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M.P.E.C. 2012-L41

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DAILY ORBIT UPDATE (2012 JUNE 15 UT)

Update to [MPEC 2012-L37](#)

Full-precision elements for the objects listed here are available at <http://www.minorplanetcenter.org/iau/MPCORB.html>

New identification:

J99N04Y	K12K50R	MPCS	
K02PJ9Z	K05EB7L	MPCS	
K02PK0E	K09WB2A	MPCS	
K02PK0F	K09UC5H	MPCS	
K02QF0D	K06P20Y	K11W58J	MPCS
K02QF0G	K07W56S	K10D71H	MPCS
K06H68R	K12L07C	MPCS	
K09SY1Q	K12L05X	MPCS	
K12J13F	K01UM3R	K09SG7Q	MPCW
K12J13F	K03D19J	Lowe	
K12J28C	K09S71A	Lowe	
K12K02M	K01SJ9J	K09S80B	MPCW
K12K02M	K03B23K	Lowe	
K12K28S	K04O01O	Lowe	
K12K46W	K01XN4Q	MPCW	
K12K46W	K11A05V	Lowe	
K12K50N	K04N17V	MPCS	

New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J84Q01Y	15.3	0.15	K123E	345.346	336.978	142.393	14.238	0.89440	2.49765	4	X
J96T240	16.1	0.15	K123E	342.367	47.054	212.480	13.581	0.12938	2.61839	5	X
J99G16B	16.0	0.15	K123E	64.016	326.099	196.044	13.555	0.13018	2.58996	7	X
J99N04Y	19.1	0.15	K123E	306.491	64.736	249.565	6.607	0.39042	2.20359	3	S
J99O03Q	20.1	0.15	K123E	300.802	164.364	148.026	9.151	0.42327	1.89676	2	X
J99RK5N	15.9	0.15	K123E	238.694	121.517	286.705	10.349	0.17069	2.74133	5	X
K00F04W	17.0	0.15	K123E	346.913	93.603	188.796	4.534	0.10515	3.11593	6	X
K00QG3M	16.3	0.15	K123E	207.501	170.740	215.714	7.147	0.22104	2.66159	3	X
K00S13W	16.0	0.15	K123E	282.694	110.060	232.352	11.007	0.30326	2.56403	3	X
K00S95Y	17.0	0.15	K123E	273.942	118.803	216.383	4.404	0.27607	2.61194	4	X
K00SS4H	17.2	0.15	K123E	271.858	115.864	225.078	11.611	0.28131	2.61428	3	X

K04S41W	16.3	0.15	K123E	217.327	175.642	213.763	9.358	0.18009	2.71490	6	X
K04S45H	17.3	0.15	K123E	297.919	120.972	202.875	5.993	0.28319	2.62055	3	X
K04TF1E	16.9	0.15	K123E	133.455	246.316	211.321	6.940	0.03970	2.81384	5	X
K04TW7L	16.2	0.15	K123E	293.367	83.286	234.585	12.202	0.19472	2.68534	3	X
K04V42F	16.8	0.15	K123E	321.527	80.252	223.910	4.979	0.03137	2.75018	5	X
K04V74N	16.2	0.15	K123E	116.870	6.225	101.346	6.435	0.17432	2.97031	4	X
K04X61B	16.0	0.15	K123E	310.531	73.732	292.513	27.517	0.36354	2.62478	4	X
K04X82Y	16.3	0.15	K123E	277.398	257.560	81.043	13.116	0.30339	2.76525	4	X
K04XH2G	16.2	0.15	K123E	274.293	117.432	265.240	5.292	0.21514	2.65222	5	X
K04Y02Z	15.9	0.15	K123E	231.692	162.935	224.754	12.261	0.18385	2.77982	5	X
K05A46K	16.2	0.15	K123E	249.523	276.005	126.834	9.935	0.21269	2.77335	5	X
K05EL0A	15.7	0.15	K123E	356.400	110.344	177.738	25.344	0.22221	3.18845	4	X
K05GE4U	16.8	0.15	K123E	354.355	308.833	299.767	6.695	0.16361	2.23759	6	X
K05L13S	18.2	0.15	K123E	304.430	133.098	172.574	5.300	0.21663	2.29260	5	X
K05M18E	18.0	0.15	K123E	337.852	128.942	120.500	6.090	0.20430	2.35687	3	X
K05N46A	18.0	0.15	K123E	310.848	121.490	157.816	1.516	0.16668	2.38452	4	X
K05N54Y	17.5	0.15	K123E	244.330	197.799	175.202	2.821	0.24250	2.38990	7	X
K05O27X	17.3	0.15	K123E	328.004	84.053	204.979	3.529	0.23578	2.32659	7	X
K05P00H	16.9	0.15	K123E	306.188	69.134	243.691	10.744	0.32833	2.36734	4	X
K05P03E	17.2	0.15	K123E	320.669	186.016	143.963	7.274	0.28793	2.31037	5	X
K05Q44A	17.9	0.15	K123E	343.346	115.805	152.645	3.868	0.17399	2.35937	6	X
K05S65Q	16.7	0.15	K123E	218.830	167.306	255.493	4.259	0.12970	2.40727	7	X
K05S78S	18.2	0.15	K123E	284.517	165.474	146.473	2.091	0.18698	2.45415	4	X
K05S98C	16.7	0.15	K123E	279.778	111.467	239.843	6.115	0.12760	2.41080	4	X
K05SH6B	16.6	0.15	K123E	56.159	308.832	220.997	9.114	0.10009	2.56531	8	X
K05T26Y	17.6	0.15	K123E	184.540	198.863	201.321	3.917	0.15158	2.60875	5	X
K05US2M	16.4	0.15	K123E	345.178	56.473	188.081	4.340	0.19807	2.54332	4	X
K05UT7K	16.5	0.15	K123E	327.848	29.953	232.390	11.221	0.14128	2.60315	4	X
K05Ui4Q	17.3	0.15	K123E	189.186	298.417	104.476	23.562	0.08664	1.85688	4	X
K05Up3E	16.8	0.15	K123E	183.270	165.160	232.679	31.980	0.16168	2.59977	5	X
K05Uq0V	18.2	0.15	K123E	271.729	126.879	193.000	5.879	0.11572	2.48172	4	X
K05W17J	16.6	0.15	K123E	241.640	279.486	68.640	15.192	0.13739	2.60880	3	X
K05W66P	19.0	0.15	K123E	53.819	278.693	243.140	19.188	0.10156	1.90882	3	X
K05WA1S	16.0	0.15	K123E	106.289	13.719	86.099	8.858	0.16822	2.79158	5	X
K05WF7Y	15.5	0.15	K123E	233.768	280.533	108.134	27.960	0.24152	2.58444	4	X
K05WG6M	16.5	0.15	K123E	222.563	263.400	100.283	7.651	0.07733	2.73009	6	X
K05Y02K	16.5	0.15	K123E	109.975	33.831	66.648	15.854	0.06037	2.74582	3	X
K05Y15U	16.9	0.15	K123E	203.570	282.727	116.714	6.910	0.16151	2.69294	4	X
K05Y44Q	16.9	0.15	K123E	196.306	255.251	130.507	3.951	0.08056	2.76929	7	X
K05Y87L	16.5	0.15	K123E	191.124	296.495	108.264	6.256	0.02609	2.74194	6	X
K05YA8Z	16.8	0.15	K123E	311.634	210.326	114.465	11.929	0.10968	2.59014	6	X
K05YI5J	16.6	0.15	K123E	136.140	309.343	129.326	2.964	0.03689	2.86355	6	X
K05YJ2P	17.2	0.15	K123E	245.164	226.924	116.718	23.251	0.07060	1.92520	5	X
K05YM7W	16.8	0.15	K123E	37.881	79.327	107.867	13.939	0.14739	2.85816	4	X
K06BF6L	16.7	0.15	K123E	10.357	73.915	125.541	3.685	0.15390	3.10214	3	X
K06C44H	16.9	0.15	K123E	6.379	128.421	131.145	5.077	0.04919	2.66510	7	X
K06DF4Z	16.1	0.15	K123E	64.939	297.054	208.964	5.588	0.22888	3.05800	5	X
K06DJ6U	16.3	0.15	K123E	203.066	189.182	218.585	9.041	0.35678	2.66141	5	X
K06F51Z	16.9	0.15	K123E	340.141	322.821	304.819	5.060	0.50438	3.29451	2	X
K06G54Z	17.7	0.15	K123E	96.706	37.016	197.933	3.283	0.23148	2.74196	5	X
K06H42L	15.3	0.15	K123E	20.946	74.059	133.077	27.017	0.20519	3.16033	5	X
K06H45A	15.9	0.15	K123E	358.134	37.576	192.680	15.780	0.14063	3.13859	5	X
K06H48G	16.5	0.15	K123E	346.651	136.319	115.683	3.750	0.17713	3.18851	3	X
K06H68R	16.2	0.15	K123E	30.771	355.833	207.586	11.645	0.07038	3.20244	2	S
K06J01N	16.0	0.15	K123E	308.918	61.190	233.141	12.069	0.05570	3.19339	3	X
K06K36T	15.9	0.15	K123E	278.659	211.182	115.382	12.314	0.02251	3.11759	6	X
K06M02Z	15.5	0.15	K123E	334.423	191.540	99.331	16.918	0.16594	3.17344	7	X
K06O09T	20.0	0.15	K123E	57.538	194.007	310.275	14.562	0.18178	1.12375	2	X
K06QA00	16.7	0.15	K123E	220.044	177.516	209.891	6.256	0.22266	2.24410	5	X
K06R37N	15.2	0.15	K123E	263.543	207.514	136.710	3.646	0.22804	3.96311	4	X
K06R77S	17.8	0.15	K123E	221.816	227.332	144.930	2.265	0.18642	2.24161	4	X
K06R94K	17.5	0.15	K123E	200.830	207.987	216.808	4.180	0.10877	2.20431	5	X
K06SK0D	18.3	0.15	K123E	303.829	97.895	202.411	4.163	0.21013	2.18389	4	X
K06SW9L	17.8	0.15	K123E	312.147	136.089	168.231	2.869	0.12394	2.17537	7	X
K06VF3Z	17.4	0.15	K123E	128.762	331.007	111.166	2.782	0.12629	2.40002	6	X
K06X67N	17.1	0.15	K123E	79.467	348.024	151.574	12.353	0.17265	2.40161	6	X
K06Y17A	17.4	0.15	K123E	199.894	291.166	99.642	3.305	0.22349	2.40923	5	X
K06Y53X	17.2	0.15	K123E	91.827	42.936	121.415	6.599	0.08593	2.45008	4	X
K07B01L	17.1	0.15	K123E	182.464	295.096	106.171	7.141	0.20908	2.45107	6	X
K07B03R	17.1	0.15	K123E	100.619	11.479	112.433	4.175	0.09340	2.51901	6	X
K07B20W	16.8	0.15	K123E	46.388	12.640	145.831	12.748	0.18980	2.63952	3	X
K07B33L	16.6	0.15	K123E	337.347	156.311	122.822	7.248	0.12810	2.43056	6	X
K07B57S	17.0	0.15	K123E	166.717	227.169	185.286	3.054	0.21063	2.46856	4	X
K07C52R	16.0	0.15	K123E	114.781	350.067	106.159	11.363	0.19644	2.60007	3	X
K07D13E	16.8	0.15	K123E	71.664	329.940	164.356	5.776	0.21541	2.65651	6	X
K07D39V	17.3	0.15	K123E	17.113	97.700	99.939	4.319	0.02607	2.55536	5	X
K07E68G	16.7	0.15	K123E	278.829	165.619	155.956	3.681	0.06109	2.64540	4	X

