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## IAU Minor Planet Center

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## MPEC 2011-U91 : DAILY ORBIT UPDATE (2011 OCT. 28 UT)

The following [Minor Planet Electronic Circular](#) may be linked-to from your own Web pages, but must **not** otherwise be [redistributed electronically](#).

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[Read MPEC 2011-U90](#)[Read MPEC 2011-U92](#)

M.P.E.C. 2011-U91

Issued 2011 Oct. 28, 06:04 UT

The Minor Planet Electronic Circulars contain information on unusual minor planets and routine data on comets. They are published on behalf of Commission 20 of the International Astronomical Union by the Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

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DAILY ORBIT UPDATE (2011 OCT. 28 UT)

Update to [MPEC 2011-U87](#)

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

### New identification:

K01XM9V	K11UG4U	MPCW
K02U61C	K11UG5P	MPCW
K06SM0L	K11UG8E	MPCW
K07RV0D	K11UG5U	MPCW
K07UC0U	K11UG8J	MPCW
K07X58J	K02VC9V	MPCW
K09B39T	K11UF9V	MPCW
K09H07C	K11UG6B	MPCW
K10B51J	K07O10A	MPCW
K10RC9H	K11UG3E	MPCW
K11S26M	K02W30F	MPCS
K11S30Q	K02PJ3R	MPCS
K11S32Y	K04TR8Q	MPCS
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K11S37T	K03H24Z	MPCS
K11S38F	K03U25U	MPCS
K11S38G	K09E19A	MPCS
K11S52B	K06WI6T	K10K19Q
K11S84H	K07VO7D	MPCS
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K11S97D	J98Q59Z	MPCS
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K11U23M	K08CA4A		MPCS
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K11U29V	K07R65G		MPCS
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K11UB4K	K10J74J		MPCS
K11UB5O	K00T07L		MPCS
K11UB6A	K02U70F	K10LB0M	MPCS
K11UB6E	K09E05C		MPCS
K11UB6L	K05GF3X		MPCS
K11UB7B	K06WB3O		MPCS
K11UB7Q	K04XA9H		MPCS
K11UC0H	K05QF3W		MPCS
K11UC5G	K06W15D		MPCS
K11UC6H	K04N09G		MPCS
K11UC7V	K06R00D		MPCS
K11UC9F	K09M01R	K10GE9M	MPCS
K11UD0S	K00AL1A		MPCS
K11UD3L	K05XA4Z		MPCS
K11UF4H	K06Y23M		MPCS
K11UF5G	K09B57J		MPCS

New double designation:

K10GC7X	K10N50U	MPCS
K11R06H	K11R09A	MPCS
K11S58F	K11Q95W	MPCS
K11S68C	K11Q90W	MPCS
K11SA2W	K11Q38Z	MPCS
K11SB8D	K11SB0V	MPCS
K11SL0O	K11Q83S	MPCS
K11SN5P	K11T04V	MPCS
K11T13F	K11SK4N	MPCS
K11U01U	K11SI1F	MPCS
K11U12Y	K11SC3W	MPCS
K11U15G	K11SK9A	MPCS
K11U41S	K11SL3L	MPCS
K11UD9V	K11SI7N	MPCS

New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp C
J94A09B	17.3	0.15	K118R	331.671	294.916	121.899	2.904	0.19935	2.37714	5 X
J94N00Z	16.8	0.15	K118R	313.826	293.204	289.088	10.377	0.49475	2.72801	4 X
J95W14K	16.1	0.15	K118R	58.024	248.253	81.711	12.912	0.11925	3.05714	4 X
J96T34J	17.2	0.15	K118R	18.989	338.247	19.454	2.812	0.22362	2.40340	4 X
J98T27L	18.0	0.15	K118R	45.530	315.019	17.502	4.275	0.26828	2.60243	3 X
J98X05V	17.2	0.15	K118R	25.955	265.961	73.863	7.995	0.21847	2.67278	4 X

J98Y19W	17.6	0.15	K118R	337.853	315.812	96.130	5.497	0.33586	2.69815	4 X
J99C79W	15.5	0.15	K118R	298.272	258.492	303.950	10.455	0.19616	2.63567	7 X
J99JB0T	17.0	0.15	K118R	101.333	186.587	88.705	7.703	0.22003	2.37110	6 X
J99VF2Y	17.8	0.15	K118R	16.682	266.709	93.832	3.477	0.11680	2.53577	4 X
J99VI5X	16.2	0.15	K118R	31.877	253.660	61.154	11.678	0.29413	2.53837	5 X
J99VI7V	15.0	0.15	K118R	354.279	40.139	60.960	22.020	0.19639	3.18501	5 X
J99XA4H	15.6	0.15	K118R	343.304	324.506	75.479	13.609	0.25908	2.53890	6 X
J99XK7S	14.8	0.15	K118R	32.896	310.333	61.288	11.664	0.25335	2.52071	7 X
K00AD3D	15.6	0.15	K118R	291.699	110.679	15.278	5.225	0.21217	2.57425	4 X
K00C68T	16.4	0.15	K118R	231.623	40.693	138.318	3.302	0.11568	2.61339	7 X
K00E76C	16.2	0.15	K118R	227.934	170.425	31.050	5.308	0.20581	2.61511	6 X
K00G29S	16.1	0.15	K118R	254.510	308.242	199.827	12.415	0.11831	2.68307	6 X
K00K04T	16.4	0.15	K118R	56.629	68.087	234.882	21.095	0.27464	2.28870	4 X
K00QG3D	16.9	0.15	K118R	18.029	99.749	269.877	5.329	0.17435	2.31833	5 X
K00S82S	17.2	0.15	K118R	22.887	193.990	149.339	5.757	0.20977	2.36245	7 X
K00SA2W	17.3	0.15	K118R	352.471	34.742	357.391	3.980	0.20395	2.35375	5 X
K00SM5A	15.6	0.15	K118R	31.064	163.528	197.181	10.167	0.11184	3.03149	6 X
K00SO1A	16.5	0.15	K118R	18.636	139.253	222.927	23.014	0.16850	2.35201	4 X
K00SS8L	16.0	0.15	K118R	0.407	131.302	267.886	8.799	0.26760	3.02400	5 X
K00ST7K	17.5	0.15	K118R	356.118	158.287	236.251	4.627	0.20850	2.34568	4 X
K00Sa1B	16.5	0.15	K118R	356.338	69.285	354.401	22.027	0.25832	2.30782	4 X
K00T37F	16.7	0.15	K118R	12.057	312.979	48.543	7.248	0.26674	2.34094	5 X
K00U02V	17.5	0.15	K118R	342.139	195.464	220.691	5.069	0.21730	2.37150	7 X
K00UB0N	16.3	0.15	K118R	1.541	299.626	72.610	12.027	0.23894	3.12968	4 X
K00W73C	15.3	0.15	K118R	359.050	156.003	245.775	17.256	0.08629	3.10275	5 X
K00WH3X	16.8	0.15	K118R	5.623	273.416	101.216	8.437	0.18776	2.37470	6 X
K00Y31Q	16.5	0.15	K118R	312.892	343.404	100.308	3.492	0.17161	2.43444	5 X
K01A46E	16.7	0.15	K118R	22.033	35.209	355.838	18.931	0.09548	1.96475	5 X
K01B54C	15.5	0.15	K118R	159.320	258.407	316.234	13.650	0.07697	2.53290	7 X
K01C45Y	15.1	0.15	K118R	319.324	111.554	34.140	23.030	0.18253	3.16303	5 X
K01F93K	14.6	0.15	K118R	48.001	293.896	42.631	8.593	0.19203	2.54596	6 X
K01M03M	14.1	0.15	K118R	87.825	88.822	224.881	29.146	0.40725	2.74928	7 X
K01Q36E	17.2	0.15	K118R	2.129	230.492	140.879	6.666	0.23520	2.18580	5 X
K01QD6P	17.6	0.15	K118R	358.180	61.962	278.337	5.738	0.16898	2.25374	3 X
K01QH5S	17.0	0.15	K118R	26.406	66.985	306.901	2.768	0.11255	2.76414	7 X
K01QJ0M	16.2	0.15	K118R	50.662	161.427	253.784	13.024	0.14856	2.66909	4 X
K01R35G	17.0	0.15	K118R	345.927	218.158	176.086	7.934	0.17534	2.19257	5 X
K01RD3A	17.7	0.15	K118R	3.121	246.741	129.201	4.532	0.19000	2.20047	6 X
K01S46D	17.4	0.15	K118R	40.247	192.780	129.472	3.414	0.19530	2.20683	6 X
K01SJ0C	17.3	0.15	K118R	73.836	136.689	160.425	4.392	0.10877	2.18288	3 X
K01SK7M	18.3	0.15	K118R	70.498	113.675	180.661	5.567	0.16084	2.19465	4 X
K01SP5J	17.2	0.15	K118R	333.329	20.487	40.905	5.641	0.15540	2.21176	3 X
K01SW0A	17.5	0.15	K118R	14.762	172.801	174.067	6.472	0.19383	2.21919	4 X
K01SX3L	17.4	0.15	K118R	40.858	258.885	57.554	4.737	0.25022	2.20705	5 X
K01SY6M	15.9	0.15	K118R	30.769	140.215	207.366	14.550	0.15763	2.85256	6 X
K01SY6S	17.8	0.15	K118R	353.763	64.553	326.927	5.425	0.11312	2.20019	4 X
K01SZ1T	15.9	0.15	K118R	25.357	290.616	69.578	13.448	0.09255	2.89228	5 X
K01T60D	15.5	0.15	K118R	333.849	35.898	41.571	6.055	0.40570	2.91296	6 X
K01TI6W	17.4	0.15	K118R	5.180	148.898	235.515	4.890	0.25152	2.88788	3 X
K01TK0C	17.4	0.15	K118R	14.757	269.939	87.298	6.660	0.20755	2.20792	5 X
K01TP5J	16.5	0.15	K118R	297.890	356.069	104.439	6.222	0.06247	2.88067	7 X
K01U00A	17.5	0.15	K118R	24.234	282.467	50.839	7.181	0.26825	2.20944	4 X
K01U17T	18.7	0.15	K118R	342.259	342.095	48.225	30.401	0.25297	1.83547	3 X
K01U57C	16.2	0.15	K118R	23.385	157.167	210.379	10.183	0.12635	2.86950	5 X
K01U82G	17.4	0.15	K118R	331.289	3.222	65.615	4.139	0.11286	2.21546	4 X
K01UD5S	18.5	0.15	K118R	346.756	346.055	57.072	5.821	0.22182	2.22387	2 X
K01UE5V	16.7	0.15	K118R	9.185	333.039	56.203	1.184	0.13869	2.90064	6 X
K01UF9M	16.4	0.15	K118R	290.839	230.702	228.072	7.361	0.03544	2.24157	6 X
K01UK7A	17.4	0.15	K118R	20.427	255.355	86.876	8.132	0.23345	2.22234	4 X
K01W07S	17.4	0.15	K118R	340.359	301.763	103.858	5.867	0.12420	2.23741	4 X
K01W26F	17.3	0.15	K118R	305.539	15.127	71.071	7.992	0.21362	2.24083	5 X
K01X75U	15.7	0.15	K118R	4.906	293.898	89.436	6.849	0.08644	2.93430	6 X
K01XE6T	16.6	0.15	K118R	295.345	29.376	82.231	11.694	0.05363	2.97866	5 X
K01XK6U	16.3	0.15	K118R	348.836	311.260	106.945	7.518	0.22793	2.93351	5 X
K01XM9V	17.8	0.15	K118R	336.549	331.170	75.341	7.377	0.16517	2.24887	4 X
K01Y31S	17.3	0.15	K118R	8.239	286.234	76.064	5.310	0.19557	2.25091	4 X
K01YA0H	15.8	0.15	K118R	348.356	289.888	103.299	12.269	0.13261	3.02221	4 X
K01YC1N	17.1	0.15	K118R	347.806	87.974	310.858	5.444	0.13954	2.24672	5 X
K02A98P	17.4	0.15	K118R	310.773	344.663	100.142	7.579	0.23849	2.27155	2 S
K02AH4S	17.5	0.15	K118R	344.182	62.432	341.471	1.567	0.21198	2.27580	4 X
K02C28P	15.7	0.15	K118R	314.558	357.045	100.902	7.700	0.17844	3.04157	5 X
K02C87K	17.1	0.15	K118R	189.885	80.182	121.977	5.297	0.10269	2.33883	5 X
K02CP6H	16.0	0.15	K118R	300.120	5.264	98.542	6.149	0.13235	3.08959	6 X
K02CQ9Q	15.9	0.15	K118R	170.003	257.288	321.225	8.186	0.01152	3.19635	5 S
K02CR0Z	17.7	0.15	K118R	264.793	190.886	316.309	4.151	0.08126	2.28507	4 X
K02D15O	17.1	0.15	K118R	295.796	293.373	169.230	5.598	0.11338	2.30863	4 X

