.67888	189.37874	167.49631	4.02208	0.1528298	0.30269711	2.1968338	20	2 2.9	20.7
366243 2012 VE ₆₉	17.0	X	170.91121	284.02640	157.12775	2.49141	0.0355010	0.20260715	2.8709978	20	6 4.2	21.1
366244 2012 VQ ₇₃	16.2	X	70.10042	69.12216	66.06764	16.73183	0.2016576	0.17594979	3.1541104	20	5 7.0	20.4
366245 2012 WW ₃₁	16.8	X	262.18453	70.62857	87.96639	7.87317	0.0619434	0.25848837	2.4406680	20	—	—
366246 2012 XY ₂	15.5	X	241.94873	58.58648	251.73338	20.76411	0.1944136	0.18440647	3.0569285	20	2 22.1	20.9
366247 2012 XW ₁₆	17.6	X	186.98067	38.37327	98.71677	27.72429	0.0400951	0.35212408	1.9861204	20	10 13.6	20.7
366248 2012 XH ₂₇	15.8	X	143.42193	8.85893	66.97367	7.44577	0.0375382	0.18521214	3.0480570	20	4 27.5	20.2
366249 2012 XO ₃₁	17.9	X	152.59864	107.32917	219.02092	3.02709	0.2049046	0.28764558	2.2728158	20	—	—
366250 2012 XJ ₁₀₃	15.3	X	57.66563	162.91990	329.19367	8.51881	0.1019524	0.18093901	3.0958595	20	3 24.6	19.3
366251 2012 XN ₁₄₀	15.8	X	350.25433	4.87930	227.38922	8.45971	0.0258761	0.18861228	3.0113143	20	4 24.2	19.8
366252 2012 XJ ₁₅₁	16.1	X	232.14297	144.00601	294.70849	12.63508	0.1574625	0.21059777	2.7979087	20	7 30.6	20.3
366253 2012 YS ₂	13.4	X	241.77779	320.73300	136.00041	10.36143	0.0766514	0.08234640	5.2324645	20	9 1.9	20.4
366254 2012 YZ ₂	14.0	X	280.62757	222.26076	222.90566	6.45958	0.0867780	0.08464678	5.1372309	20	9 27.8	20.8
366255 2012 YB ₄	15.5	X	162.64499	7.68152	28.92584	18.09247	0.1894505	0.17228704	3.1986568	20	4 9.8	20.9
366256 2012 YO ₇	15.8	X	175.77045	244.32436	233.35489	7.73242	0.2365185	0.19915437	2.9040861	20	7 22.5	21.0
366257 2013 AB ₇	16.5	X	314.00295	97.12662	343.87827	13.68737	0.1218035	0.24303594	2.5430548	20	12 15.2	19.5
366258 2013 AU	17.5	X	107.23794	305.91765	316.77867	19.60859	0.0650010	0.36442581	1.9411688	20	12 14.6	20.2
366259 2013 AA ₇	16.4	X	36.62790	83.72741	146.00263	5.16180	0.0134605	0.19011722	2.9954017	20	6 23.1	20.5
366260 2013 AM ₇	16.4	X	345.65191	250.42500	129.40215	7.58235	0.0436076	0.22356328	2.6886590	20	11 7.9	19.9
366261 2013 AA ₈	15.4	X	36.73153	311.11675	300.16449	10.47869	0.1366271	0.18757594	3.0223955	20	8 4.9	19.2
366262 2013 AD ₁₉	13.1	X	267.74870	307.95498	127.66373	15.43772	0.0353179	0.08088622	5.2952488	20	9 13.8	20.1
366263 2013 AW ₂₁	16.5	X	125.45860	126.54794	333.54926	11.07276	0.2467392	0.17769521	3.1334221	20	5 22.2	21.9
366264 2013 AM ₂₂	12.9	X	267.60874	306.62415	134.79589	15.56967	0.0365040	0.07961286	5.3515619	20	9 19.7	20.0
366265 2013 AA ₂₅	16.6	X	229.76209	133.47730	90.33274	7.27583	0.0669871	0.26576473	2.3959136	20	—	—
366266 2013 AR ₃₃	17.2	X	120.26471	35.13425	268.94356	2.83006	0.0203900	0.25720117	2.4488044	20	—	—
366267 2013 AX ₃₆	16.8	X	187.75002	90.90040	102.85688	13.02860	0.1048165	0.22733822	2.6588127	20	11 17.8	20.9
366268 2013 AA ₃₇	15.2	X	347.67796	148.67858	104.25949	16.51683	0.0703879	0.17657864	3.1466174	20	5 21.5	19.5
366269 2013 AN ₃₇	13.8	X	214.71502	20.80435	112.49857	3.76299	0.0804254	0.08305489	5.2026657	20	9 14.9	21.0
366270 2013 AP ₃₈	17.2	X	276.01446	82.64020	359.66877	13.90918	0.2266434	0.22813236	2.6526388	20	9 22.2	20.2
366271 2013 AS ₃₈	17.6	X	283.61007	115.01356	130.99925	3.29995	0.1340454	0.28069232	2.3101971	20	1 20.3	20.8
366272 2013 Medellin	14.9	X	330.37306	146.55614	121.90392	19.82300	0.1046626	0.17383146	3.1796828	20	5 15.5	19.3
366273 2013 AN ₄₁	16.1	X	311.48280	71.94610	302.03006	12.79605	0.0756351	0.21260137	2.7803023	20	8 29.4	19.6
366274 2013 AZ ₅₅	17.0	X	67.18822	330.96784	44.66839	5.01962	0.1729119	0.26244575	2.4160710	20	—	—
366275 2013 AK ₅₉	17.8	X	84.63433	32.77193	67.53261	3.69958	0.1009656	0.29002050	2.2603911	20	3 15.6	20.2
366276 2013 AK ₇₃	16.8	X	258.62467	57.14738	73.97631	12.42090	0.1441425	0.23450743	2.6043438	20	11 17.8	19.9
366277 2013 AQ ₇₃	17.2	X	338.09132	209.25141	344.05416	8.40411	0.1055309	0.28222858	2.3018060	20	1 27.9	19.8
366278 2013 AR ₇₄	15.2	X	202.69376	273.15662	115.60408	19.8242	0.1106902	0.17704149	3.1411308	20	5 10.9	20.5
366279 2013 AD ₉₁	16.8	X	244.01918	261.18278	212.62106	10.23967	0.2421350	0.22387398	2.6861709	20	9 15.9	20.9
366280 2013 AS ₉₉	16.3	X	149.92388	15.55135	69.22563	8.18015	0.1407283	0.18114881	3.0934687	20	5 21.6	21.1
366281 2013 AA ₁₀₃	15.6	X	214.92525	273.03227	92.07407	10.68785	0.0984948	0.17508925	3.1644365	20	4 22.4	20.6
366282 2013 AM ₁₀₅	16.9	X	9.85512	208.20031	193.36667	1.80929	0.0737931	0.24613029	2.5216956	20	—	—
366283 2013 AR ₁₀₅	15.4	X	204.17592	33.59278	339.62295	13.15916	0.0378276	0.16919515	3.2375074	20	4 13.2	20.3
366284 2013 AM ₁₂₅	16.4	X	262.97667	68.25771	5.97210	12.93507	0.0804095	0.21912833	2.7248150	20	9 16.3	20.0
366285 2013 AF ₁₃₀	18.0	X	25.71769	48.79991	127.32814	2.90079	0.1006125	0.29684910	2.2255921	20	3 24.6	19.8
366286 2013 AS ₁₃₀	15.9	X	166.80661	77.02602	352.78565	11.41873	0.1052999	0.17718122	3.1394791	20	5 14.1	21.0
366287 2013 AR ₁₃₂	13.6	X	198.56045	154.01052	18.02947	12.02378	0.2117120	0.08284926	5.2112705	20	10 5.4	21.3
366288 2013 BA ₅	16.9	X	231.51963	288.46766	231.43236	5.08642	0.1711224	0.23098686	2.6307396	20	11 12.7	20.5
366289 2013 BN ₂₄	15.8	X	144.27076	156.11028	297.57238	10.20592	0.0679136	0.17891352	3.1191813	20	5 19.7	20.6
366290 2013 BW ₃₃	16.6	X	211.43266	297.76979	144.42844	2.05272	0.1599744	0.20252187	2.8718038	20	7 14.5	21.1
366291 2013 BZ ₄₀	16.6	X	274.85280	319.14388	132.00707	9.91068	0.0892809	0.22349531	2.6892041	20	10 27.4	20.1
366292 2013 BK ₄₁	17.3	X	283.33752	280.21359	302.20721	1.41077	0.1488346	0.26674840	2.3900198	20	—	—
366293 2013 BB ₄₃	15.5	X	98.01480	259.64723	217.89495	11.37226	0.1228503	0.16929914	3.2361816	20	5 5.7	20.1
366294 2013 BE ₆₃	17.4	X	297.49396	63.40573	135.34667	4.45623	0.0712627	0.26542698	2.3979457	20	—	—
366295 2013 BJ ₆₆	18.0	X	36.57510	10.80725	50.05377	1.97200	0.1737107	0.25963152	2.4334986	20	—	—
366296 2013 BU ₇₇	16.9	X	155.47085	167.99739	84.05041	2.13540	0.1073602	0.23350433	2.6117970	20	12 22.9	20.9
366297 2013 BW ₇₉	15.8	X	156.10471	90.42219	343.87320	26.11191	0.1293854	0.17777387	3.1324977	20	4 30.9	21.3
366298 2013 CF ₃	17.3	X	331.87419	35.78767	351.53625	18.80055	0.0290842	0.34774936	2.0027427	20	11 16.4	19.8
366299 2013 CQ ₁₄	17.0	X	319.58937	101.85256	114.84492	5.88582	0.1379471	0.27634259	2.3343761	20	1 26.9	19.7
366300 2013 CN ₁₉	15.8	X	351.95543	136.95207	98.22621	4.96585	0.0578763	0.17282907	3.1919655	20	5 2.2	20.0
366301 2013 CM ₂₂	15.3	X	29.88669	111.66934	107.37337	17.21132	0.0237639	0.17661756	3.1461551	20	6 3.9	19.8
366302 2013 CQ ₂₂	16.8	X	285.34659	83.26218	106.53206	7.51625	0.0246878	0.26528200	2.3988193	20	—	—
366303 2013 CY ₂₂	16.3	X	241.02543	357.82685	110.63215	9.50386	0.1678993	0.21631450	2.7483938	20	9 21.8	20.3
366304 2013 CC ₃₈	16.0	X	71.50434	305.31736	224.58210	12.30344	0.2208417	0.17111267	3.2132753	20	6 20.9	20.6
366305 2013 CH ₆₇	15.9	X	237.60343	70.67213	306.52098	8.88863	0.1088667	0.17775716	3.1326940	20	5 23.5	20.7
366306 2013 CK ₇₂	17.2	X	244.94518	347.51308	260.69957	3.89771	0.0764996	0.26552107	2.3973791	20	—	—
366307 2013 CR ₈₄	15.4	X	39.24071	36.95983	147.82310	8.24710	0.0854351	0.15587068	3.4194775	20	5 9.6	20.0
366308 2013 CV ₁₀₉	15.7	X	333.12476	194.98986	118.03823	10.81398	0.0812177	0.18633785	3.0357685	20	7 12.9	19.4
366309 2013 CJ ₁₃₄	17.2	X	357.47389	64.80729	75.42713	7.09213	0.1801570	0.26791883	2.3830541	20	—	—
366310 2013 CL ₁₃₄	15.9	X	117.14379	121.71830	358.38116	26.80039	0.2769357	0.17326817	3.1865705	20	6 9.6	21.7
366311 2013 CM ₁₄₂	18.5	X	39.68799	101.01373	41.71382	0.35929	0.1308661	0.28676521	2.2774651	20	3 1.1	20.5
366312 2013 CO ₁₄₂	16.5	X	184.30883	178.53697	9.98895	7.23625	0.1280125	0.21886699	2.7269837	20	10 30.1	20.7
366313 2013 CW ₁₇₄	16.6	X	68.44918	5.13158	334.63970	7.68224	0.0415197	0.22809221	2.6529501	20	—	—
366314 2013 CD ₁₈₀	16.0	X</										

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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>
366321 2013 EV ₅	17.8	X	78.60482	201.36202	318.41404	2.31669	0.0944249	0.30025983	2.2087059	20	5 29.6	20.3
366322 2013 EN ₁₂	17.0	X	214.86080	118.06512	121.61633	2.98609	0.0452608	0.24358961	2.5391998	20	—	—
366323 2013 EG ₁₄	17.8	X	46.57794	276.53555	155.01696	2.46092	0.2016685	0.26496324	2.4007428	20	—	—
366324 2013 EX ₁₄	17.1	X	157.68981	154.84002	95.71477	0.54347	0.0699472	0.22577981	2.6710334	20	12 23.5	21.0
366325 2013 EO ₂₁	16.8	X	112.56211	341.36559	309.89359	2.58335	0.0677201	0.22266708	2.6958685	20	12 24.3	20.8
366326 2013 EW ₃₉	16.2	X	191.17959	158.15354	70.36132	10.12559	0.1608614	0.22387053	2.6861984	20	12 23.5	20.4
366327 2013 EJ ₇₄	15.2	X	299.98555	119.12343	81.07489	2.90604	0.0424171	0.12498633	3.9618166	20	1 20.2	20.8
366328 2013 EY ₈₅	15.9	X	315.00721	182.19989	142.31637	9.96716	0.0880077	0.17481023	3.1678029	20	6 29.2	20.2
366329 2013 EO ₈₆	17.0	X	201.49079	115.90451	111.35860	6.67222	0.1021733	0.23031410	2.6358602	20	—	—
366330 2013 EE ₉₃	16.5	X	233.66429	28.07279	159.64262	14.91138	0.1380339	0.22665362	2.6641639	20	12 24.6	20.4
366331 2013 EO ₉₈	16.8	X	63.27225	314.64622	11.40806	3.73269	0.0926366	0.21427255	2.7658271	20	12 12.7	20.8
366332 2013 EK ₁₀₆	17.0	X	274.69830	7.66869	163.73531	12.80284	0.0770662	0.23563291	2.5960442	20	—	—
366333 2013 EB ₁₀₈	16.4	X	73.10227	60.10141	194.07437	21.36148	0.2230476	0.18064805	3.0991828	20	10 7.8	21.2
366334 2013 EA ₁₁₂	18.3	X	126.64689	101.84239	323.93178	2.16740	0.1389147	0.28804646	2.2707066	20	3 27.9	21.3
366335 2013 EZ ₁₁₉	16.7	X	250.25420	20.66034	159.06087	4.08959	0.1729953	0.22913849	2.6448681	20	12 31.5	19.9
366336 2013 EA ₁₂₃	18.4	X	85.04434	24.28862	161.36510	2.08621	0.0684156	0.30656250	2.3783285	20	7 13.8	20.8
366337 2013 EX ₁₂₃	17.1	X	254.57146	0.88746	171.93286	14.57958	0.1782930	0.22927806	2.6437946	20	12 27.9	20.6
366338 2013 FL	17.1	X	3.55060	75.71353	14.74184	10.81213	0.1349507	0.25327901	2.4740202	20	—	—
366339 2013 FN ₁₂	15.7	X	20.96000	135.90807	160.00099	16.58281	0.0750915	0.18367091	3.0650846	20	9 2.2	19.6
366340 2013 FP ₁₂	17.3	X	16.72547	226.83087	24.87865	5.22880	0.1746281	0.29929527	2.2134488	20	7 19.5	19.0
366341 4082 T ₋₂	17.7	X	226.10391	317.43441	32.67142	1.50013	0.1952978	0.26619069	2.3933570	20	3 31.7	21.7
366342 1993 TV ₂₉	16.6	X	55.24313	226.55469	154.59718	5.53211	0.2524516	0.19068372	2.9894662	20	—	—
366343 1994 LC ₁	16.6	X	157.72042	317.99845	14.49456	12.54231	0.5170196	0.20688344	2.8312979	20	2 8.8	22.5
366344 1996 TV ₃₆	18.3	X	299.32261	316.76452	21.06000	3.49506	0.2518298	0.28108550	2.3080423	20	5 28.6	20.8
366345 1999 SW ₁₃	16.3	X	343.30627	130.81155	220.83771	10.16439	0.1056144	0.16913697	3.2382498	20	9 12.7	20.5
366346 1997 SQ ₂₄	18.2	X	28.43960	294.59240	9.54430	2.83006	0.1375067	0.30016293	2.2091812	20	10 25.2	20.6
366347 1998 OO ₂	16.0	X	77.76237	63.12897	303.12603	11.09634	0.1219652	0.19586894	2.9364707	20	—	—
366348 1998 UE ₁₁	17.0	X	223.12331	303.15462	85.13087	2.40727	0.1912264	0.25569371	2.4584197	20	5 17.2	20.9
366349 1999 RQ ₃₁	17.8	X	260.81600	214.13256	140.40219	4.91927	0.2654938	0.27156527	2.3616737	20	5 5.1	21.3
366350 1999 RH ₁₈₅	17.1	X	312.04816	250.59837	97.57483	4.56796	0.2628448	0.27888374	2.3201742	20	7 9.8	18.9
366351 1999 TO ₁₁	18.0	X	303.44033	342.32650	23.42728	4.71677	0.3280060	0.27761466	2.3272397	20	7 6.4	20.0
366352 1999 TQ ₂₉	17.3	X	354.61283	179.76306	195.31718	6.60558	0.2311621	0.28607120	2.2811471	20	12 25.8	19.6
366353 1999 TY ₇₅	16.8	X	112.25979	317.41467	29.02237	5.16435	0.1686640	0.20114202	2.8849227	20	—	—
366354 1999 TV ₁₆₅	16.3	X	109.45363	18.62640	345.55425	8.02167	0.2172998	0.20469691	2.8514243	20	1 12.3	20.3
366355 1999 UU ₇	16.4	X	37.99878	170.88046	219.64014	16.56576	0.3198286	0.19623686	2.9327992	20	—	—
366356 1999 UV ₅₂	16.6	X	86.36263	310.81873	83.84675	13.59950	0.3752677	0.20275573	2.8695951	20	2 16.7	20.6
366357 1999 VZ ₈₃	17.9	X	264.00353	85.89660	303.65899	0.84160	0.1941288	0.27390413	2.3482103	20	7 2.2	20.7
366358 1999 WX ₂₅	18.1	X	267.05178	169.44779	220.60861	1.89149	0.2101830	0.27321815	2.3521392	20	7 8.4	21.1
366359 2000 AY ₁₀₉	17.5	X	240.22800	123.70538	274.54266	7.99012	0.2215544	0.26781153	2.3836905	20	6 12.9	21.0
366360 2000 AN ₂₁₇	15.6	X	121.94181	301.32565	284.96342	25.43973	0.2477545	0.17430525	3.1739182	20	10 6.3	21.6
366361 2000 BR ₂₁	15.7	X	97.72978	342.78557	313.61329	18.93487	0.0578833	0.18009194	3.1055595	20	12 3.5	20.6
366362 2000 CU ₃₄	15.5	X	186.57779	39.20631	136.17590	15.63169	0.2275114	0.17472627	3.1688176	20	10 12.8	21.1
366363 2000 ER ₅₁	17.7	X	353.86431	242.50792	306.91231	0.88726	0.1144926	0.24528121	2.5275118	20	2 20.3	20.5
366364 2000 EY ₁₈₂	17.2	X	296.72212	79.60240	136.49140	11.75820	0.2723725	0.23930903	2.5693897	20	—	—
366365 2000 KK ₆₅	15.3	X	149.96049	64.88425	222.41285	25.66635	0.1688752	0.17262835	3.1944393	20	—	—
366366 2000 PR ₉	16.5	X	328.69096	115.14087	289.61866	21.94161	0.4017466	0.29720317	2.2238241	20	—	—
366367 2000 QA ₈₅	16.1	X	128.45727	84.52984	312.24420	11.22022	0.3387292	0.22195968	2.7015934	20	3 14.3	20.8
366368 2000 RF ₂₀	17.7	X	345.56858	77.55041	293.18132	5.01653	0.2231240	0.29952687	2.2123077	20	12 5.5	19.4
366369 2000 RH ₅₇	17.6	X	29.86207	318.47445	341.09843	6.27214	0.1862261	0.29756658	2.2220131	20	10 26.2	20.2
366370 2000 RM ₉₈	16.0	X	146.61370	60.44479	296.98146	13.13757	0.2193929	0.22026572	2.7154269	20	2 4.8	20.4
366371 2000 SS ₂₈	16.6	X	149.23069	56.26719	285.79434	7.52823	0.2705952	0.21875475	2.7279164	20	1 25.5	21.1
366372 2000 SP ₉₀	16.2	X	181.51289	69.09485	255.64597	11.70798	0.2824514	0.22374723	2.6871852	20	1 26.9	21.2
366373 2000 SQ ₉₂	16.1	X	237.58281	154.33609	205.20279	14.69859	0.1537680	0.23407572	2.6075449	20	4 28.3	20.1
366374 2000 SO ₁₇₁	17.5	X	16.81330	354.74748	324.78778	7.07201	0.2208795	0.29835136	2.2181149	20	11 10.4	19.9
366375 2000 SU ₁₉₀	16.3	X	140.58999	123.35971	258.48843	6.10917	0.2029147	0.22196381	2.7015599	20	2 26.0	20.7
366376 2000 SN ₁₉₄	17.0	X	217.14186	22.27537	8.62119	5.20072	0.2514462	0.23334755	2.6129668	20	5 10.6	21.7
366377 2000 SP ₂₃₂	17.3	X	102.12597	196.47806	199.88814	21.56399	0.0857672	0.36741949	1.9306102	20	—	—
366378 2000 SP ₂₉₇	17.3	X	311.88826	123.12996	274.26962	4.99464	0.2625994	0.29640221	2.2278285	20	10 18.2	18.3
366379 2000 SG ₃₁₄	16.1	X	165.87931	91.48866	258.07467	11.36765	0.2949175	0.22308786	2.6924776	20	2 12.7	21.1
366380 2000 TP ₂₁	16.7	X	89.65849	281.84511	134.31604	9.51859	0.3014900	0.21608911	2.7503046	20	3 3.5	20.3
366381 2000 TY ₂₃	16.5	X	123.89906	166.44150	221.05917	11.12363	0.1577547	0.21900253	2.7258584	20	2 10.3	20.7
366382 2000 UE ₇₂	15.7	X	217.05378	139.78621	236.36091	12.24538	0.1788472	0.22890804	2.6466429	20	4 25.9	20.1
366383 2000 WK ₄₅	16.1	X	183.28448	194.25449	223.09320	12.42554	0.1554841	0.22750527	2.6575110	20	5 18.9	20.4
366384 2000 WG ₁₂₄	17.0	X	248.96574	178.00975	258.26153	25.88427	0.1389624	0.28897454	2.2658422	20	8 12.8	20.6
366385 2000 WB ₁₇₇	16.9	X	120.52651	306.61059	91.44483	6.19337	0.1707258	0.21682350	2.7440908	20	2 28.3	20.9
366386 2000 YH ₂₈	15.9	X	157.94962	193.59566	227.94606	11.59706	0.1495414	0.21885737	2.7270636	20	4 29.4	20.3
366387 2001 CT ₂₀	16.0	X	179.09089	49.11826	113.13260	27.03224	0.4911118	0.17898288	3.1183754	20	9 19.7	22.7
366388 2001 OV ₃₁	16.9	X	225.62891	111.85200	241.42404	14.92272	0.2609558	0.24377734	2.5378960	20	3 28.3	21.6
366389 2001 PK ₃	16.0	X	213.93460	94.08003	264.08133	13.80315	0.1635779	0.24287055	2.5442091	20	3 26.5	20.4
366390 2001 QG ₃₃	16.9	X	220.83789	185.94559	137.95181	4.30222	0.1725204	0.24046922	2.5611188	20	2 26.9	21.0
366391 2001 QW ₄₇	16.4	X	225.48551	204.36373	149.14292	15.92422	0.1557909	0.24582393	2.5237904	20	4 12.0	20.6
366392 2001 QL ₁₇₃	16.9	X	212.20639	25.30349	318.02440	14.65016	0.1652263	0.24165767	2.5527150	20	3 8.1	21.2
366393 2001 QU ₁₈₂	17.4	X	235.30711	216.36985	114.62445	14.66955	0.2707006	0.24433073	2.5340625	20	3 18.9	22.0
366394												

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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>
366401 2001 RH ₁₄₀	17.1	X	148.28806	329.59375	69.98437	3.52249	0.2236994	0.23641856	2.5902897	20	3 30.6	21.4
366402 2001 SY ₇₉	16.6	X	174.97067	150.59708	226.30066	6.42788	0.2146674	0.24040168	2.5615984	20	3 20.8	21.1
366403 2001 SB ₁₀₄	18.0	X	196.91547	41.55361	320.08561	3.37198	0.2537308	0.24057514	2.5603670	20	3 20.9	22.6
366404 2001 SY ₁₄₅	17.7	X	221.01938	137.04354	195.84799	6.21279	0.2777614	0.24116470	2.5561925	20	3 3.8	22.2
366405 2001 SX ₁₄₆	17.1	X	168.93807	183.48239	199.68916	3.45286	0.1894078	0.23745941	2.5827149	20	3 24.3	21.2
366406 2001 SL ₂₇₇	16.1	X	190.08519	88.41358	255.42599	8.67433	0.2739753	0.23575288	2.5951634	20	2 21.9	20.9
366407 2001 SH ₂₉₈	16.9	X	102.49172	192.97015	203.66263	11.63445	0.1892595	0.22985144	2.6393960	20	1 31.1	20.6
366408 2001 SZ ₃₁₂	17.2	X	199.26674	209.06089	125.92482	3.74278	0.2036568	0.23769694	2.5809939	20	2 22.2	21.4
366409 2001 SF ₃₃₉	16.6	X	212.21083	69.43729	267.07485	14.56666	0.2071316	0.24013058	2.5635261	20	2 26.1	21.3
366410 2001 SP ₃₄₂	17.5	X	191.77676	279.57266	88.53548	5.63851	0.2300077	0.23910418	2.5708571	20	3 28.9	22.0
366411 2001 TL ₁	17.2	X	224.28918	269.29631	60.16181	4.53149	0.3096497	0.23926143	2.5697306	20	3 4.8	21.9
366412 2001 TA ₆	17.7	X	230.06578	209.85933	114.17477	4.29607	0.2784753	0.24085471	2.5583853	20	3 2.6	22.2
366413 2001 TS ₂₈	17.9	X	175.24340	80.48586	307.37816	3.72502	0.2693615	0.23733112	2.5836455	20	4 5.2	22.5
366414 2001 TP ₉₃	16.7	X	116.96821	150.66729	277.60221	4.00488	0.1450558	0.23383996	2.6092973	20	3 23.5	20.4
366415 2001 TS ₁₁₀	17.6	X	201.22009	139.44926	238.21990	5.01396	0.3508485	0.24079857	2.5587829	20	4 11.0	22.4
366416 2001 TV ₂₀₉	16.9	X	207.57556	103.66429	261.58097	9.54801	0.2557597	0.24284128	2.5444136	20	3 29.9	21.6
366417 2001 TJ ₂₂₃	18.8	X	192.66780	171.63090	221.08810	4.19405	0.3038696	0.24088233	2.5581897	20	4 24.8	23.4
366418 2001 TE ₂₄₀	16.9	X	170.73808	279.68956	96.95791	5.94595	0.2257251	0.23550077	2.5970152	20	3 22.9	21.4
366419 2001 TZ ₂₅₆	17.3	X	217.10007	51.67429	297.66048	10.27170	0.2721853	0.24069342	2.5595281	20	3 16.7	22.1
366420 2001 UZ ₂₀	16.7	X	203.21464	114.93804	235.63866	10.15694	0.3180488	0.24095347	2.5576862	20	3 9.2	21.7
366421 2001 UQ ₅₉	16.3	X	70.84941	191.12041	219.21295	8.10641	0.2182923	0.22424016	2.6832458	20	1 8.3	19.2
366422 2001 UZ ₁₂₆	16.9	X	188.33616	291.65340	79.79028	5.77810	0.3365418	0.23833453	2.5763888	20	3 31.2	21.8
366423 2001 UF ₁₆₅	17.4	X	194.79860	256.53027	115.77991	6.50448	0.2820193	0.24016497	2.5632814	20	4 5.1	22.1
366424 2001 UJ ₂₁₇	17.0	X	148.44393	330.36187	51.87782	5.82844	0.0894146	0.23159194	2.6261554	20	2 28.7	20.8
366425 2001 VG ₂₀	17.5	X	156.05118	172.56045	234.67792	6.39617	0.2121405	0.23533981	2.5981992	20	4 11.8	21.8
366426 2001 VT ₂₂	16.8	X	212.98257	113.37915	229.23107	17.53489	0.3507657	0.23862423	2.5743031	20	3 3.9	22.0
366427 2001 VH ₃₈	16.5	X	204.50180	125.42299	229.03067	11.77564	0.2074001	0.23681033	2.5874321	20	3 15.9	21.1
366428 2001 VB ₄₄	15.2	X	133.06456	156.58263	252.88893	27.51117	0.1268771	0.22955202	2.6416907	20	3 4.7	19.8
366429 2001 VU ₇₈	18.1	X	148.13855	181.63875	248.01216	19.69696	0.0583689	0.39526741	1.8388320	20	4 6.9	20.4
366430 2001 VH ₈₆	17.0	X	228.54910	98.90731	239.48759	8.71906	0.4016660	0.24065300	2.5598147	20	3 9.1	22.2
366431 2001 VB ₉₉	15.9	X	164.62594	287.83382	111.90210	29.28501	0.3999236	0.23409240	2.6074211	20	4 30.9	21.5
366432 2001 WP ₂	18.2	X	191.69449	265.94115	62.14479	23.14500	0.1062465	0.38959954	1.8566231	20	1 16.2	20.8
366433 2001 WZ ₂₅	17.8	X	204.85505	298.57095	57.03016	4.28880	0.2689606	0.23850190	2.5751834	20	3 27.7	22.4
366434 2001 WA ₄₉	17.1	X	261.39766	179.46561	192.68864	3.30961	0.1438925	0.24597186	2.5227784	20	6 11.4	20.4
366435 2001 WH ₆₃	17.1	X	156.15962	124.95278	244.69508	8.58158	0.1276203	0.23003742	2.6379733	20	2 18.1	21.3
366436 2001 WV ₉₀	17.5	X	157.59360	47.40000	354.60818	4.08067	0.2828218	0.23499525	2.6007383	20	4 10.6	22.2
366437 2001 WO ₉₉	17.2	X	173.34715	268.70823	110.52596	11.54796	0.2688799	0.23484374	2.6018568	20	3 31.8	22.0
366438 2001 XE ₁₄	16.3	X	126.30118	118.43002	298.15035	11.84313	0.2606110	0.22968225	2.6406921	20	3 27.3	20.8
366439 2001 XV ₂₂	17.1	X	139.99798	17.51482	30.55364	4.93186	0.3031944	0.23132817	2.6281514	20	4 7.7	21.6
366440 2001 XM ₉₆	15.9	X	147.99800	137.45723	259.98608	16.50478	0.1929373	0.23142597	2.6274109	20	3 15.9	20.5
366441 2001 XD ₁₂₄	16.1	X	205.29006	262.58226	74.74647	13.62509	0.1996065	0.23402032	2.6079565	20	3 7.2	20.7
366442 2001 XM ₁₄₆	17.0	X	177.37283	125.39665	243.68426	4.43795	0.2165168	0.23254812	2.6189517	20	3 13.9	21.5
366443 2001 XE ₁₉₈	15.9	X	169.18840	126.61612	280.16231	10.58103	0.3321651	0.23326394	2.6135911	20	4 23.2	20.9
366444 2001 XM ₂₁₃	16.3	X	173.41704	158.58414	227.05053	4.70009	0.3467597	0.23460000	2.6036587	20	4 3.9	21.2
366445 2001 XO ₂₁₆	16.4	X	109.32960	139.94015	260.27159	10.88846	0.0921379	0.22445211	2.6815563	20	1 30.7	20.2
366446 2001 YQ ₁₇	16.2	X	78.53190	136.86702	272.43772	5.01126	0.0685038	0.21984238	2.7189117	20	1 1.9	19.7
366447 2001 YU ₅₁	15.7	X	194.47775	107.90836	276.70306	16.69274	0.2889833	0.23733597	2.5836103	20	4 9.8	20.8
366448 2001 YF ₁₃₃	17.2	X	157.18860	97.51832	302.31987	11.63674	0.2881979	0.23239798	2.6200796	20	4 2.9	22.1
366449 2001 YW ₁₅₁	15.9	X	14.16076	173.90914	302.92027	13.73360	0.0720727	0.21878368	2.7276759	20	—	—
366450 2002 AU ₁₁	15.9	X	173.54614	92.14905	298.25449	26.78075	0.4072456	0.23340770	2.6125179	20	3 27.6	21.6
366451 2002 AN ₁₈	16.6	X	180.00727	283.33682	133.48465	25.21748	0.4285978	0.23605946	2.5929160	20	5 23.5	22.3
366452 2002 AX ₆₅	17.0	X	161.14735	115.24374	290.19838	11.51071	0.2719622	0.23203173	2.6228360	20	4 12.6	21.8
366453 2002 AU ₆₉	16.9	X	113.81199	142.11226	275.51192	11.86490	0.2241382	0.22914509	2.6448173	20	3 12.5	21.0
366454 2002 AQ ₁₁₃	16.8	X	165.88775	89.90235	300.05330	4.51236	0.2671368	0.23099644	2.6306669	20	3 31.6	21.6
366455 2002 AZ ₁₂₆	16.7	X	184.23872	105.24232	270.62558	4.26766	0.3664327	0.23380521	2.6095558	20	3 29.4	21.8
366456 2002 AY ₁₄₉	16.3	X	329.48085	188.72936	323.10893	5.48920	0.1150429	0.21447471	2.7640888	20	—	—
366457 2002 AU ₁₇₃	17.5	X	73.32804	75.47027	120.11040	5.05197	0.1938968	0.28697079	2.2763774	20	7 31.3	20.1
366458 2002 CO ₁	18.4	X	142.83150	306.56314	131.12287	23.45466	0.0958569	0.39112706	1.8517861	20	5 5.7	21.2
366459 2002 CO ₁₁	17.5	X	159.48102	266.25278	142.35343	22.83808	0.0716114	0.38850475	1.8601094	20	4 6.8	19.9
366460 2002 CB ₃₁	16.1	X	121.38647	308.97698	112.38042	14.92050	0.2673041	0.22663035	2.6643463	20	4 12.2	20.7
366461 2002 CU ₃₄	17.5	X	221.13284	34.54766	76.37474	6.48831	0.0719566	0.29876728	2.2160558	20	9 24.9	20.2
366462 2002 CF ₄₅	16.6	X	205.86424	287.29412	130.95893	4.50232	0.2014937	0.23634154	2.5908524	20	6 8.4	21.0
366463 2002 CH ₆₈	17.5	X	221.02967	73.07593	348.71813	4.31238	0.2943650	0.24197323	2.5504951	20	6 19.8	22.1
366464 2002 CT ₂₆₂	16.0	X	59.63711	158.47705	297.67728	20.88808	0.0804780	0.22034210	2.7147993	20	2 1.9	19.4
366465 2002 EN ₁₀	17.6	X	23.95822	337.13938	163.54448	22.64258	0.0658072	0.37748473	1.8961373	20	1 6.5	19.8
366466 2002 ET ₁₀	18.2	X	103.00459	280.78292	168.05917	22.04411	0.1204742	0.38395013	1.8747909	20	3 18.7	19.5
366467 2002 EX ₃₈	17.6	X	28.60838	252.15526	351.43131	3.41951	0.1618006	0.28486620	2.2875755	20	7 27.0	19.6
366468 2002 EA ₆₉	17.5	X	87.41103	227.95228	310.98583	2.37438	0.1408997	0.28365114	2.2941036	20	7 17.6	20.4
366469 2002 EN ₁₄₂	15.7	X	223.42027	68.60547	159.67870	11.26694	0.0875089	0.20359094	2.8617416	20	—	—
366470 2002 FD	19.3	X	315.15684	267.20229	182.18101	22.81046	0.2823013	0.58024438	1.4236244	20	—	—
366471 2002 FG ₁₅	17.6	X	98.92853	145.78594	46.52754	7.33320	0.1132896	0.28736607	2.2742894	20	8 20.4	20.7
366472 2002 GU ₆₇	17.0	X	197.10319	169.61976	29.18855	2.30165	0.2177202	0.19273463	2.9682209	20	11 14.2	22.0
366473 2002 GL ₇₅	16.6	X	343.49623	167.93189	99.42256	11.15835						