K07EE7L	17.2	0.15	K123E	2.637	84.733	125.027	3.919	0.12398	2.77868	5 X
K07EI3F	15.9	0.15	K123E	234.979	182.886	115.753	3.304	0.08253	2.92717	5 X
K07F46T	16.5	0.15	K123E	332.767	66.659	205.216	6.799	0.17975	2.78695	6 X
K07H39W	16.6	0.15	K123E	239.013	261.211	138.570	5.334	0.14678	2.53477	7 X
K07VO3Z	17.0	0.15	K123E	352.068	335.747	47.821	12.225	0.16801	2.83166	2 S
K07Y46O	17.7	0.15	K123E	119.287	338.774	108.319	3.596	0.13671	2.22474	5 X
K07Y72P	17.3	0.15	K123E	4.586	103.748	98.590	5.880	0.17609	2.33255	4 X
K08C37H	17.8	0.15	K123E	196.002	232.331	167.412	3.716	0.14046	2.17439	6 X
K08CA8M	17.3	0.15	K123E	20.921	324.997	253.338	3.622	0.18650	2.27099	4 X
K08E46O	17.5	0.15	K123E	31.564	98.678	109.751	4.144	0.18705	2.33328	6 X
K08E59M	18.1	0.15	K123E	70.586	324.303	172.678	5.976	0.17952	2.33026	4 X
K08EA9E	17.6	0.15	K123E	325.127	157.971	134.331	6.433	0.17506	2.28512	3 X
K08ED3T	17.7	0.15	K123E	335.776	63.159	198.447	9.330	0.18281	2.29830	5 X
K08EF7B	17.2	0.15	K123E	296.498	152.958	158.000	2.498	0.19324	2.33016	4 X
K08F73Q	17.3	0.15	K123E	115.863	18.443	71.798	7.061	0.09657	2.42036	5 X
K08FA3Q	17.0	0.15	K123E	138.915	289.285	165.342	6.646	0.06867	2.37356	5 X
K08FB5Q	18.0	0.15	K123E	101.494	324.383	139.063	3.115	0.13897	2.37640	6 X
K08FB8O	16.9	0.15	K123E	2.169	15.969	208.426	5.640	0.07292	2.43202	5 X
K08G10V	18.1	0.15	K123E	325.368	71.057	202.891	6.581	0.10230	2.42795	5 X
K08G51E	17.7	0.15	K123E	16.980	47.117	144.024	1.983	0.12944	2.43670	4 X
K08GE4P	16.5	0.15	K123E	325.195	33.577	171.482	13.079	0.13307	2.67115	5 X
K08GE5S	16.8	0.15	K123E	320.924	180.152	95.629	9.631	0.24080	2.45453	4 X
K08GE6M	17.9	0.15	K123E	344.289	136.439	135.737	7.387	0.10615	2.39525	4 X
K08J04B	16.7	0.15	K123E	338.221	42.846	232.045	22.494	0.18744	2.43750	5 X
K08J13K	17.7	0.15	K123E	315.023	164.162	141.058	5.080	0.12783	2.28035	5 X
K08J26G	15.9	0.15	K123E	286.407	197.477	101.526	9.188	0.18478	2.61406	9 X
K08J36T	17.2	0.15	K123E	95.430	278.586	210.682	5.564	0.07511	2.48568	4 X
K08L09R	16.8	0.15	K123E	298.126	180.463	128.897	14.097	0.21719	2.52924	3 X
K08L17C	17.6	0.15	K123E	346.814	131.478	135.112	6.873	0.12683	2.41765	4 X
K08M01Y	17.7	0.15	K123E	308.253	155.281	141.023	4.458	0.18693	2.52991	4 X
K08N04Z	17.3	0.15	K123E	291.756	143.879	169.448	3.813	0.10573	2.69545	6 X
K08N05E	16.4	0.15	K123E	329.594	191.410	105.673	11.099	0.19575	2.58500	6 X
K08P02J	16.5	0.15	K123E	271.115	177.411	201.485	2.934	0.22762	2.55123	7 X
K08P21H	15.9	0.15	K123E	265.653	219.467	133.714	16.358	0.27752	2.80066	6 X
K08Q08T	16.6	0.15	K123E	284.353	178.706	153.978	4.088	0.19870	2.74318	5 X
K08R15S	15.8	0.15	K123E	94.532	292.794	203.566	9.066	0.07143	3.15306	2 S
K08RA2T	16.4	0.15	K123E	237.722	261.564	99.701	3.298	0.16410	3.05277	4 X
K08RD6E	16.3	0.15	K123E	296.965	93.053	248.403	5.654	0.16585	2.70551	4 X
K08S11F	17.0	0.15	K123E	310.504	56.354	265.958	10.929	0.07407	2.80546	5 X
K08S12N	17.2	0.15	K123E	316.399	52.676	271.037	3.600	0.27592	2.60483	5 X
K08S32X	16.1	0.15	K123E	231.864	136.318	234.619	7.332	0.05578	3.07685	4 X
K08S71F	16.8	0.15	K123E	287.818	143.930	188.822	13.373	0.20645	2.79489	3 X
K08SB9R	16.9	0.15	K123E	268.536	167.211	205.987	1.432	0.08627	2.84825	6 X
K08SE3K	16.2	0.15	K123E	240.627	175.820	196.374	6.676	0.16866	3.12520	6 X
K08SF5N	16.5	0.15	K123E	268.944	225.704	155.764	5.246	0.22725	2.74934	4 X
K08SH4B	15.9	0.15	K123E	270.468	91.601	286.616	13.294	0.12372	2.68817	4 X
K08SN5P	15.6	0.15	K123E	246.058	130.649	215.364	9.016	0.12698	3.08211	4 X
K08SP3A	16.3	0.15	K123E	264.031	131.995	219.044	8.949	0.11268	2.99736	4 X
K08SR5L	16.9	0.15	K123E	271.307	88.111	278.813	3.293	0.08753	2.78615	5 X
K08T00V	17.1	0.15	K123E	277.722	151.340	215.480	3.983	0.16993	2.73061	6 X
K08T08Q	15.8	0.15	K123E	77.417	341.188	180.037	9.166	0.05070	3.17612	4 X
K08T38G	16.2	0.15	K123E	244.048	283.400	79.823	9.267	0.25612	3.00625	3 X
K08T96O	16.1	0.15	K123E	322.770	46.370	229.952	8.732	0.04728	3.08569	4 X
K08TA5W	16.1	0.15	K123E	338.727	46.962	213.110	8.401	0.05920	3.17160	6 X
K08TB2J	16.4	0.15	K123E	276.120	94.899	276.949	3.705	0.16960	2.77676	5 X
K08U05W	18.0	0.15	K123E	58.724	204.364	297.953	9.418	0.38873	1.83229	3 X
K08U07K	15.7	0.15	K123E	301.011	248.509	70.299	20.645	0.31839	2.77994	4 X
K08UA1C	16.3	0.15	K123E	249.110	124.047	217.734	8.905	0.06720	3.17718	3 X
K08UB3U	16.0	0.15	K123E	274.612	94.459	229.597	18.072	0.13397	3.20840	2 X
K08UF8G	15.8	0.15	K123E	260.518	118.983	225.860	15.124	0.22649	3.16753	3 X
K08US3Q	15.6	0.15	K123E	288.577	271.800	45.943	21.582	0.17395	3.06997	4 X
K08UY1K	16.1	0.15	K123E	285.260	116.211	217.369	6.572	0.19040	3.12826	4 X
K08UZ2N	15.6	0.15	K123E	240.642	286.558	91.689	10.879	0.21937	3.17940	6 X
K08V35P	16.3	0.15	K123E	237.944	137.704	266.143	8.960	0.09493	3.02322	4 X
K08W64M	20.6	0.15	K123E	187.814	257.090	91.506	33.525	0.10687	1.00519	2 X
K09A03Z	14.8	0.15	K123E	187.828	318.607	83.779	9.615	0.25358	3.94902	4 X
K09B02D	17.5	0.15	K123E	296.139	262.233	166.701	14.653	0.50859	2.58928	2 S
K09BH0X	16.4	0.15	K123E	339.405	75.816	327.226	21.874	0.15322	2.71353	2 S
K09D17T	15.2	0.15	K123E	209.418	156.499	276.861	17.490	0.11905	3.18756	4 X
K09K22J	20.0	0.15	K123E	316.595	50.877	243.872	5.748	0.43460	2.10168	2 X
K09Q07P	18.3	0.15	K123E	264.777	121.071	219.252	6.072	0.24296	2.28943	5 X
K09Q23K	17.8	0.15	K123E	289.165	197.129	112.825	3.320	0.21255	2.25011	4 X
K09Q56M	15.7	0.15	K123E	50.371	8.770	153.860	4.073	0.17366	2.53835	5 X
K09R19O	17.5	0.15	K123E	252.714	154.434	188.064	3.192	0.19220	2.38693	5 X
K09R22R	17.9	0.15	K123E	250.032	153.809	193.957	6.836	0.12601	2.31254	5 X
K09R34Q	17.4	0.15	K123E	308.091	75.100	198.184	5.978	0.06453	2.66029	6 X
K09R56A	16.3	0.15	K123E	102.011	3.807	101.505	2.714	0.15529	3.07209	6 X