K02E36X	15.9	0.15	K118R	202.619	54.450	143.563	5.818	0.08247	3.23889	4	X
K02E75X	15.2	0.15	K118R	294.294	201.249	283.779	8.536	0.05234	3.13649	7	X
K02EB1R	16.9	0.15	K118R	258.057	55.832	86.854	7.477	0.21326	2.34041	5	X
K02EC3A	16.8	0.15	K118R	297.322	229.412	262.045	3.361	0.23689	3.07555	6	X
K02EE8G	17.3	0.15	K118R	165.845	77.091	154.765	5.769	0.15319	2.37918	5	X
K02EG2Y	13.1	0.15	K118R	350.352	105.608	4.312	18.925	0.06916	5.08306	5	X
K02F14O	16.9	0.15	K118R	247.838	69.810	85.322	5.679	0.17494	2.32435	6	X
K02F40F	17.2	0.15	K118R	215.463	97.167	92.340	6.830	0.20985	2.36194	3	X
K02G06N	15.7	0.15	K118R	38.136	103.480	212.338	33.617	0.32473	2.55225	4	X
K02GE7E	17.0	0.15	K118R	217.686	97.481	81.234	5.731	0.13611	2.37048	3	X
K02J57S	17.6	0.15	K118R	114.639	33.323	235.874	19.609	0.03684	1.95241	2	X
K02J69V	16.3	0.15	K118R	180.850	139.664	82.087	8.508	0.16938	2.38488	8	X
K02JF0P	16.8	0.15	K118R	92.408	106.944	185.044	6.790	0.13204	2.48393	6	X
K02K16C	16.6	0.15	K118R	115.260	72.921	197.285	7.985	0.17952	2.47987	6	X
K02K16R	16.4	0.15	K118R	12.152	146.692	202.550	18.951	0.31638	2.60119	4	X
K02M06U	17.5	0.15	K118R	52.038	25.071	274.151	5.542	0.20760	2.62281	3	X
K02N01R	17.0	0.15	K118R	8.094	168.468	194.145	12.648	0.30516	2.65183	3	X
K02N74X	16.5	0.15	K118R	17.429	203.716	157.154	3.779	0.13965	2.60910	7	X
K02O20J	17.4	0.15	K118R	48.056	72.865	240.285	11.962	0.28897	2.63388	3	W
K02P00O	17.3	0.15	K118R	44.382	143.024	172.774	4.573	0.25019	2.63576	3	X
K02P92D	17.3	0.15	K118R	39.027	111.463	217.461	11.102	0.30063	2.63367	3	W
K02PA6Y	16.7	0.15	K118R	43.313	35.078	281.765	12.356	0.16486	2.64361	2	W
K02Q27A	16.8	0.15	K118R	10.170	18.877	339.641	13.053	0.17401	2.65167	3	X
K02Q82G	17.5	0.15	K118R	352.324	221.108	163.071	12.424	0.20006	2.64974	5	X
K02QA5D	16.9	0.15	K118R	331.879	285.938	146.982	4.542	0.13839	2.59512	9	X
K02QA6T	17.2	0.15	K118R	16.546	220.018	156.965	5.681	0.16932	2.60189	4	X
K02QC2G	16.6	0.15	K118R	327.938	188.748	248.028	4.960	0.22880	2.62250	4	X
K02QE2F	17.7	0.15	K118R	331.614	127.307	253.598	7.061	0.20789	2.72561	3	X
K02R15C	16.6	0.15	K118R	359.888	220.364	169.609	7.145	0.17987	2.65496	4	X
K02R21A	16.8	0.15	K118R	339.485	244.639	156.467	10.987	0.23453	2.68567	3	X
K02R26T	16.7	0.15	K118R	4.402	165.016	226.514	8.130	0.13877	2.62964	7	X
K02R80Z	16.4	0.15	K118R	350.781	226.844	160.337	7.790	0.20342	2.68284	8	X
K02RC9Y	16.1	0.15	K118R	31.171	332.210	25.864	12.925	0.36607	2.63336	4	X
K02RN7X	17.0	0.15	K118R	358.776	250.408	149.402	4.942	0.08398	2.60215	6	X
K02RO6F	17.3	0.15	K118R	39.671	202.907	139.207	5.284	0.15685	2.61670	4	X
K02RS2F	16.9	0.15	K118R	110.177	237.423	353.345	12.594	0.12652	2.68909	4	X
K02S04W	16.5	0.15	K118R	332.060	242.154	184.945	9.343	0.24936	2.68978	5	X
K02S24V	17.0	0.15	K118R	3.515	186.528	179.399	8.739	0.27847	2.69850	3	X
K02T54K	16.8	0.15	K118R	16.024	337.155	26.457	4.419	0.24651	2.69714	6	X
K02TA7S	16.5	0.15	K118R	305.764	257.312	201.667	6.384	0.07293	2.65716	5	X
K02TA9V	16.7	0.15	K118R	24.171	242.270	93.472	7.871	0.31895	2.68991	3	X
K02TE2B	16.1	0.15	K118R	7.860	310.868	94.577	11.316	0.37687	2.66356	3	W
K02TK2G	17.1	0.15	K118R	2.080	203.974	267.324	4.955	0.20414	2.55687	3	X
K02TP9E	16.0	0.15	K118R	16.045	338.434	57.587	15.187	0.25009	2.66356	5	X
K02TR6E	15.7	0.15	K118R	71.447	48.164	257.545	3.363	0.20264	2.66176	6	X
K02TR7S	16.0	0.15	K118R	47.494	79.143	261.758	5.207	0.06195	2.67319	8	X
K02Tb5N	16.2	0.15	K118R	33.506	184.604	155.278	6.554	0.08359	2.68715	9	X
K02Tb8O	16.8	0.15	K118R	356.670	125.533	279.191	4.015	0.03995	2.69030	4	X
K02U18P	15.9	0.15	K118R	51.223	280.318	55.592	9.607	0.13984	2.67629	6	X
K02U50N	17.0	0.15	K118R	91.673	74.401	225.825	14.984	0.13177	2.55200	3	X
K02U61C	17.2	0.15	K118R	80.915	227.733	76.394	14.256	0.13862	2.67482	2	W
K02U75A	16.7	0.15	K118R	2.768	331.366	55.043	5.826	0.06458	2.71787	5	X
K02V13L	16.4	0.15	K118R	330.730	353.410	49.308	14.788	0.19039	2.77632	2	S
K02V43B	16.2	0.15	K118R	32.872	261.828	58.574	14.151	0.19070	2.76451	5	X
K02V75J	16.6	0.15	K118R	313.881	26.700	59.273	20.606	0.20024	2.74548	2	S
K02VA7V	16.4	0.15	K118R	17.419	334.499	36.641	9.349	0.18063	2.72583	6	X
K02W06X	16.0	0.15	K118R	355.668	114.595	279.280	2.988	0.16464	2.73846	5	X
K02W21D	16.6	0.15	K118R	0.742	310.712	74.651	13.423	0.19651	2.73685	4	X
K02W26P	16.5	0.15	K118R	100.540	199.867	88.189	6.091	0.02692	2.74930	8	X
K02X53K	16.0	0.15	K118R	317.216	13.380	82.080	10.929	0.19631	2.73555	3	X
K02X61A	16.5	0.15	K118R	342.223	329.741	75.202	8.211	0.26253	2.76585	4	X
K02X63F	16.3	0.15	K118R	332.959	338.671	66.165	10.399	0.16059	2.80712	3	X
K02X95V	16.7	0.15	K118R	300.622	29.667	75.776	5.713	0.19294	2.75830	4	X
K02X98M	15.6	0.15	K118R	53.434	241.965	61.879	19.308	0.25801	2.77510	6	X
K02Y32M	15.8	0.15	K118R	10.068	312.331	57.615	12.963	0.13809	2.74753	5	X
K03A47V	16.2	0.15	K118R	327.994	199.395	321.071	9.364	0.11068	2.61944	7	X
K03B24E	16.3	0.15	K118R	326.708	245.846	205.066	8.351	0.28706	2.79365	5	X
K03E48X	17.2	0.15	K118R	262.676	21.257	106.641	3.511	0.08057	2.18241	4	X
K03G31F	15.5	0.15	K118R	249.081	132.694	17.925	21.459	0.05072	3.05539	5	X
K03G38M	15.9	0.15	K118R	49.063	265.778	68.612	10.481	0.07848	3.16157	5	X
K03H03A	16.2	0.15	K118R	208.868	2.529	209.848	11.836	0.28949	3.00597	3	X
K03H24Y	16.3	0.15	K118R	330.356	1.847	77.569	1.759	0.04790	3.03904	6	X
K03H51G	15.5	0.15	K118R	127.871	165.208	93.982	7.677	0.11187	3.21149	4	X
K03K03U	16.6	0.15	K118R	124.105	231.482	40.520	7.902	0.16001	2.27696	8	X
K03P00K	17.1	0.15	K118R	16.812	211.660	168.000	25.583	0.07648	1.84862	7	X
K03Q82R	16.5	0.15	K118R	10.550	295.589	115.679	3.433	0.31494	2.38598	6	X