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>
366481 2002 JZ ₉₃	16.7	X	355.46148	339.30709	247.64239	6.84804	0.0673223	0.27144886	2.3623489	20	4 16.1	19.3
366482 2002 JU ₁₄₉	16.1	X	156.09515	116.29209	72.30204	11.54942	0.0561534	0.18096690	3.0955414	20	10 5.9	20.9
366483 2002 LB ₃	15.6	X	110.21805	334.46546	250.09296	15.80447	0.1652603	0.17901379	3.1180163	20	9 26.0	20.9
366484 2002 LP ₆₄	16.3	X	35.19943	81.51499	293.18427	14.53792	0.2485782	0.17825994	3.1268008	20	—	—
366485 2002 NK ₁₇	15.1	X	24.40744	88.91255	252.89614	24.02225	0.2790540	0.17177417	3.2050205	20	12 1.2	19.1
366486 2002 NC ₃₉	15.1	X	60.27108	94.01298	242.55135	14.49703	0.2244705	0.17600539	3.1534461	20	12 28.2	20.0
366487 2002 NM ₅₇	17.3	X	295.28858	179.64102	130.02572	9.49368	0.1294227	0.26661808	2.3907986	20	5 7.3	20.3
366488 2002 NO ₆₆	18.4	X	306.91623	209.14618	99.25767	3.61774	0.1949201	0.26866044	2.3786665	20	5 9.5	21.0
366489 2002 NX ₇₀	16.2	X	38.33555	246.44429	143.98314	10.60212	0.1365483	0.18273238	3.0755706	20	—	—
366490 2002 NE ₇₃	16.4	X	23.13048	184.28681	136.72987	1.82865	0.1792851	0.17104235	3.2141560	20	10 19.8	20.2
366491 2002 NU ₇₃	18.0	X	358.78795	18.66126	326.52840	5.11586	0.2405948	0.27999363	2.3140387	20	11 16.7	20.2
366492 2002 NT ₇₄	17.2	X	14.64385	268.74772	304.29244	3.59785	0.1774660	0.26645712	2.3917613	20	5 2.3	19.0
366493 2002 NA ₇₈	17.7	X	332.24230	199.27550	63.59734	2.36470	0.1525236	0.26745008	2.3858377	20	4 22.8	19.8
366494 2002 NL ₇₉	15.8	X	113.59742	312.39023	306.54566	15.75851	0.1339500	0.17831592	3.1261463	20	11 7.3	21.0
366495 2002 OH ₂	14.8	X	38.34197	85.53760	261.69551	11.20461	0.1122778	0.17359670	3.1825488	20	12 2.3	19.1
366496 2002 OM ₁₉	17.5	X	299.11558	85.34502	257.49133	4.33466	0.2152051	0.27059839	2.3672961	20	6 12.6	19.8
366497 2002 OD ₂₈	17.6	X	338.35268	339.89572	287.48060	6.55736	0.1505129	0.26733870	2.3865003	20	5 15.0	20.1
366498 2002 OV ₃₇	15.9	X	43.76186	221.00855	151.37364	15.57126	0.1463632	0.17860323	3.1227928	20	—	—
366499 2002 PA ₈	17.2	X	349.83654	99.10295	149.83049	3.74863	0.1783872	0.27909778	2.3189878	20	10 25.2	19.1
366500 2002 PO ₂₄	18.2	X	253.30130	184.54032	250.04528	3.24588	0.2236912	0.26218765	2.4176563	20	4 4.9	21.9
366501 2002 PS ₂₉	17.2	X	280.49806	169.71834	163.06704	6.54118	0.1424117	0.26604628	2.3942230	20	5 14.7	20.3
366502 2002 PB ₅₂	16.3	X	66.98115	178.83116	133.37008	18.31223	0.1648667	0.17559615	3.1583437	20	12 5.2	21.3
366503 2002 PN ₅₂	15.6	X	82.97647	346.25367	326.56374	10.60391	0.2165592	0.17798479	3.1300225	20	12 23.5	20.8
366504 2002 PT ₆₄	15.7	X	65.21954	80.54229	267.68882	15.75650	0.1311188	0.17882300	3.1202337	20	—	—
366505 2002 PL ₇₆	16.2	X	84.69881	23.65650	263.63164	11.68099	0.1293126	0.17571445	3.1569260	20	11 15.4	21.1
366506 2002 PJ ₈₇	15.6	X	72.56357	13.55291	329.47576	16.82265	0.1908376	0.17976327	3.1093438	20	—	—
366507 2002 PZ ₁₂₂	16.1	X	119.02371	349.96149	284.60066	9.64939	0.0954847	0.17815546	3.1282032	20	12 3.0	21.0
366508 2002 PM ₁₅₂	16.3	X	109.92507	153.80935	119.60243	7.15005	0.2563342	0.17908396	3.1172018	20	12 3.5	21.7
366509 2002 PC ₁₅₇	16.0	X	72.50663	337.28882	322.82158	8.63422	0.0667276	0.17504099	3.1650182	20	11 7.7	20.7
366510 2002 PW ₁₅₇	16.4	X	46.77195	320.64419	15.92772	2.13090	0.1992765	0.17463891	3.1698742	20	12 11.9	20.9
366511 2002 PA ₁₇₀	17.6	X	40.17675	305.96099	259.03826	6.88502	0.0524965	0.26680503	2.3896816	20	5 30.1	20.4
366512 2002 PX ₁₇₂	16.5	X	132.79656	111.80184	132.34405	17.09754	0.2170580	0.17806153	3.1291231	20	11 19.9	22.1
366513 2002 PU ₁₇₃	16.4	X	26.41311	310.31251	76.75731	7.05868	0.2732347	0.17682045	3.1437480	20	—	—
366514 2002 PG ₁₇₈	15.3	X	339.04823	108.51190	305.72317	12.11570	0.2829809	0.17352247	3.1834563	20	12 8.5	18.3
366515 2002 PJ ₁₇₉	16.6	X	18.44414	99.92102	286.67904	14.60140	0.2585639	0.17552539	3.1591925	20	—	—
366516 2002 PY ₁₈₀	16.0	X	42.58821	227.91558	120.31029	11.65699	0.0460478	0.17699968	3.1416254	20	12 2.8	20.5
366517 2002 PL ₁₈₄	15.7	X	39.19426	228.77655	120.91758	15.13294	0.1528079	0.17443290	3.1723696	20	12 14.2	20.2
366518 2002 PB ₁₈₇	17.6	X	283.80112	254.48053	85.76169	5.13086	0.1970633	0.26708986	2.3879824	20	5 19.9	20.7
366519 2002 PL ₁₈₈	16.5	X	62.56262	16.62514	314.91465	9.68680	0.0879628	0.17814319	3.1281668	20	12 9.8	21.1
366520 2002 PY ₁₈₈	17.6	X	7.12159	279.26213	309.95578	7.02377	0.1028536	0.26624449	2.3930345	20	5 9.5	20.2
366521 2002 PA ₁₉₄	16.2	X	104.92334	26.07857	257.93079	10.34893	0.0547550	0.17508796	3.1644521	20	11 26.3	21.0
366522 2002 PX ₁₉₉	15.8	X	60.76454	184.32291	142.40479	10.80987	0.0684665	0.17720129	3.1392420	20	12 1.5	20.4
366523 2002 PY ₁₉₉	16.2	X	9.34448	96.07015	271.25297	7.64701	0.0746593	0.17533894	3.1614316	20	11 12.5	20.4
366524 2002 PL ₂₀₀	17.4	X	237.36226	278.04214	107.08093	7.21300	0.1209672	0.26676951	2.3898937	20	6 3.8	20.7
366525 2002 PJ ₂₀₁	16.2	X	256.56469	306.32494	201.40104	11.42302	0.0328023	0.17801880	3.1296238	20	12 6.9	20.7
366526 2002 QO ₄	17.3	X	282.42324	20.00026	289.35141	5.72790	0.1546709	0.26272820	2.4143390	20	4 7.7	20.7
366527 2002 QV ₈	17.9	X	292.97014	251.96606	76.95678	5.47041	0.2718290	0.26713975	2.3876850	20	5 4.9	20.8
366528 2002 QO ₁₀	15.8	X	93.88343	96.30148	159.16707	25.46255	0.3204256	0.17513462	3.1638901	20	11 9.4	21.7
366529 2002 QK ₁₁	17.4	X	273.02862	83.13576	283.29397	2.86410	0.1969408	0.26816682	2.3815846	20	6 10.5	20.2
366530 2002 QQ ₂₃	17.5	X	311.30259	130.86674	149.10559	5.89241	0.1710942	0.26407624	2.4061156	20	4 10.4	20.3
366531 2002 QA ₄₈	17.6	X	317.15192	317.12611	315.19890	3.83472	0.1823013	0.26527360	2.3988699	20	4 2.2	20.1
366532 2002 QY ₅₅	16.6	X	39.59251	312.15800	47.32149	1.77589	0.1701113	0.17510889	3.1641999	20	12 27.0	20.8
366533 2002 QT ₆₁	15.9	X	12.29468	66.09969	319.34765	8.76173	0.2256378	0.17406730	3.1768101	20	12 30.5	19.8
366534 2002 QO ₇₁	16.3	X	25.71533	217.78400	148.39675	6.00688	0.1311896	0.17466163	3.1695995	20	12 12.4	20.5
366535 2002 QL ₇₃	17.3	X	289.73912	219.02773	117.83629	6.90031	0.1390162	0.26700718	2.3884753	20	6 2.9	20.1
366536 2002 QV ₇₇	18.1	X	247.68307	203.58877	129.54919	3.25059	0.2269246	0.26083419	2.4260125	20	3 29.1	22.0
366537 2002 QY ₈₄	16.5	X	30.18390	145.77805	202.01368	6.66315	0.1427521	0.17269761	3.1935851	20	11 27.3	20.7
366538 2002 QC ₈₉	16.6	X	12.75032	71.05993	320.98275	5.47969	0.2587902	0.17501106	3.1653791	20	—	—
366539 2002 QN ₉₀	17.5	X	210.79825	338.60633	71.72620	5.87820	0.1785630	0.26252595	2.4155789	20	6 3.4	21.2
366540 2002 QQ ₉₁	17.6	X	273.08989	189.29116	130.87983	10.26092	0.2111182	0.26231157	2.4168948	20	4 11.2	21.2
366541 2002 QJ ₉₂	17.8	X	264.42432	258.16381	89.33455	3.75988	0.1913218	0.26520891	2.3992600	20	5 6.7	21.1
366542 2002 QQ ₉₃	17.6	X	226.67003	13.67971	23.01719	1.50653	0.1990856	0.26341336	2.4101506	20	5 30.2	21.5
366543 2002 QM ₁₀₄	17.5	X	249.86605	164.70283	202.65639	1.49508	0.1979522	0.26511101	2.3998506	20	5 15.5	21.0
366544 2002 QL ₁₀₉	16.4	X	66.54072	355.70535	318.43872	7.83267	0.0661110	0.17530991	3.1617806	20	11 18.6	21.0
366545 2002 QP ₁₁₀	16.2	X	45.11980	202.03356	151.28969	7.14289	0.1613200	0.17650082	3.1475422	20	12 25.4	20.8
366546 2002 QE ₁₁₄	16.7	X	34.15540	160.84866	214.79091	5.23270	0.1750437	0.17666813	3.1455547	20	—	—
366547 2002 QR ₁₃₂	18.2	X	256.99948	264.21355	110.51164	3.72457	0.2354373	0.26640010	2.3921026	20	5 29.0	21.8
366548 2002 QK ₁₃₆	16.0	X	130.98396	120.85924	129.14683	9.84452	0.0207295	0.17558253	3.1585070	20	11 16.3	20.7
366549 2002 QY ₁₃₈	18.5	X	280.86025	179.06954	163.33817	1.49187	0.2009456	0.26709296	2.3879639	20	5 17.9	21.5
366550 2002 QE ₁₄₂	16.3	X	344.54066	163.07149	255.58484	8.08508	0.0962123	0.17504890	3.1649228	20	12 13.5	20.3
366551 2002 QS ₁₄₆	17.5	X	286.43328	180.00172	127.68273	5.45649	0.0652985	0.26324303	2.4111901	20	4 30.6	20.6
366552 2002 QD ₁₄₉	17.4	X	332.09968	170.65812	103.38715	7.12583	0.1265631	0.26719641	2.3873475	20	5 15.4	19.8
366553 2002 QE ₁₅₄	15.8	X	130.65189	120.37350	140.84548	10.12190	0.0571536	0.17496849	3.1			

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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>		
366561	2002	RM ₁₈₂	15.3	X	73.93278	47.75531	269.75534	13.10388	0.1221045	0.17365026	3.1818943	20	12 9.5	20.0
366562	2002	RW ₁₈₈	16.3	X	35.99815	328.16226	20.55550	0.75481	0.1820046	0.17171722	3.2057290	20	12 10.5	20.6
366563	2002	RR ₂₁₃	15.6	X	101.51385	293.03026	22.06772	11.10956	0.3117898	0.18027856	3.1034160	20	—	—
366564	2002	RE ₂₄₉	17.9	X	284.94693	194.42449	142.98499	3.30593	0.2425242	0.26424357	2.4050998	20	5 10.7	21.1
366565	2002	RR ₂₅₄	18.0	X	305.27876	126.83804	187.72984	2.24920	0.2018405	0.26633075	2.3925178	20	5 14.1	20.4
366566	2002	RH ₂₅₉	18.0	X	232.64579	130.95607	273.87571	1.30561	0.2063944	0.26379137	2.4078476	20	6 15.4	21.7
366567	2002	RB ₂₆₂	17.0	X	51.51726	210.73176	248.95590	3.68453	0.0987110	0.24505804	2.5290461	20	1 24.4	19.7
366568	2002	RH ₂₆₃	17.7	X	228.86771	72.61209	300.78096	4.26072	0.1221239	0.26030172	2.4293198	20	5 6.6	21.3
366569	2002	RP ₂₆₉	16.4	X	77.43144	138.21640	149.84324	6.55178	0.1023378	0.17237174	3.1976089	20	11 8.2	21.1
366570	2002	ST ₁₃	16.8	X	221.76515	107.95604	286.29578	13.65589	0.1622852	0.26036594	2.4289203	20	5 23.9	20.7
366571	2002	SG ₄₀	17.2	X	294.88381	233.13882	83.72594	2.24514	0.1948440	0.26365212	2.4086954	20	5 2.6	19.9
366572	2002	SP ₆₁	17.4	X	242.91109	284.19416	91.67457	3.75033	0.1844724	0.26264307	2.4148607	20	5 21.3	20.8
366573	2002	TQ ₂₅	17.5	X	248.22031	33.83517	333.55124	1.42319	0.2164783	0.26078517	2.4263165	20	5 11.3	21.0
366574	2002	TT ₂₆	17.2	X	261.69938	122.65734	207.32026	1.55787	0.2258295	0.25898302	2.4375593	20	4 5.8	20.9
366575	2002	TF ₂₇	16.4	X	17.99906	3.83728	3.71441	4.77364	0.2587072	0.16885155	3.2418980	20	12 19.3	20.4
366576	2002	TT ₃₀	17.4	X	255.88024	168.84712	206.79412	2.14969	0.2397218	0.26240162	2.4163418	20	5 28.2	21.0
366577	2002	TH ₆₆	16.2	X	243.89987	75.64595	286.49135	22.08299	0.1862242	0.25947167	2.4344980	20	5 6.7	20.2
366578	2002	TQ ₈₂	17.8	X	236.39251	11.54415	359.46781	0.87321	0.2026860	0.25969056	2.4331298	20	5 5.9	21.6
366579	2002	TP ₁₀₅	17.3	X	277.03434	114.77334	220.81868	6.30330	0.1514111	0.26211514	2.4181022	20	5 10.9	20.5
366580	2002	TP ₁₂₂	15.8	X	177.59508	78.66350	224.58275	11.44390	0.1416593	0.18805376	3.0172737	20	—	—
366581	2002	TS ₁₃₀	17.6	X	246.47502	146.96666	231.20188	4.31669	0.2426769	0.26263999	2.4148796	20	5 21.7	21.1
366582	2002	TR ₁₅₉	16.6	X	108.75084	335.79620	75.12383	13.80272	0.1517123	0.24372422	2.5382648	20	2 29.4	20.3
366583	2002	TG ₁₈₁	15.2	X	59.45319	112.54400	223.73018	25.93877	0.2562401	0.17311082	3.1885012	20	12 27.1	20.5
366584	2002	TE ₁₈₉	16.3	X	140.62845	90.72294	230.17295	8.47654	0.2476840	0.18515936	3.0486362	20	—	—
366585	2002	TF ₁₉₃	17.0	X	313.40086	6.07321	31.23453	6.19285	0.2375566	0.27482251	2.3429760	20	10 16.8	18.3
366586	2002	TP ₂₁₂	15.2	X	54.96707	260.84408	65.52658	14.17617	0.2074930	0.17180289	3.2046633	20	12 8.9	19.8
366587	2002	TX ₂₁₇	17.0	X	244.25850	114.59836	257.20957	6.27583	0.2383712	0.26310798	2.4120152	20	5 10.7	21.0
366588	2002	TO ₂₄₀	14.7	X	56.90964	94.50139	275.42960	15.21242	0.2778062	0.17929915	3.1147072	20	—	—
366589	2002	TV ₃₁₁	17.2	X	174.39250	280.27954	130.15874	7.16894	0.0967271	0.25408171	2.4688069	20	5 2.3	20.9
366590	2002	TA ₃₁₇	16.3	X	62.88619	91.12403	258.56889	8.20137	0.0833516	0.17784136	3.1317052	20	12 30.9	20.8
366591	2002	TL ₃₄₈	17.2	X	302.03309	132.38488	160.68562	12.22769	0.0980947	0.25737269	2.4477163	20	4 29.1	20.3
366592	2002	UX ₅	17.2	X	237.84927	298.35594	76.91388	6.48420	0.2593183	0.26011287	2.4304955	20	5 9.9	21.3
366593	2002	UF ₂₁	15.7	X	95.38074	134.97447	220.78109	9.14042	0.2629771	0.17982474	3.1086351	20	—	—
366594	2002	UW ₂₇	17.6	X	207.56631	195.64009	203.22183	2.26412	0.2028965	0.25660719	2.4525818	20	5 15.9	21.6
366595	2002	UZ ₄₆	17.6	X	234.63346	272.23509	100.31326	5.02412	0.2353836	0.25881925	2.4385875	20	5 5.8	21.6
366596	2002	VL ₇₃	16.9	X	224.67938	190.39700	180.83809	5.01706	0.2117107	0.25580446	2.4577100	20	4 26.4	20.9
366597	2002	VU ₁₀₇	17.8	X	255.41436	99.26802	278.49783	5.53527	0.3168545	0.26150269	2.4218762	20	5 21.2	21.6
366598	2002	VY ₁₂₄	17.1	X	178.48643	307.69446	96.89291	7.57115	0.1966674	0.25200527	2.4823497	20	4 30.9	21.3
366599	2002	XL ₈	17.0	X	313.50140	80.51257	301.30075	4.83007	0.3289152	0.27106657	2.3645695	20	8 30.3	17.8
366600	2002	XR ₆₂	16.2	X	152.39600	302.94116	93.90172	15.57374	0.1082082	0.24441220	2.5334993	20	3 28.7	20.3
366601	2003	AA ₁₆	17.3	X	204.92040	76.37966	325.58042	1.52601	0.2743713	0.25293554	2.4762594	20	5 14.6	21.6
366602	2003	AY ₅₃	16.1	X	140.40346	74.31215	354.33655	4.94822	0.1690585	0.24359875	2.5391363	20	4 20.8	20.1
366603	2003	BT ₉	16.6	X	279.51655	344.08840	153.59406	8.88333	0.2633816	0.21596749	2.7513371	20	12 6.4	19.6
366604	2003	BZ ₁₇	16.4	X	337.51284	193.77396	131.96687	10.27256	0.1027453	0.22585110	2.6704713	20	—	—
366605	2003	BR ₆₄	16.8	X	324.86127	211.84319	306.96765	9.65528	0.1484310	0.22595695	2.6696372	20	—	—
366606	2003	CK ₁₄	16.1	X	326.63493	42.88616	125.65634	22.65181	0.0343846	0.22659603	2.6646153	20	—	—
366607	2003	CO ₁₆	17.2	X	116.72643	52.46115	24.30129	0.98541	0.1722090	0.23862266	2.5743145	20	4 8.6	20.9
366608	2003	CA ₁₇	16.3	X	305.39213	327.80252	141.56624	15.96303	0.0778032	0.21570284	2.7535870	20	12 31.4	19.9
366609	2003	DP ₃	16.5	X	260.75663	17.94957	154.79673	8.65670	0.1492946	0.21467148	2.7623995	20	—	—
366610	2003	EY ₁₄	16.1	X	298.22571	249.37239	309.08891	11.73345	0.1699163	0.22402473	2.6849657	20	—	—
366611	2003	FT ₂₈	16.6	X	228.84079	118.67028	95.91222	9.59709	0.2226331	0.21071013	2.7969140	20	—	—
366612	2003	GA ₆₇	16.5	X	344.38395	340.21372	173.03316	13.66122	0.1122419	0.22238556	2.6981432	20	—	—
366613	2003	FL ₇₂	16.5	X	226.74824	115.13853	113.13899	9.48623	0.2320451	0.21181918	2.7871426	20	—	—
366614	2003	FJ ₁₃₂	17.1	X	279.30643	246.05285	283.79452	9.31696	0.2548345	0.21546159	2.7556421	20	—	—
366615	2003	LO ₆	16.9	X	161.08723	6.47684	254.32986	34.58744	0.5758605	0.19846391	2.9108178	20	12 17.4	23.2
366616	2003	NP ₄	16.5	X	337.46157	85.24664	253.89158	20.82640	0.3057470	0.28929399	2.2641739	20	9 2.1	18.2
366617	2003	OS ₆	17.7	X	74.92534	21.11076	187.36152	5.75969	0.4057402	0.29618620	2.2289116	20	9 13.1	21.4
366618	2003	OP ₁₁	17.7	X	43.91478	232.98948	220.67202	20.40580	0.1160070	0.37889578	1.8914268	20	—	—
366619	2003	OB ₂₆	15.5	X	307.96075	287.20399	161.61579	10.86541	0.0746918	0.18882047	3.0091003	20	12 2.6	19.5
366620	2003	QR ₃₈	17.9	X	12.32605	343.24614	326.85847	5.22231	0.2133578	0.29335277	2.2432409	20	10 17.2	20.1
366621	2003	QP ₄₄	17.7	X	314.63560	261.15155	58.41022	2.71468	0.2202726	0.28517779	2.2859089	20	6 4.5	19.5
366622	2003	QA ₅₄	17.5	X	317.39775	333.84980	35.36786	3.26428	0.2364217	0.29023052	2.2593005	20	9 12.7	18.4
366623	2003	QQ ₅₈	17.6	X	7.40257	198.60282	124.78529	6.33571	0.2039019	0.29370059	2.2414695	20	11 2.3	19.7
366624	2003	QT ₇₂	15.8	X	76.79363	90.46995	257.86827	7.89987	0.1417521	0.19018521	2.9946878	20	—	—
366625	2003	RX ₁₂	17.9	X	303.03357	359.08173	341.67703	1.24018	0.2418648	0.28463115	2.2888347	20	6 11.6	19.8
366626	2003	RV ₁₈	16.3	X	47.09043	143.79036	211.04266	4.42334	0.2301875	0.18442729	3.0566984	20	—	—
366627	2003	SH ₁₀	16.7	X	23.42909	46.49222	337.82643	2.63619	0.1029882	0.18350996	3.0668765	20	12 29.5	20.7
366628	2003	SY ₃₇	15.3	X	350.61014	151.21060	235.24750	18.24559	0.1363224	0.17987595	3.1080451	20	11 16.3	19.1
366629	2003	SA ₄₄	15.9	X	343.07752	82.39832	288.67488	8.72297	0.1320701	0.17648217	3.1477640	20	10 8.6	19.8
366630	2003	SO ₇₄	16.2	X	54.58475	127.97166	218.84379	4.29775						

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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>
366641 2003 SS ₂₀₈	17.4	X	337.12504	123.33085	218.23733	3.41600	0.1669244	0.29021810	2.2593649	20	9 14.7	19.0
366642 2003 SR ₂₂₅	17.5	X	263.47773	327.89042	40.23411	3.25007	0.2409751	0.27919367	2.3184568	20	5 25.4	20.7
366643 2003 SU ₂₅₀	15.2	X	1.04084	183.86975	194.71841	27.97578	0.1153043	0.17782348	3.1319151	20	11 21.6	19.5
366644 2003 SV ₂₆₃	17.7	X	344.98207	241.19368	88.96831	1.88588	0.2416206	0.28904507	2.2654736	20	9 24.9	18.7
366645 2003 SQ ₂₇₂	16.2	X	57.63261	120.02473	235.64261	6.15719	0.1794134	0.18558664	3.0439551	20	—	—
366646 2003 SN ₂₇₅	16.3	X	55.39654	207.89088	153.96824	2.13792	0.2393772	0.18516519	3.0485722	20	—	—
366647 2003 SF ₂₇₇	15.9	X	346.06991	87.77252	338.33475	10.30889	0.1415280	0.18249854	3.0781973	20	—	—
366648 2003 SM ₂₇₇	16.4	X	54.37984	70.08168	312.91921	7.48545	0.2091229	0.18789213	3.0190038	20	—	—
366649 2003 SS ₂₈₂	15.6	X	71.58175	33.79449	322.80312	9.80568	0.1265425	0.18580818	3.0415351	20	—	—
366650 2003 SZ ₂₈₅	18.1	X	304.11657	32.67147	338.37721	6.01762	0.1965296	0.28599360	2.2815597	20	8 14.3	19.8
366651 2003 SZ ₂₉₇	17.2	X	305.76751	120.81651	237.43970	9.40043	0.1958637	0.28615240	2.2807155	20	7 22.3	19.3
366652 2003 SU ₃₁₈	16.7	X	86.00153	221.02715	128.33374	1.15886	0.2246598	0.18977595	2.9989917	20	—	—
366653 2003 SR ₃₂₁	16.9	X	66.83623	307.25876	57.16487	2.18360	0.1865330	0.18809130	3.0168721	20	—	—
366654 2003 SP ₃₂₅	17.9	X	349.45196	132.81351	158.89447	3.59546	0.1818159	0.28462889	2.2888468	20	7 18.6	19.5
366655 2003 SS ₃₂₉	18.7	X	345.71524	341.06395	346.17215	3.34888	0.2498994	0.28806582	2.2706049	20	9 20.2	19.5
366656 2003 SN ₃₃₂	16.1	X	25.28783	205.25794	152.07680	9.26967	0.2406842	0.17860912	3.1227242	20	12 17.9	20.3
366657 2003 SK ₃₃₄	17.3	X	161.04652	184.62241	292.49504	2.25818	0.0603775	0.28158752	3.2052982	20	7 13.4	20.2
366658 2003 SV ₃₃₅	17.3	X	210.75326	348.71926	80.82030	7.32187	0.0696720	0.27834186	2.3231845	20	7 8.1	20.4
366659 2003 SC ₃₃₆	16.0	X	57.15131	225.32568	150.09583	11.53780	0.2934386	0.18644539	3.0346011	20	—	—
366660 2003 SB ₃₃₉	16.7	X	60.87234	253.36942	94.60683	4.39515	0.1028286	0.18398107	3.0616388	20	12 31.0	21.1
366661 2003 SH ₃₄₂	16.9	X	118.72414	54.73448	254.75796	2.03034	0.2228885	0.19110274	2.9850946	20	—	—
366662 2003 SN ₃₄₅	17.6	X	267.50390	338.13518	18.58498	3.39131	0.1625161	0.28048526	2.3113339	20	5 25.1	20.5
366663 2003 SS ₃₉₃	16.1	X	99.38569	159.03142	156.11865	10.37328	0.0603789	0.18458504	3.0549566	20	12 29.5	20.7
366664 2003 SP ₄₃₀	17.8	X	286.89302	89.60950	286.65040	5.90185	0.1243246	0.28354308	2.2946864	20	7 29.5	20.3
366665 2003 SS ₄₃₂	16.5	X	19.19051	156.32514	191.00430	10.79025	0.1476116	0.17947559	3.1126655	20	11 14.5	20.5
366666 2003 TB ₃	15.6	X	342.53305	142.02052	232.22851	14.48179	0.2031925	0.17244553	3.1966966	20	10 14.9	19.1
366667 2003 TR ₂₆	16.2	X	67.40973	4.88157	318.20950	8.40772	0.0443279	0.18047027	3.1012178	20	11 29.3	20.7
366668 2003 US	17.6	X	143.09804	90.76146	267.85882	17.31021	0.1045015	0.37640772	1.8997526	20	—	—
366669 2003 UM ₁	15.8	X	46.27023	108.21710	259.25297	8.13921	0.1309674	0.18363804	3.0654503	20	—	—
366670 2003 US ₄	14.7	X	312.43574	155.89407	260.48090	26.51350	0.1408261	0.17544837	3.1598769	20	10 10.9	19.1
366671 2003 UR ₁₅	17.7	X	89.33120	217.33630	213.88127	20.67866	0.1180966	0.37506299	1.9042907	20	1 15.5	19.8
366672 2003 UW ₁₆	15.8	X	84.25402	88.68469	272.59796	9.69353	0.1727498	0.18971591	2.9996244	20	—	—
366673 2003 UT ₃₆	15.8	X	15.93548	172.60853	249.26462	11.87311	0.2036893	0.18433420	3.0577275	20	—	—
366674 2003 UP ₃₉	16.8	X	46.32613	311.03874	68.38032	2.11028	0.2662178	0.18447573	3.0561633	20	—	—
366675 2003 UY ₅₇	18.1	X	348.09788	56.49941	277.51137	4.54624	0.2149602	0.28936256	2.2638162	20	10 2.3	19.6
366676 2003 UL ₈₃	15.5	X	28.01522	121.76284	248.82521	10.67141	0.2156209	0.18035539	3.1025346	20	—	—
366677 2003 UD ₈₆	16.3	X	38.65801	109.44598	269.15137	4.80973	0.2842176	0.18251659	3.0779944	20	—	—
366678 2003 UM ₁₁₈	17.8	X	293.48135	27.15604	340.16697	3.81282	0.1577796	0.28354025	2.2947017	20	7 23.3	19.9
366679 2003 UB ₁₃₄	16.1	X	67.39554	88.83449	268.36797	8.82026	0.2672905	0.18622737	3.0369691	20	—	—
366680 2003 UQ ₁₃₄	16.9	X	115.35211	212.66826	228.70703	11.07375	0.1707632	0.26204305	2.4185457	20	4 9.2	20.4
366681 2003 UV ₁₄₉	17.8	X	294.04405	320.07646	68.18281	3.74754	0.2341450	0.28603798	2.2813237	20	8 14.9	19.6
366682 2003 UA ₁₈₀	17.7	X	273.91603	233.54533	163.18882	4.94296	0.1794105	0.28252482	2.3001967	20	7 29.2	20.4
366683 2003 UN ₂₄₀	15.8	X	60.94741	350.56105	343.15057	4.97940	0.1692599	0.17971475	3.1009035	20	12 21.5	20.4
366684 2003 UB ₂₆₅	17.8	X	341.33663	200.74345	144.85146	4.43240	0.2598167	0.28822791	2.2697535	20	10 16.8	18.8
366685 2003 UT ₂₆₇	17.2	X	306.09361	124.40010	229.49920	4.30846	0.2052085	0.28239643	2.3008938	20	7 15.8	19.2
366686 2003 US ₂₇₅	17.9	X	341.15464	315.07346	20.25089	3.64230	0.2706184	0.28738422	2.2741936	20	9 25.2	18.6
366687 2003 UW ₂₇₆	17.2	X	231.25457	187.67455	242.41823	6.59763	0.2250988	0.27841873	2.3227569	20	7 14.9	20.8
366688 2003 UJ ₂₉₁	16.3	X	19.63857	179.12733	199.09690	4.62103	0.1293868	0.17835923	3.1256403	20	12 19.0	20.4
366689 Rohrbaugh	17.8	X	357.39039	233.35933	55.94118	3.05191	0.2981863	0.28229590	2.3014400	20	8 2.1	19.7
366690 2003 UQ ₃₄₀	17.3	X	32.70285	128.17525	36.37714	3.84010	0.0616256	0.26464997	2.4026369	20	3 22.1	19.8
366691 2003 UG ₃₅₄	17.8	X	20.57878	89.67331	147.47887	5.84907	0.1257771	0.27768140	2.3268668	20	6 23.1	19.9
366692 2003 UJ ₃₆₃	16.4	X	203.98827	155.03675	152.59514	8.07047	0.1372031	0.20092197	2.8870287	20	1 26.9	21.1
366693 2003 UO ₃₆₆	17.8	X	274.84905	163.32668	226.84917	2.40966	0.1664274	0.28112465	2.3078280	20	7 23.2	20.3
366694 2003 UM ₃₉₈	16.2	X	236.66675	30.78366	102.01488	15.45747	0.0890994	0.17160844	3.2070837	20	10 24.1	21.1
366695 2003 UB ₄₀₄	18.0	X	283.78534	39.98762	193.21757	21.06195	0.0706979	0.37966838	1.8888600	20	—	—
366696 2003 UR ₄₀₈	17.8	X	318.75258	234.87659	101.17129	6.43298	0.1339078	0.28302130	2.2975059	20	7 26.3	19.7
366697 2003 WG ₃₁	15.6	X	327.87813	172.51893	251.57182	8.30402	0.0678256	0.17740879	3.1367937	20	11 25.5	19.7
366698 2003 WC ₅₇	16.2	X	80.30212	276.72128	63.06027	7.18637	0.2347589	0.18444966	3.0564513	20	—	—
366699 2003 WR ₆₄	15.9	X	37.86198	303.31123	79.09714	2.71405	0.3335190	0.18305840	3.0719179	20	—	—
366700 2003 WD ₆₆	16.3	X	42.87240	70.77802	315.69084	6.15569	0.2402875	0.18300371	3.0725299	20	—	—
366701 2003 WC ₆₇	17.4	X	243.25059	343.58436	69.38269	3.25683	0.1917585	0.27686629	2.3314315	20	7 10.1	20.5
366702 2003 WX ₈₃	16.3	X	352.01713	250.41210	160.73163	10.65145	0.1461635	0.18062480	3.0994488	20	12 21.8	20.2
366703 2003 WP ₈₅	17.6	X	184.38481	79.13696	16.69797	4.88573	0.1997372	0.27259006	2.3556991	20	7 8.6	21.5
366704 2003 WH ₈₈	17.6	X	206.16222	41.83796	285.02379	16.98071	0.0656508	0.37820235	1.8937380	20	1 26.2	19.7
366705 2003 WQ ₈₈	17.1	X	149.19080	221.53205	245.94756	6.94307	0.1242586	0.27039269	2.3684965	20	6 17.9	20.6
366706 2003 WN ₁₂₃	17.6	X	298.24965	324.71347	43.39030	3.64257	0.2638410	0.28167358	2.3048286	20	7 13.2	19.5
366707 2003 WA ₁₃₀	16.3	X	353.04109	288.61418	127.77715	1.87199	0.1659315	0.17884864	3.1199356	20	12 31.1	19.9
366708 2003 WL ₁₃₅	17.6	X	282.87464	305.62191	80.49793	3.49822	0.2304051	0.28117972	2.3075266	20	7 19.8	20.1
366709 2003 WV ₁₃₆	16.1	X	85.32093	245.06146	104.20432	2.58361	0.4539653	0.18617590	3.0375289	20	1 1.1	20.1
366710 2003 WP ₁₄₄	16.6	X	126.40029	165.65778	213.65570	2.12995	0.2218542	0.19654305	2.9297524	20	2 16.1	21.1
366711 2003 WJ ₁₅₄	17.4	X	194.22105	278.93257	117.64433	5.61299	0.1355865	0.26793533	2.3829562	20	5 3.9	21.0
366712 2003 WM ₁₅₅	15.8	X	351.90430	316.49390	94.04415	14.15914	0.1961715	0.17750611	3.1356471	20	12 24.6	19.3
366713 2003 WP ₁₇₂	17.6	X	241.24657	335.68589	72.69255	4.60422	0.1477164	0.27627798	2.3347401	20	7 6.9	20.8
366714 2003 XU ₁₀	15.9	X	25.99605	288.51238								