K09SD8X	17.8	0.15	K123E	281.094	132.787	207.206	5.072	0.28191	2.31560	4	X
K09SE3C	18.3	0.15	K123E	286.049	142.942	188.787	6.531	0.26533	2.25192	2	S
K09SF6X	16.8	0.15	K123E	154.755	261.182	184.135	13.118	0.13912	2.60106	5	X
K09SG7G	18.2	0.15	K123E	274.356	151.178	179.300	3.341	0.14258	2.29090	5	X
K09SO0V	16.0	0.15	K123E	160.899	198.637	232.689	15.543	0.19498	2.68714	4	X
K09SR3R	17.2	0.15	K123E	114.543	275.911	179.059	2.647	0.07846	2.79566	6	X
K09SY1Q	15.9	0.15	K123E	53.042	336.201	184.345	9.168	0.18093	2.99743	2	S
K09SY8C	16.8	0.15	K123E	134.393	321.568	134.426	4.787	0.02277	2.59013	4	X
K09SY9S	16.9	0.15	K123E	292.816	228.025	95.464	10.290	0.23742	2.33585	5	X
K09SZ8U	17.0	0.15	K123E	203.783	253.449	140.739	5.156	0.05740	2.56485	4	X
K09T09P	16.9	0.15	K123E	120.017	268.305	204.101	14.282	0.17872	2.76128	4	X
K09T14V	16.1	0.15	K123E	316.002	72.195	205.552	5.304	0.09722	2.56165	4	X
K09T27N	17.4	0.15	K123E	267.791	206.870	142.095	5.112	0.25969	2.33195	5	X
K09T47T	16.0	0.15	K123E	239.170	255.249	97.605	12.611	0.07643	2.59075	4	X
K09U23G	16.3	0.15	K123E	157.064	219.464	214.908	8.555	0.14336	2.77249	5	X
K09U25G	18.0	0.15	K123E	291.807	109.600	210.023	4.399	0.30525	2.32700	2	X
K09U86Q	16.8	0.15	K123E	321.211	42.496	263.769	6.144	0.07682	2.36820	5	X
K09U98F	16.6	0.15	K123E	105.446	252.400	211.914	8.397	0.08533	3.10309	4	X
K09UA2W	15.0	0.15	K123E	133.019	208.958	243.198	18.841	0.28032	3.13322	6	X
K09UE9Y	16.6	0.15	K123E	323.343	46.579	229.295	11.472	0.15748	2.59112	3	X
K09V21M	17.1	0.15	K123E	291.219	132.134	182.317	3.243	0.13094	2.59029	6	X
K09V62P	15.7	0.15	K123E	88.605	63.975	68.410	13.421	0.00742	3.07157	3	X
K09V78B	15.7	0.15	K123E	291.350	217.858	90.323	13.561	0.09299	2.58930	2	X
K09V78S	15.5	0.15	K123E	249.631	268.155	92.097	16.150	0.16287	2.59555	7	X
K09V91H	16.3	0.15	K123E	271.554	261.402	66.322	14.472	0.19999	2.58280	3	X
K09W20U	16.2	0.15	K123E	203.354	241.472	155.823	4.779	0.07180	2.79582	3	X
K09W33E	15.7	0.15	K123E	312.779	194.061	73.251	8.698	0.01136	3.16941	5	X
K09W41W	16.9	0.15	K123E	246.463	182.213	168.766	4.771	0.18983	2.61867	4	X
K09W89P	16.8	0.15	K123E	321.269	189.115	116.229	5.103	0.04865	2.56452	8	X
K09WG7S	16.6	0.15	K123E	278.389	212.195	90.549	4.222	0.03998	2.95694	5	X
K09WK2A	15.3	0.15	K123E	198.864	299.496	96.524	13.400	0.06680	2.86119	2	S
K09WQ2Z	16.1	0.15	K123E	194.888	304.284	100.108	11.821	0.09718	3.14225	4	X
K09X00B	16.3	0.15	K123E	208.392	154.795	261.519	9.221	0.04366	2.43400	6	X
K09X16O	16.3	0.15	K123E	234.543	136.669	266.755	4.156	0.07961	2.74052	5	X
K10A43G	15.8	0.15	K123E	232.861	283.301	89.832	12.322	0.08355	3.08931	5	X
K10A73U	15.7	0.15	K123E	166.880	327.678	87.643	10.299	0.07755	3.24092	4	X
K10C01G	14.8	0.15	K123E	180.599	333.875	119.072	23.328	0.08359	3.10296	4	X
K10D05J	16.1	0.15	K123E	162.774	334.712	134.440	9.938	0.03253	3.13317	3	X
K10D60D	16.0	0.15	K123E	119.127	26.947	81.466	28.218	0.09482	3.13736	3	X
K10VH8E	16.9	0.15	K123E	323.280	153.485	47.139	3.494	0.01758	2.70116	6	X
K10W14G	18.1	0.15	K123E	134.886	315.814	123.017	1.849	0.04497	2.13182	6	X
K10X01P	16.6	0.15	K123E	35.310	350.497	173.831	4.969	0.18954	2.56031	7	X
K11A27Q	16.5	0.15	K123E	5.369	321.977	291.829	11.846	0.23879	2.34160	4	X
K11A27U	17.0	0.15	K123E	88.082	9.123	127.792	3.710	0.07460	2.54760	6	X
K11A38L	17.5	0.15	K123E	100.888	5.738	115.488	6.353	0.07404	2.48946	5	X
K11A54H	17.6	0.15	K123E	299.961	194.003	103.261	5.492	0.18208	2.24247	5	X
K11B55A	16.0	0.15	K123E	234.698	235.242	126.490	26.515	0.06588	2.54364	5	X
K11B56D	16.4	0.15	K123E	342.400	84.763	158.973	8.553	0.08017	2.63430	6	X
K11B63C	15.3	0.15	K123E	355.712	85.762	158.562	20.647	0.09944	3.15393	6	X
K11B63Q	16.6	0.15	K123E	159.912	309.498	131.234	15.450	0.02062	2.58032	5	X
K11B86J	17.3	0.15	K123E	41.961	62.056	122.842	5.024	0.05965	2.63857	6	X
K11BA3O	16.6	0.15	K123E	57.561	338.295	185.440	4.634	0.11462	3.18155	6	X
K11C26T	16.4	0.15	K123E	11.012	80.356	135.348	6.314	0.13627	3.15635	6	X
K11C47C	16.4	0.15	K123E	58.490	272.579	280.581	7.288	0.14572	2.63296	6	X
K11C60V	16.6	0.15	K123E	322.694	123.174	149.644	5.851	0.04371	2.72122	4	X
K11C68T	16.8	0.15	K123E	8.720	81.281	146.552	6.460	0.05651	2.75791	3	S
K11C76C	16.3	0.15	K123E	93.206	29.020	126.326	14.648	0.19148	2.64295	4	X
K11C92Y	17.1	0.15	K123E	335.195	69.019	189.978	6.350	0.02047	2.71765	5	X
K11D10U	16.0	0.15	K123E	62.413	23.647	138.304	16.176	0.18686	3.19274	4	X
K11E17T	15.5	0.15	K123E	279.841	130.978	218.273	8.181	0.28325	2.54356	5	X
K11E53H	15.7	0.15	K123E	175.352	272.705	161.051	14.680	0.10118	3.19537	4	X
K11E65U	15.2	0.15	K123E	52.888	62.512	117.404	13.124	0.07451	2.92444	4	X
K11F26F	16.7	0.15	K123E	13.292	144.372	110.083	10.087	0.08160	3.06684	6	X
K11F36Y	16.3	0.15	K123E	275.679	171.108	161.202	6.744	0.04708	3.17763	7	X
K11G59T	16.4	0.15	K123E	106.479	332.386	145.383	6.397	0.10063	3.11767	6	X
K11G83W	15.6	0.15	K123E	322.886	180.766	128.284	10.240	0.06204	3.16369	4	X
K11J14C	15.2	0.15	K123E	222.212	300.693	120.163	18.141	0.11068	3.20031	5	X
K11J26L	15.3	0.15	K123E	169.178	354.472	113.699	23.824	0.11685	3.16613	6	X
K12B13Y	17.6	0.15	K123E	344.047	323.889	247.682	3.867	0.42996	2.41095	3	X
K12C05K	16.6	0.15	K123E	331.257	203.051	359.096	13.438	0.29091	2.69905	3	X
K12F21X	16.9	0.15	K123E	344.877	132.644	109.616	30.412	0.24963	2.58234	2	X
K12F23C	16.2	0.15	K123E	345.433	151.737	73.850	25.174	0.24119	2.24367	3	X
K12G40A	16.6	0.15	K123E	312.186	163.230	105.313	9.290	0.18400	2.76955	5	X
K12H02C	16.9	0.15	K123E	338.077	169.272	104.042	21.702	0.50465	3.03033	2	X
K12H12V	18.3	0.15	K123E	314.510	190.956	78.463	11.743	0.14943	2.30841	2	X
K12H20G	17.3	0.15	K123E	348.565	18.348	211.485	21.217	0.05366	1.93894	4	X
K12H23T	16.6	0.15	K123E	145.102	293.219	147.545	15.117	0.02613	2.63999	5	X