K03S03R	18.2	0.15	K118R	16.079	169.050	181.977	5.263	0.24664	2.48444	3 X
K03S42E	18.0	0.15	K118R	48.736	121.855	185.858	21.290	0.08812	1.90417	3 X
K03S88C	18.0	0.15	K118R	9.820	302.403	68.086	1.795	0.26552	2.47371	3 X
K03SF6H	17.2	0.15	K118R	37.805	57.841	277.461	1.423	0.22419	2.46498	5 X
K03SI2S	17.0	0.15	K118R	0.437	89.089	304.590	6.221	0.11549	2.45663	4 X
K03SJ3B	17.2	0.15	K118R	356.746	102.358	258.791	5.647	0.22301	2.52505	5 X
K03SJ5G	17.9	0.15	K118R	23.221	67.697	281.567	2.712	0.26245	2.48130	5 X
K03SU4X	16.9	0.15	K118R	348.592	191.340	212.388	11.151	0.17869	2.48415	3 X
K03U47U	17.9	0.15	K118R	322.610	42.177	53.171	25.054	0.14997	1.89496	2 S
K03U73J	16.7	0.15	K118R	68.106	260.353	53.918	1.988	0.05958	2.51568	6 X
K03U77P	17.1	0.15	K118R	329.110	75.803	323.883	5.641	0.13907	2.54328	4 X
K03UE7Y	17.4	0.15	K118R	321.106	305.841	119.961	4.551	0.23007	2.54015	3 X
K03UM4D	16.8	0.15	K118R	15.500	6.386	359.028	4.410	0.16725	2.52287	6 X
K03UM4K	16.3	0.15	K118R	8.403	144.607	236.745	10.433	0.35502	3.94599	3 X
K03UM8H	16.1	0.15	K118R	311.507	321.241	119.317	4.064	0.09497	2.52116	6 X
K03UU5K	17.3	0.15	K118R	352.123	1.066	359.164	11.711	0.05493	2.56328	3 X
K03W35D	17.0	0.15	K118R	326.003	359.683	54.453	13.418	0.14077	2.56396	3 X
K03W57X	16.4	0.15	K118R	17.130	117.225	256.281	3.073	0.10774	2.51519	6 X
K03W77P	17.2	0.15	K118R	338.244	303.480	100.440	11.126	0.25402	2.55434	3 X
K03WD1F	16.1	0.15	K118R	47.130	45.343	299.571	3.792	0.12433	2.51457	6 X
K03WF1B	16.0	0.15	K118R	329.448	338.609	81.155	15.549	0.10021	2.54287	5 X
K03WF9H	16.6	0.15	K118R	331.061	288.556	119.446	15.206	0.16531	2.56689	3 S
K03WH1T	17.3	0.15	K118R	349.730	184.307	202.923	15.859	0.34639	2.52743	3 X
K03WJ2D	17.0	0.15	K118R	358.936	162.722	220.780	8.965	0.21363	2.52291	5 X
K03X00C	15.2	0.15	K118R	13.216	325.491	65.139	27.768	0.29111	2.55198	5 X
K03X03B	16.5	0.15	K118R	350.269	243.634	148.185	4.733	0.20083	2.54835	5 X
K03X15A	15.6	0.15	K118R	173.108	13.995	303.147	25.444	0.23572	2.33586	4 X
K03Y04V	16.9	0.15	K118R	335.682	314.655	106.840	7.831	0.23022	2.53183	4 X
K03Y14G	17.0	0.15	K118R	351.595	331.010	70.669	16.251	0.30329	2.54562	3 X
K03Y59Q	16.5	0.15	K118R	42.515	22.784	325.740	2.131	0.07838	2.54050	7 X
K03Y63Q	16.6	0.15	K118R	334.274	305.370	102.641	6.327	0.30563	2.57441	3 X
K03YA3V	16.8	0.15	K118R	323.773	314.854	109.371	5.467	0.26599	2.55774	4 X
K03YD5E	16.6	0.15	K118R	300.970	80.535	27.246	7.992	0.14852	2.60795	6 X
K03YF1B	16.1	0.15	K118R	236.989	168.301	2.852	12.861	0.16041	2.64910	5 X
K03YF1S	15.5	0.15	K118R	49.954	307.350	50.143	8.257	0.22558	2.53360	6 X
K03YF4E	16.1	0.15	K118R	263.394	105.292	62.053	14.032	0.22881	2.59906	5 X
K04B01N	17.3	0.15	K118R	238.184	20.840	149.308	4.551	0.08329	2.64132	5 X
K04B17E	16.8	0.15	K118R	339.596	337.041	65.160	15.360	0.27416	2.62781	4 X
K04B33Z	17.4	0.15	K118R	339.215	286.029	114.558	5.239	0.32119	2.60317	3 X
K04B42N	16.4	0.15	K118R	266.150	256.319	242.153	13.663	0.08636	2.64481	6 X
K04B44L	16.3	0.15	K118R	284.249	190.022	335.778	12.558	0.22988	2.58722	4 X
K04B67W	17.5	0.15	K118R	9.979	80.230	324.271	17.916	0.08790	1.94282	4 X
K04BC0R	16.3	0.15	K118R	301.633	69.737	38.341	10.058	0.10533	2.62780	6 X
K04BF2F	16.9	0.15	K118R	204.017	255.971	308.435	6.750	0.18719	2.68024	3 W
K04C31Q	17.2	0.15	K118R	170.681	82.464	139.076	4.706	0.01949	2.68363	6 X
K04C40N	16.3	0.15	K118R	298.466	123.439	329.461	14.690	0.16289	2.68307	5 X
K04C58J	16.9	0.15	K118R	300.633	84.211	24.446	8.322	0.15101	2.62873	3 X
K04C88X	16.5	0.15	K118R	331.983	11.046	51.979	4.999	0.19010	2.62590	5 X
K04D03D	15.5	0.15	K118R	79.535	1.178	337.140	18.806	0.25550	2.66320	4 X
K04D77B	16.8	0.15	K118R	313.840	274.299	163.979	13.047	0.24504	2.65200	5 X
K04E37H	16.0	0.15	K118R	318.191	40.112	68.219	11.232	0.39031	2.61476	3 X
K04F11H	16.7	0.15	K118R	41.135	88.075	203.682	21.385	0.44511	2.25754	5 X
K04F53U	16.9	0.15	K118R	359.838	16.278	22.697	6.277	0.02972	2.74486	6 X
K04FC0B	16.8	0.15	K118R	340.320	245.324	164.630	5.183	0.09769	2.76322	6 X
K04FE9P	16.8	0.15	K118R	231.966	330.107	199.764	12.474	0.12571	2.73998	4 X
K04G43H	16.8	0.15	K118R	275.310	105.500	32.265	3.578	0.10556	2.72029	6 X
K04H50G	15.8	0.15	K118R	290.718	78.689	64.466	13.789	0.25748	2.68430	5 X
K04L28J	18.8	0.15	K118R	38.856	144.568	178.009	5.411	0.27834	2.22635	3 W
K04L31H	18.7	0.15	K118R	22.106	188.409	143.800	3.707	0.30650	2.24939	4 X
K04N00C	17.4	0.15	K118R	57.654	203.182	106.411	6.631	0.22004	2.19502	5 X
K04N30O	15.5	0.15	K118R	97.173	257.799	47.670	17.566	0.12158	3.11429	5 X
K04P37L	17.6	0.15	K118R	27.333	107.630	238.066	3.444	0.21636	2.22856	5 X
K04P61Y	16.8	0.15	K118R	16.661	207.323	128.938	5.673	0.27166	2.29598	3 X
K04P85W	17.6	0.15	K118R	10.320	183.126	179.654	5.394	0.22332	2.24855	2 X
K04P88P	17.2	0.15	K118R	19.944	86.630	267.799	4.077	0.20245	2.25796	3 X
K04Q09B	17.0	0.15	K118R	20.476	325.047	28.800	7.901	0.15892	2.27189	5 X
K04Q10L	18.4	0.15	K118R	1.579	251.623	104.615	7.084	0.27593	2.28181	3 X
K04R49O	17.7	0.15	K118R	57.457	164.547	149.865	3.784	0.18456	2.22944	4 X
K04R82Z	17.7	0.15	K118R	94.882	278.185	11.456	3.791	0.18575	2.19317	4 X
K04RA9T	18.5	0.15	K118R	352.538	192.081	178.354	42.091	0.54343	3.65730	2 X
K04RB0T	15.6	0.15	K118R	355.726	119.514	314.874	22.130	0.30805	2.27135	4 X
K04RB2G	17.5	0.15	K118R	14.758	140.626	217.048	23.070	0.28937	2.26926	3 W
K04RN2U	17.0	0.15	K118R	32.559	148.589	182.405	6.101	0.26027	2.27206	4 X
K04RN5W	18.1	0.15	K118R	38.489	17.000	282.794	4.609	0.21034	2.29684	3 X
K04S03V	17.7	0.15	K118R	348.551	39.446	349.398	2.333	0.17326	2.27284	5 X
K04S03W	17.3	0.15	K118R	43.990	139.379	180.508	4.489	0.17567	2.25909	3 X