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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>
366721 2003 YD ₄₇	15.3	X	325.06940	189.16771	250.04941	7.99845	0.0763224	0.17450401	3.1715078	20	12 9.6	19.2
366722 2003 YL ₈₇	15.2	X	43.28161	287.08516	109.74166	17.28734	0.2608832	0.18147262	3.0897878	20	—	—
366723 2003 YF ₁₀₉	15.7	X	41.27573	90.38590	269.85339	8.31308	0.2240223	0.17722446	3.1389683	20	—	—
366724 2003 YH ₁₂₇	17.6	X	35.95128	169.89000	290.33746	17.19597	0.0912533	0.36735669	1.9308302	20	—	—
366725 2003 YM ₁₃₃	16.7	X	325.16835	215.98079	319.80142	5.48390	0.1318302	0.24397130	2.5365508	20	—	—
366726 2003 YL ₁₈₀	17.5	X	260.28511	260.06427	302.48541	20.85850	0.0708537	0.35515565	1.9748020	20	—	—
366727 2004 BS ₂₆	17.5	X	169.59190	15.17419	314.63405	17.77180	0.0694682	0.36361337	1.9440592	20	—	—
366728 2004 BC ₆₆	17.6	X	231.03277	311.72166	91.02065	3.73382	0.1829512	0.27018660	2.3697008	20	6 13.3	21.0
366729 2004 BD ₇₆	17.3	X	128.43274	276.27545	118.93172	24.25006	0.1279285	0.37218629	1.9140905	20	2 5.7	19.1
366730 2004 BG ₁₀₃	16.2	X	296.98785	64.98335	124.11130	30.24577	0.3365116	0.23454343	2.6040773	20	—	—
366731 2004 BA ₁₀₈	17.1	X	323.49925	73.64049	78.50672	4.53804	0.2169323	0.23713095	2.5850992	20	—	—
366732 2004 BY ₁₀₉	17.4	X	2.93553	184.49012	298.99532	18.08701	0.0760250	0.36004623	1.9568785	20	—	—
366733 2004 BG ₁₂₁	19.1	X	128.05927	206.82759	128.64055	19.42608	0.3426146	0.48150683	1.6121388	20	—	—
366734 2004 CQ ₂₄	17.2	X	67.44180	0.09114	85.19055	6.13160	0.1633274	0.24575698	2.5242347	20	2 10.9	19.9
366735 2004 EW ₁₂	16.7	X	356.59591	344.80379	160.15835	15.29577	0.1089588	0.23908463	2.5709972	20	—	—
366736 2004 EH ₃₇	16.2	X	344.48513	40.13942	68.16773	11.23704	0.3912989	0.23334813	2.6129624	20	—	—
366737 2004 FE ₃₂	16.3	X	232.17264	141.10744	147.86698	33.37719	0.2597455	0.23277635	2.6172396	20	1 23.7	21.2
366738 2004 FQ ₈₂	17.1	X	328.32730	54.17416	84.93523	5.97068	0.1716168	0.23391372	2.6087487	20	—	—
366739 2004 FN ₁₁₆	16.5	X	184.71288	154.65421	51.25693	13.28449	0.2264071	0.21615978	2.7497051	20	11 15.1	21.2
366740 2004 GM ₁	16.4	X	237.03679	107.92551	122.14029	13.50648	0.2260419	0.22628232	2.6670775	20	—	—
366741 2004 GJ ₂₁	16.9	X	270.31120	68.41887	144.68757	8.46028	0.2387174	0.22946355	2.6423697	20	—	—
366742 2004 HA ₂₇	16.4	X	302.50598	75.00138	64.07468	8.67452	0.2457365	0.22666150	2.6641021	20	—	—
366743 2004 JE ₄	16.7	X	167.75263	138.63752	158.78722	5.20314	0.0990654	0.22252463	2.6992027	20	—	—
366744 2004 KK ₁₃	17.0	X	232.65149	137.80151	110.71298	13.81956	0.1700451	0.22436623	2.6822406	20	—	—
366745 2004 KT ₁₃	17.1	X	231.36110	124.21898	128.81420	11.68269	0.2576978	0.22518691	2.6757198	20	—	—
366746 2004 LJ	20.2	X	99.91187	256.07545	246.73975	18.28387	0.4614679	0.86989673	1.0868199	20	7 27.8	21.5
366747 2004 NM ₁₂	15.9	X	171.45068	4.82412	318.94444	10.97479	0.1601254	0.21779460	2.7359279	20	1 17.8	20.3
366748 2004 PO	16.5	X	221.65703	112.07964	247.96471	6.30664	0.2054841	0.22957596	2.6415071	20	4 8.0	21.0
366749 2004 PR	15.9	X	167.70252	60.64607	285.67329	23.57764	0.2087697	0.21812924	2.7331290	20	2 3.8	20.7
366750 2004 PX ₆	16.7	X	137.95845	214.34908	151.03366	8.72507	0.2298384	0.21579285	2.7528213	20	2 10.8	21.2
366751 2004 PF ₃₃	16.2	X	112.50079	242.06148	141.43398	14.54057	0.1402937	0.21425074	2.7660148	20	1 25.2	21.0
366752 2004 PA ₄₇	16.9	X	189.85877	255.96325	38.43594	3.73253	0.1735675	0.21727951	2.7402501	20	—	—
366753 2004 PR ₇₀	16.5	X	140.15226	29.16513	325.25145	8.61436	0.1763561	0.21604402	2.7506872	20	1 26.0	20.6
366754 2004 PW ₈₄	16.0	X	136.53540	210.42861	158.60142	10.03294	0.2955237	0.21243659	2.7817398	20	2 18.6	20.7
366755 2004 RO ₇	16.4	X	161.40337	188.65431	140.13218	14.15293	0.2848792	0.21344500	2.7729714	20	1 21.4	21.4
366756 2004 RG ₃₁	17.1	X	151.96628	311.99673	28.39553	3.76951	0.2779909	0.21480641	2.7612425	20	1 28.7	21.8
366757 2004 RD ₃₉	17.1	X	114.12562	235.00769	148.95168	2.54665	0.2485004	0.21226474	2.7832410	20	2 11.6	21.0
366758 2004 RU ₈₀	16.8	X	162.56108	303.77419	4.47111	4.63961	0.1440173	0.21045052	2.7992136	20	—	—
366759 2004 RF ₈₈	17.0	X	150.33698	340.98246	344.62972	3.25007	0.0918023	0.21089708	2.7952608	20	—	—
366760 2004 RO ₉₈	17.0	X	111.84031	159.25197	228.98422	3.43372	0.2144812	0.21257778	2.7805079	20	2 8.8	21.1
366761 2004 RZ ₁₁₇	17.1	X	62.97681	45.31962	326.66047	1.20978	0.0800068	0.20288307	2.8683943	20	—	—
366762 2004 RE ₁₂₂	17.0	X	118.81800	219.72229	140.16794	5.09203	0.0884807	0.21091942	2.7950635	20	—	—
366763 2004 RR ₁₄₀	16.1	X	325.41730	239.37249	175.17764	15.11013	0.2386203	0.18963314	3.0004972	20	11 14.4	19.1
366764 2004 RX ₁₄₂	16.3	X	113.83902	131.85085	260.17131	8.68935	0.2794052	0.21184039	2.7869566	20	2 20.8	20.8
366765 2004 RP ₁₆₁	16.3	X	107.04591	72.65857	282.70626	13.83446	0.1988849	0.20869131	2.8149227	20	—	—
366766 2004 RR ₁₆₅	15.9	X	115.91440	250.79379	130.30433	11.97984	0.3021026	0.21089305	2.7952964	20	2 17.5	20.2
366767 2004 RZ ₂₀₃	18.4	X	25.73897	50.30344	281.99921	2.32814	0.1736855	0.31596486	2.1348967	20	12 10.8	20.7
366768 2004 RR ₂₁₁	16.4	X	133.35228	181.83629	178.43525	27.49886	0.1993434	0.21421614	2.7663126	20	1 25.3	21.1
366769 2004 RY ₂₁₃	15.5	X	121.97004	62.52259	263.31445	13.81351	0.1522934	0.20323519	2.8650802	20	—	—
366770 2004 RF ₂₁₇	15.9	X	116.57151	89.64570	304.25587	12.36964	0.2713876	0.21134657	2.7912961	20	2 24.8	20.3
366771 2004 RE ₃₀₈	16.0	X	87.63684	151.02178	212.72542	13.44869	0.1621532	0.20339883	2.8635433	20	—	—
366772 2004 RK ₃₁₂	18.0	X	86.73727	28.93639	35.03725	3.35068	0.2256414	0.27458437	2.3443305	20	2 18.1	20.4
366773 2004 RP ₃₄₆	15.7	X	212.52168	336.52726	348.83351	14.82802	0.2565180	0.21820969	2.7324572	20	2 23.9	20.5
366774 2004 TB ₁₈	17.6	X	85.75129	13.05376	121.00907	13.20658	0.4503894	0.40300748	1.8152118	20	6 25.9	20.2
366775 2004 TP ₉₁	16.8	X	144.72821	30.37610	316.10692	1.98886	0.2707327	0.21053633	2.7984530	20	1 28.9	21.5
366776 2004 TH ₁₃₆	16.6	X	110.92068	91.30329	288.10314	6.49141	0.1859271	0.20866862	2.8151268	20	1 25.3	20.5
366777 2004 TX ₁₄₈	15.8	X	154.28131	7.83476	217.44572	9.01668	0.1489561	0.19030675	2.9934126	20	11 12.2	20.6
366778 2004 TM ₁₅₅	17.0	X	87.26671	186.19205	177.80035	1.73075	0.0788122	0.20207744	2.8760129	20	—	—
366779 2004 TH ₁₅₈	18.2	X	286.26373	87.54228	343.82600	2.50151	0.1222055	0.30761712	2.1733469	20	10 29.3	19.8
366780 2004 TT ₁₆₀	17.4	X	20.93247	67.93862	215.03487	5.51666	0.0565778	0.30054391	2.2073139	20	8 26.5	19.8
366781 2004 TL ₁₆₇	16.9	X	91.87992	43.55211	315.97067	1.08805	0.0703582	0.20361215	2.8615429	20	—	—
366782 2004 TW ₁₆₇	16.0	X	74.75736	38.67233	3.89582	6.46989	0.0686742	0.20723873	2.8280610	20	—	—
366783 2004 TL ₂₂₄	18.6	X	31.34161	85.36917	237.76621	1.81738	0.0971934	0.31309844	2.1479069	20	11 22.8	20.9
366784 2004 TO ₂₄₂	16.9	X	140.75997	241.64653	103.67190	8.94014	0.3244925	0.21188889	2.7865313	20	1 29.3	21.7
366785 2004 TN ₂₉₃	15.2	X	312.07662	186.50202	223.61750	12.01500	0.1646231	0.18284619	3.0742943	20	10 7.8	18.9
366786 2004 TD ₃₀₅	17.0	X	127.76984	192.27624	163.30676	1.96021	0.1817416	0.20965091	2.8063266	20	1 14.8	21.0
366787 2004 TO ₃₂₃	16.6	X	70.13458	149.68951	225.85585	0.92825	0.1332406	0.19722012	2.9230432	20	—	—
366788 2004 UK ₇	15.7	X	55.51165	138.25921	239.66365	8.09730	0.0834760	0.19691032	2.9261083	20	—	—
366789 2004 VV ₁	15.9	X	146.92754	202.22468	234.12828	11.34211	0.1233400	0.22184381	2.7025341	20	5 5.5	20.0
366790 2004 VB ₄₀	18.1	X	7.89676	299.33124	76.72265	2.87131	0.1543423	0.31361503	2.1455475	20	—	—
366791 2004 VQ ₄₆	15.4	X	235.10564	230.65112	228.12647	25.57881	0.1584610	0.17391263	3.1786934	20	8 16.6	20.8
366792 2004 VK ₅₄	15.4	X	84.35255	100.00406	273.14829	15.78970	0.1428470	0.20136124	2.8828284	20	—	—
366793 2004 VA ₅₇	15.4	X	236.09298	191.66636	251.51982	14.08545	0.2306130	0.17163923	3.2067002	20	7 27.1	20.8
366794 2004 VS ₅₉	15.8	X	301.48719	213.24232	199.28317	10.44411	0.1179595	0.18647630	3.0342658	20	12 4.8	19.5
366795 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>		
366801	2005	AF ₉	16.3	X	341.51182	100.11839	333.57126	8.12693	0.2037004	0.18456184	3.0552126	20	—	—
366802	2005	AA ₂₀	15.3	X	351.02030	118.18431	279.09556	12.08020	0.0660086	0.17926382	3.1151164	20	11 24.6	19.5
366803	2005	AP ₄₉	16.1	X	336.40130	310.76257	129.92935	21.78729	0.2494799	0.18473692	3.0532820	20	—	—
366804	2005	AS ₇₄	16.1	X	28.36651	230.03846	122.42429	10.32743	0.0762253	0.17482979	3.1675666	20	11 24.0	20.5
366805	2005	AN ₈₂	17.9	X	147.40587	254.71522	196.34649	3.32129	0.1114663	0.27723372	2.3293711	20	5 24.6	21.1
366806	2005	BG ₂₀	17.5	X	341.21971	246.01632	340.61550	0.67284	0.1466733	0.26826839	2.3809835	20	3 15.3	19.7
366807	2005	CD ₉	17.6	X	94.54320	168.46843	342.95552	5.49888	0.1900018	0.27620352	2.3351596	20	6 24.2	20.8
366808	2005	CX ₁₆	17.5	X	21.85880	207.29186	325.23623	2.21921	0.1263710	0.26629484	2.3927329	20	3 13.8	19.5
366809	2005	CE ₁₇	15.9	X	33.08383	253.51242	136.58647	13.29225	0.1486109	0.18396664	3.0617990	20	—	—
366810	2005	CO ₃₉	14.8	X	285.99882	320.74511	130.96221	26.04682	0.0831591	0.17161517	3.2069997	20	11 8.3	19.6
366811	2005	ED ₂₅	16.8	X	124.40527	5.93752	137.25317	6.84289	0.1548710	0.27727763	2.3291252	20	7 11.8	20.2
366812	2005	EP ₃₉	15.6	X	337.87914	279.10166	140.05556	16.58234	0.0929109	0.17794518	3.1304869	20	12 7.9	19.8
366813	2005	EW ₅₀	17.0	X	102.98664	173.06373	342.22712	6.55742	0.1301562	0.27520251	2.3408187	20	7 2.5	20.2
366814	2005	EV ₆₀	17.3	X	53.45977	203.36679	326.26242	4.16108	0.1762286	0.26762729	2.3847844	20	5 13.3	19.7
366815	2005	EP ₇₃	16.0	X	315.89767	311.12684	146.73754	8.28609	0.1456551	0.17653557	3.1471292	20	12 18.5	19.7
366816	2005	ET ₁₃₇	16.7	X	320.03954	77.61046	157.97671	23.01449	0.2612523	0.25874733	2.4390393	20	2 3.8	19.9
366817	2005	EP ₂₄₅	18.0	X	288.38896	282.00002	352.26952	4.16051	0.1649819	0.26054240	2.4278235	20	3 1.7	21.4
366818	2005	EO ₂₄₇	17.5	X	6.68716	47.80804	173.41438	4.64640	0.1335305	0.26628750	2.3927768	20	4 30.5	19.7
366819	2005	ET ₂₇₀	17.6	X	115.11268	66.21093	70.28443	5.72617	0.1757343	0.27536582	2.3398932	20	6 24.9	21.0
366820	2005	GY ₅₁	15.4	X	261.96961	165.89037	35.89668	11.28285	0.094574	0.17493380	3.1663110	20	—	—
366821	2005	GG ₅₉	17.3	X	186.78371	213.56916	183.79868	24.57677	0.0796673	0.39471438	1.8405491	20	4 21.7	19.5
366822	2005	GT ₇₁	17.4	X	328.60769	145.20725	169.30743	4.30093	0.0953692	0.27593202	2.3366912	20	7 12.4	19.6
366823	2005	GJ ₇₂	17.7	X	321.85424	192.85594	50.18474	2.14416	0.1530048	0.26780608	2.4263444	20	3 7.5	20.4
366824	2005	GY ₉₄	17.5	X	26.85890	125.41180	64.90363	3.50323	0.1397289	0.26335032	2.4105352	20	4 23.6	19.5
366825	2005	GJ ₂₁₅	16.3	X	210.36998	174.17603	62.32728	8.16074	0.1117438	0.23725125	2.5842253	20	—	—
366826	2005	GK ₂₁₅	16.0	X	277.47497	88.09127	106.45661	10.23986	0.1773784	0.17823680	3.1270714	20	—	—
366827	2005	JQ ₆₅	17.0	X	334.16203	324.29310	273.52635	7.64085	0.1612229	0.26009839	2.4305857	20	3 13.2	19.7
366828	2005	JZ ₆₇	16.8	X	316.37849	327.59524	276.87843	4.32964	0.2853653	0.25627033	2.4547306	20	2 7.4	20.0
366829	2005	JT ₁₂₉	17.2	X	285.73694	222.31407	105.61197	3.26063	0.1819852	0.26274288	2.4142491	20	5 7.9	20.3
366830	2005	JT ₁₆₇	16.9	X	332.49318	132.37622	107.90578	7.44358	0.0724597	0.25801030	2.4436820	20	4 5.1	19.8
366831	2005	LU ₆	17.4	X	286.64230	132.78172	163.64734	1.24220	0.1743090	0.25638331	2.4540093	20	3 27.7	20.6
366832	2005	LH ₂₀	17.4	X	329.90050	132.66555	130.65392	6.49221	0.0878704	0.25994431	2.4315461	20	4 30.9	20.2
366833	2005	MC	16.5	X	179.59145	125.03409	287.32972	27.28871	0.5924706	0.23304761	2.6152083	20	5 6.8	22.7
366834	2005	MA ₅₀	17.2	X	255.08803	184.68384	113.60392	6.45604	0.2239488	0.24510051	2.5287540	20	2 23.6	21.3
366835	2005	NV ₅₅	17.4	X	173.04309	30.78182	281.36186	17.66527	0.0758758	0.36345650	1.9446186	20	—	—
366836	2005	NP ₆₇	16.7	X	88.32339	92.40485	268.53385	17.20453	0.0966275	0.35394305	1.9793099	20	—	—
366837	2005	OX ₃	17.2	X	228.88628	222.98721	108.34007	15.15552	0.2720561	0.24373348	2.5382005	20	3 14.8	21.9
366838	2005	OX ₂₅	18.3	X	224.77120	140.46239	192.79744	3.74560	0.2771528	0.24186497	2.5512562	20	3 7.5	22.9
366839	2005	PF	17.2	X	221.51791	248.49080	101.62727	11.32529	0.4612374	0.24102486	2.5571811	20	3 26.0	22.6
366840	2005	QW ₁₇	17.5	X	231.56537	168.56918	147.67521	7.15185	0.2761659	0.23995123	2.5648033	20	2 22.6	21.9
366841	2005	QN ₇₁	16.5	X	174.36657	183.48502	177.79930	20.65875	0.3151047	0.23316676	2.6143172	20	3 6.6	21.4
366842	2005	QH ₇₅	17.1	X	111.65292	274.94763	150.97470	3.01393	0.0703541	0.23651757	2.5895668	20	3 5.9	20.4
366843	2005	QO ₉₀	17.7	X	241.50983	137.99034	159.15558	2.00610	0.1894087	0.23955401	2.5676378	20	2 11.3	21.7
366844	2005	QW ₁₃₄	17.5	X	260.18559	135.45414	133.08233	2.06212	0.1630283	0.23653289	2.5894549	20	1 27.2	21.5
366845	2005	QT ₁₃₈	15.7	X	250.64479	141.53862	159.93310	9.25362	0.1665719	0.17347733	3.1840086	20	3 3.4	20.6
366846	2005	QU ₁₅₀	16.4	X	73.32829	223.07115	174.87868	12.09188	0.1745892	0.21962203	2.7207301	20	—	—
366847	2005	QQ ₁₆₀	17.5	X	197.19327	247.70304	94.24784	3.53159	0.1859815	0.23556902	2.5965136	20	2 29.6	21.9
366848	2005	QZ ₁₇₈	17.4	X	198.13292	270.36089	75.52316	4.63771	0.2106599	0.23538492	2.5978672	20	3 6.9	21.8
366849	2005	QZ ₁₈₁	17.1	X	103.23716	54.74610	359.51839	5.69678	0.0941734	0.22919014	2.6444707	20	2 14.8	20.5
366850	2005	QH ₁₈₈	17.2	X	175.99663	71.95421	270.46497	0.84981	0.0923882	0.23197750	2.6232448	20	2 6.1	21.1
366851	2005	RG ₂	16.7	X	194.38652	51.15887	303.75117	13.67968	0.2609629	0.23562099	2.5961318	20	3 6.7	21.5
366852	2005	TI	16.9	X	251.08020	23.77294	259.77374	9.72122	0.2215148	0.24144269	2.5542300	20	1 29.5	21.3
366853	2005	RY ₄₄	17.0	X	207.03768	56.19106	273.28869	11.61582	0.2142494	0.23517877	2.5993852	20	2 16.5	21.7
366854	2005	SQ ₁₃	17.1	X	170.46986	191.95894	185.71465	5.08437	0.2111139	0.23433172	2.6056455	20	3 20.2	21.5
366855	2005	SQ ₁₅	17.5	X	131.37785	78.74108	334.01817	3.25223	0.1040714	0.23295703	2.6158862	20	3 16.7	21.2
366856	2005	ST ₁₅	17.8	X	185.80987	10.67997	343.59069	4.26487	0.1713518	0.23450192	2.6043846	20	3 3.9	21.9
366857	2005	SK ₃₁	17.2	X	89.51850	211.83207	152.12139	3.39984	0.1025128	0.21604863	2.7506481	20	—	—
366858	2005	SO ₄₂	18.0	X	212.38619	115.17136	282.52447	2.22366	0.2150689	0.24391925	2.5369116	20	5 17.5	22.3
366859	2005	SY ₄₃	16.7	X	228.70221	75.05336	222.42557	4.43571	0.3274582	0.23568529	2.5956596	20	1 27.5	21.6
366860	2005	SG ₅₇	17.5	X	135.34302	38.53808	5.27892	2.57105	0.2682775	0.23072476	2.6327315	20	3 26.7	21.8
366861	2005	SE ₇₆	17.2	X	129.57446	255.00402	182.67730	12.46570	0.2490599	0.23430758	2.6058244	20	5 2.7	21.5
366862	2005	SO ₇₉	17.0	X	105.00747	247.61085	168.82037	4.54569	0.1073920	0.22889322	2.6467572	20	2 19.5	20.6
366863	2005	SJ ₈₉	16.9	X	166.67737	94.79360	230.88496	2.92317	0.1019153	0.22391368	2.6858534	20	1 8.6	20.9
366864	2005	SK ₉₀	16.9	X	246.44629	228.85022	6.99777	2.33485	0.0222720	0.22011276	2.7166847	20	—	—
366865	2005	SB ₁₁₃	15.9	X	19.86191	187.58899	230.72558	11.93361	0.1326947	0.21187373	2.7866642	20	—	—
366866	2005	SR ₁₃₃	17.3	X	86.55005	138.06788	213.73026	5.89769	0.0544802	0.21203708	2.7852328	20	—	—
366867	2005	SS ₁₄₃	17.0	X	157.81464	214.09405	148.48657	4.85366	0.0533414	0.22962216	2.6411527	20	2 8.2	20.7
366868	2005	SP ₁₅₆	17.1	X	197.21092	252.20704	63.94272	1.72873	0.1044281	0.22873999	2.6479391	20	1 28.3	21.1
366869	2005	SA ₁₅₉	17.3	X	145.22550	88.53105	292.87724	3.38713	0.1037104	0.22898692	2.6460351	20	2 21.8	21.0
366870	2005	SD ₁₆₃	16.6	X	47.03881	271.41573	185.56882							