K12H24G	16.3	0.15	K123E	325.310	73.585	193.953	14.466	0.08635	2.60621	6 X
K12H28E	18.5	0.15	K123E	320.978	145.745	131.084	3.875	0.30358	2.31851	3 X
K12H38E	16.3	0.15	K123E	99.718	249.885	225.809	10.326	0.05486	2.92008	7 X
K12H39L	15.1	0.15	K123E	347.237	15.520	225.652	16.307	0.15873	3.15144	4 X
K12H47N	16.7	0.15	K123E	331.920	40.599	218.744	12.080	0.19833	2.57517	3 X
K12H50E	15.4	0.15	K123E	16.134	117.433	69.501	18.780	0.04673	3.07303	7 X
K12H59M	16.7	0.15	K123E	37.169	91.528	83.960	10.872	0.05615	2.55440	4 X
K12H63L	17.7	0.15	K123E	299.246	191.021	102.375	3.501	0.18901	2.39154	4 X
K12H67H	16.8	0.15	K123E	287.370	234.341	76.282	12.660	0.20351	2.58321	3 X
K12H67O	16.9	0.15	K123E	304.868	218.659	76.000	10.922	0.22573	2.92051	2 X
K12H67P	16.6	0.15	K123E	297.264	213.797	79.956	10.023	0.14214	2.79354	5 X
K12H72F	15.7	0.15	K123E	287.731	226.359	70.520	16.705	0.05905	3.15923	3 X
K12J02F	16.4	0.15	K123E	327.149	95.827	171.473	12.621	0.13587	2.60941	5 X
K12J02G	16.1	0.15	K123E	327.781	50.422	213.659	12.606	0.11490	2.72125	5 X
K12J02S	18.2	0.15	K123E	321.838	171.838	86.053	6.148	0.14484	2.28240	3 X
K12J07O	17.3	0.15	K123E	21.262	306.752	230.660	10.335	0.19519	2.47261	5 X
K12J08Z	16.0	0.15	K123E	12.948	99.573	98.403	7.262	0.18763	3.06041	5 X
K12J13F	16.5	0.15	K123E	6.996	132.138	79.672	3.253	0.05119	2.58563	7 X
K12J23J	15.7	0.15	K123E	316.376	170.134	97.474	8.497	0.03271	3.19814	5 X
K12J23Y	16.4	0.15	K123E	324.829	172.476	95.314	13.423	0.15759	2.66706	6 X
K12J23V	15.5	0.15	K123E	33.085	77.057	112.694	10.474	0.06170	3.09876	4 X
K12J28C	16.8	0.15	K123E	192.757	330.916	62.894	6.463	0.05869	2.69474	5 X
K12J46F	16.1	0.15	K123E	318.294	213.652	77.052	15.550	0.27066	2.63489	5 X
K12K02M	16.0	0.15	K123E	81.069	326.072	170.505	15.137	0.13287	2.54671	5 X
K12K25D	16.4	0.15	K123E	359.390	96.708	129.479	16.379	0.08663	2.72047	5 X
K12K28S	17.3	0.15	K123E	300.957	115.242	180.552	5.259	0.22858	2.59848	4 X
K12K30W	15.5	0.15	K123E	291.236	217.957	98.339	10.159	0.16086	2.73210	9 X
K12K46W	16.2	0.15	K123E	17.381	134.501	67.700	12.633	0.10143	2.65891	6 X
K12K47G	15.7	0.15	K123E	342.148	147.423	107.030	11.627	0.05429	3.12924	6 X
K12K50L	16.6	0.15	K123E	305.181	195.619	116.564	16.690	0.28150	2.61522	5 X
K12K50N	16.5	0.15	K123E	338.437	134.781	117.355	8.185	0.17395	2.53173	7 X
K12L00Q	17.0	0.15	K123E	135.455	327.749	123.024	7.307	0.07282	2.35437	5 X
PLS3549	16.1	0.15	K123E	253.570	142.617	220.371	11.733	0.34808	2.54243	4 X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc C
K11W46Q	24.1	0.15	K123E	38.269	235.604	219.876	1.073	0.36747	1.65715	83 X
K12C21A	19.1	0.15	K123E	359.200	35.555	128.156	28.860	0.65872	2.65393	123 X
K12C55A	21.9	0.15	K123E	343.774	41.373	176.021	8.653	0.47902	1.80070	134 X
K12F52M	18.7	0.15	K123E	320.808	155.448	146.506	22.078	0.60899	2.34544	73 X
K12F74D	16.4	0.15	K123E	294.922	91.329	203.470	19.265	0.21331	2.80469	111 X
K12H01J	17.9	0.15	K123E	300.373	291.171	44.775	31.277	0.60699	2.00284	59 X
K12H15S	20.5	0.15	K123E	317.009	156.922	134.843	8.336	0.49469	2.11069	52 X
K12H20D	22.0	0.15	K123E	37.865	32.078	87.157	4.692	0.27157	1.18130	51 X
K12H22W	16.9	0.15	K123E	295.981	224.117	83.756	13.366	0.25079	2.40848	105 X
K12H31G	18.9	0.15	K123E	310.993	172.948	148.414	10.218	0.52998	2.17246	60 X
K12H63M	17.8	0.15	K123E	307.751	188.961	86.413	4.020	0.14654	2.16903	55 X
K12J11X	23.2	0.15	K123E	334.571	22.880	221.383	7.841	0.47501	1.96684	29 X
K12J16B	19.7	0.15	K123E	317.224	189.139	70.436	35.748	0.27706	1.73684	31 X
K12K00X	23.5	0.15	K123E	342.655	135.973	102.563	3.220	0.56885	2.44714	29 X
K12K06C	21.7	0.15	K123E	354.350	337.924	195.458	11.333	0.24621	1.24038	27 X
K12K11J	16.7	0.15	K123E	245.725	304.929	339.659	35.817	0.57019	1.57574	29 X
K12K18N	24.5	0.15	K123E	336.919	102.746	178.631	2.186	0.63349	2.70325	15 X
K12K45M	18.6	0.15	K123E	332.735	158.495	95.239	28.208	0.59282	2.26595	16 X
K12L00A	27.5	0.15	K123E	233.797	68.015	237.304	3.255	0.01936	1.04088	13 X
K12L00T	25.8	0.15	K123E	333.386	189.258	77.712	5.498	0.55571	2.30827	6 X
K12L00U	25.2	0.15	K123E	299.602	200.358	88.777	3.147	0.33628	1.53469	5 X
K12L01C	16.1	0.15	K123E	344.387	52.136	53.959	34.438	0.76168	1.99476	6 X
K12L01D	21.9	0.15	K123E	349.387	303.020	246.175	15.163	0.11699	1.18757	5 X
K12L01P	23.4	0.15	K123E	290.584	224.602	76.914	19.977	0.32912	1.50817	4 X
K12L01R	20.5	0.15	K123E	7.429	66.540	83.136	42.310	0.38112	1.33630	6 X
K12L01Z	19.8	0.15	K123E	334.740	13.885	264.687	26.270	0.59369	2.55088	4 X
K12L02J	21.6	0.15	K123E	348.615	94.719	86.743	34.390	0.53598	1.79516	4 X
K12L02K	17.3	0.15	K123E	9.719	23.939	110.096	32.423	0.83097	2.28919	4 X
K12L04F	24.5	0.15	K123E	258.497	72.944	252.480	5.854	0.26075	1.27112	2 X
K12L04G	23.6	0.15	K123E	219.242	100.470	262.711	14.164	0.30978	1.13014	2 X
K12L07Q	24.2	0.15	K123E	325.604	201.389	89.549	10.091	0.52370	2.30899	1 X
K12L07T	19.0	0.15	K123E	338.321	358.190	112.310	41.634	0.75682	1.06944	2 X
K12L07U	18.8	0.15	K123E	316.311	179.381	153.948	8.938	0.54629	2.44386	2 S

New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc C
K02N79Z	17.4	0.15	K026F	331.837	221.573	110.724	5.963	0.24838	2.56213	36 S
K02O23O	16.3	0.15	K026F	0.188	171.871	119.261	21.242	0.22766	3.09115	79 S
K02PJ9Y	16.3	0.15	K027P	312.033	90.491	271.833	7.605	0.08524	3.16091	43 S
K02PK0A	17.7	0.15	K027P	351.176	158.064	160.468	7.017	0.11224	2.55366	46 S
K02PK0B	18.6	0.15	K027P	343.263	46.132	303.701	18.611	0.42226	3.04592	51 S