K04S08R	17.7	0.15	K118R	61.378	293.658	18.969	3.603	0.16048	2.23518	6	X
K04S14T	17.5	0.15	K118R	19.357	275.717	59.672	7.453	0.18574	2.28676	5	X
K04S24D	17.1	0.15	K118R	0.134	199.429	184.752	9.633	0.15137	2.27371	5	X
K04S32Z	17.1	0.15	K118R	345.428	359.480	50.731	6.141	0.14336	2.26300	5	X
K04T05H	16.6	0.15	K118R	149.915	204.692	39.793	7.061	0.07859	2.27108	2	X
K04T15W	17.3	0.15	K118R	304.623	63.395	29.973	20.570	0.27519	2.30442	4	X
K04T19S	17.3	0.15	K118R	27.096	192.122	148.673	5.702	0.16823	2.28595	5	X
K04T39P	17.6	0.15	K118R	193.814	215.196	0.498	2.851	0.10603	2.20485	8	X
K04T42G	17.9	0.15	K118R	10.265	98.814	250.265	2.722	0.26697	2.30332	2	X
K04T61F	17.7	0.15	K118R	351.727	300.896	94.738	3.972	0.17021	2.26341	4	X
K04T91X	17.3	0.15	K118R	306.523	229.192	220.769	4.274	0.10809	2.27619	4	X
K04TB0S	17.3	0.15	K118R	342.146	174.712	216.349	6.942	0.21076	2.31336	4	X
K04TC2H	17.6	0.15	K118R	4.564	349.358	33.249	7.182	0.11951	2.26242	4	X
K04TC3Q	17.4	0.15	K118R	356.220	284.115	91.196	3.708	0.24335	2.30148	5	X
K04TD1Y	16.7	0.15	K118R	22.541	164.284	178.263	5.321	0.21298	2.29858	5	X
K04TJ6P	17.6	0.15	K118R	10.009	149.540	204.171	3.410	0.19533	2.30169	4	X
K04TL3B	16.6	0.15	K118R	60.175	271.259	33.369	6.980	0.24485	2.28297	5	X
K04TS0X	17.7	0.15	K118R	27.010	308.751	57.610	2.681	0.07807	2.27969	4	X
K04U06P	17.6	0.15	K118R	32.733	79.621	276.982	4.075	0.12634	2.25073	4	X
K04U09Q	17.6	0.15	K118R	6.129	255.592	111.930	6.764	0.24043	2.29379	4	X
K04V14C	17.3	0.15	K118R	332.475	11.708	46.431	7.061	0.20423	2.31366	2	X
K04V32X	17.0	0.15	K118R	43.571	247.827	80.982	6.914	0.19076	2.29851	6	X
K04V44T	15.7	0.15	K118R	127.287	192.065	59.537	26.133	0.16776	2.32248	7	X
K04VB2E	17.5	0.15	K118R	322.337	347.281	79.543	6.094	0.21735	2.31846	2	W
K04X15C	18.0	0.15	K118R	346.800	108.303	288.425	2.052	0.24953	2.32420	3	X
K04X32V	16.5	0.15	K118R	285.620	31.156	85.705	7.817	0.13067	2.33930	4	X
K04X51Q	17.0	0.15	K118R	338.036	168.079	244.670	6.418	0.08875	2.32414	5	X
K04X62T	17.4	0.15	K118R	9.429	199.702	172.755	1.503	0.22369	2.30564	7	X
K04X81V	16.5	0.15	K118R	1.976	271.775	99.878	8.602	0.20135	2.37125	7	X
K04X85L	17.3	0.15	K118R	8.295	150.224	277.240	1.225	0.17016	2.26722	6	X
K04XA1Z	17.1	0.15	K118R	305.623	13.428	91.280	8.985	0.24033	2.34357	4	X
K04XG7F	16.9	0.15	K118R	354.661	321.896	69.149	8.944	0.18137	2.29257	3	X
K04Y18F	17.8	0.15	K118R	350.766	146.966	255.260	0.605	0.17143	2.36287	5	X
K05A67E	17.9	0.15	K118R	338.785	181.683	238.899	1.319	0.15528	2.36324	6	X
K05B36K	17.6	0.15	K118R	352.954	274.831	115.948	6.381	0.19176	2.39137	3	X
K05C23O	16.4	0.15	K118R	290.921	286.788	183.389	7.359	0.16302	2.40412	4	X
K05C31Q	16.6	0.15	K118R	69.378	181.268	122.682	6.149	0.20258	2.55636	5	X
K05C62F	17.2	0.15	K118R	119.598	169.300	92.134	5.103	0.07818	2.52777	6	X
K05C67M	16.1	0.15	K118R	132.282	272.117	324.568	14.604	0.10738	2.57188	5	X
K05C76Q	16.8	0.15	K118R	316.782	188.988	247.833	9.926	0.13381	2.41673	5	X
K05E19S	16.8	0.15	K118R	247.065	13.644	148.616	4.854	0.09580	2.47910	8	X
K05G28B	16.5	0.15	K118R	172.388	220.441	18.589	6.847	0.12675	2.56340	5	X
K05G41M	17.1	0.15	K118R	198.995	37.256	167.469	5.659	0.09701	2.44535	5	X
K05G94S	16.4	0.15	K118R	139.064	229.884	33.083	15.758	0.03196	2.58332	4	X
K05GK2L	16.5	0.15	K118R	168.261	19.184	204.653	12.148	0.12695	2.64465	7	X
K05J49P	16.2	0.15	K118R	18.739	283.695	66.185	10.077	0.18296	2.80534	6	X
K05J68K	15.9	0.15	K118R	110.002	195.703	80.793	12.773	0.13381	2.70818	5	X
K05J82C	16.9	0.15	K118R	193.896	8.571	206.431	13.455	0.17914	2.59873	4	X
K05JE1N	16.9	0.15	K118R	101.217	201.612	80.124	5.627	0.05477	2.73144	6	X
K05JG5H	15.7	0.15	K118R	309.186	22.049	68.222	22.794	0.03187	2.65068	4	X
K05K01Q	15.9	0.15	K118R	38.918	267.026	74.991	13.205	0.17754	2.78707	5	X
K05L13V	16.4	0.15	K118R	278.272	322.330	164.059	4.937	0.16262	2.59702	9	X
K05L17X	16.7	0.15	K118R	121.582	143.021	120.448	5.151	0.05872	2.73087	6	X
K05L44Z	16.0	0.15	K118R	12.810	172.477	205.662	12.828	0.14287	2.76166	8	X
K05L52J	17.7	0.15	K118R	59.446	82.132	242.653	18.769	0.08784	1.92074	5	X
K05L53J	16.5	0.15	K118R	69.211	141.793	187.265	9.861	0.10435	2.97411	3	W
K05M41W	15.2	0.15	K118R	70.363	92.789	205.112	13.455	0.20108	3.00259	5	X
K05O04B	16.4	0.15	K118R	25.422	31.770	300.216	14.519	0.29256	3.11654	3	W
K05O16J	16.9	0.15	K118R	28.015	76.462	281.790	3.330	0.19390	3.04589	6	X
K05O30Z	16.6	0.15	K118R	41.087	12.274	295.170	8.124	0.16333	3.14701	4	X
K05O31Y	15.7	0.15	K118R	42.836	175.590	164.329	8.991	0.10419	3.07925	5	X
K05P19B	16.0	0.15	K118R	3.211	209.909	166.181	9.880	0.21587	3.13776	4	X
K05Q12E	16.9	0.15	K118R	359.723	51.866	321.552	16.146	0.16000	3.13255	3	S
K05Q60S	15.6	0.15	K118R	49.672	145.872	172.791	17.063	0.22333	3.12202	3	W
K05Q61J	16.6	0.15	K118R	80.876	103.410	194.571	8.461	0.10226	3.04473	6	X
K05Q83N	15.5	0.15	K118R	12.965	176.725	184.138	13.088	0.13853	3.18811	5	X
K05Q89H	17.2	0.15	K118R	269.975	315.394	194.726	21.819	0.06175	1.94027	5	X
K05QA1G	15.9	0.15	K118R	0.871	170.196	205.762	4.488	0.13667	3.15357	6	X
K05QA5V	15.6	0.15	K118R	30.496	234.675	121.704	6.030	0.17569	3.07443	5	X
K05QB2L	16.3	0.15	K118R	89.249	111.059	185.073	7.022	0.08082	3.07544	6	X
K05QH2D	15.6	0.15	K118R	357.594	197.267	197.863	9.778	0.24362	3.18449	4	X
K05QH3S	15.9	0.15	K118R	36.858	136.282	196.336	9.622	0.22949	3.14506	4	X
K05QH6R	16.6	0.15	K118R	138.943	291.888	350.591	17.851	0.09262	1.95385	4	X
K05R00P	16.1	0.15	K118R	2.073	213.847	158.777	5.999	0.17896	3.14023	4	X
K05S06S	16.7	0.15	K118R	58.890	126.102	214.792	9.109	0.08188	3.15100	3	W
K05S14O	16.3	0.15	K118R	21.317	319.118	52.478	2.392	0.17770	3.15027	3	X