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>		
366881	2005	<i>SD</i> ₂₆₃	17.6	X	202.58514	188.54860	150.53229	3.11333	0.2050870	0.23516151	2.5995124	20	2 29.4	22.1
366882	2005	<i>SS</i> ₂₈₅	16.6	X	196.00675	187.72269	120.09852	13.40612	0.1621328	0.22531059	2.6747405	20	1 18.4	21.0
366883	2005	<i>TJ</i> ₁₄	17.0	X	194.66889	79.87721	246.72000	4.14180	0.2412272	0.23324308	2.6137469	20	2 7.4	21.7
366884	2005	<i>TY</i> ₂₄	16.5	X	12.48611	62.48760	35.76431	5.34931	0.0995862	0.21459908	2.7630207	20	—	—
366885	2005	<i>TT</i> ₂₈	16.3	X	137.25159	71.80105	281.14920	8.37550	0.1090798	0.22443186	2.6817176	20	1 10.9	20.2
366886	2005	<i>TQ</i> ₄₀	16.6	X	111.60297	182.27136	177.60572	6.27490	0.1538648	0.21940659	2.7225108	20	—	—
366887	2005	<i>TA</i> ₄₉	17.3	X	163.08194	321.14357	44.51779	2.97549	0.2262940	0.23019351	2.6367806	20	3 2.4	21.6
366888	2005	<i>TX</i> ₅₈	16.9	X	99.31738	6.29775	41.29687	4.19645	0.1247271	0.22346937	2.6894122	20	2 6.5	20.4
366889	2005	<i>TY</i> ₇₄	16.0	X	68.93248	137.63489	250.79736	11.58120	0.1650616	0.21619390	2.7494158	20	—	—
366890	2005	<i>TU</i> ₈₉	17.5	X	185.84876	255.36534	99.80262	2.08546	0.1212391	0.23463897	2.6033704	20	3 4.8	21.4
366891	2005	<i>TS</i> ₁₀₉	17.0	X	48.39197	180.60311	214.37215	7.37077	0.0606539	0.21467814	2.7623423	20	—	—
366892	2005	<i>TU</i> ₁₂₄	16.8	X	194.15378	48.02403	217.22800	5.12065	0.0238535	0.21640084	2.7476627	20	—	—
366893	2005	<i>TD</i> ₁₃₅	17.7	X	176.41847	339.09504	34.94123	6.33198	0.2571311	0.23350240	2.6118114	20	3 24.2	22.2
366894	2005	<i>TX</i> ₁₅₁	17.2	X	80.72135	184.42601	186.62240	4.24159	0.0847522	0.21480644	2.7612423	20	—	—
366895	2005	<i>TC</i> ₁₅₂	16.7	X	89.35167	357.76694	39.23425	6.15069	0.0167649	0.21923038	2.7239694	20	—	—
366896	2005	<i>TZ</i> ₁₆₂	16.9	X	156.61358	350.87165	357.22724	5.01887	0.0778859	0.22537433	2.6742361	20	1 24.5	20.7
366897	2005	<i>TQ</i> ₁₆₆	16.8	X	82.32158	137.83895	252.75019	3.95662	0.0859897	0.21309495	2.7760073	20	—	—
366898	2005	<i>TH</i> ₁₇₁	15.8	X	131.41979	96.07538	248.53510	13.66830	0.1529826	0.22106796	2.7088534	20	—	—
366899	2005	<i>TB</i> ₁₇₂	17.1	X	188.06606	36.05616	327.41579	3.90835	0.2742204	0.23512718	2.5997654	20	3 17.3	21.8
366900	2005	<i>TM</i> ₁₉₄	17.1	X	178.13164	127.12849	209.56460	5.54166	0.0193694	0.22462403	2.6801879	20	1 27.3	20.9
366901	2005	<i>UL</i> ₁₁	16.8	X	202.60371	46.61935	264.09403	6.22377	0.2680084	0.22886788	2.6469525	20	1 26.6	21.6
366902	2005	<i>UC</i> ₁₈	17.5	X	159.61301	150.17380	222.82933	2.58307	0.2287153	0.23077838	2.6323237	20	3 6.0	21.9
366903	2005	<i>UU</i> ₄₁	17.5	X	215.12729	250.81525	95.42879	3.09884	0.3471254	0.23825766	2.5769429	20	3 16.9	22.4
366904	2005	<i>UZ</i> ₄₆	16.8	X	120.23628	313.64029	62.04321	6.50857	0.0500240	0.22001761	2.7174679	20	1 12.6	20.5
366905	2005	<i>UY</i> ₅₇	17.0	X	139.00655	358.17373	22.18610	3.97099	0.0613290	0.22484539	2.6784285	20	2 11.8	20.7
366906	2005	<i>UZ</i> ₆₄	17.3	X	177.10396	256.02235	127.94699	5.56598	0.2689613	0.23616397	2.5921510	20	4 6.1	21.9
366907	2005	<i>UN</i> ₆₅	17.1	X	188.43225	207.54357	145.68943	6.35873	0.2305250	0.23342403	2.6123960	20	3 7.1	21.6
366908	2005	<i>UV</i> ₉₃	17.6	X	184.62896	3.29534	342.40329	3.97211	0.1633173	0.22954795	2.6417220	20	2 22.2	21.7
366909	2005	<i>UG</i> ₉₈	17.0	X	89.00814	262.51156	88.54495	4.53547	0.1000278	0.21076847	2.7963978	20	—	—
366910	2005	<i>UT</i> ₁₀₆	17.2	X	191.41202	151.52074	179.90430	3.94350	0.2495584	0.22929195	2.6436879	20	2 11.8	21.8
366911	2005	<i>UK</i> ₁₄₀	17.2	X	351.15279	51.56442	75.28709	2.21633	0.0298742	0.21694694	2.7430498	20	—	—
366912	2005	<i>UU</i> ₁₅₆	16.4	X	139.04287	118.38419	216.93176	12.74232	0.1482220	0.21947712	2.7219274	20	—	—
366913	2005	<i>UY</i> ₁₅₆	15.9	X	272.12795	350.73923	227.76980	11.55408	0.0761187	0.21967939	2.7202564	20	—	—
366914	2005	<i>UL</i> ₁₈₀	17.0	X	220.27235	303.21376	200.19798	5.71760	0.1285601	0.19097226	2.9864542	20	10 9.3	21.3
366915	2005	<i>UZ</i> ₁₈₄	17.3	X	193.31348	133.56898	180.83303	1.93125	0.1974478	0.22466436	2.6798671	20	1 24.3	21.7
366916	2005	<i>UV</i> ₁₈₉	16.5	X	269.45280	334.90508	229.69232	5.43292	0.0574157	0.21503407	2.7592933	20	—	—
366917	2005	<i>UH</i> ₂₀₂	17.0	X	106.46231	175.94329	206.94425	5.11907	0.0380451	0.21883085	2.7272839	20	1 1.5	20.8
366918	2005	<i>UC</i> ₂₁₁	17.4	X	148.70534	181.27091	212.61249	5.86885	0.1349634	0.22884378	2.6471384	20	3 14.3	21.4
366919	2005	<i>UM</i> ₂₂₆	17.6	X	180.23872	292.67989	45.69964	3.83467	0.1671309	0.22731360	2.6590047	20	2 11.3	21.9
366920	2005	<i>UY</i> ₂₂₉	16.8	X	196.53379	205.03586	66.93819	6.19047	0.0197591	0.21487176	2.7606826	20	—	—
366921	2005	<i>UZ</i> ₂₅₆	16.5	X	118.28264	265.87491	60.25662	4.37616	0.0893209	0.21273463	2.7791410	20	—	—
366922	2005	<i>UU</i> ₂₇₄	16.4	X	171.29459	148.27133	237.77631	12.78294	0.2594118	0.23185205	2.6241909	20	3 29.0	21.2
366923	2005	<i>UV</i> ₂₈₆	17.1	X	127.15536	239.97612	80.13316	4.42590	0.0858095	0.21399895	2.7681840	20	—	—
366924	2005	<i>UT</i> ₂₉₆	17.3	X	178.73722	96.48322	228.21725	2.30389	0.1340914	0.22294645	2.6936159	20	1 21.5	21.6
366925	2005	<i>UA</i> ₃₀₅	16.5	X	87.84592	321.24344	90.55256	10.86705	0.1764076	0.21919337	2.7242760	20	2 5.3	20.0
366926	2005	<i>UE</i> ₃₃₁	16.3	X	191.98893	219.33130	6.94691	4.94647	0.0435103	0.20648283	2.8349588	20	12 30.1	20.3
366927	2005	<i>UC</i> ₃₅₀	15.9	X	169.94987	107.22866	255.92212	12.04019	0.2524244	0.22928804	2.6437179	20	2 27.9	20.8
366928	2005	<i>UN</i> ₃₇₄	16.5	X	145.07874	101.12623	247.49112	4.69055	0.0348115	0.21827758	2.7318905	20	1 6.2	20.3
366929	2005	<i>UY</i> ₄₃₈	16.4	X	133.46155	326.43084	88.33416	6.84549	0.3360684	0.22756569	2.6570406	20	4 15.7	21.1
366930	2005	<i>UF</i> ₄₃₉	14.9	X	198.17785	231.74258	307.58313	26.14023	0.1571777	0.17988496	3.1079413	20	10 11.9	20.4
366931	2005	<i>UA</i> ₄₄₅	16.8	X	191.21495	65.39624	282.41732	12.82267	0.1963887	0.23209717	2.6223430	20	2 24.6	21.4
366932	2005	<i>UY</i> ₄₅₄	16.2	X	188.88286	146.32676	224.19140	13.13541	0.2822405	0.23381540	2.6094800	20	3 24.1	21.1
366933	2005	<i>UT</i> ₄₆₀	17.2	X	153.56905	104.73911	256.44811	3.53987	0.1391991	0.22325854	2.6911051	20	2 9.5	21.4
366934	2005	<i>UH</i> ₄₈₀	16.7	X	127.91004	267.09166	139.37621	14.19870	0.2763253	0.22678641	2.6631239	20	3 28.7	21.2
366935	2005	<i>UG</i> ₄₈₅	17.4	X	174.04456	232.16095	135.50987	4.17998	0.2426188	0.23262586	2.6183683	20	3 13.8	21.8
366936	2005	<i>UX</i> ₅₁₃	16.8	X	84.76726	246.38899	138.96414	4.48213	0.2274715	0.21666972	2.7453891	20	1 3.1	19.9
366937	2005	<i>VH</i> ₆	16.0	X	145.04780	110.92456	254.25129	11.45845	0.2860042	0.22464923	2.6799874	20	2 14.6	20.7
366938	2005	<i>VY</i> ₃₀	16.5	X	83.42226	185.86716	230.43729	4.36293	0.1130524	0.21842871	2.7306303	20	1 22.9	19.9
366939	2005	<i>VY</i> ₃₅	16.9	X	160.85616	20.05391	268.09133	3.10414	0.0331805	0.21322008	2.7749211	20	—	—
366940	2005	<i>VP</i> ₄₉	15.7	X	82.37076	338.30589	257.08632	9.72508	0.0350422	0.18801333	3.0177062	20	8 27.5	20.2
366941	2005	<i>VS</i> ₅₄	17.4	X	197.18574	184.17493	124.01343	3.29473	0.1932183	0.22504769	2.6768232	20	1 20.5	22.0
366942	2005	<i>VU</i> ₇₇	16.9	X	126.46620	105.21764	290.36432	3.34780	0.1082199	0.22642042	2.6659929	20	2 19.2	20.7
366943	2005	<i>VO</i> ₈₅	17.2	X	197.55792	102.08945	197.98329	5.46172	0.2751414	0.22450682	2.6811207	20	1 12.1	22.0
366944	2005	<i>VE</i> ₁₁₇	16.5	X	138.71781	113.18232	246.62720	5.87963	0.0811090	0.22045704	2.7138556	20	1 17.2	20.4
366945	2005	<i>VL</i> ₁₁₈	16.7	X	204.46448	92.59031	287.86132	26.50625	0.4108789	0.23786639	2.5797681	20	4 3.9	22.4
366946	2005	<i>VF</i> ₁₂₀	15.8	X	157.70488	119.11631	267.46261	10.33027	0.3058518	0.22781995	2.6550633	20	3 20.7	20.8
366947	2005	<i>VX</i> ₁₂₆	17.4	X	253.32603	94.91450	163.91486	2.33761	0.1613843	0.23152293	2.6266773	20	1 9.7	21.6
366948	2005	<i>VK</i> ₁₃₂	16.9	X	175.00426	118.16455	150.11934	9.61463	0.1302548	0.21457194	2.7632537	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>
366961 2005 WP ₅₃	17.6	X	170.27433	292.18742	70.66426	7.98099	0.2412697	0.22840010	2.6505654	20	3 8.3	22.3
366962 2005 WD ₅₅	16.9	X	155.27476	52.29652	261.86991	1.35851	0.0352419	0.21178884	2.7874088	20	—	—
366963 2005 WY ₇₅	16.6	X	77.12471	131.63744	267.85146	5.25084	0.0738681	0.21326508	2.7745308	20	—	—
366964 2005 WP ₇₉	17.1	X	133.28782	77.35033	272.44823	2.97095	0.0816599	0.21410164	2.7672988	20	—	—
366965 2005 WN ₈₀	17.2	X	104.74106	349.21784	70.34034	1.48504	0.1186444	0.22119236	2.7078377	20	2 27.2	20.8
366966 2005 WJ ₈₁	16.7	X	84.95235	135.33682	266.08157	3.35064	0.0735879	0.21397686	2.7683745	20	1 2.6	20.1
366967 2005 WU ₉₀	17.3	X	182.33752	100.64179	289.68828	4.57002	0.3037825	0.23423361	2.6063730	20	4 13.3	22.1
366968 2005 WQ ₉₁	17.1	X	197.20443	128.08945	231.43583	3.32486	0.3296871	0.23427814	2.6060428	20	3 18.9	22.1
366969 2005 WT ₁₀₁	15.8	X	171.24624	124.48944	251.30222	12.04579	0.2803242	0.23006691	2.6377479	20	3 16.1	20.8
366970 2005 WX ₁₀₃	16.9	X	150.13464	24.03671	358.89080	3.87417	0.2268368	0.22753167	2.6573055	20	3 11.5	21.3
366971 2005 WR ₁₀₇	17.2	X	39.90403	148.17804	231.66320	1.16254	0.0778521	0.20326675	2.8647836	20	—	—
366972 2005 WU ₁₂₀	16.3	X	185.34389	119.90922	256.75131	13.36925	0.3085333	0.23289423	2.6163564	20	3 26.9	21.4
366973 2005 WC ₁₄₅	17.0	X	177.74145	60.07498	270.03300	3.65051	0.1158137	0.22062968	2.7124397	20	1 26.2	21.1
366974 2005 WP ₁₄₆	16.7	X	78.70524	2.83807	43.34461	4.64998	0.0732930	0.21456110	2.7633468	20	—	—
366975 2005 WJ ₁₅₂	16.5	X	183.76613	64.42338	263.56748	11.86756	0.2808183	0.22537203	2.6742543	20	1 31.7	21.5
366976 2005 WM ₁₅₅	16.6	X	25.60687	163.36917	278.27055	5.51256	0.0304632	0.20853754	2.8163063	20	—	—
366977 2005 WO ₁₈₄	16.2	X	130.42807	81.93378	270.46171	10.33894	0.1935450	0.22246776	2.6974785	20	1 12.5	20.1
366978 2005 WJ ₁₈₇	16.9	X	127.14877	60.65390	288.04392	3.79196	0.0866245	0.21370226	2.7707455	20	—	—
366979 2005 XS ₁₅	16.9	X	166.04214	77.99787	242.55881	3.95418	0.1592492	0.21779029	2.7359640	20	1 7.1	21.2
366980 2005 YU ₂₂	16.7	X	175.93603	58.64422	253.27562	7.08272	0.2368236	0.22002355	2.7174190	20	1 9.4	21.4
366981 2005 XV ₂₄	16.6	X	6.14710	316.11763	108.76305	13.12410	0.0354132	0.19787281	2.9166118	20	—	—
366982 2005 XM ₅₄	17.2	X	43.64266	17.36875	52.67794	5.44867	0.0396953	0.21203660	2.7852370	20	—	—
366983 2005 XR ₆₃	16.4	X	100.95601	154.25924	251.16220	10.53979	0.2252417	0.21841697	2.7307281	20	2 14.7	20.3
366984 2005 YE ₂₀	16.1	X	175.42244	269.52458	287.52077	12.64052	0.2721805	0.18198455	3.0839905	20	10 18.1	21.8
366985 2005 YU ₂₁	16.2	X	128.94166	236.19498	88.81394	3.11788	0.0574212	0.20306983	2.8666353	20	—	—
366986 2005 YP ₂₄	15.8	X	185.42184	169.43307	110.03051	6.78553	0.0300711	0.20458106	2.8525007	20	—	—
366987 2005 YV ₄₁	15.7	X	212.30052	36.41008	107.00780	10.63957	0.0518642	0.18250872	3.0780828	20	10 13.1	20.3
366988 2005 YX ₄₇	15.7	X	29.88546	225.72112	107.89755	11.80349	0.0337148	0.18477128	3.0529034	20	11 1.9	20.1
366989 2005 YS ₈₁	15.8	X	143.63851	103.64600	114.63006	10.61592	0.0374607	0.18399612	3.0614719	20	10 27.2	20.4
366990 2005 YU ₈₁	16.4	X	127.17615	203.60013	122.80601	7.07327	0.0804381	0.20276420	2.8695152	20	—	—
366991 2005 YC ₁₂₈	15.6	X	279.00036	342.28886	100.02959	10.52091	0.0515872	0.18517612	3.0484522	20	10 20.1	19.9
366992 2005 YF ₁₅₈	16.9	X	98.96544	149.62908	229.68627	3.10080	0.1135865	0.21011325	2.8022083	20	—	—
366993 2005 YO ₁₆₇	15.8	X	169.43495	93.11609	124.70120	12.33002	0.1969666	0.18437227	3.0573066	20	11 17.7	21.1
366994 2005 YF ₁₈₆	16.4	X	185.31962	181.78410	252.01336	10.87284	0.1498738	0.23413815	2.6070815	20	6 10.3	20.4
366995 2005 YR ₁₈₈	16.0	X	146.38625	70.00234	303.25861	29.54252	0.2233921	0.21734646	2.7396873	20	2 15.5	20.8
366996 2005 YE ₂₀₀	16.8	X	156.24762	241.13751	337.19578	2.37855	0.2389948	0.18130951	3.0916405	20	11 2.7	22.2
366997 2005 YY ₂₃₄	16.3	X	44.33865	242.92303	82.96334	3.20405	0.0944839	0.18786222	3.0193242	20	11 15.2	20.5
366998 2005 YW ₂₆₆	16.3	X	240.54596	3.91933	356.81061	3.01055	0.2156912	0.23721960	2.5845551	20	4 25.7	20.4
366999 2006 AS ₁	15.9	X	331.03575	135.59795	270.92206	8.82241	0.0367093	0.18820157	3.0156936	20	11 8.9	20.0
367000 2006 AY ₈	16.4	X	17.46048	262.44469	124.74143	10.50795	0.119751	0.19497923	2.9453968	20	12 29.5	20.2
367001 2006 AQ ₁₀	15.5	X	160.43213	86.69187	110.41056	24.94987	0.2612794	0.17649796	3.1475762	20	10 24.1	21.5
367002 2006 AG ₁₅	16.8	X	63.11244	97.76986	297.09719	9.30766	0.1170258	0.20314660	2.8659131	20	—	—
367003 2006 AU ₁₅	17.2	X	140.38078	67.93312	335.50303	9.83801	0.3258149	0.22566213	2.6719619	20	3 31.0	22.1
367004 2006 AK ₅₆	16.4	X	119.49173	63.64934	293.53305	12.54776	0.0975078	0.20899411	2.8122031	20	—	—
367005 2006 AL ₆₁	15.7	X	55.48486	39.00928	287.11182	9.00095	0.1047843	0.18765033	3.0215967	20	11 29.2	20.0
367006 2006 AM ₆₇	15.8	X	137.71538	358.22178	279.07396	9.11927	0.0682764	0.19249640	2.9706693	20	12 27.4	20.1
367007 2006 AT ₇₂	15.8	X	333.58125	164.48352	293.88913	8.11638	0.0334906	0.19577607	2.9373992	20	—	—
367008 2006 AA ₇₈	16.0	X	131.41598	148.33538	122.38228	15.06694	0.0527658	0.19008122	2.9957799	20	12 14.1	20.6
367009 2006 AT ₁₀₅	15.9	X	47.63202	211.50343	145.38770	11.38075	0.1278076	0.19007056	2.9958920	20	12 31.3	20.3
367010 2006 AG ₁₀₆	16.7	X	206.76181	313.45086	269.21432	0.63920	0.1017687	0.19258877	2.9697194	20	—	—
367011 2006 BK ₃₆	16.4	X	356.95336	96.02254	339.29109	7.55352	0.0450625	0.19490797	2.9461147	20	—	—
367012 2006 BB ₅₆	16.3	X	138.31120	295.34800	323.06606	4.67049	0.0236580	0.18494005	3.0510459	20	12 2.9	20.8
367013 2006 BA ₉₆	16.4	X	267.54867	178.59437	327.06360	6.00433	0.0611686	0.18693322	3.0293194	20	12 16.1	20.6
367014 2006 BV ₁₀₂	15.5	X	223.55079	326.85312	144.83729	14.47255	0.0941721	0.17569617	3.1571449	20	9 7.7	20.3
367015 2006 BO ₁₀₂	16.3	X	95.88943	45.36819	312.79005	11.05575	0.0704357	0.19772924	2.9180235	20	—	—
367016 2006 BR ₁₀₆	16.7	X	66.12597	22.08335	344.72118	1.84735	0.0538277	0.19623338	2.9328338	20	—	—
367017 2006 BN ₁₁₃	16.4	X	143.06982	228.73869	345.98898	3.43969	0.1613252	0.17648835	3.1476904	20	10 18.1	21.5
367018 2006 BH ₁₂₀	16.3	X	11.70269	116.52566	304.31182	8.65415	0.1052505	0.19461151	2.9491059	20	—	—
367019 2006 BV ₁₂₁	16.7	X	74.31116	227.55108	126.05544	6.86771	0.0849096	0.19431124	2.9521433	20	—	—
367020 2006 BF ₁₃₀	16.3	X	148.82659	56.71090	161.19635	10.69761	0.0513451	0.17707913	3.1406856	20	10 29.8	21.1
367021 2006 BW ₁₃₄	16.6	X	159.27923	290.61661	324.43298	8.86539	0.0369320	0.19030869	2.9933923	20	12 24.7	21.1
367022 2006 BR ₁₇₄	16.2	X	26.46914	303.63677	115.40136	12.19811	0.0896916	0.19841390	2.9113069	20	—	—
367023 2006 BP ₁₇₇	16.2	X	162.08777	75.73292	147.20480	11.53570	0.0933247	0.18356068	3.0663115	20	11 19.2	21.1
367024 2006 BJ ₁₉₄	17.8	X	99.30843	314.65879	306.23352	7.35052	0.0673453	0.31605709	2.1344813	20	11 18.2	20.6
367025 2006 BB ₂₅₅	16.7	X	214.60470	249.25114	290.09214	1.00898	0.0929875	0.18426126	3.0585343	20	11 18.2	21.1
367026 2006 BX ₂₇₄	16.0	X	206.59102	196.08101	343.77190	9.21508	0.0804017	0.18021295	3.1041692	20	11 7.6	20.7
367027 2006 BY ₂₇₅	16.3	X	105.49666	142.67139	109.39977	5.79118	0.1521934	0.17216018	3.2002280	20	10 30.6	21.4
367028 2006 BF ₂₇₆	18.2	X	92.39715	29.06117	163.64685	4.56929	0.0952824	0.29913220	2.2142531	20	8 6.7	21.0
367029 2006 CC	15.8	X	219.63881	209.02219	320.40531	9.23905	0.2007453	0.18293970	3.0732466	20	10 27.3	20.9
367030 2006 CC ₁₀	16.5	X	304.41197	311.01379	184.63548	14.91654	0.1842219	0.19632490	2.9319223	20	—	—
367031 2006 CJ ₁₁	16.6	X	81.02953	232.77589	131.65482	10.37436	0.0496346	0.19904813	2.9051193	20	—	—
367032 2006 CF ₁₆	18.1	X	88.20475	134.36650	125.91758	1.07509	0.0949843	0.31478786	2.1402150	20	11 8.4	20.6
367033 2006 CV ₅₈	17.2	X	157.86021	269.13386	125.40159	8.44501	0.3452703	0.22573013	2.6714252	20	4 9.5	22.3
367034 2006 CR ₆₁	15.5	X	150.53778	63.73383	13							

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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>
367041 2006 DW ₁₉₅	15.9 ^m	X	172.76257	71.93159	118.88660	10.81966	0.1797652	0.17640469	3.1486856	20	10 20.9	21.3
367042 2006 EH ₅	18.1	X	169.88354	169.83951	16.74295	4.42137	0.0465877	0.31353040	2.1459336	20	11 4.1	20.7
367043 2006 EE ₁₀	16.2	X	188.48546	98.18785	66.67189	2.10607	0.1387010	0.17368899	3.1814214	20	10 1.8	21.2
367044 2006 ER ₁₀	16.1	X	69.32420	259.58831	63.04757	2.45952	0.1506868	0.17768392	3.1335549	20	12 14.6	20.8
367045 2006 EC ₃₅	16.1	X	214.55450	130.82534	21.54466	6.36715	0.1357592	0.17619745	3.1511541	20	10 11.8	20.9
367046 2006 FR ₁₄	17.9	X	70.92150	71.55757	167.56340	3.16124	0.1423526	0.29841084	2.2178201	20	9 22.1	20.6
367047 2006 FL ₃₆	17.9	X	26.06564	278.52335	326.91768	0.44958	0.2176583	0.29001407	2.2604245	20	8 3.7	19.6
367048 2006 FV ₄₃	16.1	X	223.69707	120.46739	33.54047	6.48231	0.1838288	0.17892612	3.1190348	20	10 18.7	20.8
367049 2006 GK ₄₇	16.3	X	277.17549	285.23274	207.44562	12.05716	0.1386351	0.18181900	3.0858623	20	12 2.8	20.3
367050 2006 HW ₁₂	17.6	X	121.38783	54.37850	96.75882	5.00627	0.0761214	0.29249553	2.2476217	20	7 13.5	20.4
367051 2006 HR ₃₁	16.3	X	221.15836	197.35410	318.04400	1.94911	0.0663094	0.17664022	3.1458860	20	10 28.9	20.8
367052 2006 JO ₂₃	18.2	X	24.93129	324.55783	352.53384	0.65676	0.1524745	0.30000539	2.2099546	20	11 10.6	20.5
367053 2006 JA ₄₃	17.9	X	13.49943	70.24410	203.83858	6.73742	0.1154706	0.28988553	2.2610927	20	8 5.5	20.1
367054 2006 JL ₄₅	18.0	X	52.22342	101.12794	158.69134	5.69562	0.1562479	0.29476601	2.2360651	20	9 29.6	20.6
367055 2006 JO ₆₅	16.9	X	26.06286	202.73038	196.66103	1.47148	0.1479860	0.18895111	3.0077132	20	—	—
367056 2006 KO ₃₀	17.8	X	80.30902	344.26150	246.82089	2.36545	0.1226347	0.29589672	2.2303650	20	9 17.8	20.8
367057 2006 KG ₄₂	18.2	X	336.48978	104.93103	224.02464	5.67778	0.1620102	0.29086787	2.2559989	20	8 19.9	19.8
367058 2006 KU ₄₇	18.2	X	8.61504	122.79338	184.63334	3.18581	0.1735449	0.29307235	2.2446716	20	10 1.7	20.0
367059 2006 KD ₅₂	17.7	X	10.08860	230.79640	86.99142	7.84700	0.1086804	0.29603071	2.2296920	20	10 15.3	20.0
367060 2006 KK ₅₅	18.2	X	7.58623	116.96988	180.46641	3.05463	0.1587324	0.29087903	2.2559412	20	9 9.8	19.9
367061 2006 KM ₆₉	15.5	X	348.54822	243.91248	88.33359	11.10742	0.0484228	0.15587532	3.4194097	20	9 1.9	20.2
367062 2006 KA ₈₈	18.8	X	76.07998	327.33629	250.16165	1.82424	0.1183937	0.29301175	2.2449811	20	8 23.5	21.5
367063 2006 MT ₅	17.4	X	342.60452	14.78271	290.37541	5.45351	0.2003460	0.28199324	2.3030865	20	7 24.5	18.7
367064 2006 MH ₇	17.0	X	339.51643	24.23817	271.56833	7.68110	0.1296353	0.27981394	2.3150293	20	7 2.5	18.8
367065 2006 MD ₁₀	17.6	X	317.27345	41.15711	301.80035	1.73847	0.2419638	0.28170960	2.3046322	20	7 18.5	19.1
367066 2006 OP ₁₀	17.7	X	323.91300	27.60601	286.96028	6.27552	0.2617123	0.27729930	2.3290038	20	6 9.8	19.4
367067 2006 OJ ₂₀	17.5	X	327.70012	260.53538	71.77688	4.87201	0.2309386	0.28154534	2.3055284	20	8 1.5	18.7
367068 2006 PE ₈	17.4	X	265.68194	247.99992	134.53522	8.10881	0.2194583	0.27510856	2.3413517	20	6 20.9	20.5
367069 2006 PK ₉	17.4	X	320.26586	12.94755	325.77253	5.66934	0.1872640	0.27989910	2.3145597	20	7 27.9	19.1
367070 2006 PS ₁₀	18.0	X	334.03881	25.08833	271.92986	1.71390	0.1758974	0.27669800	2.3323768	20	6 18.1	19.8
367071 2006 PK ₁₅	18.0	X	327.30294	141.50943	151.74304	2.83394	0.2166605	0.27483194	2.3429224	20	5 21.3	19.7
367072 2006 PV ₁₉	17.5	X	320.46378	191.44181	135.37506	3.04725	0.2204703	0.27801562	2.3250016	20	6 30.6	19.0
367073 2006 PZ ₁₉	17.0	X	269.17428	221.81825	142.71028	9.40621	0.2984091	0.27159759	2.3614863	20	5 22.6	20.6
367074 2006 PA ₂₁	17.5	X	295.94466	193.99108	153.37740	5.85262	0.2511789	0.27634484	2.3343635	20	6 8.3	20.1
367075 2006 PK ₂₁	17.3	X	276.55707	274.85181	112.76351	3.54219	0.2475027	0.27721505	2.3294757	20	7 8.1	20.1
367076 2006 PA ₂₅	17.3	X	319.69976	166.33590	145.16898	2.45611	0.2242497	0.27642078	2.3339359	20	6 2.0	19.1
367077 2006 PY ₂₈	16.7	X	315.09656	220.80572	106.20332	22.80565	0.1970789	0.27627156	2.3347762	20	6 23.9	18.8
367078 2006 PH ₂₉	17.9	X	338.07366	109.15014	204.19189	1.89004	0.2124065	0.28123546	2.3072217	20	7 25.9	19.2
367079 2006 QY ₁	17.5	X	269.07039	252.06881	102.66424	3.64054	0.2252857	0.27123515	2.3635896	20	5 17.0	20.8
367080 2006 QV ₄	17.4	X	333.99338	64.96337	192.33045	2.34625	0.1942359	0.26984078	2.3717250	20	4 10.2	19.6
367081 2006 QT ₆	17.2	X	225.77663	222.84285	145.50920	6.82700	0.2394889	0.26375496	2.4080692	20	4 23.5	21.3
367082 2006 QC ₈	16.1	X	3.05022	177.98279	152.28693	8.92995	0.1248957	0.21451977	2.7637017	20	10 3.4	19.3
367083 2006 QS ₉	17.3	X	300.75011	3.35900	333.01724	3.70028	0.2484374	0.27334521	2.3514102	20	5 29.4	19.9
367084 2006 QT ₁₃	17.3	X	327.34816	80.02662	260.62195	4.55181	0.2500687	0.28154580	2.3055260	20	8 10.3	18.4
367085 2006 QY ₃₁	17.5	X	289.73255	69.92945	278.83403	3.34678	0.1834410	0.27435205	2.3456538	20	6 11.6	19.9
367086 2006 QY ₄₂	17.2	X	251.69149	42.89304	348.96470	4.71068	0.2287784	0.27009679	2.3702260	20	6 15.3	20.7
367087 2006 QE ₄₃	17.6	X	212.18116	216.11020	153.30697	5.47321	0.2492063	0.26061753	2.4273569	20	4 12.9	21.8
367088 2006 QE ₅₃	17.8	X	272.55734	268.95878	94.89744	2.29951	0.1998753	0.27225556	2.3576801	20	6 6.0	20.8
367089 2006 QZ ₇₉	14.9	X	261.42720	182.88553	170.90160	9.34612	0.1880518	0.12589405	3.9427500	20	5 15.8	20.8
367090 2006 QH ₉₁	17.2	X	332.97873	45.08031	250.36119	5.42086	0.1865976	0.27679554	2.3318288	20	6 11.5	18.7
367091 2006 QO ₉₅	17.5	X	280.94484	235.32282	116.82183	1.91828	0.1692988	0.27276085	2.3547674	20	6 5.9	20.3
367092 2006 QF ₉₇	17.5	X	238.55595	240.99349	155.79413	2.47895	0.2250852	0.26909620	2.3760980	20	6 9.2	21.2
367093 2006 QR ₁₁₂	17.0	X	290.37345	259.55852	88.24570	5.59757	0.2293447	0.27355888	2.3501856	20	6 3.4	19.6
367094 2006 QR ₁₃₁	17.8	X	306.88600	76.13123	249.18472	5.39249	0.1354600	0.27480067	2.3431002	20	6 13.7	20.1
367095 2006 QU ₁₆₅	17.4	X	273.31792	129.84766	233.63365	4.11094	0.1710053	0.27162795	2.3613104	20	6 11.1	20.2
367096 2006 QK ₁₈₇	17.3	X	279.45960	97.51959	262.00637	5.51468	0.1580989	0.27326857	2.3518499	20	6 16.2	20.1
367097 2006 QN ₁₈₇	17.6	X	301.28966	220.45226	103.06806	4.03489	0.2083327	0.27151425	2.3619696	20	5 20.1	20.2
367098 2006 RP ₄	17.6	X	262.38633	12.27203	8.90706	5.12556	0.2279262	0.27051334	2.3677923	20	6 12.7	20.9
367099 2006 RV ₅	17.4	X	308.77234	16.58988	310.34706	1.48995	0.2372033	0.27179142	2.3603635	20	6 1.1	19.4
367100 2006 RC ₁₀	17.1	X	249.83981	24.27337	358.91565	6.12364	0.1993333	0.26915376	2.3757592	20	6 4.2	20.6
367101 2006 RX ₁₁	15.0	X	260.87253	179.19881	194.71834	4.78483	0.2488071	0.12570647	3.9466713	20	5 30.6	21.1
367102 2006 RD ₁₆	17.8	X	256.61918	146.73855	235.94685	1.56472	0.2185791	0.27038287	2.3685539	20	6 9.9	21.3
367103 2006 RC ₂₀	17.7	X	295.02000	154.04211	193.59738	2.25019	0.2331645	0.27404929	2.3473810	20	6 9.8	20.3
367104 2006 RM ₂₁	17.8	X	261.62962	186.35354	182.23198	1.08944	0.2062347	0.26860463	2.3789960	20	5 29.1	21.2
367105 2006 RK ₂₂	16.9	X	229.26580	122.48211	245.22545	12.82988	0.2795205	0.26382218	2.4076601	20	4 18.2	21.3
367106 2006 RR ₃₀	17.1	X	263.57787	17.59836	359.05291	3.04934	0.2514192	0.27075888	2.3663605	20	6 4.7	20.4
367107 2006 RK ₄₀	17.3	X	250.11537	303.33149	91.95092	2.24971	0.1880573	0.27041181	2.3683849	20	6 23.6	20.5
367108 2006 RX ₅₅	18.6	X	255.06052	184.98170	146.07329	1.46907	0.2452693	0.26208636	2.4182792	20	3 30.6	22.5
367109 2006 RQ ₇₇	18.0	X	311.99657	139.13107	167.96662	6.02958	0.2442848	0.27127805	2.3633404	20	5 8.0	20.4
367110 2006 RB ₈₉	18.0	X	330.94899	39.66598	243.28829	2.03647	0.2084776	0.26945049	2.3740147	20	5 12.7	19.7
367111 2006 SQ ₁₇	17.5	X	240.91592	22.79217	309.12672	1.80377	0.1809449	0.25877460	2.4388680	20	3 22.7	21.2
367112 2006 ST ₂₄	18.1	X	274.84434	87.48597	260.46173	4.12244	0.1674088	0.26856553	2.3792269	20	5 22.1	21.0
367113 2006 SM ₂₆	17.1	X	235.43860	143.04264	239.34279	5.84738	0.1492369	0.26593616				