K02PK0C	19.0	0.15	K027P	352.171	160.803	160.311	5.203	0.20934	2.20626	37 S
K02PK0G	18.0	0.15	K027P	349.202	256.389	69.687	4.458	0.22874	2.60291	46 S
K02PK0H	17.6	0.15	K027P	340.464	230.895	107.921	9.922	0.19424	2.77089	46 S
K02QF0A	18.0	0.15	K0293	10.770	44.288	275.304	5.052	0.29456	2.61321	37 S
K02QF0B	17.6	0.15	K028E	9.611	223.649	88.703	4.160	0.16573	2.71142	8 S
K02QF0C	18.5	0.15	K028E	341.480	230.871	123.188	7.445	0.21310	2.33242	78 S
K02QF0E	17.7	0.15	K027P	45.104	147.715	115.329	6.693	0.12684	2.33690	27 S
K12H08V	17.5	0.15	K125D	20.723	22.894	185.062	12.724	0.19248	2.54570	58 X
K12H12Y	17.8	0.15	K125D	37.306	96.179	82.049	13.204	0.20077	2.60827	54 X
K12H13W	17.8	0.15	K125D	350.922	186.444	74.325	25.216	0.49864	2.98062	52 S
K12H14G	17.0	0.15	K125D	23.186	66.804	136.499	13.765	0.21511	2.70011	56 X
K12H38X	18.3	0.15	K125D	350.486	32.384	216.068	4.976	0.12183	2.31770	56 X
K12H48C	17.7	0.15	K125D	357.619	154.544	81.795	13.921	0.19809	2.63845	58 X
K12H68O	16.4	0.15	K125D	48.628	94.235	65.070	26.212	0.20340	3.17336	54 X
K12H77U	17.6	0.15	K125D	12.368	353.414	223.962	9.100	0.14547	2.59411	46 X
K12H78Y	17.3	0.15	K125D	332.849	38.276	233.760	11.289	0.20380	2.45532	54 X
K12H79Q	17.2	0.15	K125D	346.210	173.108	81.885	24.623	0.16446	2.35122	45 X
K12J01W	16.8	0.15	K125D	324.577	179.384	109.509	9.287	0.20194	2.55999	58 X
K12J08N	16.0	0.15	K125D	277.324	95.957	223.106	8.943	0.05483	3.12707	50 X
K12J10H	17.4	0.15	K125D	17.238	354.877	217.195	4.390	0.11472	2.55759	56 X
K12J14O	18.0	0.15	K125D	1.502	129.015	98.493	5.235	0.09339	2.45835	44 X
K12J19L	15.9	0.15	K125D	57.726	91.424	75.859	11.064	0.03999	3.00922	44 X
K12J23O	16.0	0.15	K125D	323.984	85.673	201.548	13.633	0.17047	2.55597	28 S
K12J23R	16.8	0.15	K125D	1.867	38.902	200.692	15.780	0.19885	2.59074	50 X
K12J32O	17.4	0.15	K125D	341.659	85.789	184.959	12.477	0.23334	2.57139	33 X
K12J33D	16.8	0.15	K125D	3.023	46.693	192.855	16.405	0.20141	3.19483	32 S
K12J39E	17.2	0.15	K125D	304.327	228.547	75.510	6.666	0.16479	2.24476	56 X
K12J46G	15.7	0.15	K125D	304.185	215.068	116.277	5.427	0.27994	2.55117	30 S
K12J53N	16.8	0.15	K125D	306.782	89.425	224.888	11.966	0.15500	2.74457	30 X
K12J53P	16.5	0.15	K125D	268.688	110.332	230.516	14.145	0.04692	2.59700	30 X
K12J64T	16.3	0.15	K125D	183.159	223.292	198.779	6.033	0.03377	2.76427	30 X
K12J64U	17.0	0.15	K125D	44.104	343.940	209.739	6.536	0.07450	2.57433	30 X
K12J66P	17.5	0.15	K125D	345.727	148.249	116.713	10.468	0.26823	2.35708	47 S
K12K02J	17.5	0.15	K125D	349.542	117.116	139.913	13.065	0.22865	2.59956	29 X
K12K10S	17.5	0.15	K125D	316.531	106.726	197.917	5.733	0.23545	2.54595	29 S
K12K12M	19.1	0.15	K125D	342.210	48.860	235.406	5.151	0.42618	2.32694	21 S
K12K12V	17.9	0.15	K125D	317.138	268.854	69.002	23.782	0.51347	2.75466	29 S
K12K15U	17.9	0.15	K125D	331.094	171.478	109.942	7.327	0.18282	2.26068	25 S
K12K16E	17.1	0.15	K1262	337.026	76.981	201.263	6.107	0.12116	2.34680	25 X
K12K17R	17.8	0.15	K125D	352.192	29.714	225.092	13.352	0.22512	2.63096	24 S
K12K18B	16.9	0.15	K1262	359.269	132.500	120.757	11.365	0.14571	2.61254	23 S
K12K23J	16.5	0.15	K125D	16.395	24.448	195.780	16.866	0.15400	3.12877	26 X
K12K24L	16.9	0.15	K1262	323.539	77.638	261.539	23.069	0.11432	1.82636	24 X
K12K44F	16.2	0.15	K1262	306.035	228.557	92.872	13.205	0.16687	3.04771	24 X
K12K44G	16.0	0.15	K1262	74.948	314.132	215.642	9.807	0.05685	2.98666	24 X
K12K46D	16.0	0.15	K125D	308.420	109.527	212.894	10.900	0.23146	2.55176	25 S
K12K46E	16.0	0.15	K125D	314.588	214.146	97.536	12.787	0.21989	2.58458	26 X
K12K46M	16.9	0.15	K125D	323.169	216.652	86.660	14.036	0.26712	2.54726	18 S
K12K46N	16.1	0.15	K1262	340.267	63.204	208.569	7.659	0.06075	2.62097	24 X
K12K47B	15.6	0.15	K1262	323.857	97.639	207.307	8.794	0.21322	3.12662	17 S
K12K48D	16.8	0.15	K1262	14.779	111.110	119.828	4.996	0.08840	2.67837	24 X
K12K48F	17.5	0.15	K1262	327.300	89.029	209.815	6.484	0.19786	2.32743	14 X
K12K49N	16.7	0.15	K1262	298.963	227.303	113.912	8.079	0.25413	2.54043	14 X
K12K49Q	15.7	0.15	K1262	313.444	152.368	148.817	6.101	0.04413	3.11303	23 X
K12K49R	17.1	0.15	K1262	8.224	96.877	142.455	5.406	0.15639	2.54632	24 X
K12K49T	16.8	0.15	K1262	346.324	155.096	108.322	7.691	0.02183	2.73978	24 X
K12K49X	15.6	0.15	K1262	323.422	75.813	213.812	8.723	0.05739	3.05324	14 X
K12K49Z	16.1	0.15	K1262	40.550	354.423	207.816	8.630	0.08201	3.06732	24 X
K12K50H	17.8	0.15	K125D	338.008	173.063	102.472	10.192	0.19192	2.31988	26 X
K12K50S	15.4	0.15	K125D	325.355	70.703	242.664	23.959	0.35063	3.13887	30 S
K12L00O	17.2	0.15	K1262	329.366	161.607	127.584	6.806	0.11502	2.64192	6 X
K12L00P	16.9	0.15	K1262	347.010	159.222	107.185	10.010	0.09509	3.01137	6 X
K12L00R	15.8	0.15	K1262	185.369	320.533	105.194	11.558	0.06255	3.12913	6 X
K12L04B	16.4	0.15	K1262	336.222	72.053	237.578	29.605	0.29750	2.63782	2 X
K12L04N	16.7	0.15	K1262	331.835	63.812	222.507	8.090	0.23233	2.75885	14 S
K12L04P	18.0	0.15	K1262	349.615	21.771	249.357	11.431	0.27696	2.32382	5 X
K12L05F	20.9	0.15	K1262	358.107	133.405	119.064	6.653	0.37472	2.25690	21 S
K12L05G	17.3	0.15	K125D	256.068	273.279	99.049	21.864	0.26831	2.33252	29 S
K12L05H	21.2	0.15	K1262	347.314	179.619	100.906	10.203	0.41771	2.26897	19 S
K12L05J	19.1	0.15	K1262	358.297	86.060	189.838	10.229	0.41369	2.89915	4ES
K12L05K	15.6	0.15	K1262	102.318	287.995	238.096	25.533	0.17611	2.72408	3ES
K12L05L	18.5	0.15	K1262	47.548	89.314	102.939	29.354	0.14977	2.02710	2ES
K12L05M	18.5	0.15	K1262	86.130	44.734	112.114	23.002	0.10506	1.84427	2ES
K12L05N	18.7	0.15	K1262	295.331	282.195	65.402	29.001	0.26928	2.23257	1ES
K12L05O	18.8	0.15	K1262	247.977	277.888	94.139	24.271	0.15538	1.91217	1ES
K12L05P	18.3	0.15	K1262	286.202	195.021	146.459	11.095	0.17134	2.11309	1ES
K12L05Q	18.3	0.15	K1262	275.729	176.929	181.297	12.181	0.22300	2.21365	1ES

K12L05R	18.5	0.15	K1262	297.225	110.237	232.907	27.249	0.25943	2.21740	1ES
K12L05S	18.9	0.15	K1262	276.206	252.329	95.916	18.424	0.14198	1.88300	1ES
K12L05T	17.9	0.15	K1262	289.210	174.447	177.019	9.062	0.24396	2.16274	1ES
K12L05U	18.2	0.15	K1262	26.200	25.901	203.683	26.929	0.17360	1.96810	1ES
K12L05V	18.8	0.15	K1262	318.208	252.697	88.541	27.469	0.43453	2.52302	1ES
K12L06G	18.4	0.15	K1262	47.666	4.985	180.293	5.821	0.16160	2.24806	17 S
K12L06P	15.6	0.15	K1262	300.763	205.576	109.941	12.795	0.03526	2.97424	17 S
K12L07K	18.1	0.15	K1262	327.044	186.466	118.158	8.476	0.25480	2.21059	13 S
K12L07L	17.6	0.15	K1262	329.085	93.808	213.492	11.680	0.28505	2.59286	12 S
K12L07N	15.9	0.15	K1262	203.054	194.314	211.470	24.484	0.03052	3.15714	14 S
K12L07S	18.1	0.15	K1262	273.163	242.111	101.274	25.670	0.06419	1.96496	2ES
K12L07V	15.4	0.15	K1262	352.696	292.550	294.656	29.713	0.35505	3.21690	2 S

New observations:

J84Q01Y	KC2012	06	12.89404	09	53	20.65	+40	46	31.8	tEL041204
J84Q01Y	KC2012	06	12.89718	09	53	23.72	+40	46	25.8	tEL041204
J84Q01Y	KC2012	06	12.90038	09	53	26.81	+40	46	19.6	tEL041204
J84Q01Y	KC2012	06	12.90355	09	53	29.88	+40	46	13.5	tEL041204
J84Q01Y	KC2012	06	12.90671	09	53	32.96	+40	46	07.5	16.6 RtEL041204
J84Q01Y	C2012	06	14.16788	10	13	42.52	+40	00	10.9	16.8 VrEL041703
J84Q01Y	C2012	06	14.17297	10	13	47.35	+39	59	58.1	16.9 VrEL041703
J84Q01Y	C2012	06	14.17817	10	13	52.24	+39	59	44.5	16.9 VrEL041703
J84Q01Y	C2012	06	14.18331	10	13	57.07	+39	59	31.7	16.9 VrEL041703
J99O03Q	KC2012	06	13.00522	15	06	20.75	+15	20	19.0	tEL041204
J99O03Q	KC2012	06	13.01801	15	06	20.16	+15	20	18.5	19.7 RtEL041204
J99O03Q	KC2012	06	13.03416	15	06	19.32	+15	20	19.0	tEL041204
K06O09T	mC2012	06	14.44874	23	13	25.28	-15	39	38.0	oEL041291
K06O09T	mC2012	06	14.45110	23	13	25.44	-15	39	35.3	oEL041291
K06O09T	mC2012	06	14.45344	23	13	25.59	-15	39	32.0	oEL041291
K08U05W	C2012	06	14.45518	19	25	48.733	-28	09	16.06	20.9 wLEL041F51
K08U05W	C2012	06	14.46670	19	25	47.730	-28	09	15.74	20.9 wLEL041F51
K08U05W	C2012	06	14.47816	19	25	46.711	-28	09	15.34	20.9 wLEL041F51
K08U05W	C2012	06	14.48967	19	25	45.681	-28	09	15.04	20.9 wLEL041F51
K08W64M	KC2012	06	12.91942	12	59	18.32	+59	51	01.8	tEL041204
K08W64M	KC2012	06	12.93343	12	59	11.54	+59	49	36.2	20.1 RtEL041204
K08W64M	KC2012	06	12.94735	12	59	04.99	+59	48	10.4	tEL041204
K09B02D	mC2012	06	14.42996	23	41	54.90	+03	35	27.0	oEL041291
K09B02D	mC2012	06	14.43231	23	41	55.13	+03	35	28.7	oEL041291
K09B02D	mC2012	06	14.43465	23	41	55.37	+03	35	29.6	oEL041291
K09K22J	C2012	06	13.26724	15	46	04.55	-13	32	33.3	18.8 cEL041704
K09K22J	C2012	06	13.27754	15	46	04.62	-13	32	18.7	18.8 cEL041704
K09K22J	C2012	06	13.28794	15	46	04.76	-13	32	04.9	19.0 cEL041704
K09K22J	C2012	06	13.29838	15	46	04.83	-13	31	50.3	19.2 cEL041704
K09K22J	C2012	06	13.30925	15	46	04.99	-13	31	35.6	18.8 cEL041704
K11W46Q	2C2012	02	13.55082211	15	42.396	-01	34	24.21	21.8 RtEL041568	
K11W46Q	2C2012	02	13.55574111	15	42.109	-01	34	21.29	21.8 RtEL041568	
K11W46Q	2C2012	02	13.56015011	15	41.840	-01	34	18.68	22.1 RtEL041568	
K12C21A	JC2012	06	14.27230	16	40	40.52	+35	41	14.2	20.1 RoEL041695
K12C21A	JC2012	06	14.27430	16	40	40.38	+35	41	08.5	20.0 RoEL041695
K12C21A	JC2012	06	14.27629	16	40	40.25	+35	41	02.2	20.3 RoEL041695
K12C55A	JC2012	06	14.42082	22	06	46.89	+19	50	07.5	22.0 RoEL041695
K12C55A	JC2012	06	14.42813	22	06	46.72	+19	50	02.9	21.7 RoEL041695
K12C55A	JC2012	06	14.43452	22	06	46.54	+19	49	59.2	21.7 RoEL041695
K12F52M	KC2012	05	29.98583	12	56	16.76	+46	03	13.9	tEL041204
K12F52M	KC2012	05	29.99986	12	56	16.13	+46	03	15.5	tEL041204
K12F52M	KC2012	05	30.01391	12	56	15.59	+46	03	17.3	19.6 RtEL041204
K12H01J	KC2012	06	14.10078	12	13	25.43	-21	42	09.0	19.0 VuEL041H21
K12H01J	KC2012	06	14.10377	12	13	24.87	-21	42	11.9	19.0 VuEL041H21
K12H01J	KC2012	06	14.10526	12	13	24.62	-21	42	13.3	18.9 VuEL041H21
K12H15S	KC2012	06	12.96761	13	35	40.34	+19	27	30.3	20.4 RtEL041204
K12H15S	KC2012	06	12.98839	13	35	40.61	+19	27	17.7	tEL041204
K12H20D	JC2012	06	14.23311	15	04	22.00	-13	24	15.9	22.1 RoEL041695
K12H20D	JC2012	06	14.23995	15	04	21.73	-13	24	20.4	21.9 RoEL041695
K12H20D	JC2012	06	14.25598	15	04	21.12	-13	24	31.5	22.1 RoEL041695
K12H31G	KC2012	06	14.16731	15	31	27.65	+17	29	14.2	19.0 VuEL041H21
K12H31G	KC2012	06	14.17106	15	31	27.34	+17	29	16.2	19.0 VuEL041H21
K12H31G	KC2012	06	14.17475	15	31	27.05	+17	29	18.2	19.0 VuEL041H21
K12H31G	KC2012	06	14.17843	15	31	26.76	+17	29	20.2	19.0 VuEL041H21
K12H31G	KC2012	06	14.18212	15	31	26.46	+17	29	22.1	19.1 VuEL041H21
K12H31G	KC2012	06	14.18592	15	31	26.16	+17	29	24.0	19.0 VuEL041H21
K12H31G	JC2012	06	14.30890	15	31	16.79	+17	30	31.5	18.5 RoEL041695
K12H31G	JC2012	06	14.31149	15	31	16.60	+17	30	32.7	18.6 RoEL041695
K12H31G	JC2012	06	14.31403	15	31	16.39	+17	30	34.0	18.7 RoEL041695
K12H31G	JC2012	06	14.31649	15	31	16.20	+17	30	35.3	18.7 RoEL041695
K12J11X	JC2012	06	14.36673	20	44	00.79	+35	02	17.6	22.2 RoEL041695
K12J11X	JC2012	06	14.36966	20	44	01.03	+35	02	14.9	22.7 RoEL041695
K12J11X	JC2012	06	14.37236	20	44	01.31	+35	02	11.6	22.0 RoEL041695

K12J16B	KC2012	06	14.15299	14	13	11.89	-21	57	40.8	19.4	VuEL041H21
K12J16B	KC2012	06	14.15757	14	13	10.94	-21	58	06.7	19.1	VuEL041H21
K12J16B	KC2012	06	14.16232	14	13	10.00	-21	58	33.6	19.4	VuEL041H21
K12K00X	KC2012	06	14.32982419	42	19.03	-11	14	54.9		19.6	VuEL041H21
K12K00X	KC2012	06	14.33897619	42	21.01	-11	15	21.6		20.0	VuEL041H21
K12K00X	KC2012	06	14.34355619	42	22.00	-11	15	34.7		20.0	VuEL041H21
K12K00X	KC2012	06	14.34813019	42	22.98	-11	15	47.9		19.9	VuEL041H21
K12K00X	KC2012	06	14.35270419	42	23.95	-11	16	01.2		19.8	VuEL041H21
K12K00X	KC2012	06	14.35711819	42	24.91	-11	16	14.0		20.1	VuEL041H21
K12K00X	KC2012	06	14.36138819	42	25.84	-11	16	26.0		20.3	VuEL041H21
K12K06C	]C2012	06	14.32525	16	43	28.22	+36	20	43.9	20.6	RoEL041695
K12K06C	]C2012	06	14.32691	16	43	28.20	+36	20	39.7	20.6	RoEL041695
K12K06C	]C2012	06	14.32821	16	43	28.16	+36	20	36.2	20.7	RoEL041695
K12K06C	]C2012	06	14.32952	16	43	28.21	+36	20	33.9	20.4	RoEL041695
K12K11J	C2012	06	15.15410	08	49	25.61	+21	16	35.1	20.2	RoEL041H01
K12K11J	C2012	06	15.16059	08	49	26.21	+21	16	28.9	20.6	RoEL041H01
K12K11J	C2012	06	15.17428	08	49	27.48	+21	16	15.3	21.1	RoEL041H01
K12K18N	KC2012	05	30.02984	16	10	09.47	+20	28	25.7		tEL041204
K12K18N	KC2012	05	30.04380	16	10	20.85	+20	30	46.5	19.7	RtEL041204
K12K18N	KC2012	05	30.05798	16	10	32.48	+20	33	10.0		tEL041204
K12K45M	KC2012	06	14.12732	10	31	15.23	+55	26	08.9	19.8	VuEL041H21
K12K45M	KC2012	06	14.13420	10	31	15.15	+55	25	45.6	19.7	VuEL041H21
K12K45M	KC2012	06	14.13747	10	31	15.12	+55	25	34.5	19.8	VuEL041H21
K12L00A	KC2012	06	14.25497617	16	14.06	+50	23	48.3		22.3	VuEL041H21
K12L00A	KC2012	06	14.27386417	16	14.23	+50	25	11.7		22.2	VuEL041H21
K12L00A	KC2012	06	14.29273017	16	14.47	+50	26	33.6		22.8	VuEL041H21
K12L00T	QC2012	06	14.80433022	26	46.72	-48	35	25.0		18.9	RrEL041E12
K12L00T	QC2012	06	14.80978522	26	59.95	-48	34	05.6		18.4	RrEL041E12
K12L00U	KC2012	06	14.18986	16	04	43.38	-10	09	56.8	19.0	VuEL041H21
K12L00U	KC2012	06	14.19333	16	04	44.77	-10	10	13.5	19.2	VuEL041H21
K12L00U	KC2012	06	14.19697	16	04	46.22	-10	10	31.4	19.2	VuEL041H21
K12L00U	C2012	06	14.25616	16	05	15.09	-10	14	56.6	18.4	RoEL041G48
K12L00U	C2012	06	14.25669	16	05	15.27	-10	14	58.8	18.7	RoEL041G48
K12L00U	C2012	06	14.25887	16	05	16.15	-10	15	10.0	18.7	RoEL041G48
K12L01C	KC2012	06	12.86981	10	12	09.22	+28	32	21.9		tEL041204
K12L01C	KC2012	06	12.87382	10	12	10.86	+28	32	06.6		tEL041204
K12L01C	KC2012	06	12.87783	10	12	12.51	+28	31	50.7		tEL041204
K12L01C	KC2012	06	12.88184	10	12	14.15	+28	31	35.0		tEL041204
K12L01C	KC2012	06	12.88606	10	12	15.87	+28	31	18.4	17.8	RtEL041204
K12L01C	KC2012	06	14.11295	10	20	26.67	+27	11	36.4	18.5	VuEL041H21
K12L01C	KC2012	06	14.11832	10	20	28.77	+27	11	15.3	18.4	VuEL041H21
K12L01C	KC2012	06	14.12151	10	20	30.00	+27	11	02.7	18.4	VuEL041H21
K12L01D	KC2012	06	14.09973016	10	27.03	+11	27	17.8		19.9	VuEL041H21
K12L01D	KC2012	06	14.10393516	10	27.24	+11	27	32.2		19.8	VuEL041H21
K12L01D	KC2012	06	14.10813116	10	27.44	+11	27	46.3		19.6	VuEL041H21
K12L01D	C2012	06	14.27213	16	10	32.16	+11	36	59.2	18.8	cEL041704
K12L01D	C2012	06	14.28268	16	10	32.41	+11	37	33.4	19.4	cEL041704
K12L01D	C2012	06	14.30351	16	10	32.83	+11	38	41.3	19.5	cEL041704
K12L01P	C2012	06	14.01648	14	09	07.45	-29	17	54.7	20.3	VoEL041807
K12L01P	C2012	06	14.02008	14	09	04.98	-29	18	45.3	20.2	VoEL041807
K12L01P	C2012	06	14.02366	14	09	02.49	-29	19	35.6	20.4	VoEL041807
K12L01P	C2012	06	14.02721	14	09	00.05	-29	20	25.2	20.1	VoEL041807
K12L01R	]C2012	06	14.28955	16	51	08.86	-14	26	31.7	19.3	RoEL041695
K12L01R	]C2012	06	14.29168	16	51	08.17	-14	26	44.9	19.1	RoEL041695
K12L01R	]C2012	06	14.29264	16	51	07.88	-14	26	51.1	19.1	RoEL041695
K12L01R	KC2012	06	14.29684	16	51	05.97	-14	27	19.5	19.0	VuEL041H21
K12L01R	KC2012	06	14.29854	16	51	05.39	-14	27	29.8	18.8	VuEL041H21
K12L01R	IC2012	06	14.31105	16	51	01.45	-14	28	46.3	18.6	VuEL041H21
K12L01R	KC2012	06	14.94834	16	47	45.28	-15	34	13.4		uEL041B33
K12L01R	KC2012	06	14.95604	16	47	42.97	-15	35	00.1	19.1	RuEL041B33
K12L01R	KC2012	06	14.96431	16	47	40.32	-15	35	50.7	19.2	RuEL041B33
K12L01Z	C2012	06	14.27147	19	37	11.00	-25	46	23.8	14.8	RoEL041G48
K12L01Z	C2012	06	14.27174	19	37	11.12	-25	46	10.1	14.7	RoEL041G48
K12L01Z	C2012	06	14.27199	19	37	11.23	-25	45	56.4	14.7	RoEL041G48
K12L01Z	C2012	06	14.27226	19	37	11.36	-25	45	42.7	14.7	RoEL041G48
K12L01Z	C2012	06	14.27280	19	37	11.60	-25	45	14.3	14.7	RoEL041G48
K12L01Z	C2012	06	14.27722	19	37	13.60	-25	41	20.1	14.7	RoEL041G48
K12L01Z	C2012	06	14.27742	19	37	13.70	-25	41	09.6	14.8	RoEL041G48
K12L01Z	C2012	06	14.27762	19	37	13.78	-25	40	58.4	14.8	RoEL041G48
K12L01Z	C2012	06	14.36442519	37	46.40	-24	24	03.0		14.1	VuEL041H21
K12L01Z	C2012	06	14.36663919	37	47.36	-24	22	03.8		13.9	VuEL041H21
K12L01Z	C2012	06	14.36774619	37	47.83	-24	21	04.3		14.0	VuEL041H21
K12L01Z	C2012	06	14.36898419	37	48.37	-24	19	57.4		14.1	VuEL041H21
K12L01Z	C2012	06	14.37007019	37	48.84	-24	18	58.9		14.0	VuEL041H21
K12L01Z	C2012	06	14.37130719	37	49.38	-24	17	52.0		14.0	VuEL041H21
K12L01Z	C2012	06	14.37239119	37	49.85	-24	16	53.6		14.1	VuEL041H21
K12L01Z	C2012	06	14.37362719	37	50.37	-24	15	47.1		14.1	VuEL041H21