K05S250	16.7	0.15	K118R	11.321	258.881	118.799	2.130	0.19313	3.15568	2 W
K05S45D	16.3	0.15	K118R	45.425	79.457	269.780	2.181	0.10569	3.15936	6 X
K05S67D	17.1	0.15	K118R	55.623	150.792	189.585	8.932	0.08105	3.10695	4 X
K05S67N	16.2	0.15	K118R	246.479	319.566	189.682	9.076	0.01679	3.13927	6 X
K05S74Y	16.3	0.15	K118R	355.086	219.242	185.426	8.114	0.18470	3.15012	7 X
K05SE2L	17.1	0.15	K118R	5.416	327.082	65.800	4.654	0.19537	3.15365	2 W
K05SE5Q	16.0	0.15	K118R	325.695	52.366	25.447	10.441	0.07505	3.13442	3 X
K05SF6Z	15.8	0.15	K118R	295.416	80.946	30.074	9.597	0.02726	3.13951	4 X
K05SG4O	15.0	0.15	K118R	37.182	301.858	56.661	13.951	0.12421	3.19039	7 X
K05SG8U	16.7	0.15	K118R	5.370	179.188	214.627	10.479	0.12570	3.13246	3 X
K05SH5M	16.0	0.15	K118R	23.215	139.695	214.164	13.111	0.01669	3.25811	4 X
K05SK5C	15.4	0.15	K118R	32.071	319.756	40.611	10.189	0.14581	3.13487	7 X
K05SM8B	16.9	0.15	K118R	13.982	336.428	44.173	1.684	0.19485	3.15603	3 W
K05SS2E	16.9	0.15	K118R	23.527	328.791	54.679	11.529	0.05445	3.11271	3 W
K05SS7V	15.9	0.15	K118R	285.050	31.982	92.577	13.772	0.09560	3.24150	3 W
K05T32N	16.0	0.15	K118R	42.019	301.462	37.737	9.649	0.09689	3.17804	3 X
K05T60L	16.0	0.15	K118R	124.495	0.405	268.751	4.272	0.13950	3.05512	5 X
K05T83O	16.7	0.15	K118R	197.108	2.759	211.029	15.341	0.11915	3.05710	5 X
K05TB4R	16.6	0.15	K118R	322.883	244.543	199.590	15.173	0.19489	3.19172	3 W
K05TG1X	17.2	0.15	K118R	1.905	185.910	215.787	10.330	0.15232	3.18493	3 W
K05TG7L	16.1	0.15	K118R	258.125	311.166	214.662	12.256	0.13235	3.14115	4 X
K05TJ2A	16.0	0.15	K118R	159.890	21.437	219.423	15.417	0.07128	3.20984	3 X
K05TJ3L	15.5	0.15	K118R	3.141	320.671	67.226	14.681	0.21046	3.16632	4 X
K05U19F	15.7	0.15	K118R	4.678	352.479	53.498	12.201	0.09060	3.13843	5 X
K05U47C	15.4	0.15	K118R	160.967	196.774	56.590	17.679	0.08307	3.17514	4 X
K05UY8L	14.9	0.15	K118R	325.132	219.735	225.262	20.983	0.09769	3.16056	3 X
K05Ue6G	16.2	0.15	K118R	99.083	259.504	51.064	12.175	0.06357	3.12942	4 X
K05Ui0S	15.4	0.15	K118R	5.716	149.790	243.622	15.896	0.11222	3.22538	5 X
K05Ui9Y	16.9	0.15	K118R	28.097	344.334	18.583	9.420	0.13140	3.13174	3 X
K05Um1A	15.2	0.15	K118R	47.900	256.561	71.785	26.115	0.23576	3.17417	3 X
K05Uq1R	15.5	0.15	K118R	134.371	219.617	49.161	10.390	0.04474	3.08743	7 X
K05WB1O	15.8	0.15	K118R	33.509	165.051	203.720	7.146	0.04098	3.21187	4 X
K05WI2Y	15.1	0.15	K118R	287.342	88.016	63.531	33.105	0.24269	3.24710	4 X
K05X24Y	15.2	0.15	K118R	301.152	240.029	292.962	17.541	0.10891	3.22743	3 X
K05X60W	15.7	0.15	K118R	236.959	104.741	73.155	15.319	0.09838	3.39241	4 X
K05Y14Z	18.0	0.15	K118R	166.824	283.719	295.764	4.354	0.12218	2.21609	3 W
K05Y16L	14.8	0.15	K118R	11.531	179.720	294.402	26.804	0.10906	3.11265	5 X
K05Y43C	17.2	0.15	K118R	284.190	338.215	113.195	6.023	0.08483	2.18871	3 X
K05Y60A	15.3	0.15	K118R	318.716	251.876	293.608	24.768	0.20459	3.10635	4 X
K05YG3M	15.2	0.15	K118R	331.032	46.912	111.978	19.164	0.22530	3.11079	4 X
K05YM9G	17.6	0.15	K118R	166.327	92.120	130.555	5.272	0.14190	2.25601	6 X
K05YQ9A	16.1	0.15	K118R	33.297	126.328	311.958	14.649	0.21217	3.19705	3 X
K06A16J	15.0	0.15	K118R	25.335	135.585	322.836	26.712	0.10371	3.16174	7 X
K06A42E	15.4	0.15	K118R	82.558	106.915	291.959	9.037	0.07619	3.12367	5 X
K06A83T	15.5	0.15	K118R	23.631	149.369	316.098	10.202	0.03576	3.10024	7 X
K06B93B	17.2	0.15	K118R	301.169	292.083	147.710	6.935	0.07100	2.23282	7 X
K06BH8K	16.7	0.15	K118R	60.035	196.700	104.725	4.580	0.21160	2.27875	4 X
K06BI8A	18.0	0.15	K118R	160.877	200.053	27.022	4.509	0.16623	2.28910	4 X
K06C10J	17.3	0.15	K118R	251.966	8.778	140.011	4.628	0.08401	2.18394	5 X
K06D28J	18.8	0.15	K118R	260.603	347.399	150.081	3.459	0.15890	2.22118	3 W
K06D69O	16.9	0.15	K118R	41.739	169.517	142.801	5.432	0.18943	2.42441	7 X
K06DF3K	18.3	0.15	K118R	238.384	196.094	293.384	2.186	0.16939	2.30478	5 X
K06E33V	17.3	0.15	K118R	275.814	98.268	25.910	7.202	0.09212	2.21622	4 X
K06E33X	16.3	0.15	K118R	177.993	95.122	108.795	6.822	0.07464	2.30383	6 X
K06E62U	17.4	0.15	K118R	191.487	355.392	202.753	5.971	0.12204	2.29777	3 W
K06F09J	19.2	0.15	K118R	74.616	101.451	166.535	4.123	0.34506	1.74926	3 X
K06F13O	17.6	0.15	K118R	191.355	28.735	175.644	5.999	0.04897	2.30023	4 X
K06F34T	17.0	0.15	K118R	203.175	176.706	18.579	6.207	0.09522	2.31284	5 X
K06G35W	16.6	0.15	K118R	101.936	257.524	24.596	7.286	0.11571	2.35839	4 X
K06H01Z	16.9	0.15	K118R	157.605	176.939	66.246	6.979	0.08555	2.32572	7 X
K06H20Z	17.8	0.15	K118R	82.322	163.834	130.458	3.301	0.18898	2.44525	5 X
K06H69C	17.6	0.15	K118R	251.429	104.650	56.329	6.062	0.11039	2.28207	4 X
K06H73D	16.8	0.15	K118R	229.271	88.899	86.185	6.150	0.09759	2.31487	4 X
K06H73U	17.8	0.15	K118R	242.095	47.060	102.402	4.367	0.07639	2.34643	6 X
K06H84T	17.4	0.15	K118R	273.541	37.585	80.185	6.786	0.04531	2.37063	5 X
K06H89A	17.3	0.15	K118R	165.113	124.756	98.053	5.165	0.18860	2.34988	4 X
K06H96O	17.5	0.15	K118R	67.312	88.295	216.926	6.324	0.08046	2.46041	7 X
K06HA7J	17.4	0.15	K118R	230.091	6.359	159.146	5.771	0.06938	2.32854	7 X
K06HA8Q	16.7	0.15	K118R	125.568	144.992	107.195	7.377	0.10707	2.41764	5 X
K06J44R	16.6	0.15	K118R	53.732	225.609	67.862	8.422	0.33339	2.64633	5 X
K06J53G	17.0	0.15	K118R	314.535	359.409	64.996	7.828	0.09434	2.42256	4 X
K06K52V	16.9	0.15	K118R	33.265	196.881	137.296	4.263	0.19211	2.55338	5 X
K06K70N	17.6	0.15	K118R	61.115	166.164	135.387	4.090	0.20266	2.55587	4 X
K06K79U	15.9	0.15	K118R	38.481	232.872	93.423	12.526	0.20211	2.58351	4 X
K06K84J	17.1	0.15	K118R	15.343	189.450	159.269	6.360	0.27625	2.60212	5 X
K06KB5R	17.8	0.15	K118R	255.142	47.240	91.994	5.152	0.17869	2.32362	4 X