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>
367121 2006 SH ₁₀₉	17.9	X	274.76558	286.00487	46.86846	3.19749	0.1985537	0.26483697	2.4015058	20	4 27.2	21.2
367122 2006 SC ₁₂₈	15.2	X	294.34954	40.32670	292.16330	1.89409	0.2398542	0.12646033	3.9309709	20	5 18.1	20.6
367123 2006 SS ₁₂₉	17.4	X	33.96100	112.45746	229.65686	6.45826	0.1733393	0.29188105	2.2507752	20	12 27.8	20.3
367124 2006 SE ₁₃₁	18.1	X	315.87681	169.90671	143.53491	1.86588	0.1925882	0.27459036	2.3442964	20	6 2.6	20.1
367125 2006 SB ₁₄₅	17.1	X	344.07560	30.08607	189.40789	3.97110	0.1491772	0.25582236	2.4575954	20	3 10.8	19.7
367126 2006 SE ₁₈₃	17.8	X	241.06710	265.77035	125.11182	0.39665	0.2131843	0.26693645	2.3888972	20	6 4.8	21.4
367127 2006 SP ₂₀₂	15.0	X	256.59008	8.90252	5.54931	4.40926	0.2031546	0.12391927	3.9845274	20	5 30.7	21.1
367128 2006 SO ₂₄₆	15.2	X	258.37160	342.47958	34.55477	1.77022	0.2428179	0.12507391	3.9599671	20	5 31.7	21.1
367129 2006 ST ₃₀₆	17.2	X	170.73960	334.23972	105.62918	3.16496	0.1852215	0.25790558	2.4443434	20	6 4.9	21.1
367130 2006 SF ₃₁₄	17.4	X	339.92800	98.57947	127.68456	2.03500	0.1395619	0.25608003	2.4559465	20	3 16.1	19.8
367131 2006 SQ ₃₅₅	17.4	X	334.16129	221.33730	72.06878	4.71575	0.2219703	0.27346379	2.3507304	20	6 5.9	18.9
367132 2006 SM ₃₆₁	17.5	X	279.32513	241.77261	76.44916	2.77098	0.1790152	0.26133570	2.4229078	20	4 16.8	20.7
367133 2006 SQ ₄₀₃	17.1	X	178.73680	160.59206	262.60292	8.04193	0.1836896	0.25838707	2.4413059	20	5 20.9	21.2
367134 2006 TZ ₇	17.9	X	144.44408	210.98396	212.76701	21.56161	0.0613600	0.39879384	1.8279757	20	3 25.9	19.8
367135 2006 TX ₂₉	15.5	X	283.79814	166.27549	192.04687	2.57709	0.2214954	0.12407657	3.9811592	20	6 8.5	21.1
367136 2006 TK ₃₁	18.2	X	280.71456	141.07680	179.63972	1.20161	0.1795291	0.26303337	2.4124712	20	4 20.9	21.5
367137 2006 SP ₂₀₂	17.3	X	295.86190	268.79910	46.09634	3.51230	0.2000716	0.26382060	2.4076697	20	4 29.8	20.8
367138 2006 TX ₄₇	17.6	X	246.18426	316.02420	44.42285	2.50755	0.1698113	0.26136646	2.4227177	20	5 5.3	21.1
367139 2006 TL ₆₈	15.2	X	285.53342	297.24312	39.74908	3.42094	0.1949951	0.12368173	3.9896276	20	5 19.1	20.8
367140 2006 TN ₈₁	17.5	X	209.21903	147.18362	242.06115	5.26227	0.1278843	0.25846444	2.4408187	20	5 7.4	21.2
367141 2006 TX ₉₅	18.4	X	85.43315	218.22732	212.32828	22.14304	0.0978832	0.38506166	1.8711813	20	1 2.2	20.4
367142 2006 TT ₉₆	16.6	X	35.93702	195.14066	238.91862	12.08345	0.2614693	0.22904203	2.6456106	20	—	—
367143 2006 TD ₁₀₂	17.6	X	151.42557	193.82489	263.53660	1.16950	0.1577759	0.25719662	2.4488332	20	6 7.8	21.4
367144 2006 UM ₂₃	17.2	X	60.92205	211.86745	226.59085	4.97542	0.0528343	0.23846510	2.5754482	20	1 8.5	20.4
367145 2006 UD ₄₆	17.5	X	214.87583	320.14503	75.88558	3.39105	0.2198055	0.25952723	2.4341505	20	5 17.9	21.5
367146 2006 UE ₄₉	16.9	X	342.13453	358.68738	242.64894	5.88802	0.0844877	0.26243549	2.4161339	20	4 14.5	19.5
367147 2006 UG ₆₁	17.6	X	270.62376	130.48112	237.01647	5.05727	0.2521654	0.26954129	2.3734815	20	5 31.9	20.6
367148 2006 UZ ₆₄	17.7	X	228.21795	19.93447	14.38483	0.56100	0.2263782	0.26436912	2.4043383	20	5 26.7	21.5
367149 2006 UU ₇₀	17.4	X	240.68259	248.59532	126.48670	6.17302	0.2005551	0.26258937	2.4151899	20	5 17.8	21.2
367150 2006 UH ₉₈	17.3	X	289.57476	196.19183	118.54219	3.13239	0.2235170	0.26392160	2.4070554	20	4 18.6	20.4
367151 2006 UL ₁₁₈	16.3	X	292.23657	18.73148	197.61991	4.97365	0.1879423	0.24155367	2.5534476	20	—	—
367152 2006 UP ₁₄₃	17.7	X	274.23705	189.12748	195.08773	4.87787	0.2377414	0.27149231	2.3620968	20	6 30.7	20.6
367153 2006 UM ₁₉₉	18.0	X	263.50762	151.93505	191.23226	1.86696	0.2184024	0.26503097	2.4003337	20	4 25.8	21.4
367154 2006 UE ₂₃₁	17.7	X	262.76809	242.48855	140.31194	4.37656	0.2037820	0.26976586	2.3721641	20	6 19.5	21.0
367155 2006 UA ₂₄₃	17.1	X	316.67759	127.63474	32.53054	2.76618	0.0990699	0.23499774	2.6007199	20	—	—
367156 2006 UM ₂₄₈	17.1	X	268.04014	205.23357	39.41758	6.25363	0.1994826	0.24394306	2.5367465	20	1 2.5	21.1
367157 2006 UR ₂₅₂	17.1	X	209.39155	248.85019	35.84995	2.10274	0.1437104	0.24004627	2.5641263	20	—	—
367158 2006 VY ₂₂	17.7	X	226.70085	175.53431	176.71352	0.91109	0.2010033	0.25544229	2.4600325	20	4 4.1	21.6
367159 2006 VZ ₂₉	17.3	X	260.43422	26.00120	317.72670	1.52459	0.1856319	0.25938652	2.4350308	20	4 26.2	20.8
367160 2006 VX ₃₃	17.2	X	327.73931	334.43068	226.11284	7.28216	0.0858679	0.24068021	2.5596218	20	1 28.2	20.6
367161 2006 VA ₄₃	16.4	X	267.12274	338.36033	246.17520	11.60768	0.0405487	0.23414211	2.6070520	20	—	—
367162 2006 VB ₆₇	17.7	X	263.45055	190.90964	174.63958	1.32117	0.2027168	0.26593887	2.3948675	20	5 27.7	21.0
367163 2006 VU ₇₉	17.2	X	129.80736	159.95880	210.47822	7.15627	0.0550860	0.23583788	2.5945398	20	1 13.6	20.8
367164 2006 VN ₁₂₄	17.0	X	281.85592	238.66583	294.33448	2.01260	0.0556462	0.22350111	2.6891576	20	—	—
367165 2006 VC ₁₃₉	17.3	X	145.47706	169.03200	248.04283	1.91828	0.2016313	0.24158828	2.5532038	20	4 14.5	21.3
367166 2006 WR ₅₄	16.2	X	281.39556	315.76734	259.05474	11.98746	0.1254008	0.22913655	2.6448831	20	—	—
367167 2006 WR ₅₅	17.0	X	129.71339	344.31011	81.82109	5.19098	0.2162444	0.24084295	2.5584686	20	4 15.4	21.0
367168 2006 WZ ₈₆	16.3	X	74.61866	152.29325	262.71885	11.11870	0.1676969	0.23110970	2.6298073	20	1 12.1	19.2
367169 2006 WT ₁₂₃	16.2	X	42.58113	163.15990	293.45456	10.78031	0.1212276	0.22332812	2.6905461	20	1 12.4	18.9
367170 2006 WQ ₁₇₅	16.0	X	155.12001	96.59680	268.14481	13.08809	0.1299597	0.24051410	2.5608002	20	2 8.8	20.1
367171 2006 WO ₂₀₀	16.9	X	99.47706	126.42507	297.12211	11.31204	0.1089951	0.23161667	2.6259684	20	2 18.2	20.5
367172 2006 XT ₅	17.1	X	123.71233	269.13730	129.55000	5.12490	0.2283614	0.24145073	2.5541733	20	3 6.6	20.9
367173 2006 XN ₁₆	17.0	X	197.86265	59.69780	321.28847	4.07870	0.1528765	0.24740655	2.5130160	20	4 13.8	21.0
367174 2006 XB ₁₉	16.8	X	130.99786	119.98791	269.32956	3.82651	0.2687971	0.23838864	2.5759990	20	3 3.2	20.9
367175 2006 XP ₂₅	16.6	X	162.21054	269.93679	109.74984	5.53190	0.2831714	0.24239124	2.5475620	20	3 21.7	21.2
367176 2006 XK ₂₆	15.6	X	123.94103	265.43341	284.23457	9.59735	0.0586066	0.18692107	3.0294506	20	8 23.3	20.2
367177 2006 XG ₂₇	16.7	X	224.07943	87.08503	275.51983	5.32887	0.1660679	0.25254229	2.4788294	20	4 14.1	20.7
367178 2006 XF ₃₅	16.4	X	5.31715	182.34971	269.28856	4.19110	0.1931111	0.21983704	2.7189557	20	—	—
367179 2006 XS ₅₈	16.5	X	217.11107	264.69742	91.66374	9.59284	0.2100250	0.24743879	2.5127977	20	4 5.9	20.8
367180 2006 XC ₆₈	17.1	X	242.08962	186.52455	121.87479	1.40677	0.1394368	0.24641479	2.5197543	20	2 28.6	21.0
367181 2006 YT	17.6	X	232.45699	303.69762	72.18584	3.28444	0.2587480	0.25842832	2.4410461	20	5 5.5	21.6
367182 2006 YC ₇	16.2	X	154.75443	274.65681	122.83362	15.37608	0.1078338	0.24460390	2.5321755	20	3 29.8	20.2
367183 2006 YC ₁₁	18.3	X	177.65691	103.25669	289.96380	18.85201	0.1311389	0.39135225	1.8510756	20	3 21.3	21.3
367184 2006 YN ₁₇	16.2	X	287.98987	62.41927	103.04065	9.06271	0.1924463	0.21297996	2.7770065	20	—	—
367185 2006 YZ ₂₅	16.9	X	303.17413	165.81088	16.28687	3.09139	0.0853295	0.22266505	2.6958849	20	—	—
367186 2006 YR ₃₄	17.7	X	157.54740	4.73602	45.77259	3.33464	0.1633343	0.24329590	2.5412429	20	4 16.2	21.6
367187 2006 YY ₃₆	16.4	X	272.12622	95.91977	102.04134	13.93766	0.1226314	0.21630517	2.7484729	20	—	—
367188 2006 YU ₄₄	15.9	X	179.43360	356.70088	319.70119	11.29728	0.0384497	0.22330552	2.6907277	20	1 8.5	19.8
367189 2006 YD ₄₆	16.3	X	322.55377	253.87155	280.04938	11.97543	0.0697055	0.22291766	2.6938479	20	—	—
367190 2006 YR ₄₈	16.1	X	25.87117	331.77210	135.63808	16.98047	0.1462040	0.22228100	2.6989892	20	—	—
367191 2007 AL ₁₀	17.1	X	28.47253	204.64043	299.93531	18.66808	0.0656573	0.37840641	1.8930572	20	1 21.6	18.4
367192 2007 AV ₂₄	16.7	X	122.12118	331.14786	95.01112	4.89542	0.1557558	0.23826004	2.5769258	20	4 1.6	20.4
367193 2007 AT ₂₅	17.0	X	269.59411	313.31525	294.38596	17.99756	0.0646886	0.37393985	1.9081018	20	—	—
367194 2007 AY _{25</}												

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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>
367201 2007 BL ₆₅	16.8	X	126.44562	238.97518	146.95374	8.96582	0.0838252	0.22480291	2.6787659	20	2 4.7	20.5
367202 2007 CZ ₄	16.7	X	126.64268	52.00074	316.41976	4.21127	0.0811995	0.22202490	2.7010643	20	1 15.1	20.3
367203 2007 CB ₉	16.8	X	282.37640	245.85815	304.35626	8.03707	0.0966713	0.21712958	2.7415114	20	—	—
367204 2007 CX ₃₇	16.3	X	224.66734	275.35565	333.08830	5.99337	0.0913982	0.21527309	2.7572505	20	—	—
367205 2007 CY ₄₆	16.5	X	59.13071	128.48488	328.14297	6.36124	0.0901500	0.22616553	2.6679956	20	2 6.1	19.6
367206 2007 CO ₅₅	16.5	X	56.25031	158.50429	302.99795	10.84879	0.0217088	0.22966706	2.6408085	20	1 31.4	20.0
367207 2007 CA ₅₉	16.1	X	77.53127	160.20217	282.39982	12.82377	0.0760217	0.22798137	2.6538099	20	2 7.9	19.6
367208 2007 DN ₁₄	17.2	X	172.08131	270.18550	78.14347	4.33910	0.1023719	0.22615583	2.6680719	20	2 12.3	21.2
367209 2007 DJ ₁₆	16.6	X	204.97273	146.59584	102.09379	4.97203	0.0499377	0.20942308	2.8083616	20	—	—
367210 2007 DO ₁₆	16.6	X	143.72033	341.72126	16.23669	5.06541	0.0783221	0.22164190	2.7041751	20	1 22.9	20.4
367211 2007 DL ₁₈	16.8	X	207.40931	298.98001	338.42698	6.07029	0.0964669	0.21383234	2.7696217	20	—	—
367212 2007 DM ₅₆	16.6	X	19.23435	301.10797	153.55559	4.65534	0.0422292	0.21541853	2.7560093	20	—	—
367213 2007 DV ₆₈	16.7	X	131.33087	340.75844	357.69483	6.16323	0.0658252	0.21171818	2.7880290	20	—	—
367214 2007 DL ₉₁	16.6	X	93.73889	63.74447	340.21470	8.89745	0.0448547	0.22028317	2.7152834	20	1 14.7	20.2
367215 2007 DQ ₁₁₃	16.4	X	145.94985	184.71694	46.09868	4.39072	0.1650604	0.18427194	3.0584162	20	11 10.1	21.4
367216 2007 EC ₁₆	16.2	X	137.93291	268.37773	323.64421	9.38088	0.3230665	0.18431132	3.0579805	20	11 4.0	22.0
367217 2007 EZ ₄₆	16.8	X	179.70702	342.95505	190.25406	11.13449	0.1173832	0.18395787	3.0618963	20	10 4.8	21.6
367218 2007 EX ₄₇	16.9	X	131.17271	233.16555	30.32266	1.62295	0.1904529	0.18810788	3.0166949	20	12 6.1	22.1
367219 2007 EF ₇₉	15.9	X	149.34382	186.30480	352.01682	5.14646	0.2183040	0.17927926	3.1149376	20	9 13.2	21.2
367220 2007 EU ₈₇	16.1	X	33.87452	192.70179	253.26915	32.20892	0.1640010	0.23175784	2.6249020	20	—	—
367221 2007 EF ₉₂	16.4	X	187.63689	119.91696	109.27354	3.25655	0.0124276	0.20307318	2.8666038	20	12 30.6	20.3
367222 2007 EH ₁₄₀	17.2	X	149.97646	8.21569	310.30416	5.13090	0.0446014	0.21234547	2.7825355	20	—	—
367223 2007 EF ₁₇₀	15.5	X	143.60292	27.74782	200.22556	30.09637	0.1473289	0.18358246	3.0660690	20	11 5.5	20.6
367224 2007 EN ₂₀₁	15.2	X	140.91326	99.44918	125.90653	26.52827	0.2212482	0.18177265	3.0863868	20	11 10.1	21.0
367225 2007 EN ₂₁₉	16.5	X	218.96505	16.05910	160.96698	10.00835	0.1048251	0.19042140	2.9922109	20	11 18.6	21.1
367226 2007 FS ₂₃	16.5	X	153.51877	60.79790	124.15608	2.08508	0.1293902	0.18088052	3.0965268	20	9 24.3	21.4
367227 2007 FY ₄₆	16.9	X	83.25921	253.27628	182.22411	4.84358	0.0969238	0.22157825	2.7046929	20	2 13.7	20.3
367228 2007 GZ ₄	15.7	X	353.33133	334.78719	70.09877	11.38744	0.0990433	0.19578910	2.9372689	20	12 15.2	19.4
367229 2007 GF ₂₀	16.3	X	195.49001	211.46050	13.19955	4.04043	0.0401754	0.19218272	2.9739009	20	12 28.9	20.5
367230 2007 HY ₁₃	17.0	X	13.08751	106.24391	356.55414	0.01411	0.0310931	0.21202187	2.7853660	20	—	—
367231 2007 HG ₂₄	15.9	X	145.96317	329.28190	211.02076	15.01773	0.1623366	0.17430909	3.1738716	20	9 7.2	21.4
367232 2007 HJ ₃₇	15.6	X	118.53680	176.91434	51.97377	10.07616	0.0617092	0.17984614	3.1083885	20	10 11.5	20.2
367233 2007 HH ₄₁	16.4	X	174.88882	128.61367	67.86395	8.65030	0.1951043	0.18321353	3.0701836	20	10 27.2	21.6
367234 2007 HZ ₅₀	15.1	X	65.09348	101.07670	213.46448	24.31972	0.3073910	0.17488947	3.1668460	20	12 15.5	20.5
367235 2007 HJ ₇₃	16.7	X	146.52180	88.32310	186.33011	5.09021	0.1408861	0.18898549	3.0073484	20	12 31.1	21.6
367236 2007 HM ₈₄	15.5	X	114.68140	175.88429	46.90480	12.17177	0.0564405	0.17559998	3.1582978	20	9 30.5	20.2
367237 2007 HE ₈₆	16.7	X	134.94719	149.93334	113.72365	6.42041	0.1139722	0.18410136	3.0603051	20	12 8.3	21.5
367238 2007 HL ₉₅	15.5	X	246.46406	4.03552	87.90913	24.20493	0.0977256	0.17553661	3.1590579	20	9 19.7	20.6
367239 2007 JL ₁₂	16.4	X	79.63325	159.10439	144.27504	11.32300	0.1992716	0.17729868	3.1380923	20	12 9.1	21.5
367240 2007 JE ₁₈	16.3	X	24.28740	262.98104	120.15843	16.43258	0.0270698	0.18527159	3.0474050	20	12 20.8	20.6
367241 2007 JK ₂₆	16.5	X	111.17558	181.51826	87.42930	12.39652	0.0700600	0.17997846	3.1068648	20	11 20.1	21.2
367242 2007 JK ₃₉	16.5	X	26.77184	72.67298	0.02467	6.05062	0.0450435	0.20544653	2.8444841	20	—	—
367243 2007 LP ₂	16.5	X	135.90611	112.56153	130.41402	11.60664	0.2463300	0.18085771	3.0967872	20	11 20.0	22.1
367244 2007 LT ₃	16.4	X	49.14845	160.17868	191.60463	5.36491	0.1539650	0.18043578	3.1016130	20	12 27.8	20.8
367245 2007 LR ₄	16.1	X	55.89316	132.67453	206.24643	4.92676	0.1612215	0.17891998	3.1191061	20	12 20.9	20.6
367246 2007 LA ₂₀	16.6	X	173.10961	218.51551	206.94116	11.41545	0.1695342	0.22616005	2.6680386	20	5 20.4	21.1
367247 2007 MJ ₅	16.7	X	96.65968	131.13193	179.22916	11.51257	0.1421411	0.18183188	3.0857165	20	12 26.6	21.8
367248 2007 MK ₁₃	20.0	X	104.70837	259.94533	95.09222	19.88146	0.1397575	0.95035161	1.0245815	20	—	—
367249 2007 PC ₂₈	15.4	X	320.66957	89.15735	288.72357	8.86441	0.1166069	0.15671487	3.4071866	20	9 6.8	19.9
367250 2007 PA ₄₆	16.3	X	210.34278	67.62479	345.73095	9.81779	0.2357284	0.20963094	2.8065049	20	6 2.2	21.3
367251 2007 PN ₄₉	18.9	X	84.76386	66.89639	240.67465	1.78107	0.2685980	0.32379272	2.1003484	20	—	—
367252 2007 RU ₃₄	17.8	X	350.39253	359.68389	345.70190	3.57555	0.1581995	0.30788751	2.1720742	20	10 26.2	19.5
367253 2007 RO ₆₂	15.9	X	96.20296	225.00736	159.91046	9.72674	0.0941832	0.18347484	3.0672679	20	1 5.4	20.2
367254 2007 RS ₈₅	17.7	X	323.87308	216.02012	119.66618	5.73051	0.2202736	0.29989103	2.2105163	20	7 30.3	18.5
367255 2007 RX ₉₇	17.4	X	73.22146	167.99309	77.82485	3.50686	0.1108960	0.30179127	2.2012275	20	10 2.3	20.1
367256 2007 RR ₁₁₄	18.1	X	292.65441	211.67397	204.57493	5.65428	0.0874300	0.30592922	2.1813335	20	10 19.9	19.9
367257 2007 RY ₂₆₃	15.4	X	32.68993	98.35921	343.37618	15.22095	0.0690479	0.18014308	3.1049718	20	—	—
367258 2007 RM ₃₀₂	18.1	X	261.29877	80.01492	24.57605	3.32107	0.0737661	0.30989684	2.1626751	20	11 12.3	20.2
367259 2007 RR ₃₂₃	18.4	X	9.03614	298.43916	54.71627	0.93292	0.1646980	0.30642219	2.1789934	20	12 12.7	20.6
367260 2007 SB ₂₃	17.7	X	24.88067	38.49576	266.36987	6.12983	0.2271070	0.30479207	2.1867558	20	11 5.3	20.2
367261 2007 TT ₁	15.0	X	190.85406	221.64923	180.16909	8.87667	0.3205086	0.12469523	3.9679801	20	5 8.1	22.0
367262 2007 TF ₂₇	18.2	X	45.52648	305.70406	19.89722	3.05045	0.1729657	0.31310806	2.1478629	20	12 24.9	21.1
367263 2007 TR ₄₈	17.7	X	40.01089	99.69874	217.71037	3.92874	0.1786496	0.31003513	2.1620320	20	12 7.9	20.3
367264 2007 TS ₄₈	17.6	X	343.27632	99.51331	235.56401	2.68668	0.1647687	0.30044231	2.2078115	20	9 21.2	19.0
367265 2007 TO ₆₈	16.2	X	80.37913	81.76801	298.19574	8.43876	0.2413010	0.17565395	3.1576508	20	1 1.8	20.2
367266 2007 TC ₈₉	17.8	X	219.37333	12.16385	76.79183	5.12295	0.0900074	0.29150202	2.2527258	20	8 16.6	20.7
367267 2007 TK ₉₃	17.6	X	213.90721	221.21887	185.01559	4.12150	0.1305119	0.28255255	2.3000462	20	6 4.8	20.9
367268 2007 TN ₉₃	17.6	X	295.70663	3.77107	58.79306	4.28059	0.0903898	0.30358930	2.1925277	20	11 5.9	19.6
367269 2007 TY ₁₄₃	15.9	X	83.63738	11.52160	5.75280	10.9681	0.0844291	0.17470008	3.1691344	20	—	—
367270 2007 TD ₁₅₄	16.9	X	203.66029	219.80287	227.90208	6.88893	0.0673739	0.29115282	2.2545267	20	7 23.5	19.9
367271 2007 TH ₁₇₂	18.3	X	350.69364	280.43423	94.80940	2.19515	0.1593777	0.30916123	2.1661043	20	12 15.2	20.2
367272 2007 TA ₁₈₁	18.1	X	14.64162	247.06962	117.64316	4.04132	0.1984658	0.31311996	2.1478085	20	—	—
367273 2007 TD ₁₉₅	18.3	X	55.52558	262.36712	25.86837	3.81931	0.2006087	0.30716211	2.1754926	20	11 17.8	21.1
367274 2007 TC ₁₉₈	17.7	X	107.16									

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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>
367281 2007 TU ₂₉₉	17.9	X	53.59414	55.40450	220.88761	3.19397	0.1671824	0.30308768	2.1949461	20	10 25.9	20.7
367282 2007 TO ₃₁₉	18.1	X	47.17513	102.50927	187.60192	3.06944	0.0731267	0.29976923	2.2111151	20	10 22.6	20.5
367283 2007 TE ₃₃₁	17.2	X	174.03276	185.87511	240.16112	4.43352	0.1463719	0.27661847	2.3328238	20	5 20.1	20.8
367284 2007 TF ₃₄₃	17.9	X	56.70984	214.28827	69.71040	6.88616	0.1360959	0.30469380	2.1872259	20	11 7.0	20.6
367285 2007 TB ₃₈₇	17.6	X	290.60741	103.38977	285.15453	4.91020	0.1333091	0.29697531	2.2249614	20	8 23.9	19.7
367286 2007 TH ₃₉₀	18.2	X	139.65518	327.49558	153.63883	2.35458	0.0161907	0.28561792	2.2835599	20	6 18.1	21.0
367287 2007 TF ₄₁₀	15.7	X	63.38523	95.32721	305.76834	7.37527	0.1325354	0.17458015	3.1705856	20	—	—
367288 2007 TF ₄₂₉	17.7	X	116.52363	168.58702	355.28335	1.81390	0.1630327	0.28417140	2.2913027	20	8 2.5	20.9
367289 2007 US ₅₆	17.4	X	323.68214	68.35065	174.18572	1.18502	0.1523014	0.27217639	2.3581373	20	3 7.0	19.9
367290 2007 UP ₈₀	18.0	X	75.74185	155.01844	28.66603	1.77208	0.1371816	0.28063275	2.3105240	20	7 7.9	20.8
367291 2007 UG ₈₉	18.0	X	55.74400	186.80750	51.33898	3.51891	0.1272186	0.28871903	2.2671788	20	8 29.0	20.6
367292 2007 VO ₅	18.0	X	33.46969	307.23994	37.66608	5.45787	0.2066958	0.31213256	2.1523357	20	—	—
367293 2007 VQ ₄₆	17.2	X	74.48792	216.98332	276.85459	4.91570	0.0927666	0.26815119	2.3816772	20	4 13.4	20.0
367294 2007 VR ₅₄	17.9	X	22.42687	179.42694	112.54239	3.68694	0.1830610	0.29737746	2.2229551	20	10 15.3	20.1
367295 2007 VG ₅₅	17.7	X	144.56353	55.26092	76.09737	7.11225	0.1272958	0.28102974	2.3083475	20	7 16.9	21.1
367296 2007 VC ₁₄₈	17.9	X	288.05800	294.40990	106.78093	4.72396	0.1351804	0.29445934	2.2376174	20	9 12.9	19.9
367297 2007 VB ₁₇₅	17.6	X	58.29997	177.51913	63.00641	5.20018	0.1541426	0.29197487	2.2502930	20	9 9.8	20.3
367298 2007 VV ₁₈₄	16.9	X	329.82569	243.28630	62.32595	22.75486	0.1878359	0.28955128	2.2628324	20	6 18.4	18.8
367299 2007 VH ₁₉₂	17.6	X	294.93391	303.84947	84.32285	6.56028	0.1767185	0.28969015	2.2621092	20	8 29.8	19.6
367300 2007 VY ₂₈₁	17.9	X	338.36948	145.49672	83.82274	4.46195	0.1396514	0.30456027	2.1878651	20	12 9.3	19.5
367301 2007 VK ₂₈₈	18.2	X	338.09917	87.91983	292.50572	4.55865	0.1563556	0.30344049	2.1932444	20	11 25.6	20.0
367302 2007 VF ₂₉₉	16.2	X	185.95916	340.93284	103.51521	25.32553	0.1726714	0.27360928	2.3498970	20	6 26.0	20.0
367303 2007 VM ₃₀₈	17.2	X	13.41216	285.86098	62.47519	4.21682	0.2002417	0.30532951	2.1841889	20	12 17.8	19.4
367304 2007 VU ₃₁₁	17.4	X	16.53643	35.61997	262.49907	6.82439	0.1643163	0.29322153	2.2439102	20	9 25.9	19.7
367305 2007 VD ₃₁₆	17.7	X	343.97767	30.21612	264.11652	5.62228	0.1114286	0.28438158	2.2901736	20	7 10.2	19.6
367306 2007 VX ₃₂₅	17.3	X	100.14411	47.18683	112.61518	6.00236	0.1647043	0.27606419	2.3359453	20	7 8.9	20.6
367307 2007 VY ₃₃₅	16.1	X	265.66001	250.06827	331.62610	12.00117	0.2182849	0.22675378	2.6633793	20	—	—
367308 2007 WU ₅	17.8	X	269.77593	138.61446	282.75037	5.36285	0.1466871	0.29560099	2.2318523	20	9 3.7	20.2
367309 2007 WA ₆₂	17.5	X	320.56453	60.87936	269.89855	1.68625	0.1959416	0.29001516	2.2604188	20	7 13.1	18.9
367310 2007 WU ₆₂	17.3	X	98.15308	88.85618	65.83166	7.46432	0.0688201	0.27677491	2.3319446	20	6 29.9	20.3
367311 2007 YY ₁₉	17.8	X	301.50557	232.62104	161.24204	2.29446	0.1710777	0.29387914	2.2405615	20	9 21.6	19.2
367312 2007 YR ₂₀	17.0	X	154.26136	219.61564	275.36502	10.89189	0.0957697	0.27806549	2.3247236	20	7 28.0	20.4
367313 2007 YB ₃₅	17.5	X	238.29416	330.84654	89.77346	3.08457	0.1531205	0.28391906	2.2926602	20	7 20.4	20.4
367314 2007 YZ ₄₈	17.3	X	349.43538	116.24286	90.31636	3.26123	0.1207438	0.25522688	2.4614165	20	3 7.8	19.8
367315 2007 YR ₅₁	18.0	X	283.46071	133.61371	275.61110	5.64534	0.1510376	0.29406032	2.2396411	20	9 7.7	20.3
367316 2007 YX ₇₀	17.4	X	314.55551	315.79483	73.38723	6.32024	0.1511333	0.29864261	2.2166725	20	10 20.4	19.0
367317 2007 YE ₇₃	17.7	X	62.87813	64.66732	106.44922	5.66453	0.0446246	0.26505886	2.4001654	20	5 16.6	20.6
367318 2008 AD ₄	17.0	X	325.04478	59.61997	101.34375	11.95604	0.1177723	0.23937864	2.5688917	20	—	—
367319 2008 AK ₁₄	17.4	X	295.08567	221.98068	142.31463	6.88256	0.1430589	0.28171632	2.3045955	20	7 22.3	19.6
367320 2008 AQ ₃₅	16.7	X	313.60572	77.59972	121.59120	9.74835	0.0665007	0.24420146	2.5349567	20	1 11.9	20.1
367321 2008 AC ₃₆	18.0	X	281.97016	88.34610	306.66518	4.82161	0.1633583	0.28593551	2.2818687	20	8 12.9	20.2
367322 2008 AT ₄₈	17.2	X	7.28112	250.52345	318.62226	1.91219	0.1297711	0.25884223	2.4384431	20	4 10.6	19.6
367323 2008 AY ₄₈	17.1	X	160.21801	292.02652	236.70271	1.45938	0.1175755	0.20359982	2.8616584	20	9 11.8	21.6
367324 2008 AA ₆₁	16.7	X	275.96061	95.78730	129.42414	14.97839	0.1258139	0.24004710	2.5641204	20	—	—
367325 2008 AT ₇₆	17.4	X	47.93176	76.55165	318.69730	6.41957	0.0799222	0.31246547	2.1508066	20	—	—
367326 2008 AH ₉₆	17.1	X	194.95089	345.98450	36.12871	4.56666	0.1550953	0.26327849	2.4109736	20	4 14.3	20.8
367327 2008 AQ ₁₀₂	17.0	X	329.31692	233.96120	322.45246	9.59402	0.1872536	0.24295372	2.5436285	20	1 13.2	20.1
367328 2008 BF ₃₃	17.5	X	227.49093	82.08621	336.26701	4.96755	0.2377225	0.27517479	2.3409760	20	6 26.1	21.2
367329 2008 BY ₃₅	15.7	X	223.26654	180.12744	150.23599	10.38128	0.2716972	0.24499282	2.5294949	20	3 4.6	20.1
367330 2008 CW ₁₇	17.7	X	23.88880	185.59080	329.21437	6.69934	0.1090205	0.24562233	2.5251711	20	2 24.0	20.2
367331 2008 CO ₃₃	17.1	X	320.96846	9.98155	129.70549	5.72427	0.1643337	0.23036836	2.6354463	20	—	—
367332 2008 CN ₇₅	16.3	X	327.21752	349.86446	145.34108	15.95102	0.1332416	0.22831926	2.6511910	20	—	—
367333 2008 CP ₈₀	17.2	X	341.16822	69.82834	133.11731	14.05422	0.1266461	0.24583656	2.5237039	20	2 17.7	20.0
367334 2008 CO ₁₂₇	17.0	X	333.04362	232.27620	327.34517	9.79933	0.1338626	0.24342780	2.5403249	20	1 31.1	20.1
367335 2008 CS ₁₃₂	17.0	X	240.68307	239.00312	333.37296	2.93627	0.1548108	0.22415735	2.6839066	20	—	—
367336 2008 CA ₁₈₃	16.9	X	28.08354	322.05412	133.30583	12.36063	0.1455150	0.23522315	2.5990582	20	—	—
367337 2008 CC ₁₈₆	16.6	X	59.66174	287.44192	255.35800	7.99681	0.1172456	0.26181089	2.4199752	20	6 7.7	19.3
367338 2008 CY ₁₉₁	17.5	X	329.47057	254.47765	322.93858	5.14009	0.0968300	0.24559464	2.5253609	20	2 21.9	20.3
367339 2008 CS ₁₉₃	17.4	X	132.82566	255.65020	117.10226	2.38067	0.0719076	0.23868949	2.5738339	20	1 23.7	20.7
367340 2008 CD ₁₉₄	17.1	X	251.05161	61.85212	207.32037	3.15352	0.1756781	0.23469518	2.6029546	20	1 18.2	21.3
367341 2008 DJ ₆	17.1	X	331.37884	251.59104	144.62316	25.77423	0.2729678	0.29791751	2.2202678	20	12 27.5	19.2
367342 2008 DN ₃₅	16.9	X	248.22531	346.11645	231.77338	1.94137	0.2325875	0.22221047	2.6995604	20	—	—
367343 2008 DM ₃₉	17.3	X	308.03622	299.91188	200.52648	2.42822	0.1347712	0.22353949	2.6888498	20	—	—
367344 2008 EF ₈	16.4	X	297.28153	267.96977	330.16895	7.22027	0.0407433	0.24206899	2.5498224	20	2 14.8	19.6
367345 2008 EW ₂₀	17.3	X	310.61405	10.37085	204.18122	4.41806	0.0873372	0.23678875	2.5875893	20	1 24.9	20.7
367346 2008 EP ₄₅	17.3	X	201.13910	171.91194	273.41498	3.00312	0.2068924	0.27359818	2.3499606	20	7 8.8	21.2
367347 2008 ER ₅₅	17.2	X	284.02817	344.57051	325.11574	7.08121	0.0658767	0.26041565	2.4286112	20	4 23.9	20.4
367348 2008 EZ ₅₆	16.9	X	307.68351	80.87403	122.58664	6.58292	0.1010100	0.23587939	2.5942354	20	1 6.2	20.3
367349 2008 EQ ₅₉	17.0	X	229.09692	205.45624	11.83670	1.43430	0.1681017	0.21974901	2.7196818	20	—	—
367350 2008 EM ₇₅	16.8	X	228.65864	155.73287	79.39915	3.30459	0.2051399	0.22069673	2.7118903	20	—	—
367351 2008 EQ ₁₃₅	16.1	X	181.75807	107.71581	162.06948	7.62654	0.1793753	0.21614442	2.7498354	20	—	—
367352 2008 EW ₁₃₇	16.9	X	185.29863	222.54094	159.42805	6.24308	0.0776527	0.24689244	2.5165034	20	4 5.8	20.5
367353 2008 EE ₁₆₃	17.6	X	354.72619	265.99138	193.57186	11.40341	0.1084045	0.22431875	2.6826190	20	—	—
367354 2008 ED ₁₆₅	16.4	X										