K12L01Z	C2012	06	14.37470619	37	50.84	-24	14	48.6	14.1	VuEL041H21	
K12L01Z	C2012	06	14.37702219	37	51.84	-24	12	43.8	14.0	VuEL041H21	
K12L01Z	C2012	06	14.37964419	37	52.96	-24	10	22.3	14.1	VuEL041H21	
K12L01Z	QC2012	06	14.54029919	39	29.442	-21	40	45.82	13.4	VrEL041E12	
K12L01Z	QC2012	06	14.54057519	39	29.544	-21	40	30.74	13.5	VrEL041E12	
K12L01Z	QC2012	06	14.54084319	39	29.667	-21	40	16.39	13.5	VrEL041E12	
K12L01Z	QC2012	06	14.78171719	41	08.000	-18	00	09.48	13.5	VrEL041E12	
K12L01Z	QC2012	06	14.78200919	41	08.121	-17	59	53.45	13.6	VrEL041E12	
K12L01Z	QC2012	06	14.78227019	41	08.226	-17	59	38.92	13.5	VrEL041E12	
K12L01Z	C2012	06	14.91542	19	42	29.54	-16	01	41.4	13.8	VuEL041595
K12L01Z	C2012	06	14.92013	19	42	31.51	-15	57	22.1	13.9	VuEL041595
K12L01Z	C2012	06	14.92477	19	42	33.47	-15	53	06.6	13.8	VuEL041595
K12L01Z	C2012	06	14.92950	19	42	35.40	-15	48	46.4		uEL041595
K12L02J	C2012	06	14.26551	17	17	48.24	-03	56	44.1	20.5	RoEL041G48
K12L02J	C2012	06	14.26619	17	17	48.04	-03	56	53.1	20.4	RoEL041G48
K12L02J	C2012	06	14.26684	17	17	47.87	-03	57	01.4	20.2	RoEL041G48
K12L02J	C2012	06	14.26748	17	17	47.64	-03	57	10.4	20.4	RoEL041G48
K12L02J	KC2012	06	14.28567	17	17	41.09	-04	01	22.4	19.0	VuEL041H21
K12L02J	KC2012	06	14.28848	17	17	40.22	-04	02	00.4	18.9	VuEL041H21
K12L02J	KC2012	06	14.29128	17	17	39.38	-04	02	38.2	18.8	VuEL041H21
K12L02J	KC2012	06	14.29408	17	17	38.52	-04	03	16.4	18.8	VuEL041H21
K12L02J	KC2012	06	14.98880	17	14	22.40	-06	36	47.6	18.3	RoEL041B67
K12L02J	KC2012	06	14.99310	17	14	21.14	-06	37	43.2	18.4	RoEL041B67
K12L02J	KC2012	06	14.99739	17	14	19.89	-06	38	38.5	18.3	RoEL041B67
K12L02K	mC2012	06	14.29557	19	26	56.31	-08	15	54.3		oEL041291
K12L02K	mC2012	06	14.29653	19	26	56.18	-08	15	55.6		oEL041291
K12L02K	mC2012	06	14.29748	19	26	56.06	-08	15	56.4		oEL041291
K12L02K	KC2012	06	14.34532	19	26	49.29	-08	16	39.2	20.0	VuEL041H21
K12L02K	IC2012	06	14.34985	19	26	48.66	-08	16	43.4	20.4	VuEL041H21
K12L02K	KC2012	06	14.35873	19	26	47.47	-08	16	52.1		uEL041H21
K12L04F	KC2012	06	14.27424	17	33	39.09	+04	11	06.9	19.2	VuEL041H21
K12L04F	KC2012	06	14.27704	17	33	39.63	+04	11	48.8	19.5	VuEL041H21
K12L04F	KC2012	06	14.27985	17	33	40.18	+04	12	30.8	19.3	VuEL041H21
K12L04F	KC2012	06	14.28262	17	33	40.70	+04	13	12.4	19.3	VuEL041H21
K12L04G	C2012	06	14.03586	16	15	40.81	-23	41	20.3	19.1	VoEL041807
K12L04G	C2012	06	14.03942	16	15	39.23	-23	40	39.9	19.6	VoEL041807
K12L04G	C2012	06	14.04296	16	15	37.65	-23	39	59.2	19.6	VoEL041807
K12L04G	C2012	06	14.04650	16	15	36.05	-23	39	18.4	19.5	VoEL041807
K12L04G	KC2012	06	14.22514	16	14	16.80	-23	06	25.8	19.6	VuEL041H21
K12L04G	KC2012	06	14.22792	16	14	15.53	-23	05	52.5	18.7	VuEL041H21
K12L04G	KC2012	06	14.23077	16	14	14.26	-23	05	18.7	18.9	VuEL041H21
K12L07Q	KC2012	06	13.96556	15	56	57.56	-07	35	30.5		uEL041J95
K12L07Q	KC2012	06	13.98990	15	56	57.98	-07	37	00.0	21.2	RuEL041J95
K12L07T	KC2012	06	14.92804	18	03	08.10	+49	09	07.8	19.7	RcEL041A24
K12L07T	KC2012	06	14.93400	18	03	05.50	+49	08	42.3	19.7	RcEL041A24
01685	C2012	06	14.41811	22	16	15.13	-05	15	20.1	14.8	VrEL041703
01685	C2012	06	14.42662	22	16	16.46	-05	15	03.2	14.8	VrEL041703
01685	C2012	06	14.43513	22	16	17.79	-05	14	46.2	14.8	VrEL041703
01685	C2012	06	14.44370	22	16	19.16	-05	14	29.1	14.9	VrEL041703
04034	C2012	06	14.28669	17	05	29.66	+09	09	23.6	19.3	cEL041704
04034	C2012	06	14.29714	17	05	27.87	+09	09	18.9	19.5	cEL041704
04034	C2012	06	14.30752	17	05	26.25	+09	09	12.7	19.1	cEL041704
04341	C2012	06	14.31015	17	13	43.75	-11	43	51.5	17.4	VrEL041G96
04341	C2012	06	14.31524	17	13	43.14	-11	43	53.4	17.4	VrEL041G96
04341	C2012	06	14.32047	17	13	42.49	-11	43	55.8	17.3	VrEL041G96
04341	C2012	06	14.32576	17	13	41.80	-11	43	57.3	17.1	VrEL041G96
10302	C2012	06	14.41640	22	41	27.88	-05	18	57.6	18.8	VrEL041703
10302	C2012	06	14.42491	22	41	29.86	-05	18	54.2	18.6	VrEL041703
10302	C2012	06	14.43341	22	41	31.84	-05	18	51.6	18.7	VrEL041703
10302	C2012	06	14.44200	22	41	33.79	-05	18	49.1	18.8	VrEL041703
68350	C2012	06	14.41922	22	41	39.40	-08	26	20.9	20.0	VrEL041703
68350	C2012	06	14.42774	22	41	39.94	-08	26	24.3	19.9	VrEL041703
68350	C2012	06	14.43630	22	41	40.45	-08	26	28.5	19.6	VrEL041703
68350	C2012	06	14.44487	22	41	40.99	-08	26	32.7	19.8	VrEL041703
68359	C2012	06	14.31183	17	05	27.34	-14	49	17.5	17.7	VrEL041G96
68359	C2012	06	14.31697	17	05	26.84	-14	49	20.0	18.1	VrEL041G96
68359	C2012	06	14.32222	17	05	26.30	-14	49	23.2	18.0	VrEL041G96
85628	C2012	06	13.24028	14	41	35.61	-14	21	06.3	19.2	cEL041704
85628	C2012	06	13.25063	14	41	35.30	-14	21	12.8	18.9	cEL041704
85628	C2012	06	13.26170	14	41	34.89	-14	21	17.3	18.9	cEL041704
A0756	C2012	06	14.33304	17	27	14.54	-04	19	53.7	19.2	VrEL041G96
A0756	C2012	06	14.33987	17	27	14.07	-04	19	53.9	19.2	VrEL041G96
A0756	C2012	06	14.34687	17	27	13.50	-04	19	54.0	19.3	VrEL041G96
A0756	C2012	06	14.35381	17	27	12.99	-04	19	54.2	19.4	VrEL041G96
A1955	C2012	06	15.20494	13	30	31.97	-26	09	24.3	20.6	RoEL041H01
A1955	C2012	06	15.21275	13	30	32.08	-26	09	21.6	20.3	RoEL041H01
A1955	C2012	06	15.21887	13	30	32.17	-26	09	19.6	20.2	RoEL041H01