K06O09N	16.8	0.15	K118R	76.920	182.868	114.685	6.230	0.22496	2.65722	5 X
K06P22E	15.9	0.15	K118R	36.914	169.468	169.485	9.049	0.14039	2.73296	4 X
K06Q04L	17.4	0.15	K118R	347.227	30.192	10.103	6.809	0.10773	2.79197	5 X
K06Q079M	16.2	0.15	K118R	9.555	153.357	208.809	4.817	0.13019	2.76817	6 X
K06Q090K	16.6	0.15	K118R	17.513	149.005	203.808	7.318	0.32331	2.80086	3 X
K06QA0F	16.1	0.15	K118R	48.075	3.274	316.647	6.849	0.24711	2.76497	5 X
K06QA4W	16.4	0.15	K118R	54.132	68.715	246.377	12.263	0.17541	2.70433	3 X
K06QA8S	16.7	0.15	K118R	356.772	186.824	191.163	4.346	0.12351	2.81445	3 W
K06QB7B	16.6	0.15	K118R	28.733	167.092	192.228	6.289	0.13203	2.71558	7 X
K06QD1C	16.7	0.15	K118R	33.198	294.210	53.568	8.795	0.22497	2.74617	4 X
K06QE7A	16.9	0.15	K118R	16.552	9.098	18.524	3.161	0.06929	2.69078	7 X
K06QE8A	17.0	0.15	K118R	50.086	185.539	158.862	6.188	0.06215	2.71456	7 X
K06QG3X	16.4	0.15	K118R	337.098	222.510	194.292	7.689	0.22005	2.77532	4 X
K06QH0R	16.4	0.15	K118R	20.633	56.711	306.351	5.060	0.08565	2.74573	4 X
K06QI3E	16.7	0.15	K118R	85.892	311.577	346.468	10.691	0.06569	2.69520	5 X
K06QI5H	17.4	0.15	K118R	16.478	201.654	173.855	4.699	0.13517	2.75816	2 S
K06R35G	17.2	0.15	K118R	12.429	118.813	252.805	7.695	0.23152	2.80169	2 X
K06R38U	16.9	0.15	K118R	351.864	279.514	123.658	5.695	0.18595	2.77716	4 X
K06R38X	17.4	0.15	K118R	13.682	202.137	140.777	9.951	0.27257	2.86419	3 X
K06R52B	16.8	0.15	K118R	193.445	6.987	193.697	8.964	0.08429	2.82017	4 X
K06R60X	16.2	0.15	K118R	326.813	277.824	155.314	4.566	0.21716	2.79739	5 X
K06R93Q	16.7	0.15	K118R	53.344	111.295	231.393	3.945	0.08060	2.77186	4 X
K06RA3X	16.9	0.15	K118R	333.520	257.353	165.033	5.315	0.14976	2.80204	4 X
K06RC2F	16.9	0.15	K118R	257.205	326.973	182.712	1.367	0.02598	2.64994	6 X
K06S15B	16.7	0.15	K118R	21.703	51.202	322.598	3.972	0.17081	2.75498	4 X
K06S24M	16.6	0.15	K118R	334.101	177.576	250.333	7.530	0.20905	2.80638	4 X
K06S38W	16.5	0.15	K118R	346.944	201.033	217.710	3.099	0.16010	2.77054	6 X
K06S47L	16.5	0.15	K118R	336.755	146.620	278.861	2.094	0.06412	2.70568	5 X
K06S60O	16.5	0.15	K118R	328.447	325.168	108.179	7.269	0.26649	2.86540	4 X
K06S70M	16.8	0.15	K118R	323.352	43.537	36.180	5.358	0.04399	2.80134	4 X
K06S83Y	17.8	0.15	K118R	35.210	189.709	166.056	4.071	0.11344	2.77550	2 S
K06SA4T	17.4	0.15	K118R	36.740	178.155	174.508	4.754	0.08303	2.77814	4 X
K06SA9T	16.3	0.15	K118R	329.859	225.501	199.112	9.371	0.13205	2.77751	5 X
K06SD8W	16.2	0.15	K118R	64.078	275.648	33.317	9.132	0.20129	2.71360	5 X
K06SD9J	17.0	0.15	K118R	359.222	210.072	161.967	13.543	0.19927	2.91562	4 X
K06SF7G	17.5	0.15	K118R	333.099	78.802	351.835	2.852	0.04970	2.72436	7 X
K06SI6M	16.1	0.15	K118R	260.704	300.802	208.719	13.819	0.07085	2.80282	5 X
K06SI8P	17.1	0.15	K118R	32.870	201.778	161.477	4.041	0.05022	2.75000	4 X
K06SJ4K	19.0	0.15	K118R	320.425	193.894	197.232	22.115	0.05430	1.86038	3 X
K06SM0L	16.7	0.15	K118R	83.602	67.097	196.511	11.087	0.05343	2.99132	4 X
K06SO9M	16.3	0.15	K118R	324.824	245.626	199.669	8.658	0.16742	2.79298	5 X
K06SQ6Z	16.7	0.15	K118R	300.037	190.008	278.751	3.410	0.06631	2.81357	5 X
K06ST2H	16.9	0.15	K118R	16.213	84.459	306.707	4.543	0.03638	2.68241	5 X
K06ST5K	17.0	0.15	K118R	341.786	180.963	214.007	1.208	0.07579	2.86533	5 X
K06SV0W	16.3	0.15	K118R	34.272	129.305	225.275	5.341	0.06439	2.80139	6 X
K06SV9K	16.7	0.15	K118R	89.108	147.662	152.267	4.858	0.03033	2.82061	5 X
K06SX4F	16.9	0.15	K118R	308.180	301.917	155.218	4.182	0.07214	2.77702	6 X
K06SX7Q	17.6	0.15	K118R	308.821	331.115	124.913	4.676	0.05605	2.76863	4 X
K06SZ9Y	16.7	0.15	K118R	0.102	301.884	52.394	12.601	0.33676	2.99449	2 S
K06Sa0H	16.5	0.15	K118R	304.439	214.569	201.117	9.475	0.06385	3.11132	2 X
K06Sa2G	16.0	0.15	K118R	340.331	336.006	47.969	9.842	0.15877	3.04674	4 X
K06Sc2H	16.5	0.15	K118R	77.099	227.867	73.563	16.867	0.09014	2.88843	3 W
K06Se5E	16.9	0.15	K118R	262.982	280.666	229.163	8.575	0.12681	2.79546	2 W
K06Se5F	15.8	0.15	K118R	25.156	289.255	60.180	16.788	0.16016	3.04093	3 X
K06T24K	17.1	0.15	K118R	346.136	173.090	217.935	10.213	0.14202	2.93703	3 X
K06T26L	16.0	0.15	K118R	344.539	337.760	33.348	8.641	0.09245	3.07259	3 S
K06T28M	16.0	0.15	K118R	7.237	116.651	210.111	13.586	0.19723	3.11477	4 X
K06T44L	16.5	0.15	K118R	279.590	238.124	226.141	7.800	0.07419	3.03978	3 X
K06T74J	16.3	0.15	K118R	339.991	351.964	58.479	14.287	0.12939	2.89221	6 X
K06T96T	16.3	0.15	K118R	23.771	194.862	239.021	12.064	0.25929	2.64626	3 X
K06TB3B	16.4	0.15	K118R	11.927	243.102	117.457	11.219	0.13716	2.94702	5 X
K06TC6A	15.8	0.15	K118R	50.020	252.929	62.542	12.868	0.03188	3.08931	3 X
K06U17V	18.3	0.15	K118R	22.608	282.365	37.689	25.317	0.16114	1.87317	3 S
K06U17X	17.9	0.15	K118R	5.560	309.944	42.958	22.887	0.09643	1.85386	3 X
K06U27W	17.3	0.15	K118R	346.712	1.627	28.326	11.190	0.11373	2.94962	3 X
K06U49G	16.7	0.15	K118R	16.140	118.326	270.668	4.708	0.05041	2.69275	5 X
K06U68X	16.3	0.15	K118R	342.794	313.352	96.673	4.459	0.17952	2.91007	6 X
K06U69M	16.0	0.15	K118R	11.214	277.469	79.972	10.672	0.13616	2.98166	4 X
K06UB8J	16.7	0.15	K118R	3.357	175.703	178.353	1.966	0.11028	3.01235	5 X
K06UF7V	18.0	0.15	K118R	342.598	196.433	190.275	5.169	0.15123	2.96873	2 W
K06UH6F	16.1	0.15	K118R	241.014	119.557	46.963	13.866	0.03313	2.74512	5 X
K06UH9M	16.1	0.15	K118R	355.136	321.517	72.937	8.738	0.09933	2.90566	5 X
K06UL7Y	15.4	0.15	K118R	333.224	186.569	218.247	14.659	0.27373	3.03988	3 X
K06UL9J	16.2	0.15	K118R	335.443	353.755	61.293	10.272	0.12610	2.85519	4 X
K06UO1D	16.5	0.15	K118R	306.480	215.526	220.697	12.621	0.13660	3.10040	3 X
K06US7R	16.5	0.15	K118R	236.939	330.013	179.076	0.857	0.06166	2.99383	6 X