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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>
367361 2008 FF ₇₆	16.5	X	283.37123	85.29351	129.29840	12.040337	0.1401178	0.22870413	2.6482159	20	—	—
367362 2008 FB ₉₄	16.6	X	269.23649	136.24342	88.48408	5.74237	0.1012512	0.22598102	2.6694476	20	—	—
367363 2008 FR ₉₉	16.6	X	79.77239	280.69498	97.74360	8.18029	0.0642594	0.21795366	2.7345966	20	—	—
367364 2008 FS ₁₁₅	17.3	X	223.15171	217.56213	114.57939	2.68185	0.1533233	0.24073467	2.5592358	20	3 11.2	21.4
367365 2008 FF ₁₁₇	17.0	X	210.68153	259.06939	51.78700	3.88164	0.0837778	0.23003893	2.6379617	20	2 5.1	20.9
367366 2008 FC ₁₁₉	17.2	X	269.78250	122.64460	52.79781	5.58935	0.0612548	0.21946832	2.7220002	20	—	—
367367 2008 FB ₁₂₄	17.1	X	183.80773	170.12670	108.28442	5.06578	0.2140405	0.21295689	2.7772070	20	—	—
367368 2008 FW ₁₂₄	16.8	X	347.69020	328.51138	120.21929	6.10969	0.1347209	0.21676192	2.7446105	20	—	—
367369 2008 FX ₁₃₅	16.6	X	277.76760	15.62171	130.30335	5.79463	0.0998563	0.21220549	2.7837591	20	—	—
367370 2008 GY ₃₂	16.8	X	248.79490	157.08997	95.33754	6.17328	0.0941652	0.22644534	2.6657973	20	1 3.1	20.6
367371 2008 GJ ₄₇	16.6	X	229.14367	144.10452	111.58882	7.91127	0.0639104	0.22000856	2.7175424	20	—	—
367372 2008 GR ₆₈	16.0	X	166.69515	108.72238	206.14642	23.89790	0.1828325	0.21628559	2.7486387	20	—	—
367373 2008 GG ₇₉	17.4	X	260.66829	164.15947	57.35491	4.56415	0.1612902	0.22192762	2.7018536	20	—	—
367374 2008 GK ₈₂	16.9	X	194.01261	238.30290	82.64732	8.02921	0.1661835	0.22768682	2.6560982	20	2 2.8	21.3
367375 2008 GG ₁₀₉	17.2	X	232.24795	127.08339	138.44286	6.98832	0.1581942	0.22743493	2.6580589	20	—	—
367376 2008 GD ₁₄₂	16.3	X	240.25400	139.91486	114.55701	12.03669	0.1530548	0.22524137	2.6752884	20	—	—
367377 2008 GB ₁₄₃	16.2	X	215.37623	131.69904	141.36230	8.57557	0.2130229	0.22179165	2.7029577	20	—	—
367378 2008 HB ₁	16.3	X	184.71626	184.55193	94.77705	9.46318	0.1875379	0.21344481	2.7729730	20	—	—
367379 2008 HF ₈	16.7	X	96.90175	251.12366	85.14715	13.31277	0.0815400	0.20995208	2.8036422	20	—	—
367380 2008 HN ₅₃	16.7	X	152.83559	195.68596	126.24489	9.55464	0.2061190	0.21322846	2.7748484	20	1 1.6	21.2
367381 2008 HD ₅₇	16.3	X	38.22789	2.39255	108.92741	13.94436	0.0409923	0.22899751	2.6459535	20	1 21.5	19.7
367382 2008 JF ₁₁	16.4	X	99.82581	248.40947	122.02660	7.50000	0.0482993	0.21742387	2.7390370	20	—	—
367383 2008 JX ₃₃	16.4	X	201.11663	189.01361	97.18073	9.43361	0.0918429	0.21919451	2.7242666	20	—	—
367384 2008 JO ₃₉	16.7	X	169.51022	195.95041	135.02307	12.91093	0.1867521	0.21977170	2.7194946	20	1 24.1	21.1
367385 2008 KT ₅	16.4	X	173.78464	223.31340	101.96575	10.91833	0.1151277	0.21926523	2.7236808	20	1 17.7	20.6
367386 2008 KX ₃₇	15.9	X	205.78456	166.89137	98.25532	14.80360	0.1025922	0.21601124	2.7509655	20	—	—
367387 2008 LN ₈	16.0	X	183.02327	71.67969	107.99946	11.29696	0.0539409	0.19247964	2.9708417	20	10 25.6	20.6
367388 2008 LM ₁₂	16.4	X	129.83829	141.29027	209.51267	5.45953	0.0641102	0.20981697	2.8048457	20	—	—
367389 2008 MJ ₃	16.3	X	118.85311	341.55513	300.28479	8.86080	0.0842301	0.18801319	3.0177077	20	12 12.9	21.0
367390 2008 MB ₅	19.0	X	291.09381	278.62607	115.21004	20.40628	0.3637476	0.57769839	1.4278041	20	—	—
367391 2008 NZ	16.2	X	242.88933	315.58223	290.85135	15.25506	0.2294238	0.21439519	2.7647722	20	—	—
367392 2008 OX ₉	16.3	X	72.91143	216.03426	148.81165	11.16522	0.2143404	0.19008339	2.9957571	20	—	—
367393 2008 OE ₂₁	16.1	X	143.27029	268.18996	333.55058	9.71793	0.0148277	0.17878842	3.1206361	20	11 14.7	20.8
367394 2008 OB ₂₂	16.7	X	43.73799	215.90856	160.00776	8.94837	0.2032990	0.18465984	3.0541315	20	—	—
367395 2008 OD ₂₅	16.2	X	36.45790	125.11023	248.84942	8.92451	0.0892123	0.18569029	3.0428222	20	12 31.2	20.4
367396 2008 PM ₅	15.9	X	82.41780	142.20767	147.72060	16.98506	0.2647563	0.18212520	3.0824025	20	12 4.2	21.3
367397 2008 PC ₁₀	15.7	X	130.07177	43.20842	214.70871	8.28212	0.1283338	0.18472221	3.0534441	20	11 27.5	20.5
367398 2008 PW ₁₁	16.0	X	151.54241	186.60236	141.84954	7.93522	0.2807336	0.20319807	2.8654291	20	1 14.5	20.9
367399 2008 PW ₁₃	16.3	X	193.94336	45.09108	323.49066	8.68312	0.2370260	0.21952764	2.7215099	20	3 25.7	21.2
367400 2008 PH ₁₄	16.8	X	124.79253	94.33349	194.53287	0.20450	0.2561900	0.19120771	2.9840020	20	12 31.7	22.1
367401 2008 PR ₁₅	15.9	X	23.31100	73.91731	310.89524	14.62788	0.2427060	0.17929949	3.1147033	20	—	—
367402 2008 PO ₂₁	15.4	X	73.16207	60.34985	251.21428	8.82824	0.1000586	0.18190761	3.0848601	20	11 30.7	19.8
367403 2008 QO ₁₀	17.5	X	86.12828	218.26779	175.78731	21.59183	0.0802564	0.36218091	1.9491818	20	—	—
367404 Andreasrebers	16.6	X	85.86360	220.70865	112.37970	4.50483	0.2858613	0.18621492	3.0371044	20	—	—
367405 2008 QZ ₂₁	16.2	X	23.00758	117.46983	233.86741	9.27119	0.1704473	0.17398343	3.1778310	20	11 25.4	20.3
367406 Buser	16.1	X	56.81980	105.76918	215.86021	8.27232	0.2279776	0.17798544	3.1300148	20	12 10.0	20.8
367407 2008 QZ ₂₉	16.1	X	69.77698	171.16216	148.38539	8.61170	0.2218036	0.18113502	3.0936257	20	12 10.0	20.8
367408 2008 QS ₃₀	15.5	X	58.09611	25.69617	320.19224	17.62227	0.1193555	0.18173215	3.0868453	20	12 29.5	20.2
367409 2008 QT ₃₆	16.9	X	101.10548	351.70932	320.98905	4.24025	0.1748819	0.18619801	3.0372883	20	—	—
367410 2008 QQ ₄₁	16.6	X	74.80543	173.06101	159.28358	6.33008	0.1134490	0.18256937	3.0774011	20	12 28.4	21.2
367411 2008 RB ₃	15.6	X	125.97267	70.96689	180.95937	22.87300	0.1266100	0.17638729	3.1488926	20	11 17.6	20.9
367412 2008 RB ₂₃	15.9	X	91.59418	59.59965	265.31413	8.16259	0.0829282	0.18226088	3.0808726	20	—	—
367413 2008 RW ₂₈	16.9	X	114.87952	63.35820	231.57003	0.93551	0.2426148	0.18584410	3.04411431	20	12 30.3	22.1
367414 2008 RZ ₄₉	16.1	X	356.74685	109.78052	287.96663	6.78522	0.1936540	0.17668961	3.1452998	20	12 16.1	19.8
367415 2008 RK ₆₁	16.0	X	293.44106	135.79760	306.82838	7.92708	0.0657454	0.17454918	3.1709605	20	10 27.3	20.5
367416 2008 RS ₇₁	15.5	X	122.07401	77.04043	173.25279	26.37449	0.1436616	0.17548303	3.1597008	20	11 13.7	20.9
367417 2008 RO ₈₀	18.3	X	223.61531	80.92016	178.45242	22.47603	0.0497355	0.36691826	1.9323680	20	—	—
367418 2008 RO ₈₁	16.4	X	120.33026	359.06414	260.87903	3.89915	0.0834330	0.17929288	3.1147798	20	11 16.8	21.2
367419 2008 RE ₈₂	16.7	X	86.07460	41.58392	274.87574	3.59976	0.1132364	0.18326826	3.0695724	20	12 21.7	21.3
367420 2008 RA ₉₆	16.2	X	72.50688	16.79150	329.04739	11.94562	0.1886199	0.18561146	3.0436837	20	—	—
367421 2008 RC ₁₀₈	17.5	X	153.62980	100.42933	216.02761	20.31462	0.0918834	0.36270290	1.9473112	20	—	—
367422 2008 RE ₁₃₀	16.1	X	53.06028	13.63334	342.89834	8.94810	0.0937218	0.18533860	3.0466703	20	—	—
367423 2008 RP ₁₃₀	16.3	X	34.80403	219.89104	161.05895	9.16602	0.1567861	0.18537321	3.0462911	20	—	—
367424 2008 RM ₁₃₁	15.5	X	318.89276	78.21066	346.28217	9.33255	0.0450011	0.17314192	3.1881192	20	11 9.8	19.9
367425 2008 RW ₁₄₃	16.0	X	34.76937	151.00916	174.29140	4.74234	0.1409932	0.17027263	3.2238351	20	11 5.7	20.3
367426 2008 SV ₁	17.6	X	107.15238	204.37364	225.60114	20.44246	0.0807800	0.37617534	1.9005349	20	2 5.9	20.0
367427 2008 SZ ₉	15.8	X	69.97970	331.92385	352.94343	10.01066	0.0875802	0.17894506	3.1188148	20	12 9.7	20.5
367428 2008 SF ₁₁	16.5	X	216.93821	59.07417	265.77950	10.91126	0.0749579	0.20979527	2.8050392	20	2 24.2	20.9
367429 2008 SD ₂₁	16.7	X	113.15301	316.47876	322.51298	6.25287	0.1682248	0.18343516	3.0677101	20	12 7.1	21.7
367430 2008 SO ₂₄	16.7	X	38.92886	27.63761	357.24989	5.63415	0.2299862	0.18297673	3.0728320	20	—	—
367431 2008 SB ₂₉	15.8	X	6.96584	191.32471	204.13198	10.45376	0.1424729	0.17530442	3.1618467	20	12 22.4	19.9
367432 2008 SQ ₄₁	16.6	X	38.81674	18.77342	357.31557	5.13752	0.1674543	0.18164152	3.0878721	20	—	—
367433 2008 SN ₅₁	16.2	X	121.02993	11.34913	243.47611	3.58772	0.1323310	0.17364391	3.1819720	20	11 13.4	21.3
367434 2008 SF ₆₆	15.6	X	48.10802	137.96318	206.29362	28.61307	0.3626811	0.17471278	3.1689807	20	—	—
367435 2008 SW ₇₉	16.8	X	24.06442									

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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>
367441 2008 SF ₂₄₂	15.4	X	351.32404	197.72293	207.40534	27.45482	0.1759381	0.17278430	3.1925168	20	12 10.9	19.6
367442 2008 SG ₂₄₈	16.1	X	19.13389	335.95582	32.41973	1.18967	0.1694864	0.17192271	3.2031742	20	12 9.9	20.1
367443 2008 SN ₂₅₂	17.5	X	167.05353	106.26187	211.99933	20.62976	0.0731638	0.36141147	1.9519473	20	—	—
367444 2008 SJ ₂₅₉	17.6	X	212.18958	63.91735	197.13021	23.79369	0.0593286	0.36257933	1.9477536	20	—	—
367445 2008 SM ₂₅₉	16.2	X	92.39494	236.94257	42.45454	5.26214	0.1975939	0.17396540	3.1780505	20	11 20.3	21.2
367446 2008 SC ₂₇₄	16.1	X	64.53118	134.03255	185.13593	25.09667	0.1187717	0.17468817	3.1692783	20	12 2.4	21.1
367447 2008 TS ₉	15.4	X	353.38131	135.27648	260.68062	14.63927	0.2355586	0.17080306	3.2171572	20	12 10.3	18.7
367448 2008 TN ₁₆	16.8	X	64.32067	114.05558	196.90321	24.62361	0.2165748	0.17484574	3.1673740	20	12 3.3	22.0
367449 2008 TB ₁₁₂	16.3	X	99.87515	97.13980	213.57226	18.87004	0.3680881	0.18378901	3.0637714	20	—	—
367450 2008 TT ₁₄₈	16.5	X	44.08439	272.41742	65.43649	3.57810	0.1080552	0.17289953	3.1910982	20	11 27.5	20.7
367451 2008 TL ₁₈₈	15.4	X	54.50467	92.02212	242.57645	14.27890	0.0794246	0.17264486	3.1942356	20	12 2.3	19.9
367452 2008 UN ₆₀	16.0	X	317.79140	11.01162	10.25114	5.57008	0.0793291	0.15599081	3.4177218	20	9 14.9	20.5
367453 2008 UU ₁₀₉	16.6	X	120.41203	56.11705	351.43680	6.07822	0.0741987	0.20034597	2.8925596	20	2 27.5	20.7
367454 2008 UB ₁₁₄	15.8	X	11.45309	124.82576	247.11418	5.17773	0.1300038	0.16779347	3.2555123	20	11 26.8	20.0
367455 2008 UR ₁₇₃	15.6	X	30.77041	114.70226	235.45926	12.43467	0.2899630	0.17232654	3.1981680	20	12 20.7	20.0
367456 2008 UO ₂₃₉	15.5	X	253.56671	296.27192	285.83425	9.78580	0.2243420	0.18411923	3.0601071	20	—	—
367457 2008 UV ₂₇₄	16.2	X	47.57710	266.99524	47.17755	1.67775	0.3654970	0.16835164	3.2483126	20	12 6.6	21.2
367458 2008 UF ₃₂₉	16.0	X	40.88496	132.02712	223.28053	27.03848	0.1879738	0.17369092	3.1813978	20	12 21.8	20.8
367459 2008 UC ₃₄₇	15.8	X	21.49626	81.98997	308.32702	10.87855	0.1414809	0.17653204	3.1471711	20	—	—
367460 2008 VC ₄₉	15.7	X	83.27039	218.67216	215.02081	3.76640	0.1234417	0.19215306	2.9742069	20	2 19.1	19.7
367461 2008 WW ₁₀	17.9	X	352.85897	241.78278	237.57942	18.88263	0.1079480	0.35266858	1.9840755	20	—	—
367462 2008 WE ₁₃	16.4	X	136.98121	169.30876	204.59119	7.96884	0.2391219	0.19750220	2.9202594	20	2 19.2	21.3
367463 2009 BT ₁₃₈	18.0	X	45.24927	307.32883	277.30056	1.87826	0.118329	0.29082841	2.2562029	20	7 17.9	20.3
367464 2009 BW ₁₇₂	17.5	X	9.12967	180.25548	91.32925	3.50754	0.0914638	0.29193248	2.2505108	20	7 24.8	19.5
367465 2009 BC ₁₇₆	17.3	X	60.83846	157.54806	93.31420	7.59284	0.125284	0.29762152	2.22117396	20	9 29.9	20.2
367466 2009 BB ₁₇₇	17.5	X	69.08643	135.44652	82.75918	6.41995	0.2035321	0.28981709	2.2614486	20	8 31.9	20.5
367467 2009 CP ₂₉	18.0	X	105.21402	122.73366	108.61910	3.45004	0.0948572	0.30453756	2.1879739	20	10 19.4	20.8
367468 2009 DG ₁	18.1	X	53.63100	226.37055	17.51176	2.10470	0.1576150	0.29401207	2.2398862	20	9 7.9	20.7
367469 2009 DJ ₃₃	17.6	X	55.07397	60.38501	158.30694	6.85402	0.1394864	0.28379927	2.2933053	20	7 28.3	20.2
367470 2009 DD ₄₈	17.7	X	29.83256	210.85403	50.55493	1.38917	0.1932393	0.28823352	2.2697240	20	9 2.1	19.7
367471 2009 DD ₅₀	17.9	X	53.88571	37.71519	228.25255	0.93761	0.0812254	0.29567951	2.2314572	20	9 26.9	20.5
367472 2009 DT ₅₆	18.1	X	341.61615	183.40014	58.74145	2.99154	0.1801648	0.27228597	2.3575046	20	4 5.2	20.0
367473 2009 DO ₆₁	17.2	X	2.71872	107.95243	145.73337	7.18111	0.1568144	0.27993394	2.3143676	20	6 14.5	19.1
367474 2009 DN ₁₀₆	17.9	X	117.92794	165.33892	21.55088	4.83633	0.1223328	0.29673393	2.2261679	20	9 3.9	21.0
367475 2009 DS ₁₂₀	17.5	X	45.53329	83.60422	170.74816	5.32253	0.2009204	0.28905231	2.2654358	20	9 17.5	20.1
367476 2009 DZ ₁₂₈	17.8	X	80.21943	29.81860	170.76793	5.63536	0.1315265	0.28541309	2.2846523	20	8 5.5	20.7
367477 2009 DK ₁₂₉	17.6	X	37.29250	58.93987	183.43108	2.08355	0.1432944	0.28576257	2.2827893	20	8 5.4	19.9
367478 2009 EZ ₅	17.6	X	2.26462	111.06021	149.33739	3.10048	0.2028613	0.27948428	2.3168493	20	6 26.7	19.0
367479 2009 EF ₁₉	18.2	X	89.34363	52.24435	114.54238	1.30080	0.0978625	0.28721838	2.2750690	20	6 25.9	20.9
367480 2009 FJ ₈	17.8	X	16.70178	215.75364	48.44805	2.96438	0.1341301	0.28453814	2.2893334	20	8 1.7	19.7
367481 2009 FM ₈	17.5	X	326.94987	187.87945	112.00712	2.81319	0.2053361	0.27912039	2.3188625	20	6 2.3	19.1
367482 2009 FB ₂₉	17.8	X	31.33478	145.20447	79.94834	5.59117	0.1735566	0.27991475	2.3144734	20	7 2.7	19.7
367483 2009 FX ₃₉	17.4	X	297.60317	189.58494	70.46892	6.24632	0.1830625	0.26204664	2.4185236	20	2 23.1	20.6
367484 2009 FW ₄₅	16.9	X	347.05372	98.92858	143.78509	5.79390	0.1954423	0.27093152	2.3653552	20	4 17.9	18.8
367485 2009 FR ₅₇	17.5	X	332.21405	174.93848	92.56252	2.58534	0.1690379	0.26877930	2.3779653	20	4 27.9	19.7
367486 2009 FH ₆₃	18.0	X	312.51390	75.30331	179.23275	2.66426	0.1501745	0.26392574	2.4070302	20	3 8.1	20.8
367487 2009 GH ₁	18.0	X	304.16574	68.35637	187.41594	1.46327	0.1432357	0.25710645	2.4494057	20	2 28.9	21.2
367488 Aloisortner	17.8	X	348.72355	291.93416	18.62279	3.10039	0.1949547	0.28431602	2.2905257	20	8 23.7	19.1
367489 2009 HR ₇	17.6	X	341.26341	116.47372	160.66387	6.88722	0.1099704	0.27454605	2.3445486	20	6 7.7	20.0
367490 2009 HN ₂₃	18.1	X	1.81621	277.66371	331.76446	0.70191	0.1486291	0.27475406	2.3433651	20	6 3.6	19.8
367491 2009 HF ₂₅	17.8	X	340.58971	198.60153	75.52828	2.13595	0.1688097	0.27036248	2.3686730	20	5 26.0	19.6
367492 2009 HB ₃₀	17.6	X	69.92163	141.74919	73.27095	5.81395	0.1030176	0.28636735	2.2795741	20	8 11.5	20.3
367493 2009 HU ₃₁	18.2	X	111.09585	83.74561	81.46297	7.73726	0.0545039	0.28257632	2.2999172	20	7 16.5	21.1
367494 2009 HT ₄₀	17.6	X	157.97476	69.00902	81.66732	6.99202	0.0301601	0.29390408	2.2404348	20	8 31.3	20.4
367495 2009 HE ₄₄	17.7	X	5.27145	71.42709	178.19674	5.53770	0.0901892	0.27457926	2.3443596	20	6 10.5	20.0
367496 2009 HW ₄₆	17.7	X	307.03589	194.02570	69.41771	2.36423	0.1619515	0.26473111	2.4021460	20	3 12.2	20.5
367497 2009 HU ₄₈	17.1	X	119.67975	284.00346	164.43443	6.41300	0.0860354	0.26404743	2.4062906	20	4 16.7	20.3
367498 2009 HB ₅₆	17.6	X	42.02741	318.88120	289.39109	2.29124	0.1089848	0.28325082	2.2962646	20	8 16.2	20.1
367499 2009 HA ₇₆	17.7	X	345.29916	196.74798	97.54033	2.26459	0.1694496	0.27567872	2.3381223	20	6 9.9	19.5
367500 2009 HE ₈₀	17.5	X	5.33411	57.47117	173.28259	6.05147	0.1551881	0.27224117	2.3577632	20	5 13.2	19.4
367501 2009 HO ₉₇	17.6	X	319.88053	182.43978	74.83547	3.42093	0.2057300	0.26151597	2.4217942	20	3 16.5	20.2
367502 2009 HG ₁₀₄	16.9	X	232.14715	167.00514	198.44819	21.43843	0.0785268	0.26648613	2.3915877	20	5 6.7	20.3
367503 2009 JF ₅	17.7	X	48.48297	145.32470	61.79742	3.23212	0.1699296	0.27850313	2.3222876	20	7 6.1	20.0
367504 2009 JR ₁₆	17.6	X	1.52536	337.15516	276.45079	1.37772	0.1958808	0.27266602	2.3553134	20	6 11.3	18.9
367505 2009 KK ₁	17.1	X	299.30818	54.15752	232.02220	22.52071	0.1897913	0.26152372	2.4217464	20	3 20.4	20.8
367506 2009 KN ₁₅	18.0	X	339.80979	136.44234	107.06018	2.19644	0.1496641	0.26453025	2.4033618	20	4 8.8	20.3
367507 2009 KG ₂₈	17.4	X	290.50412	227.66370	105.38003	8.94930	0.1832735	0.26800861	2.3825218	20	5 22.9	20.3
367508 2009 KP ₃₀	17.1	X	31.45373	105.93974	130.02509	12.57965	0.1518673	0.27597896	2.3364262	20	7 16.2	19.4
367509 2009 LD ₇	16.2	X	28.94114	331.92716	249.36421	22.39442	0.1294621	0.26904175	2.3764185	20	6 13.1	18.5
367510 2009 NV	16.3	X	252.45751	224.73369	143.38809	14.97852	0.1938425	0.25625228	2.4548459	20	5 23.9	20.2
367511 2009 NZ	15.8	X	171.54127	194.72773	113.12089	14.30968	0.1579967	0.22672033	2.6636413	20	—	—
367512 2009 NA ₂	17.3	X	186.25119	47.78817	300.43150	8.17317	0.2093155	0.23476692	2.6024243	20	2 24.4	21.8
367513 2009 OY ₃	16.6	X	229.85444	179.97513	124.88803	15.53602	0.2557363	0.23820274	2.5773390	20	2 9.6	21.2
367514 2009 OQ ₅	16.6	X										

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>
367521 2009 PW ₁₆	16.7	X	164.75913	24.47063	331.42293	4.09287	0.1680080	0.22592337	2.6699017	20	2 17.1	20.9
367522 2009 PC ₁₈	16.8	X	132.84859	187.48832	169.10802	6.52408	0.0471071	0.21825088	2.7321133	20	1 2.9	20.6
367523 2009 QV ₃	16.8	X	164.22095	78.11297	295.74512	12.71658	0.2077550	0.22889378	2.6467529	20	3 4.9	21.4
367524 2009 QL ₅	16.6	X	167.69345	7.45085	358.28628	6.68891	0.2772651	0.22706567	2.6609399	20	3 8.0	21.3
367525 2009 QZ ₆	17.8	X	219.33719	304.64677	281.77111	18.91627	0.2330039	0.48907045	1.5954692	20	—	—
367526 2009 QB ₁₃	17.8	X	318.84235	141.00813	213.66207	1.53415	0.2337034	0.26619028	2.3933594	20	8 11.3	19.2
367527 2009 QS ₁₃	16.5	X	264.33896	268.77297	328.00895	5.78394	0.1504465	0.22512297	2.6762263	20	—	—
367528 2009 QE ₁₉	17.8	X	228.95605	166.59026	144.09040	4.95551	0.2188740	0.23791738	2.5793994	20	2 16.1	22.1
367529 2009 QR ₂₅	16.4	X	212.83979	358.79964	302.84693	10.40962	0.0944280	0.23220179	2.6215552	20	1 25.2	20.3
367530 2009 QC ₃₁	16.1	X	110.78816	57.60709	253.77126	13.97497	0.1459507	0.20331052	2.8643724	20	—	—
367531 2009 QN ₃₃	16.5	X	145.12899	221.10670	155.83352	9.06006	0.3267473	0.22550929	2.6731690	20	3 7.7	21.2
367532 2009 QE ₃₆	18.1	X	190.86576	31.14166	331.62128	2.09011	0.2070780	0.23749527	2.5824548	20	3 18.3	22.5
367533 2009 QK ₅₀	17.6	X	149.76622	218.26532	151.58393	3.23067	0.2744443	0.22110724	2.7085327	20	2 28.3	22.2
367534 2009 RM ₇	17.1	X	177.97559	21.31318	337.53418	8.30408	0.1896855	0.23091287	2.6313016	20	3 3.1	21.3
367535 2009 RT ₉	17.3	X	131.51832	180.84562	189.20968	4.43508	0.1160333	0.21821816	2.7323865	20	1 26.4	21.2
367536 2009 RS ₁₀	16.6	X	121.45555	357.65977	359.15964	6.08027	0.0499514	0.21278609	2.7786930	20	—	—
367537 2009 RH ₁₁	17.4	X	181.93558	154.48649	185.95635	8.65336	0.1317399	0.22568808	2.6717571	20	2 10.4	21.8
367538 2009 RB ₁₃	17.7	X	130.90977	342.84807	26.76003	2.09332	0.2243294	0.21824861	2.7321323	20	2 8.5	21.9
367539 2009 RA ₂₂	16.8	X	194.24228	44.97449	268.97962	5.41883	0.1297368	0.22864635	2.6486620	20	1 21.9	21.1
367540 2009 RU ₂₉	17.2	X	127.58078	92.90888	283.81622	3.29405	0.1330108	0.21852681	2.6298130	20	2 1.7	21.0
367541 2009 RK ₃₁	17.2	X	193.42414	146.91357	209.08617	3.81782	0.2204350	0.23188346	2.6239539	20	3 12.2	21.6
367542 2009 RH ₃₂	17.2	X	197.19577	136.69024	210.23585	3.79229	0.3360588	0.23292888	2.6160969	20	3 4.6	22.1
367543 2009 RL ₃₂	16.8	X	352.78757	97.65252	233.05684	8.69828	0.1360090	0.26941470	2.3742249	20	9 21.6	19.2
367544 2009 RV ₃₃	17.3	X	100.48549	333.81641	15.64441	1.98378	0.0759860	0.20298851	2.8674009	20	—	—
367545 2009 RD ₄₄	16.7	X	153.68177	99.92906	217.79233	4.56353	0.0637688	0.21080011	2.7961180	20	—	—
367546 2009 RO ₅₂	16.7	X	106.25008	189.57013	148.88751	2.55392	0.0730163	0.20236938	2.8732463	20	—	—
367547 2009 RU ₅₅	17.5	X	167.43317	208.37169	143.56689	2.85952	0.2152337	0.22299449	2.6932291	20	2 17.6	22.0
367548 2009 RN ₆₃	16.4	X	143.09634	90.18667	272.63920	4.66677	0.0520162	0.22214337	2.7001039	20	1 22.7	20.1
367549 2009 RU ₆₉	15.9	X	184.74307	234.99087	108.79949	32.31322	0.2521579	0.23055011	2.6340610	20	2 27.3	21.0
367550 2009 RH ₇₁	15.8	X	122.06106	359.41229	204.34030	25.44114	0.0989659	0.17323578	3.1869676	20	9 9.2	20.9
367551 2009 RH ₇₃	16.4	X	152.94855	87.42095	262.70087	8.93494	0.1587094	0.22171528	2.7035784	20	1 27.4	20.7
367552 2009 ST ₂	16.7	X	131.83144	37.60568	332.28427	7.79845	0.0916468	0.21988090	2.7185941	20	1 25.8	20.5
367553 2009 SO ₃	17.0	X	113.54766	131.54251	234.15513	3.40428	0.1090556	0.21448070	2.7640373	20	—	—
367554 2009 SE ₂₃	17.5	X	228.92369	50.52857	251.53979	5.32327	0.2106485	0.23632499	2.5909734	20	2 4.5	21.9
367555 2009 SQ ₃₄	16.9	X	134.56285	36.05356	321.83639	2.83997	0.1085221	0.21474869	2.7617373	20	1 15.9	20.8
367556 2009 SP ₃₆	17.3	X	107.03184	150.74143	222.71027	3.65328	0.0838298	0.21120546	2.7925392	20	—	—
367557 2009 SH ₄₇	16.4	X	78.09327	144.30856	231.91969	5.00904	0.0799275	0.20310136	2.8663386	20	—	—
367558 2009 ST ₆₀	17.1	X	148.43333	113.74132	241.66964	6.04070	0.0903677	0.21786760	2.7353167	20	1 23.7	21.1
367559 2009 SX ₆₈	17.2	X	113.12286	219.16430	150.04461	4.96340	0.0835427	0.21068062	2.7971751	20	1 1.2	21.1
367560 2009 SO ₆₉	16.2	X	53.96808	132.67935	174.20292	7.66225	0.0796154	0.18045784	3.1013602	20	11 1.7	20.5
367561 2009 SB ₇₀	16.5	X	52.90024	141.77483	194.81975	8.10821	0.0571084	0.19203948	2.9753795	20	12 4.7	20.8
367562 2009 SU ₇₄	16.5	X	61.61315	123.30955	187.63185	16.36656	0.0855860	0.18393636	3.0621349	20	11 17.5	21.1
367563 2009 SH ₇₉	16.9	X	189.95998	38.03533	268.06224	4.31491	0.0978943	0.22033408	2.7148652	20	1 9.1	21.1
367564 2009 SQ ₁₀₀	17.1	X	196.45926	161.94959	169.18203	5.75738	0.1770259	0.22675751	2.6633501	20	2 14.5	21.5
367565 2009 SW ₁₀₁	16.7	X	357.13992	239.47318	143.53799	6.45692	0.1857829	0.18447147	3.0562104	20	11 30.7	20.2
367566 2009 SC ₁₀₅	17.1	X	171.54863	118.28842	221.30649	4.22883	0.2259977	0.22478480	2.6789098	20	2 5.3	21.7
367567 2009 SU ₁₀₆	17.1	X	131.76907	54.97820	314.80242	5.47548	0.0506904	0.22127530	2.7071610	20	1 19.0	20.8
367568 2009 SB ₁₀₈	16.0	X	358.78661	182.94442	206.79942	8.73952	0.27274581	0.18453439	3.0555156	20	12 23.3	19.3
367569 2009 SK ₁₂₀	17.7	X	196.60908	140.68809	207.29646	3.81769	0.2821150	0.23242692	2.6198621	20	3 5.3	22.4
367570 2009 SV ₁₄₁	16.6	X	184.25051	353.64598	358.85736	2.74183	0.1533248	0.22835385	2.6509233	20	2 29.9	20.9
367571 2009 SK ₁₅₀	17.4	X	272.42121	209.72802	120.96473	5.18139	0.1921550	0.26385029	2.4074891	20	8 25.9	20.3
367572 2009 SY ₁₅₁	16.5	X	264.41776	220.09807	359.90502	3.45031	0.0139996	0.21440677	2.7646727	20	—	—
367573 2009 SG ₁₆₉	16.2	X	96.44640	321.03503	53.90994	5.77871	0.0882303	0.21080323	2.7960904	20	—	—
367574 2009 SH ₁₇₄	17.6	X	105.92047	65.01363	319.16945	3.69428	0.1738581	0.21589772	2.7519297	20	1 23.5	21.1
367575 2009 SY ₁₈₀	17.9	X	205.41640	20.96390	271.76005	0.88117	0.1852338	0.22432348	2.6825813	20	1 9.2	22.4
367576 2009 SC ₁₈₄	16.3	X	180.31211	316.19769	280.11403	5.15575	0.1829438	0.19633391	2.9318326	20	12 16.3	21.2
367577 2009 SB ₂₁₁	16.1	X	30.31572	142.78944	194.15253	10.60783	0.0613690	0.18326766	3.0695791	20	11 6.1	20.3
367578 2009 SZ ₂₁₂	17.0	X	118.22727	198.02772	190.09556	5.10405	0.2565304	0.21667831	2.7453165	20	2 20.0	21.3
367579 2009 SH ₂₁₆	17.0	X	100.25293	195.58282	183.50222	4.15419	0.0822699	0.21329875	2.7742388	20	—	—
367580 2009 SF ₂₁₇	16.2	X	212.52026	181.02287	146.10594	14.38157	0.1950639	0.23530990	2.5984194	20	2 23.7	20.4
367581 2009 SA ₂₂₇	15.6	X	354.92791	298.53117	61.36200	7.43557	0.0724273	0.18286753	3.0740551	20	10 19.0	19.5
367582 2009 SS ₂₃₀	16.9	X	279.84542	152.14029	240.68384	3.11400	0.2542779	0.26178104	2.4201592	20	7 17.8	19.8
367583 2009 SS ₂₃₆	16.3	X	89.96097	258.93279	129.85862	13.80032	0.2160494	0.21312800	2.7757203	20	1 14.3	19.7
367584 2009 SE ₂₄₁	16.1	X	125.55825	69.07919	288.31936	13.18989	0.1056273	0.21330754	2.7741626	20	1 4.9	19.9
367585 2009 SP ₂₅₁	17.0	X	109.53530	141.71693	241.42961	3.94091	0.1698931	0.21365886	2.7711207	20	1 24.9	20.8
367586 2009 SJ ₂₅₄	16.9	X	154.37520	113.13327	203.98984	6.79222	0.2198751	0.21326878	2.7744987	20	—	—
367587 2009 SP ₂₅₄	15.5	X	157.36771	276.69353	262.44048	5.24814	0.0921175	0.17136271	3.2101488	20	9 16.2	20.6
367588 2009 SY ₂₆₁	15.6	X	39.46530	89.90551	223.32602	10.58292	0.0469787	0.18100760	3.0950773	20	10 14.3	19.9
367589 2009 SD ₂₆₃	17.0	X	171.09073	246.73762	70.89798	3.86858	0.0865321	0.21707484	2.7419723	20	1 3.9	21.0
367590 2009 SQ ₂₆₆	16.9	X	163.58463	98.37627	229.69154	6.27955	0.2222588	0.21690230	2.7434262	20	1 17.2	21.5
367591 2009 SC ₂₇₃	15.8	X	277.26875	226.39293	199.89597	16.18329	0.2148038	0.17557433	3.1586054	20	8 23.5	20.3
367592 2009 SM ₂₇₉	17.0	X	158.20391	290.03076	41.65100	5.79578	0.1717452	0.21744172	2.7388872	20	1 15.6	21.3
367593 2009 SO ₂₈₁	17.3	X	171.81834	244.92106	94.01252	3.83478	0.1465511	0.22221489	2.6995246	20	2 3.1	21.5
367594 2009 SR												