A1955	C2012 06	15.22591	13	30	32.28	-26	09	17.2	20.5	RoEL041H01
E1018	C2012 06	13.21907	14	47	53.49	-11	37	26.1	17.1	cEL041704
E1018	C2012 06	13.22949	14	47	54.80	-11	37	44.2	17.5	cEL041704
E1018	C2012 06	13.24001	14	47	56.11	-11	38	02.5	17.5	cEL041704
E1018	C2012 06	13.25037	14	47	57.40	-11	38	20.1	17.1	cEL041704
E1018	C2012 06	13.26144	14	47	58.79	-11	38	39.5	17.3	cEL041704
E1018	C2012 06	14.19344	14	50	09.34	-12	05	19.2	17.0	VrEL041G96
E1018	C2012 06	14.19921	14	50	10.03	-12	05	28.8	17.0	VrEL041G96
E1018	C2012 06	14.20506	14	50	10.75	-12	05	38.7	17.0	VrEL041G96
E1018	C2012 06	14.21083	14	50	11.47	-12	05	48.5	17.0	VrEL041G96
E2781	HC2012 06	14.31395	16	57	15.72	+11	30	23.6		oEL041691
E2781	HC2012 06	14.33173	16	57	14.35	+11	30	32.3		oEL041691
E2781	HC2012 06	14.34949	16	57	12.97	+11	30	40.7		oEL041691
F2964	C2012 06	14.38932	20	12	11.62	-14	25	08.8	19.6	VrEL041G96
F2964	C2012 06	14.39652	20	12	11.23	-14	25	11.8	19.2	VrEL041G96
F2964	C2012 06	14.40368	20	12	10.90	-14	25	14.4	19.4	VrEL041G96
F2964	C2012 06	14.41086	20	12	10.51	-14	25	18.6	19.6	VrEL041G96
F3267	C2012 06	14.46401	19	09	40.778	-28	51	00.31	19.5	wLEL041F51
F3267	C2012 06	14.47549	19	09	39.814	-28	51	08.26	19.8	wLEL041F51
F3267	C2012 06	14.48700	19	09	38.854	-28	51	16.18	19.6	wLEL041F51
G2173	C2012 06	13.27008	16	12	57.90	-18	52	58.5	19.0	cEL041704
G2173	C2012 06	13.28043	16	12	56.78	-18	52	47.6	19.3	cEL041704
G2173	C2012 06	13.29077	16	12	55.52	-18	52	39.6	19.2	cEL041704
G2173	C2012 06	13.30123	16	12	54.43	-18	52	29.6	18.9	cEL041704
G2173	C2012 06	13.31207	16	12	53.24	-18	52	17.9	19.0	cEL041704
G2173	C2012 06	14.22781	16	11	21.47	-18	38	03.9	18.8	cEL041704
G2173	C2012 06	14.23826	16	11	20.30	-18	37	54.1	19.2	cEL041704
G2173	C2012 06	14.24864	16	11	19.24	-18	37	44.8	19.1	cEL041704
G2173	C2012 06	14.25905	16	11	18.06	-18	37	35.1	19.1	cEL041704
G2173	8C2012 06	14.30698	16	11	13.05	-18	36	50.5	18.3	RoEL041H06
G2173	8C2012 06	14.31154	16	11	12.46	-18	36	45.4	18.3	RoEL041H06
G2173	8C2012 06	14.31609	16	11	11.95	-18	36	40.9	18.6	RoEL041H06
G2173	8C2012 06	14.32065	16	11	11.54	-18	36	37.8	18.2	RoEL041H06
G2173	8C2012 06	14.32522	16	11	11.02	-18	36	32.8	18.1	RoEL041H06
G2173	8C2012 06	14.32976	16	11	10.53	-18	36	28.4	18.1	RoEL041H06
G2173	8C2012 06	14.33429	16	11	10.08	-18	36	24.5	18.3	RoEL041H06
G2173	8C2012 06	14.33884	16	11	09.53	-18	36	19.8	18.1	RoEL041H06
G2173	8C2012 06	14.34344	16	11	09.11	-18	36	15.6	17.6	RoEL041H06
G2854	KC2012 06	14.96325	19	09	41.47	+08	42	35.6	19.8	VvEL041I93
G2854	KC2012 06	14.98094	19	09	40.07	+08	42	22.7	19.9	VvEL041I93
G2854	KC2012 06	14.99716	19	09	38.80	+08	42	10.9	19.8	VvEL041I93
T7274	C2012 06	13.22204	15	14	13.62	-14	28	48.5	17.9	cEL041704
T7274	C2012 06	13.23254	15	14	13.25	-14	28	48.1	18.1	cEL041704
T7274	C2012 06	13.24298	15	14	12.97	-14	28	48.6	18.0	cEL041704
T7274	C2012 06	13.25332	15	14	12.56	-14	28	47.9	18.1	cEL041704
T7274	C2012 06	13.26439	15	14	12.15	-14	28	48.1	18.5	cEL041704
T7274	C2012 06	14.21685	15	13	43.10	-14	29	01.2	18.0	VrEL041G96
T7274	C2012 06	14.22199	15	13	42.92	-14	29	01.2	18.0	VrEL041G96
T7274	C2012 06	14.22723	15	13	42.74	-14	29	01.3	18.0	VrEL041G96
T7274	C2012 06	14.23252	15	13	42.56	-14	29	01.5	18.2	VrEL041G96
W9437	C2012 06	13.88311	16	35	17.23	+58	33	01.8	17.5	VoEL041C77
W9437	C2012 06	13.88594	16	35	16.79	+58	32	45.3	17.5	VoEL041C77
W9437	C2012 06	13.88858	16	35	16.38	+58	32	29.4	17.3	VoEL041C77
W9437	C2012 06	13.89141	16	35	15.95	+58	32	13.7	17.6	VoEL041C77
W9437	C2012 06	13.90833	16	35	13.24	+58	30	32.3	17.7	VoEL041C77
W9437	C2012 06	13.91116	16	35	12.81	+58	30	15.7	17.7	VoEL041C77
W9437	C2012 06	13.91397	16	35	12.37	+58	29	58.8	18.0	VoEL041C77
W9437	C2012 06	13.91679	16	35	11.94	+58	29	42.3	17.6	VoEL041C77
W9571	C2012 06	14.18415	15	49	58.12	-09	10	42.9	20.7	VoEL041691
W9571	C2012 06	14.21384	15	49	55.95	-09	10	01.0	20.3	VoEL041691
W9571	C2012 06	14.24058	15	49	54.09	-09	09	23.2	20.5	VoEL041691
W9614	C2012 06	13.37399	19	45	19.32	-16	07	28.1	16.9	cEL041704
W9614	C2012 06	13.38436	19	45	20.88	-16	07	28.1	17.2	cEL041704
W9614	C2012 06	13.39474	19	45	22.47	-16	07	27.5	17.2	cEL041704
W9614	C2012 06	13.40517	19	45	24.05	-16	07	27.3	17.1	cEL041704
W9614	C2012 06	13.41551	19	45	25.57	-16	07	26.5	16.9	cEL041704
W9614	C2012 06	14.36193	19	48	00.46	-16	06	57.8	16.6	VrEL041G96
W9614	C2012 06	14.36718	19	48	01.29	-16	06	57.7	16.6	VrEL041G96
W9614	C2012 06	14.37243	19	48	02.12	-16	06	57.3	16.4	VrEL041G96
W9614	C2012 06	14.37764	19	48	02.95	-16	06	57.5	16.4	VrEL041G96

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