K06UX5S	15.9	0.15	K118R	344.284	52.383	356.630	11.622	0.06137	2.91202	5	X
K06V46E	17.5	0.15	K118R	318.902	159.734	280.671	2.541	0.13702	2.95613	2	W
K06V61A	16.3	0.15	K118R	319.224	191.757	246.562	9.346	0.16516	3.00315	3	X
K06V63P	16.6	0.15	K118R	22.897	128.320	244.742	9.067	0.11397	2.94717	4	X
K06V67E	16.2	0.15	K118R	36.840	116.636	244.203	10.869	0.07799	2.95174	4	X
K06V72U	15.7	0.15	K118R	141.163	180.006	63.427	11.721	0.11585	3.08005	7	X
K06V73Q	16.4	0.15	K118R	282.170	258.201	212.665	0.323	0.14000	3.10273	6	X
K06V87W	17.1	0.15	K118R	46.730	95.195	243.288	13.600	0.17197	2.88137	3	X
K06VA0D	16.2	0.15	K118R	352.556	313.164	58.503	13.389	0.17156	3.07451	2	S
K06VB0T	16.1	0.15	K118R	327.011	23.133	46.517	12.823	0.13190	3.01334	2	W
K06VC0U	17.5	0.15	K118R	312.477	204.291	240.128	8.953	0.07771	2.98051	3	W
K06VD8W	16.1	0.15	K118R	62.197	239.103	69.441	11.092	0.18130	3.02526	5	X
K06VH0D	18.1	0.15	K118R	357.479	286.231	73.811	9.416	0.54824	2.95482	2	X
K06VH3R	16.1	0.15	K118R	346.364	334.620	58.895	10.443	0.07369	3.03933	3	X
K06W07A	17.6	0.15	K118R	330.764	6.788	77.299	10.759	0.21818	2.91057	3	X
K06W12Z	16.2	0.15	K118R	355.698	297.675	83.446	12.088	0.12918	3.08219	5	X
K06W18G	17.0	0.15	K118R	192.532	234.044	345.746	3.119	0.03227	2.80931	5	X
K06W49W	15.9	0.15	K118R	330.635	181.805	254.539	9.935	0.05702	2.97421	6	X
K06W79A	16.0	0.15	K118R	89.835	43.789	262.275	9.099	0.16647	2.89182	4	X
K06W79C	17.0	0.15	K118R	343.441	122.756	273.937	4.964	0.19247	3.03532	2	X
K06W83G	15.6	0.15	K118R	313.950	36.464	48.682	10.667	0.07726	2.97057	2	W
K06W85G	16.2	0.15	K118R	338.026	258.810	160.298	2.152	0.08987	3.02272	4	X
K06WA3Y	16.2	0.15	K118R	14.963	129.261	247.900	8.756	0.11648	2.98910	3	X
K06WH2M	15.6	0.15	K118R	225.284	288.244	250.389	8.791	0.02658	3.01600	5	X
K06WH7J	16.2	0.15	K118R	329.069	306.368	108.830	8.969	0.18397	3.03327	4	X
K06WK3L	16.3	0.15	K118R	5.212	296.822	87.382	8.752	0.24636	3.13509	6	X
K06X05H	15.3	0.15	K118R	332.462	334.028	85.469	8.609	0.09847	3.17532	8	X
K06X20M	16.6	0.15	K118R	271.115	228.929	276.621	8.523	0.17530	3.15965	3	W
K06X24V	15.9	0.15	K118R	315.792	177.417	260.605	16.145	0.22068	3.07639	3	X
K06X33D	16.2	0.15	K118R	340.328	227.437	276.721	8.940	0.06009	2.62995	5	X
K06X34U	15.4	0.15	K118R	200.123	122.447	79.236	13.275	0.00620	3.11299	6	X
K06Y04V	16.2	0.15	K118R	315.992	193.410	232.526	10.917	0.07974	3.04546	2	W
K06Y06R	16.1	0.15	K118R	300.209	25.284	77.001	9.291	0.08890	3.07341	8	X
K06Y17Z	15.8	0.15	K118R	349.666	325.367	67.187	10.676	0.09502	3.10877	5	X
K06Y37N	16.8	0.15	K118R	353.981	300.017	98.444	10.367	0.31304	3.09854	2	S
K06Y51W	17.5	0.15	K118R	357.827	358.618	41.555	1.920	0.28325	3.07535	4	X
K06Y55S	16.6	0.15	K118R	310.783	82.332	35.006	7.769	0.28508	3.08732	3	X
K07A19B	15.9	0.15	K118R	319.558	8.382	78.201	11.792	0.19809	3.13541	5	X
K07B58Z	15.9	0.15	K118R	350.018	303.775	108.159	17.316	0.10136	3.17683	3	W
K07B59D	15.8	0.15	K118R	296.657	148.868	321.315	8.249	0.08387	3.24266	3	W
K07D14W	16.7	0.15	K118R	319.385	62.296	33.580	5.039	0.16328	3.23125	6	X
K07D60V	17.9	0.15	K118R	282.418	255.757	216.909	19.838	0.07504	1.93615	7	X
K07DA2R	17.3	0.15	K118R	357.629	52.579	6.687	19.834	0.10775	1.88335	3	X
K07E85T	15.6	0.15	K118R	296.805	43.142	152.962	10.210	0.04689	3.06115	6	X
K07EA0M	15.5	0.15	K118R	359.535	106.096	340.814	20.804	0.12012	3.13023	4	X
K07EJ8W	17.5	0.15	K118R	253.312	121.496	45.348	22.067	0.07635	1.90944	4	X
K07L24P	17.6	0.15	K118R	40.493	220.145	100.393	3.419	0.19879	2.24352	4	X
K07M03O	17.4	0.15	K118R	97.311	167.812	117.074	5.956	0.09769	2.21426	4	X
K07N07N	16.9	0.15	K118R	29.494	259.936	63.811	11.939	0.26164	2.40010	4	X
K07O02B	17.2	0.15	K118R	16.848	191.412	147.547	3.707	0.39002	2.45600	2	X
K07O05Q	17.4	0.15	K118R	34.749	230.650	104.766	7.623	0.26765	2.35927	3	W
K07O06F	17.3	0.15	K118R	17.668	255.298	86.744	4.698	0.15423	2.41080	3	X
K07P10W	17.4	0.15	K118R	11.313	186.791	154.961	10.290	0.28139	2.46175	2	X
K07P17G	17.4	0.15	K118R	15.627	87.583	279.369	4.020	0.23092	2.35190	3	X
K07P26P	17.1	0.15	K118R	39.432	25.304	292.901	4.142	0.24592	2.38496	3	X
K07P39S	17.6	0.15	K118R	65.639	147.284	159.061	5.588	0.18349	2.29353	4	X
K07Q00B	17.7	0.15	K118R	12.941	179.721	173.065	7.702	0.25624	2.43491	2	S
K07Q04K	17.6	0.15	K118R	6.035	200.381	160.659	6.196	0.22341	2.42909	3	X
K07Q06P	17.6	0.15	K118R	21.803	112.876	244.802	0.434	0.20277	2.36173	4	X
K07Q17L	18.0	0.15	K118R	7.452	101.068	273.380	1.448	0.17381	2.38276	3	X
K07R18E	17.5	0.15	K118R	51.000	241.931	80.268	7.770	0.12975	2.36014	3	X
K07R18S	18.4	0.15	K118R	1.185	170.516	191.512	1.979	0.21078	2.45789	2	W
K07R21A	17.8	0.15	K118R	31.659	206.916	142.523	1.785	0.19758	2.35122	2	W
K07R32G	17.2	0.15	K118R	12.988	265.738	88.781	5.299	0.22878	2.42721	6	X
K07R51Q	17.6	0.15	K118R	4.995	117.603	259.526	3.911	0.21678	2.43000	3	W
K07R83E	17.6	0.15	K118R	339.940	49.194	6.804	3.010	0.16491	2.37193	5	X
K07R98W	16.6	0.15	K118R	311.329	354.739	89.748	4.709	0.14631	2.45723	5	X
K07RA9M	17.4	0.15	K118R	19.426	26.818	341.004	2.164	0.19513	2.39197	5	X
K07RB8C	18.2	0.15	K118R	22.710	161.326	190.220	4.744	0.23545	2.42051	2	S
K07RC9X	17.7	0.15	K118R	13.721	240.725	128.193	1.158	0.21145	2.42384	5	X
K07RD1O	17.0	0.15	K118R	32.634	117.459	230.699	2.233	0.19507	2.39031	6	X
K07RG8H	17.9	0.15	K118R	357.092	348.876	34.077	2.764	0.20019	2.42381	2	X
K07RI9V	17.2	0.15	K118R	23.086	334.255	12.717	6.767	0.13727	2.44398	3	X
K07RK9C	17.9	0.15	K118R	358.069	337.580	39.428	3.142	0.20532	2.45834	2	W
K07RL1O	17.7	0.15	K118R	54.402	17.394	303.756	1.505	0.21690	2.36879	2	W
K07RL3K	18.0	0.15	K118R	25.508	170.186	183.104	1.088	0.20190	2.38091	3	X