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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>
367601 2009 SQ ₃₄₁	16.0	X	263.00645	335.69822	184.30515	9.17050	0.1820370	0.19012578	2.9953118	20	12 13.8	20.0
367602 2009 SA ₃₄₈	15.8	X	329.30819	150.83784	288.02080	8.85954	0.0861300	0.18918241	3.0052612	20	12 19.9	19.5
367603 2009 SN ₃₆₃	17.1	X	89.50845	302.19307	67.97975	2.87841	0.1236328	0.20620745	2.8374822	20	—	—
367604 2009 SC ₃₆₄	15.9	X	59.55857	185.18574	84.16665	7.69041	0.0403353	0.17253545	3.1955859	20	9 18.7	20.5
367605 2009 TA ₈	15.6	X	326.70921	153.20725	241.07193	13.21564	0.2542599	0.17802848	3.1295103	20	10 6.0	18.8
367606 2009 TV ₂₄	16.0	X	146.12186	254.19223	85.45489	13.65190	0.1899521	0.21432550	2.7653715	20	1 15.2	20.3
367607 2009 TZ ₃₁	16.7	X	126.56322	230.58977	157.06581	6.43813	0.1463181	0.22082283	2.7108578	20	2 15.6	20.6
367608 2009 TX ₃₂	17.0	X	113.38769	116.47833	259.17227	3.16078	0.0856516	0.21470023	2.7621528	20	1 9.0	20.8
367609 2009 TG ₃₇	16.3	X	93.51032	155.85978	243.21338	7.07252	0.2313364	0.21216294	2.7841312	20	2 1.4	20.0
367610 2009 TT ₃₇	15.9	X	226.83218	171.47731	219.92427	13.42117	0.1064201	0.23861337	2.5743813	20	5 31.9	19.7
367611 2009 TT ₃₈	15.9	X	86.26785	89.45904	233.06788	9.73095	0.1136478	0.19288849	2.9666423	20	12 30.0	20.5
367612 2009 TU ₄₀	15.5	X	97.82792	252.75297	107.09738	17.59013	0.0890612	0.20239370	2.8730161	20	—	—
367613 2009 TC ₄₃	17.2	X	113.93330	291.77709	72.12829	5.29384	0.0853306	0.21064727	2.7974703	20	—	—
367614 2009 TU ₄₄	16.1	X	47.03553	113.88070	292.80224	7.73573	0.1763802	0.20009726	2.8949559	20	—	—
367615 2009 TG ₄₇	17.0	X	118.27204	46.84164	318.95439	5.88590	0.2228980	0.21136042	2.7911742	20	1 22.7	20.9
367616 2009 UU	16.5	X	163.29838	27.00102	310.41184	6.01742	0.1904811	0.21828743	2.7318083	20	1 27.2	20.9
367617 2009 UC ₁₆	16.1	X	179.76362	35.22544	270.67268	13.35352	0.1610693	0.21729136	2.7401504	20	1 2.4	20.4
367618 2009 UY ₃₀	17.1	X	53.00255	187.24502	201.44316	2.67591	0.1128237	0.19687632	2.9264451	20	—	—
367619 2009 UB ₈₅	16.3	X	171.65850	268.41722	75.47092	7.61281	0.0347477	0.21374438	2.7703815	20	2 4.0	20.3
367620 2009 UJ ₉₇	16.8	X	86.39791	246.74551	112.08670	3.05462	0.1006184	0.19922928	2.9033581	20	—	—
367621 2009 UN ₁₀₄	16.2	X	22.47484	170.52268	190.99529	9.32512	0.1491548	0.18566444	3.0431047	20	12 7.8	20.2
367622 2009 UC ₁₀₉	16.0	X	169.01315	125.18902	65.82607	7.19662	0.0558777	0.17285982	3.1915869	20	10 18.3	20.8
367623 2009 UC ₁₁₃	15.7	X	149.18854	28.67867	248.78027	11.20441	0.1148261	0.19698386	2.9253800	20	—	—
367624 2009 UR ₁₂₆	16.7	X	197.70415	68.58050	258.70593	11.60878	0.2794241	0.22868559	2.6483590	20	2 8.2	21.7
367625 2009 UW ₁₂₈	16.2	X	47.55551	118.40541	236.96432	7.00177	0.1600655	0.18822642	3.0150011	20	—	—
367626 2009 US ₁₄₉	15.5	X	93.70964	8.49426	263.14121	11.92118	0.1156754	0.17829417	3.1264006	20	11 4.2	20.4
367627 2009 VE ₄	15.5	X	184.58722	334.45565	242.81312	14.43834	0.0859425	0.18393765	3.0621206	20	12 2.3	20.1
367628 2009 VX ₄₀	15.5	X	312.59906	133.24849	249.49181	9.50810	0.0961403	0.16915065	3.2380753	20	9 3.7	19.9
367629 2009 VH ₄₁	16.2	X	24.03794	313.14423	96.42781	5.49714	0.1352163	0.19324414	2.9630012	20	—	—
367630 2009 WV ₄₉	16.2	X	43.63124	125.37192	217.89480	16.38085	0.1322628	0.18621584	3.0370945	20	12 9.7	20.6
367631 2009 VY ₆₁	16.0	X	2.91405	160.22907	238.94198	10.97030	0.1257902	0.18391309	3.0623932	20	12 21.5	19.9
367632 2009 VO ₆₈	15.9	X	330.50593	163.28731	252.11714	7.86787	0.1025799	0.17778963	3.1323126	20	11 18.4	19.6
367633 Shargorodskij	16.4	X	122.78238	123.66420	233.57430	5.88311	0.0383859	0.20809611	2.8202877	20	—	—
367634 2009 VL ₈₇	15.9	X	334.20077	345.29572	81.93176	11.04892	0.0759153	0.18142980	3.0902738	20	12 10.0	19.7
367635 2009 VC ₉₃	16.3	X	34.11337	91.79995	239.48829	12.57592	0.1657115	0.17936115	3.1139894	20	11 16.3	20.5
367636 2009 VT ₁₀₈	15.7	X	36.30421	242.20056	74.58876	8.75583	0.1779264	0.17788432	3.1312009	20	11 5.3	19.9
367637 2009 VG ₁₁₃	15.5	X	304.80980	194.87608	272.29898	9.25512	0.0737254	0.18002759	3.1062996	20	12 16.7	19.6
367638 2009 WR ₆	18.4	X	353.40025	114.83964	284.85441	26.50074	0.2769877	0.45938095	1.6634920	20	—	—
367639 2009 WY ₂₃	15.6	X	327.28786	138.24284	307.50919	12.16157	0.0598367	0.18738036	3.0244982	20	12 25.3	19.7
367640 2009 WR ₂₆	16.4	X	123.45974	74.81448	260.74354	4.19339	0.1106319	0.20118838	2.8844795	20	—	—
367641 2009 WD ₂₃	15.8	X	32.31010	267.50386	76.52620	10.38198	0.0556642	0.17467589	3.1694269	20	11 15.2	20.2
367642 2009 WM ₅₀	15.7	X	295.17538	13.86506	98.47294	9.92060	0.0974261	0.18422187	3.0589703	20	12 9.4	19.5
367643 2009 WZ ₅₂	15.5	X	267.41391	249.70371	242.88341	15.50753	0.1973154	0.17550881	3.1593914	20	11 7.4	19.7
367644 2009 WR ₅₃	16.5	X	67.38535	132.27053	286.57683	7.51426	0.2416678	0.20491878	2.8493658	20	1 22.8	19.4
367645 2009 WY ₆₁	15.6	X	274.19546	27.81656	80.69480	11.69750	0.0555859	0.17674818	3.1446049	20	11 10.8	19.9
367646 2009 WH ₇₀	15.5	X	246.17893	270.86551	245.12442	16.15543	0.0943421	0.18202854	3.0834937	20	11 26.0	19.9
367647 2009 WR ₇₂	15.6	X	113.83747	200.51777	75.68561	10.99909	0.0608827	0.18075737	3.0979331	20	11 29.1	20.1
367648 2009 WZ ₇₆	15.9	X	24.94698	96.46696	278.15758	8.91005	0.0810330	0.18190610	3.0848771	20	12 16.2	20.1
367649 2009 WF ₈₁	15.3	X	69.96464	51.21512	275.12598	26.17205	0.1114438	0.17766726	3.1337507	20	12 16.2	20.0
367650 2009 WR ₈₅	15.7	X	275.96788	193.67443	284.67135	7.84942	0.0598556	0.17824290	3.1270001	20	11 20.7	20.0
367651 2009 WJ ₉₃	16.0	X	7.14862	274.32550	117.46991	7.35949	0.1543272	0.18499388	3.0504540	20	12 23.3	19.8
367652 2009 WR ₁₂₁	15.7	X	326.16036	201.23212	245.68226	9.60445	0.0439678	0.18420132	3.0591977	20	12 22.7	19.8
367653 2009 WP ₁₄₃	16.6	X	117.29061	305.70872	37.71092	2.49677	0.0812104	0.20551349	2.8438662	20	—	—
367654 2009 WS ₁₅₉	15.7	X	94.05603	14.29038	271.94820	7.98137	0.0346875	0.17819812	3.1275239	20	11 14.5	20.3
367655 2009 WR ₂₀₂	15.5	X	346.28939	312.89033	117.85038	23.63760	0.2970538	0.17891718	3.1191387	20	—	—
367656 2009 WF ₂₂₃	16.1	X	345.57795	197.52704	250.92864	5.42167	0.0817713	0.18710742	3.0274388	20	—	—
367657 2009 WD ₂₃₅	16.8	X	79.29413	348.49168	20.55563	1.95035	0.1003771	0.19671950	2.9280002	20	—	—
367658 2009 WN ₂₃₆	17.2	X	262.20938	267.89914	92.06527	5.34566	0.1744982	0.24417025	2.5351727	20	5 23.2	20.7
367659 2009 WE ₂₄₄	16.5	X	103.20436	0.59477	281.80564	9.28096	0.0353181	0.17933564	3.1142846	20	11 20.7	21.1
367660 2009 WN ₂₄₄	17.2	X	228.58838	198.40110	209.68319	4.28565	0.2454488	0.24264459	2.5457884	20	6 12.4	21.3
367661 2009 WF ₂₅₀	15.5	X	27.46024	173.57731	210.39330	11.93618	0.2394855	0.18917558	3.0053335	20	—	—
367662 2009 XL ₂₀	15.9	X	54.98628	276.53623	114.41360	14.98382	0.2747092	0.19167188	2.9791825	20	—	—
367663 2009 XV ₂₀	15.1	X	313.55790	150.12568	297.50592	27.55829	0.1513479	0.17483357	3.1675210	20	11 29.8	19.3
367664 2009 XE ₂₃	15.6	X	292.72313	151.88775	276.95919	16.18216	0.1458459	0.17003640	3.2268203	20	9 22.8	20.1
367665 2009 XG ₂₅	15.2	X	27.54676	264.92310	121.46539	16.43627	0.1187716	0.17893642	3.1189151	20	—	—
367666 2009 YT ₂₂	15.8	X	329.52438	123.84511	296.83242	8.35461	0.1232350	0.17133089	3.2105462	20	11 20.6	19.8
367667 2010 AP ₄₃	15.9	X	34.02777	199.01987	323.11046	8.25692	0.0889686	0.20981739	2.8048420	20	3 23.3	19.3
367668 2010 AU ₇₃	15.7	X	308.65239	332.93296	87.33805	10.33278	0.0800008	0.16936839	3.2352994	20	10 26.5	20.0
367669 2010 AG ₈₁	16.0	X	16.57734	262.13637	135.49125	10.95351	0.2054741	0.17901740	3.1179745	20	—	—
367670 2010 BM ₃₀	16.2	X	237.05473	5.54424	174.02100	7.44655	0.0666663	0.19131509	2.9828854	20	12 27.5	20.4
367671 2010 BX ₆₄	14.7	X	127.60522	112.03262	104.70034	23.72391	0.1605765	0.17170439	3.2058888	20	10 19.1	20.4
367672 2010 CO ₁₂₈	15.9	X	354.17007	149.87102	342.10730	9.60971	0.0447662	0.18629147	3.0362725	20	—	—
367673 2010 CQ ₁₄₇	15.9	X	356.88624	308.97943	110.80573	12.30895	0.3158901	0.17765462	3.1338994	20	—	—
367674 2010 EJ ₁₅	15.0	X	18.30655	243.76524	96							

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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>
367681 2010 <i>NL</i> ₈₂	17.8	X	357.13110	328.55256	339.92753	3.45452	0.1689748	0.29148776	2.2527993	20	9 7.3	19.5
367682 2010 <i>NB</i> ₉₉	17.3	X	266.97789	322.09002	351.17754	3.12026	0.1322090	0.26536963	2.3982911	20	3 30.6	20.7
367683 2010 <i>OP</i> ₈	17.8	X	266.73822	22.92727	296.38696	2.61851	0.1398180	0.26611574	2.3938063	20	4 5.5	21.1
367684 2010 <i>OS</i> ₂₂	18.2	X	225.68860	179.62013	256.93207	9.36526	0.6886435	0.47050531	1.6371672	20	6 22.6	21.5
367685 2010 <i>OV</i> ₇₈	16.9	X	356.52459	239.43948	303.33186	9.59150	0.0760609	0.24637605	2.5200184	20	2 16.6	19.9
367686 2010 <i>PB</i> ₆₁	18.3	X	288.22203	247.01959	159.52624	4.08613	0.0921611	0.29897253	2.2150414	20	9 27.1	20.4
367687 2010 <i>RT</i> ₂	17.5	X	243.83312	215.18203	152.41495	5.83085	0.1560098	0.27606498	2.3359408	20	5 15.3	20.9
367688 2010 <i>RQ</i> ₃₆	17.7	X	28.36331	123.21628	159.10095	6.63741	0.0927096	0.29798819	2.2199167	20	9 15.8	20.0
367689 2010 <i>RD</i> ₅₉	18.2	X	56.39951	37.39850	273.12185	3.02566	0.1388512	0.31116639	2.1567887	20	12 12.6	21.0
367690 2010 <i>RN</i> ₅₉	18.3	X	318.72912	93.80721	238.55984	3.33865	0.2407904	0.28776073	2.2722095	20	7 3.0	19.6
367691 2010 <i>RS</i> ₈₂	17.5	X	310.35094	291.19630	103.40823	8.39705	0.1905600	0.29621835	2.2287503	20	10 19.7	19.1
367692 2010 <i>RW</i> ₉₉	17.8	X	228.11844	215.22837	243.90099	2.74278	0.1651598	0.28838136	2.2689482	20	8 28.0	21.0
367693 Montmagastrell	17.5	X	212.32428	177.18524	241.91379	6.36093	0.0788530	0.27576839	2.3376154	20	6 23.8	20.6
367694 2010 <i>RD</i> ₁₁₀	18.0	X	312.39824	138.34321	234.51395	5.05028	0.0998200	0.29369772	2.2414841	20	9 13.2	20.1
367695 2010 <i>RX</i> ₁₁₃	17.9	X	348.68280	41.11498	290.55753	4.32785	0.0811569	0.29306935	2.2446870	20	9 16.8	20.2
367696 2010 <i>RT</i> ₁₂₆	18.4	X	305.98457	249.97143	141.18765	3.13392	0.2268859	0.29379809	2.2409736	20	9 21.9	19.4
367697 2010 <i>RA</i> ₁₂₈	17.5	X	19.16061	352.95444	307.33898	5.96651	0.1260325	0.29616917	2.2289970	20	9 28.6	19.7
367698 2010 <i>RP</i> ₁₃₀	17.1	X	28.93616	3.31221	290.67047	5.66686	0.1326557	0.29824615	2.2186365	20	10 6.9	19.6
367699 2010 <i>RW</i> ₁₆₄	17.4	X	8.91140	13.74060	346.51714	4.50687	0.1925523	0.30559184	2.1829388	20	12 27.4	19.7
367700 2010 <i>RD</i> ₁₇₈	17.9	X	259.96409	356.37534	34.20635	3.06297	0.2324561	0.27629176	2.3346624	20	6 22.9	21.0
367701 2010 <i>RY</i> ₁₇₈	17.5	X	262.86904	212.51036	141.49596	2.26658	0.1803278	0.27623395	2.3349882	20	5 14.5	20.6
367702 2010 <i>RO</i> ₁₈₄	17.0	X	270.51053	205.78884	152.17433	7.03486	0.1292489	0.27568906	2.3380638	20	6 7.0	20.0
367703 2010 <i>SU</i> ₆	17.6	X	295.27430	79.87491	191.02462	6.29769	0.0971727	0.26304640	2.4123916	20	3 14.3	20.5
367704 2010 <i>SO</i> ₃₁	18.0	X	54.08034	46.36705	250.94349	3.12175	0.1278632	0.30757432	2.1735485	20	11 30.8	20.9
367705 2010 <i>TZ</i> ₆	18.0	X	15.21285	302.51471	8.44171	4.33758	0.1928641	0.29716618	2.2240086	20	10 22.8	20.1
367706 2010 <i>TB</i> ₁₂	16.9	X	315.38271	251.40255	213.87009	6.91787	0.1866421	0.21128692	2.7918215	20	—	—
367707 2010 <i>TR</i> ₁₈	17.9	X	36.71360	332.23324	297.27770	2.99853	0.0767334	0.28909631	2.2652059	20	9 3.5	20.4
367708 2010 <i>TV</i> ₁₈	17.8	X	7.25053	5.28280	340.78802	0.62416	0.2537045	0.30155473	2.2023785	20	12 13.6	20.0
367709 2010 <i>TW</i> ₁₈	17.4	X	208.81820	41.69352	25.75379	3.49729	0.1595606	0.27100620	2.3649206	20	6 25.5	21.0
367710 2010 <i>TY</i> ₁₉	17.5	X	139.80651	141.25119	354.62742	3.78429	0.0711613	0.27830459	2.3233919	20	7 14.5	20.6
367711 2010 <i>TA</i> ₂₇	17.6	X	85.80124	226.96245	314.11823	4.04385	0.0402492	0.27689290	2.3312821	20	7 2.4	20.3
367712 2010 <i>TO</i> ₃₂	17.8	X	297.75079	138.39922	153.46100	1.62487	0.1720853	0.26968796	2.3726208	20	4 4.7	20.6
367713 2010 <i>TE</i> ₄₁	16.9	X	320.30853	285.38303	220.24182	5.90582	0.0576386	0.22734167	2.6587858	20	—	—
367714 2010 <i>TR</i> ₄₂	17.9	X	51.38417	344.68268	246.36812	2.60331	0.0463152	0.28070442	2.3101307	20	7 25.1	20.5
367715 2010 <i>TF</i> ₅₉	16.6	X	0.63651	234.75807	224.11404	12.55982	0.1204736	0.22351580	2.6890398	20	—	—
367716 2010 <i>TU</i> ₆₄	16.8	X	11.40962	295.54703	249.86292	5.72175	0.1459668	0.25539438	2.4603402	20	3 10.9	19.3
367717 2010 <i>TW</i> ₁₁₅	17.2	X	326.70550	144.17802	243.34853	6.41152	0.0961918	0.29745210	2.2225832	20	11 6.4	19.3
367718 2010 <i>TN</i> ₁₄₅	17.4	X	124.55225	116.18495	357.16513	6.29849	0.347924	0.26189625	2.4194493	20	5 17.9	20.7
367719 2010 <i>TC</i> ₁₄₇	17.8	X	323.65143	72.03951	271.49146	2.19477	0.1138539	0.28572546	2.2829869	20	8 18.4	19.9
367720 2010 <i>TF</i> ₁₄₈	18.0	X	2.08246	328.04115	324.06805	5.86145	0.2028806	0.28777035	2.2721588	20	8 24.9	19.4
367721 2010 <i>TZ</i> ₁₈₄	17.4	X	316.58448	55.57979	243.39897	1.52611	0.2069750	0.27664937	2.3326500	20	5 8.5	19.6
367722 2010 <i>TY</i> ₁₈₇	17.7	X	359.87685	315.32237	326.37056	7.02972	0.1241042	0.28187537	2.3037285	20	7 25.2	19.6
367723 2010 <i>TC</i> ₁₈₈	17.2	X	3.85208	60.75170	247.67974	6.52721	0.1312789	0.29036697	2.2585927	20	9 12.2	19.4
367724 2010 <i>UF</i> ₁	17.4	X	334.27268	12.35427	299.25256	5.06374	0.1625652	0.28315520	2.2967815	20	7 16.5	19.0
367725 2010 <i>UL</i> ₆	17.1	X	320.90397	210.10709	99.09817	3.37905	0.2293172	0.28053371	2.3110677	20	5 30.8	19.0
367726 2010 <i>UU</i> ₁₃	17.7	X	216.91506	21.73981	21.12404	1.93025	0.1823988	0.26630566	2.3926680	20	5 30.0	21.5
367727 2010 <i>UU</i> ₂₆	17.9	X	336.15161	306.72871	43.94678	4.43034	0.2176529	0.29105095	2.2550527	20	10 6.1	19.1
367728 2010 <i>UD</i> ₅₄	17.6	X	340.06934	128.53506	237.77980	6.40060	0.1160849	0.29490080	2.2353837	20	10 30.4	19.5
367729 2010 <i>US</i> ₅₄	17.3	X	349.64729	265.49820	209.89920	7.10856	0.1180613	0.27814839	2.3242616	20	7 25.6	19.5
367730 2010 <i>UM</i> ₅₆	17.6	X	210.38175	115.40050	293.82014	1.68129	0.1864090	0.26561366	2.3968220	20	5 31.9	21.2
367731 2010 <i>US</i> ₆₂	16.8	X	201.26350	249.71050	74.18668	12.95333	0.1045027	0.24492483	2.5299630	20	2 12.7	20.8
367732 Mikesimonsen	17.8	X	275.51973	213.46037	159.65066	7.40305	0.1280822	0.27831841	2.3233150	20	7 5.3	20.6
367733 2010 <i>UY</i> ₆₂	17.2	X	237.84606	121.16629	241.77275	7.28131	0.0831501	0.26342221	2.4100966	20	5 7.6	20.5
367734 2010 <i>UV</i> ₆₉	16.9	X	246.57254	260.36063	115.61796	5.98207	0.1358987	0.27049185	2.3679176	20	5 31.5	20.1
367735 2010 <i>UW</i> ₆₉	17.6	X	245.92349	321.49586	71.84605	2.36721	0.1831733	0.27386374	2.3484412	20	6 16.7	20.9
367736 2010 <i>UV</i> ₇₂	17.0	X	343.88320	185.28673	136.45180	5.65983	0.1422656	0.28681562	2.2771983	20	8 28.2	18.8
367737 2010 <i>UX</i> ₇₆	17.1	X	321.33194	244.64009	90.55496	6.43626	0.2085708	0.28392548	2.2926256	20	7 21.7	18.5
367738 2010 <i>UV</i> ₉₄	17.8	X	291.03658	177.65919	183.18771	5.16533	0.1833992	0.28086737	2.3092371	20	7 2.1	20.2
367739 2010 <i>US</i> ₉₇	17.4	X	155.95057	336.02305	85.67776	6.54884	0.1152942	0.25310849	2.4751313	20	4 27.5	21.1
367740 2010 <i>VG</i> ₂₅	15.0	X	129.67711	183.30771	61.91126	25.06934	0.1880313	0.19254101	2.9702104	20	11 16.9	20.1
367741 2010 <i>VW</i> ₂₈	17.5	X	326.61850	207.72280	98.65890	4.25330	0.1737972	0.27703194	2.3305020	20	6 17.1	19.4
367742 2010 <i>VT</i> ₃₉	17.6	X	339.28684	21.67361	304.91637	4.93729	0.2488040	0.28669485	2.2778378	20	8 25.8	18.5
367743 2010 <i>VC</i> ₄₇	17.5	X	295.92986	94.63175	251.89552	5.53346	0.1381327	0.27439467	2.3454109	20	6 26.5	20.0
367744 2010 <i>VS</i> ₅₇	17.3	X	244.20046	192.79393	215.72541	5.09184	0.0961202	0.27567421	2.3381478	20	7 16.6	20.4
367745 2010 <i>VQ</i> ₆₁	16.9	X	93.15807	245.26773	163.35931	4.99492	0.2515519	0.23223570	2.6213000	20	2 15.3	20.1
367746 2010 <i>VQ</i> ₆₄	17.1	X	83.21408	239.32005	147.93036	2.85289	0.0944802	0.22335173	2.6903565	20	—	—
367747 2010 <i>VU</i> ₆₉	16.6	X	249.35021	310.82859	241.29767	6.22577	0.0225274	0.21501008	2.7594985	20	—	—
367748 2010 <i>VW</i> ₇₂	16.0	X	194.81067	90.84922	53.63339	14.96598	0.1568857	0.18290899	3.0735905	20	9 20.4	21.2
367749 2010 <i>VU</i> ₉₉	16.4	X	43.81170	230.26631	273.75864	9.27149	0.1032334	0.24374137	2.5381457	20	3 9.4	19.5
367750 2010 <i>VA</i> ₁₂₆	17.3	X	323.14099	245.46955	88.34584	6.33618	0.2532580	0.28128854	2.3069314	20	7 16.7	18.6
367751 2010 <i>VS</i> ₁₃₇	15.5	X	239.92576	343.51052	110.76908	18.50461	0.1690360	0.17895712	3.1186745	20	8 29.4	

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>
367761 2010 VF ₂₁₇	16.9 ^m	X	179.23802	299.02975	355.48872	8.95310	0.1735900	0.23427483	2.6060673	20	—	—
367762 2010 WQ	17.1	X	249.14321	69.50910	211.82548	3.82773	0.1464860	0.24260157	2.5460894	20	1 31.5	21.2
367763 2010 WH ₆	17.4	X	238.96417	287.21074	65.72588	4.42021	0.0703519	0.25975098	2.4327524	20	4 28.5	20.7
367764 2010 WP ₇	16.7	X	66.93053	166.54094	302.37516	3.22130	0.0812572	0.23731071	2.5837936	20	2 29.9	19.9
367765 2010 WU ₁₀	16.3	X	151.27392	211.47083	76.78127	6.38739	0.0177814	0.21311061	2.7758714	20	—	—
367766 2010 WS ₁₃	17.3	X	277.14691	24.16457	277.72347	1.62048	0.1146714	0.25588001	2.4572263	20	3 30.5	20.7
367767 2010 WW ₁₅	17.6	X	325.03123	197.00256	145.35599	2.41946	0.2391314	0.28485136	2.2876549	20	8 10.5	18.4
367768 2010 WQ ₅₉	16.3	X	73.18045	129.68107	270.81076	8.03963	0.0525910	0.21875811	2.7278884	20	—	—
367769 2010 WG ₇₀	17.5	X	222.69553	290.51189	123.30930	4.26860	0.1982859	0.26830621	2.3807597	20	6 18.4	21.3
367770 2010 WW ₇₁	17.3	X	230.65652	318.68975	57.63529	3.60628	0.1064686	0.25999323	2.4312410	20	5 15.6	20.7
367771 2010 WS ₇₃	15.5	X	128.08998	154.01102	76.92937	12.52656	0.0875579	0.18321516	3.0701655	20	10 27.4	20.3
367772 2010 XC ₃	17.4	X	267.82207	293.78541	84.15576	8.16792	0.2250488	0.27534656	2.3400023	20	6 15.9	20.4
367773 2010 XR ₃	17.4	X	133.37818	192.41490	173.47498	2.28240	0.1093774	0.23294197	2.6159988	20	1 21.0	21.1
367774 2010 XE ₅	16.7	X	99.22523	305.39435	96.64666	14.24919	0.2627223	0.23092864	2.6311818	20	2 21.4	20.5
367775 2010 XE ₃₈	16.0	X	170.56331	145.47582	90.75704	10.98873	0.0566636	0.19126179	2.9834395	20	12 13.6	20.4
367776 2010 XR ₄₉	17.8	X	315.54977	263.16227	111.06592	7.94382	0.2405636	0.28921874	2.2645666	20	9 19.5	19.0
367777 2010 XM ₅₁	16.9	X	148.28333	187.07428	186.73700	9.18561	0.1727743	0.23895872	2.5719003	20	2 20.3	21.0
367778 2010 XH ₅₂	16.4	X	123.87728	313.38873	129.50468	15.47851	0.1602665	0.24413822	2.5353945	20	4 29.2	20.5
367779 2010 XC ₆₀	16.6	X	96.02025	160.07117	269.42645	6.33432	0.1232220	0.23321013	2.6139931	20	2 23.9	20.0
367780 2010 XM ₆₆	16.1	X	182.41319	209.71531	107.76570	17.33767	0.1040999	0.22080125	2.7110344	20	1 15.8	20.2
367781 2010 XB ₇₀	17.5	X	241.10463	120.27338	265.72142	5.27477	0.1322056	0.26677185	2.3898797	20	6 7.0	20.9
367782 2010 XZ ₇₃	16.6	X	40.16936	182.65716	282.15945	11.76497	0.0528126	0.23126802	2.6286070	20	1 14.5	19.7
367783 2010 XU ₇₆	16.7	X	42.61504	280.50337	112.80107	5.44590	0.0827308	0.21000449	2.8031757	20	—	—
367784 2010 XJ ₈₅	16.6	X	39.61310	313.49006	92.80048	10.68989	0.1620449	0.21329233	2.7742944	20	—	—
367785 2010 XX ₈₅	17.0	X	254.65384	230.11619	115.70483	8.83500	0.1573967	0.26077598	2.4263735	20	4 30.5	20.7
367786 2010 YT ₅	16.4	X	44.07269	269.81609	114.58809	3.90562	0.2483679	0.20335644	2.8639412	20	—	—
367787 2011 AE ₁	17.4	X	182.15716	124.51369	274.48868	2.18719	0.1408353	0.24549693	2.5260310	20	4 22.8	21.3
367788 2011 AL ₃	16.5	X	174.33614	283.33321	86.97062	10.30144	0.0999646	0.24129047	2.5553042	20	3 15.1	20.5
367789 2011 AG ₅	21.8	X	132.55322	53.55545	135.65958	3.68249	0.3902832	0.57588926	1.4307927	20	10 20.5	23.5
367790 2011 AA ₉	15.7	X	113.16206	135.11708	107.06755	10.25646	0.0542012	0.17509743	3.1643380	20	10 21.7	20.5
367791 2011 AN ₁₂	16.1	X	293.64566	227.84738	272.46295	10.90969	0.0955099	0.19697458	2.9254719	20	—	—
367792 2011 AB ₁₄	15.8	X	208.56148	18.26683	139.84983	13.12825	0.1740878	0.17373199	3.1808964	20	10 13.4	21.0
367793 2011 AH ₁₅	17.1	X	139.75346	157.27080	264.37935	3.69128	0.2586678	0.23861677	2.5743568	20	4 18.7	21.5
367794 2011 AG ₂₀	17.0	X	5.16250	49.02945	81.89280	5.21446	0.1565069	0.21425331	2.7659926	20	—	—
367795 2011 AY ₂₀	16.1	X	133.27066	336.36339	91.90463	11.70930	0.0695190	0.19211378	2.9746123	20	—	—
367796 2011 AK ₂₂	16.5	X	152.22291	272.19301	97.42706	12.50147	0.1837710	0.22922000	2.6442410	20	2 27.1	20.8
367797 2011 AR ₂₂	16.4	X	164.97004	275.30035	108.37051	14.47364	0.2029339	0.23610356	2.5925931	20	3 29.5	20.9
367798 2011 AA ₂₅	16.6	X	142.01627	144.50011	280.79241	11.62644	0.2215816	0.24145580	2.5541376	20	4 19.1	21.0
367799 2011 AJ ₂₇	16.0	X	216.61485	217.76027	295.97584	9.03991	0.0336329	0.17678218	3.1442016	20	10 22.4	20.7
367800 2011 AE ₂₈	15.9	X	148.76992	127.31146	116.44445	10.11932	0.0470744	0.18071949	3.0983661	20	11 29.1	20.6
367801 2011 AF ₂₈	16.6	X	155.13302	80.55418	302.58204	14.44483	0.1916431	0.23244527	2.6197242	20	3 6.3	21.1
367802 2011 AT ₂₉	17.2	X	124.29774	34.92347	358.20262	6.47025	0.0812983	0.22641553	2.6660313	20	2 13.0	20.8
367803 2011 AG ₃₀	16.5	X	333.27269	117.05472	295.29362	8.59441	0.0321477	0.18020353	3.1042774	20	11 17.2	20.8
367804 2011 AN ₃₆	16.2	X	190.66503	271.75051	291.60199	7.39993	0.0227502	0.18424804	3.0586806	20	11 26.7	20.7
367805 2011 AP ₄₀	15.9	X	132.10297	316.50896	306.84560	14.78960	0.0501661	0.18559391	3.0438756	20	12 2.2	20.6
367806 2011 AV ₄₁	16.8	X	120.60690	225.26105	40.17323	5.62706	0.1013730	0.18158044	3.0885645	20	11 24.6	21.6
367807 2011 AN ₄₄	15.9	X	136.37748	303.56686	309.03177	10.54246	0.0113537	0.18140041	3.0906076	20	11 21.1	20.5
367808 2011 AM ₄₅	15.4	X	235.74971	28.95707	128.57489	13.01123	0.0420624	0.18111617	3.0938404	20	11 25.8	20.0
367809 2011 AA ₄₆	16.8	X	86.09345	257.70852	149.66566	3.90053	0.1975554	0.21722828	2.7406809	20	1 28.9	20.1
367810 2011 AV ₄₆	16.5	X	254.78829	357.93124	145.08882	11.50369	0.0066563	0.18232778	3.0801189	20	12 5.1	21.0
367811 2011 AS ₄₈	17.2	X	183.20118	43.63397	308.31561	4.44914	0.1341991	0.23224333	2.6212426	20	2 25.8	21.3
367812 2011 AL ₅₀	16.2	X	119.78183	316.49170	320.75028	9.04846	0.0682279	0.18659384	3.0329915	20	12 6.8	21.0
367813 2011 AE ₅₃	15.9	X	206.84076	191.27203	345.82415	9.39126	0.0303800	0.17738906	3.1370263	20	11 9.3	20.5
367814 2011 AH ₅₇	16.8	X	123.73396	215.70550	137.40848	5.00171	0.1140998	0.21393741	2.7687148	20	—	—
367815 2011 AM ₅₈	15.9	X	175.43489	303.95692	297.00018	10.77564	0.0760471	0.18941347	3.0028166	20	12 22.9	20.5
367816 2011 AP ₆₀	16.3	X	242.93692	158.56364	331.62276	5.46956	0.1722903	0.17820510	3.1274422	20	10 8.7	20.9
367817 2011 AN ₆₆	15.8	X	276.55301	346.44401	130.54296	12.68961	0.0917446	0.18334614	3.0687031	20	11 22.0	20.1
367818 2011 AM ₇₂	15.6	X	193.23645	68.83334	120.19085	10.32299	0.0205111	0.18323822	3.0699078	20	11 16.7	20.2
367819 2011 AH ₇₃	16.7	X	195.42062	87.21790	101.46962	10.34154	0.0501507	0.18305400	3.0719672	20	11 15.7	20.3
367820 2011 AE ₇₉	15.9	X	192.76295	253.86855	300.37469	25.79503	0.0768661	0.18055020	3.1003025	20	11 6.7	21.1
367821 2011 AR ₇₉	16.5	X	173.62846	29.05687	306.11609	3.84484	0.1158338	0.21995113	2.7180155	20	1 28.9	20.7
367822 2011 BY ₅	17.0	X	149.43249	264.72549	117.42311	6.42910	0.1668567	0.23164086	2.6257857	20	3 6.9	21.1
367823 2011 BD ₆	16.8	X	106.41317	276.36134	111.68071	5.92583	0.1260641	0.21939331	2.7226206	20	1 21.2	20.5
367824 2011 BF ₁₁	15.6	X	220.11492	23.08037	138.94115	18.54729	0.1177365	0.17493595	3.1662850	20	11 5.8	20.7
367825 2011 BC ₁₅	15.9	X	308.39014	160.79561	318.64420	10.32053	0.0496193	0.19736643	2.9215984	20	—	—
367826 2011 BG ₁₇	15.8	X	68.24528	286.17945	125.95382	13.27601	0.1317776	0.21318180	2.7752533	20	—	—
367827 2011 BL ₂₀	16.8	X	64.98153	299.18406	111.24752	5.60528	0.0722014	0.21198093	2.7857246	20	—	—
367828 2011 BZ ₂₃	16.2	X	71.35109	26.64888	300.32825	7.75852	0.0803483	0.18375365	3.0641645	20	12 15.0	20.7
367829 2011 BD ₂₅	15.4	X	248.19320	186.03395	315.39344	16.78171	0.1488828	0.18128827	3.0918820	20	10 26.2	20.2
367830 2011 BQ ₂₇	15.3	X	79.51221	318.10341	135.84881	14.13129	0.0668076	0.16909437	3.2387937	20	11 4.6	20.3
367831 2011 BM ₃₂	16.9	X	196.18338	272.96563	112.33449	9.55541	0.2024379	0.24602961	2.5223836	20	4 23.6	21.3
367832 2011 BR ₃₂	15.5	X	159.61221	64.26983	141.87058	12.96025	0.0716372	0.17109703	3.2134711	20	10 27.8	20.6
367833 2011 BV ₅₇	16.9	X	309.96371	68.32160	62.35927	1.56799	0.0399895	0.19553393	2.9398238	20	—	—
367834												

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>
367841 2011 BQ ₁₀₁	16.8	X	54.75618	36.93180	27.77469	5.27848	0.1470026	0.21159174	2.7891395	20	—	—
367842 2011 BV ₁₀₃	16.4	X	212.85246	16.33881	132.64777	3.12031	0.0671104	0.17101770	3.2144649	20	10 13.2	21.1
367843 2011 BH ₁₁₈	16.3	X	97.78552	66.78308	313.59397	5.38549	0.0778982	0.21181534	2.7871763	20	—	—
367844 2011 BE ₁₂₀	16.1	X	276.47377	151.75776	298.07267	8.32409	0.0413534	0.17311314	3.1884726	20	10 15.8	20.7
367845 2011 BA ₁₂₁	16.2	X	299.56208	219.54140	240.47342	7.09359	0.0733585	0.18434686	3.0575874	20	12 1.7	20.1
367846 2011 BB ₁₂₃	16.0	X	351.90770	265.37738	126.82390	11.89249	0.0875399	0.18092915	3.0959720	20	11 25.7	20.1
367847 2011 BV ₁₅₃	16.7	X	119.68624	232.24612	89.16145	2.98364	0.0277375	0.19878445	2.9076878	20	—	—
367848 2011 CN ₄	15.6	X	162.76657	91.20382	124.30660	15.06064	0.0373227	0.17491365	3.1665541	20	11 13.3	20.5
367849 2011 CG ₉	17.2	X	172.54595	80.40202	310.59633	13.45055	0.2107261	0.23787094	2.5797352	20	3 30.9	21.9
367850 2011 CG ₁₉	16.0	X	14.42936	92.88004	328.61655	11.26676	0.0476617	0.19431223	2.9521333	20	—	—
367851 2011 CH ₂₃	15.7	X	281.70508	331.02681	125.12812	10.31880	0.0375037	0.17680186	3.1439684	20	11 8.5	20.2
367852 2011 CQ ₂₃	15.8	X	296.25914	137.00041	305.77931	8.47254	0.0765968	0.17754467	3.1351931	20	10 30.9	20.1
367853 2011 CW ₂₉	15.4	X	80.02254	301.02077	297.65022	7.15410	0.0630929	0.15573118	3.4215194	20	8 31.3	20.3
367854 2011 CM ₃₃	16.1	X	305.53161	122.65864	324.04887	8.91601	0.0445926	0.18089555	3.0963553	20	11 22.1	20.4
367855 2011 CG ₃₆	16.9	X	143.26400	59.53843	354.73358	4.29202	0.2725724	0.23880343	2.5730152	20	4 13.6	21.2
367856 2011 CK ₄₄	15.9	X	79.40670	46.33963	257.11232	7.33916	0.1153537	0.17630001	3.1499318	20	11 28.4	20.5
367857 2011 CD ₄₆	15.9	X	289.93313	154.32040	317.50118	7.96958	0.0258437	0.18296774	3.0729326	20	12 5.9	20.3
367858 2011 CK ₄₈	15.4	X	279.92270	10.68199	84.74646	11.25334	0.0328162	0.17844096	3.1246858	20	11 5.9	19.8
367859 2011 CD ₅₉	16.3	X	259.91424	343.74956	145.73075	11.50548	0.0525132	0.17882129	3.1202536	20	11 19.3	20.8
367860 2011 CU ₆₄	15.8	X	18.53703	295.53962	105.54093	10.86851	0.0925982	0.19001695	2.9964554	20	—	—
367861 2011 CC ₇₂	16.0	X	34.32014	333.25759	122.21030	14.25827	0.1182101	0.21367754	2.7709592	20	—	—
367862 2011 CU ₇₈	16.1	X	334.38389	107.63334	320.06444	8.88769	0.0728921	0.18353145	3.0666371	20	12 10.8	20.1
367863 2011 CW ₈₅	15.7	X	313.78347	141.07402	306.44060	9.70240	0.0254685	0.18118135	3.0930982	20	12 6.5	20.1
367864 2011 CB ₈₆	15.8	X	221.06447	329.62189	206.39403	8.69635	0.0253303	0.17847321	3.1243094	20	11 29.6	20.3
367865 2011 CD ₈₈	16.0	X	18.65620	76.39752	330.86194	7.84987	0.0897568	0.18980047	2.9987334	20	—	—
367866 2011 CO ₉₁	16.3	X	187.04292	277.67427	284.07483	3.42779	0.1417117	0.17753897	3.1352601	20	11 11.0	21.3
367867 2011 CC ₁₀₇	16.1	X	172.72087	302.60353	330.11854	7.98615	0.2812519	0.18232181	3.0801861	20	—	—
367868 2011 CH ₁₁₅	16.3	X	343.14481	108.23479	301.87087	9.82263	0.0713083	0.18052106	3.1003661	20	11 29.9	20.4
367869 2011 DD ₁₄	16.6	X	81.94562	97.67386	282.99110	1.01489	0.0730002	0.20184441	2.8782261	20	—	—
367870 2011 DL ₁₈	16.1	X	300.93479	85.83453	9.99395	4.99498	0.1129402	0.17577039	3.1562561	20	11 21.7	20.1
367871 2011 DL ₂₄	15.9	X	354.83451	311.35173	102.77849	11.22055	0.0871186	0.18768647	3.0212088	20	12 26.1	19.8
367872 2011 DN ₂₈	16.5	X	43.06171	231.72864	150.20682	10.35577	0.0980380	0.19086069	2.9876179	20	—	—
367873 2011 DO ₃₀	15.2	X	164.93328	52.92846	93.11393	17.47119	0.0883705	0.15428313	3.4428948	20	8 20.5	20.7
367874 2011 DX ₅₁	17.0	X	173.03697	240.96424	178.08525	6.67353	0.2560557	0.24370937	2.5383679	20	5 14.1	21.5
367875 2011 EU	15.9	X	315.48987	314.13456	123.48624	10.39405	0.0983786	0.18235929	3.0797642	20	11 27.6	19.8
367876 2011 EN ₁₈	16.3	X	3.98469	95.83921	286.43661	7.03414	0.0687743	0.17842803	3.1248367	20	11 24.1	20.5
367877 2011 EB ₃₅	16.8	X	275.36926	63.20708	49.01007	1.32498	0.1381439	0.17603690	3.1503697	20	11 2.8	20.9
367878 2011 FG ₅₃	16.1	X	285.31896	318.16376	134.76002	1.55442	0.1373598	0.17144374	3.2091372	20	10 23.6	20.2
367879 2011 FO ₁₅₇	15.8	X	312.89625	316.94582	138.21461	9.99731	0.0972593	0.18073239	3.0982186	20	12 13.9	19.8
367880 2011 HR ₁₁	15.8	X	132.15657	159.63543	200.42603	8.37713	0.0087728	0.18719472	3.0264975	20	1 6.0	20.2
367881 2011 LX ₄	15.2	X	2.40497	243.39661	234.98124	15.65595	0.0428577	0.18068520	3.0987581	20	—	—
367882 2011 SP ₃₆	16.1	X	317.54761	242.25104	52.59518	5.52320	0.1756294	0.19276723	2.9678862	20	5 12.6	19.4
367883 2011 UP ₅₇	16.5	X	323.52736	178.13481	54.22527	7.45133	0.0546266	0.28141971	2.3062146	20	3 11.1	19.3
367884 2011 UM ₁₈₉	17.4	X	194.35934	124.16357	215.99670	21.56603	0.0261748	0.38507014	1.8711538	20	1 21.9	20.0
367885 2011 UV ₄₀₅	16.3	X	243.22948	73.62286	29.39986	24.81259	0.1850984	0.21095332	2.7947640	20	9 22.3	20.7
367886 2011 WN ₂₄	17.2	X	50.09206	251.29923	236.41408	19.40746	0.0943426	0.38011736	1.8873723	20	1 25.1	19.1
367887 2011 WX ₁₄₅	17.1	X	41.70192	197.59794	51.28952	7.01396	0.0871848	0.29794013	2.2201554	20	8 19.4	19.6
367888 2011 YO ₁	17.5	X	167.30551	216.04348	295.54110	3.05174	0.1173621	0.29925018	2.2136711	20	9 6.4	20.7
367889 2011 YY ₅	16.1	X	322.58112	237.67404	290.76095	29.73922	0.2612835	0.23312428	2.6146348	20	—	—
367890 2011 YH ₁₂	15.9	X	121.04236	130.13113	57.72327	7.10024	0.1402421	0.17829480	3.1263932	20	8 30.9	20.9
367891 2011 YH ₂₀	17.9	X	29.69952	344.40995	259.05708	2.03551	0.1375026	0.28284798	2.2984444	20	7 23.0	19.9
367892 2011 YG ₅₉	17.2	X	350.03023	116.74402	96.58170	3.54222	0.1399697	0.25702022	2.4499536	20	3 16.7	19.6
367893 2012 AP ₄	17.1	X	161.81259	356.73560	104.40876	7.71744	0.0509720	0.28523080	2.2856257	20	6 21.6	19.9
367894 2012 AW ₅	17.4	X	24.62143	301.26618	266.68762	2.27460	0.1786632	0.26648677	2.3915838	20	5 19.5	19.3
367895 2012 AB ₁₄	17.2	X	295.83183	276.14511	120.49071	7.17994	0.0259695	0.30277714	2.1964467	20	10 5.5	19.6
367896 2012 AH ₁₄	17.2	X	291.73420	8.15889	291.05533	2.15354	0.0654527	0.26577777	2.3958352	20	4 22.4	20.0
367897 2012 AS ₂₃	17.1	X	63.82598	295.89875	275.98500	5.81691	0.0567837	0.28463019	2.2888398	20	7 17.7	19.8
367898 2012 BX ₁₆	16.9	X	316.32046	7.38423	114.82159	10.54020	0.1950321	0.21968932	2.7201744	20	—	—
367899 2012 BE ₁₇	17.8	X	201.77891	316.20237	111.35060	3.90965	0.1570532	0.28621290	2.2803941	20	6 18.9	21.3
367900 2012 BZ ₁₈	17.5	X	169.08435	184.35850	299.16161	4.84889	0.0970269	0.28685818	2.2769731	20	8 1.0	20.5
367901 2012 BS ₁₉	16.3	X	242.12888	266.45626	306.08752	13.28054	0.2399807	0.21584270	2.7523974	20	—	—
367902 2012 BK ₂₉	18.0	X	68.44147	308.24549	242.79483	1.41599	0.1412775	0.27816715	2.3241572	20	7 8.2	20.7
367903 2012 BJ ₄₄	17.8	X	41.77163	190.20090	22.74506	1.72228	0.1294249	0.27469877	2.3436796	20	6 25.6	20.1
367904 2012 BK ₄₈	18.0	X	36.51372	17.66336	160.65791	1.40935	0.1558024	0.26204660	2.4185238	20	4 25.9	20.1
367905 2012 BF ₅₂	15.7	X	140.30784	265.79299	288.62197	5.10763	0.1156954	0.17875484	3.1210268	20	9 19.2	20.6
367906 2012 BJ ₅₂	16.4	X	225.08191	57.18539	151.12884	8.65700	0.1108898	0.20990621	2.8040507	20	—	—
367907 2012 BC ₅₅	16.8	X	352.87431	78.34866	67.73230	2.39795	0.0456970	0.23315215	2.6144265	20	1 1.5	20.2
367908 2012 BS ₅₆	16.9	X	15.75402	231.41900	303.58949	8.49129	0.1582922	0.25357347	2.6721046	20	3 3.4	19.2
367909 2012 BU ₅₈	17.3	X	349.92705	178.44145	98.08278	5.43199	0.1132430	0.28153695	2.3055743	20	6 23.5	19.2
367910 2012 BQ ₆₈	17.2	X	92.84931	193.53527	341.55834	2.23839	0.1428807	0.27814577	2.3242762	20	7 19.2	20.3
367911 2012 BU ₆₈	17.5	X	358.04568	151.56471	103.79022	4.08473	0.1450625	0.27214292	2.3583306	20	6 5.5	19.4
367912 2012 BN ₉₄	17.3	X	341.41909	299.79873	279.72627	0.81146	0.1279396	0.25474316	2.4645314	20	3 9.4	20.0
367913 2012 BV ₁₀₈	17.4	X	118.29190	60.68515	107.92711	6.46622	0.1072424	0.28445604	2.2897740	20	8 6.7	20.6
367914 2012 BX ₁₁₂	17.3	X	82.									

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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>
367921 2012 BA ₁₃₃	16.9	X	282.53725	333.22528	151.84812	10.11590	0.1620386	0.21025939	2.8009098	20	12 7.6	20.3
367922 2012 BG ₁₃₃	15.8	X	235.31822	285.07659	298.98953	12.56812	0.1438803	0.21824116	2.7321945	20	—	—
367923 2012 BG ₁₄₄	17.2	X	305.55864	285.92600	349.57682	1.75727	0.2081331	0.25805753	2.4433838	20	3 18.4	20.2
367924 2012 BT ₁₄₉	16.8	X	231.92371	203.49788	81.05827	7.43889	0.0780886	0.24263145	2.5458803	20	1 24.3	20.5
367925 2012 BN ₁₅₀	16.9	X	50.37568	206.02011	349.23247	6.75638	0.0535072	0.26647533	2.3916523	20	5 30.6	19.9
367926 2012 BQ ₁₅₁	16.9	X	254.91295	255.98483	109.58298	6.94025	0.1509299	0.27843558	2.3226631	20	5 25.6	20.1
367927 2012 BQ ₁₅₂	17.0	X	45.98015	94.26712	113.44511	7.01233	0.0689092	0.26993318	2.3711837	20	6 15.6	19.7
367928 2012 CT ₁₁	17.2	X	217.33573	102.59126	119.45639	4.93448	0.0172103	0.21519112	2.7579506	20	—	—
367929 2012 CD ₁₄	16.0	X	246.95518	273.72100	326.51874	11.65418	0.2290658	0.22206588	2.7007320	20	—	—
367930 2012 CL ₁₅	17.0	X	304.41186	284.03586	307.60281	4.56406	0.0941875	0.24425590	2.5345800	20	2 6.7	20.3
367931 2012 CS ₁₅	17.3	X	54.15771	30.12627	157.55354	5.04135	0.1213019	0.26806164	2.3822076	20	6 7.4	20.0
367932 2012 CJ ₂₁	17.5	X	178.56194	152.67451	315.74739	6.47523	0.0549142	0.28547654	2.2843138	20	7 24.2	20.4
367933 2012 CG ₂₆	17.9	X	26.21587	246.02821	335.82993	2.68810	0.1394679	0.27058835	2.3673546	20	6 10.6	19.9
367934 2012 CM ₄₂	17.1	X	231.10972	202.08611	39.74294	1.19859	0.1710683	0.21980352	2.7192322	20	—	—
367935 2012 CA ₄₃	16.6	X	166.47858	76.45851	83.47096	5.68793	0.2003335	0.17905959	3.1174847	20	9 7.6	22.0
367936 2012 CB ₅₄	17.6	X	18.91130	115.19269	103.35157	3.54860	0.0883396	0.26393567	2.4069699	20	5 18.7	20.1
367937 2012 CC ₅₆	16.8	X	291.18314	145.87825	21.84150	3.74620	0.1831571	0.21722813	2.7406821	20	—	—
367938 2012 DD ₁	17.3	X	89.16753	234.33299	188.71963	1.15504	0.0670874	0.24080441	2.5587416	20	1 30.3	20.5
367939 2012 DB ₆	16.1	X	191.95365	88.34624	99.34000	10.26127	0.1724296	0.18775400	3.0204843	20	11 3.5	21.1
367940 2012 DW ₉	16.9	X	207.69754	211.92893	40.77473	2.65387	0.1552508	0.21464980	2.7625854	20	—	—
367941 2012 DZ ₁₂	16.3	X	158.42336	298.99525	293.40918	8.60668	0.2168137	0.19033749	2.9930903	20	11 20.9	21.5
367942 2012 DP ₁₃	16.0	X	200.66971	294.90954	183.93737	5.39836	0.1298819	0.17094295	3.2154018	20	8 17.2	21.2
367943 Duenre	24.0	X	301.69439	195.50399	146.93768	11.60875	0.0894775	1.13491005	0.9102522	20	—	—
367944 2012 DR ₁₅	17.7	X	69.03536	128.76496	59.01134	4.34182	0.0255489	0.27173448	2.3606932	20	6 14.2	20.5
367945 2012 DF ₁₆	17.3	X	167.93411	23.47221	64.26686	5.97003	0.0705767	0.26792791	2.3830002	20	6 10.1	20.4
367946 2012 DP ₂₄	16.4	X	221.14192	221.00125	139.62506	7.00206	0.1521192	0.25296425	2.4760721	20	4 14.8	20.3
367947 2012 DE ₂₇	16.3	X	151.14534	357.23252	184.49088	9.26027	0.1648320	0.17531303	3.1617432	20	9 16.8	21.6
367948 2012 DH ₂₈	16.7	X	190.89305	264.66845	35.69387	2.99113	0.0668960	0.22226351	2.6991309	20	1 2.1	20.6
367949 2012 DZ ₃₁	18.0	X	235.20551	5.54197	116.26462	3.99850	0.0762797	0.30432484	2.1889934	20	10 28.9	20.4
367950 2012 DM ₃₅	17.7	X	155.49024	24.90317	112.16083	3.87598	0.0962835	0.28242057	2.3007627	20	8 4.7	20.9
367951 2012 DM ₄₄	16.7	X	214.97679	184.08605	130.39286	6.50541	0.1852509	0.23132394	2.6281833	20	2 11.1	20.9
367952 2012 DG ₅₃	15.8	X	113.13016	128.94977	75.83255	3.74650	0.0915840	0.16408262	3.3044130	20	9 5.4	20.8
367953 2012 DM ₅₅	18.1	X	182.37527	124.87169	345.27130	6.48095	0.0336432	0.28314127	2.2968569	20	8 2.6	21.0
367954 2012 DJ ₅₇	18.1	X	73.84930	352.08442	191.81432	4.39876	0.0465760	0.27012506	2.3700607	20	6 19.4	21.1
367955 2012 DV ₅₇	17.7	X	260.97794	27.76840	314.08144	5.73968	0.0259509	0.26614773	2.3936145	20	5 14.9	20.8
367956 2012 DL ₅₉	17.6	X	130.54068	36.35490	73.50383	2.20830	0.1456074	0.26674867	2.3900182	20	6 2.6	20.9
367957 2012 DM ₆₂	16.4	X	90.10877	324.39463	26.46379	2.51061	0.1045154	0.20934946	2.8090200	20	—	—
367958 2012 DZ ₆₄	17.5	X	193.42831	94.34477	351.92511	7.18592	0.0444076	0.27951031	2.3167055	20	7 13.0	20.6
367959 2012 DX ₆₉	17.7	X	119.46054	259.71605	279.41255	5.79178	0.1196229	0.28427444	2.2907490	20	8 20.2	20.9
367960 2012 DR ₇₅	15.9	X	130.30170	255.97518	289.92299	7.41932	0.0691719	0.17046971	3.2213499	20	8 26.0	20.8
367961 2012 DF ₇₈	15.4	X	195.56135	256.99533	231.85420	13.75079	0.2714830	0.17856268	3.1232656	20	8 14.3	21.2
367962 2012 DJ ₇₉	15.8	X	252.03479	302.03368	198.37178	11.76841	0.0726907	0.19837590	2.9116787	20	11 22.2	19.8
367963 2012 DQ ₇₉	16.2	X	145.52776	267.47079	319.64302	12.02438	0.2179737	0.18278892	3.0749364	20	10 31.9	21.7
367964 2012 DY ₈₄	15.7	X	347.03247	198.16567	168.72868	14.76881	0.0888705	0.17798124	3.1300641	20	10 16.3	19.7
367965 2012 DR ₈₆	16.0	X	133.87878	69.54530	156.26178	10.42155	0.1749154	0.17707231	3.1407663	20	10 27.7	21.3
367966 2012 DV ₈₇	16.5	X	157.06261	262.03496	344.03819	5.94146	0.1666729	0.19014163	2.9951454	20	12 6.9	21.6
367967 2012 DE ₈₈	16.6	X	278.30916	85.63004	105.24484	3.01323	0.1377557	0.21345606	2.7728756	20	—	—
367968 2012 DC ₈₉	16.7	X	277.40085	147.49519	103.49899	7.71922	0.0839238	0.23922599	2.5699843	20	2 1.8	20.2
367969 2012 DU ₈₉	15.9	X	177.19378	317.52525	261.57452	4.99372	0.1279300	0.18768209	3.0212557	20	11 25.0	20.7
367970 2012 DG ₉₆	17.0	X	81.47465	2.65019	326.92914	5.21079	0.0747359	0.20104242	2.8858754	20	—	—
367971 2012 DJ ₉₆	17.6	X	262.38689	332.11046	127.41951	4.83138	0.1064821	0.31015729	2.1614642	20	11 4.6	19.7
367972 2012 DS ₉₇	15.5	X	218.29943	306.01377	160.66575	17.06072	0.1939815	0.17576100	3.1563686	20	8 15.0	20.7
367973 2012 DX ₉₇	16.3	X	243.29449	135.23828	139.22569	14.37993	0.0655107	0.23053824	2.6341514	20	1 24.9	20.1
367974 2012 DW ₉₇	15.4	X	120.60890	149.50134	139.55112	12.75555	0.0096405	0.19606979	2.9344649	20	12 22.7	19.7
367975 2012 EV ₁₀	15.6	X	128.07275	85.99652	162.04968	9.81677	0.0973784	0.18304200	3.0721014	20	11 14.8	20.5
367976 2012 EH ₁₁	16.1	X	220.26259	308.59859	174.07438	17.93113	0.1576147	0.17959305	3.1113082	20	9 9.3	20.9
367977 2012 EW ₁₁	16.9	X	22.24801	107.87136	153.76482	6.90323	0.0938596	0.27015828	2.3698664	20	7 29.7	19.5
367978 2012 ED ₁₂	15.9	X	152.17959	179.46190	105.62214	7.39692	0.0501682	0.20348979	2.8626899	20	—	—
367979 2012 EL ₁₆	16.0	X	206.70892	158.24330	135.52942	15.20324	0.0531224	0.22461579	2.6802534	20	1 10.1	20.0
367980 2012 EK ₁₇	16.2	X	143.85521	150.54026	115.15568	11.39231	0.1933055	0.18886410	3.0086368	20	12 19.4	21.3
367981 2012 FT	16.2	X	145.63287	225.58088	108.99456	6.35898	0.1175219	0.21991212	2.7183369	20	—	—
367982 2012 FT ₅	16.2	X	75.11627	356.25514	304.94917	5.76794	0.1860732	0.18473971	3.0532513	20	11 29.9	20.9
367983 2012 FH ₇	17.2	X	334.76962	292.79657	165.75746	5.23801	0.0293589	0.21101767	2.7941958	20	—	—
367984 2012 FJ ₁₀	15.7	X	171.08301	20.39581	167.30363	27.64103	0.1224815	0.17666916	3.1455425	20	10 15.9	20.9
367985 2012 FQ ₁₀	17.3	X	21.74743	317.22386	193.77091	4.16294	0.0168312	0.23868768	2.5738469	20	2 16.1	20.6
367986 2012 FJ ₁₄	15.9	X	110.00273	165.71531	111.32098	14.21067	0.2190251	0.17870894	3.1215613	20	12 6.8	21.3
367987 2012 FM ₁₄	16.4	X	29.22430	16.77383	113.13121	7.31762	0.0999839	0.23419657	2.6066478	20	2 1.7	19.1
367988 2012 FC ₁₅	16.8	X	352.13598	173.33558	350.87371	4.07570	0.1509774	0.23334971	2.6129507	20	1 12.5	19.6
367989 2012 FO ₂₁	16.2	X	65.47820	199.50048	130.23749	3.47246	0.1709373	0.18884072	3.0088852	20	12 23.6	20.8
367990 2012 FH ₂₅	16.3	X	236.27426	234.26081	67.72810	4.24293	0.0228367	0.23694857	2.5864256	20	2 25.3	19.8
367991 2012 FL ₂₅	16.4	X	261.57269	195.29928	142.33924	8.76087	0.2323480	0.25567142	2.4585626	20	4 18.6	20.3
367992 2012 FQ ₃₀	17.0	X	342.66270	58.10041	99.77932	7.29117	0.1629096	0.23060810	2.6336194	20	—	—
367993 2012 FV ₃₁	16.1	X	128.93872	147.80022	77.65439	6.33233	0.1381777	0.17254819	3.1954286	20	10 20.4	21.2
367994 2012 FW ₃₃	16.5	X										