K07RL6L	18.6	0.15	K118R	358.088	139.820	230.883	2.686	0.29250	2.47214	2	W
K07RM7B	17.1	0.15	K118R	92.070	125.871	152.602	4.877	0.19465	2.36226	5	X
K07RN5Y	17.2	0.15	K118R	305.976	61.613	36.539	7.687	0.10320	2.47613	5	X
K07RS7X	18.3	0.15	K118R	357.004	225.899	156.525	3.611	0.21422	2.46558	4	X
K07RT5V	17.8	0.15	K118R	49.723	289.270	33.058	6.411	0.15044	2.41902	3	X
K07RU2E	17.6	0.15	K118R	114.029	233.513	38.196	7.309	0.07388	2.43378	4	X
K07RV0B	17.2	0.15	K118R	42.428	44.819	269.902	4.475	0.19940	2.38885	3	X
K07RV0D	17.2	0.15	K118R	10.979	272.592	93.939	6.610	0.23286	2.39686	4	X
K07RW2J	17.7	0.15	K118R	349.627	22.467	6.576	4.383	0.16620	2.41532	4	X
K07S00A	17.3	0.15	K118R	336.196	220.993	186.293	11.851	0.25179	2.44633	3	X
K07S04D	15.7	0.15	K118R	358.781	158.365	222.890	17.160	0.21604	2.57089	3	X
K07S06E	17.7	0.15	K118R	5.818	123.657	254.843	1.420	0.21230	2.43388	2	W
K07S16D	18.0	0.15	K118R	20.103	196.415	156.518	2.435	0.19805	2.39767	2	W
K07T04F	16.9	0.15	K118R	356.249	214.376	152.007	6.149	0.31936	2.56425	4	X
K07T05T	17.4	0.15	K118R	46.813	324.503	3.666	3.659	0.25960	2.39555	4	X
K07T10E	17.5	0.15	K118R	49.479	140.068	181.925	2.041	0.22659	2.41312	2	S
K07T16T	17.4	0.15	K118R	344.816	245.265	150.725	6.252	0.15892	2.45788	7	X
K07T18H	17.4	0.15	K118R	346.379	9.511	40.786	2.774	0.19692	2.43036	3	X
K07T46Q	17.2	0.15	K118R	8.645	32.522	11.611	11.247	0.15477	2.29972	4	X
K07T99R	17.3	0.15	K118R	333.597	263.985	151.478	2.882	0.18535	2.45750	6	X
K07TG1G	17.1	0.15	K118R	6.541	192.194	190.800	6.688	0.11340	2.39923	7	X
K07TG1M	18.9	0.15	K118R	0.481	334.029	37.736	1.737	0.29240	2.43758	3	X
K07TG1Y	17.5	0.15	K118R	346.876	175.272	234.521	1.586	0.17170	2.43508	5	X
K07TG4D	17.2	0.15	K118R	358.794	19.240	21.296	3.898	0.11046	2.39861	4	X
K07TG8R	17.7	0.15	K118R	12.187	29.595	339.814	2.085	0.21310	2.45496	5	X
K07TH0Q	16.5	0.15	K118R	332.889	170.736	249.120	12.899	0.24003	2.57232	2	W
K07TK3S	17.0	0.15	K118R	167.407	19.228	212.737	10.028	0.14435	2.47652	7	X
K07TL4N	16.6	0.15	K118R	27.671	70.358	228.732	11.834	0.26457	2.66539	2	S
K07TP6N	17.7	0.15	K118R	30.644	283.138	64.631	3.326	0.22189	2.44959	2	S
K07TR8H	18.6	0.15	K118R	22.800	23.699	334.871	2.020	0.21018	2.42977	2	W
K07TS0C	17.5	0.15	K118R	2.858	16.198	3.196	2.236	0.21525	2.37486	6	X
K07TU4W	17.9	0.15	K118R	337.556	231.748	168.065	9.146	0.28420	2.43242	3	X
K07TV9L	17.1	0.15	K118R	347.752	180.409	207.988	8.572	0.16726	2.56876	4	X
K07TZ3W	16.6	0.15	K118R	330.921	245.825	162.708	6.781	0.10189	2.57345	4	X
K07Tf4G	16.1	0.15	K118R	4.346	307.802	55.226	14.225	0.20428	2.58983	4	X
K07Tg6J	16.6	0.15	K118R	343.416	164.978	255.885	14.029	0.09691	2.43954	5	X
K07Ti1E	16.7	0.15	K118R	333.493	273.153	142.404	10.742	0.14773	2.53388	4	X
K07Ti1L	16.2	0.15	K118R	70.568	249.449	58.346	14.448	0.06629	2.52480	4	X
K07Ti4N	17.9	0.15	K118R	341.634	260.973	134.821	4.878	0.26081	2.54470	3	X
K07U33W	17.1	0.15	K118R	303.016	201.860	236.142	12.740	0.22536	2.60805	2	W
K07U46M	17.1	0.15	K118R	339.876	318.114	90.445	4.508	0.17346	2.53790	3	X
K07U52T	16.0	0.15	K118R	3.994	259.247	125.423	4.206	0.13109	2.55912	5	X
K07U57B	16.7	0.15	K118R	153.466	201.645	47.089	7.154	0.10568	2.46583	3	W
K07U57C	18.5	0.15	K118R	0.472	117.155	239.605	2.939	0.32675	2.56667	2	X
K07U83Q	16.9	0.15	K118R	91.477	38.475	227.166	10.480	0.04138	2.69503	5	X
K07U94B	16.5	0.15	K118R	111.361	221.383	35.233	6.948	0.10115	2.58179	3	X
K07UA0J	17.5	0.15	K118R	313.216	38.723	53.625	16.870	0.16186	2.54002	2	W
K07UA5S	16.4	0.15	K118R	32.148	266.128	73.728	13.274	0.21030	2.56758	4	X
K07UB6D	15.9	0.15	K118R	94.163	218.784	60.316	22.637	0.01581	2.64146	5	X
K07UC0U	17.1	0.15	K118R	111.973	29.312	201.493	5.416	0.10783	2.67254	4	X
K07UD1U	17.9	0.15	K118R	28.409	238.535	77.682	12.088	0.30073	2.60668	3	X
K07UD7D	17.2	0.15	K118R	311.035	192.886	259.122	4.804	0.07624	2.47967	5	X
K07UD7X	16.9	0.15	K118R	327.927	24.772	29.138	14.130	0.16073	2.58021	2	X
K07V05X	16.8	0.15	K118R	339.728	255.825	147.917	4.866	0.26124	2.55628	3	X
K07V05Z	16.8	0.15	K118R	351.365	298.877	78.031	4.901	0.26296	2.59044	2	X
K07V37B	17.0	0.15	K118R	309.693	282.986	154.372	13.285	0.12735	2.54211	4	X
K07V60K	16.3	0.15	K118R	294.365	112.288	2.790	3.252	0.16884	2.55595	3	X
K07V60P	16.9	0.15	K118R	26.336	83.967	266.995	4.278	0.17030	2.55523	4	X
K07V65K	16.7	0.15	K118R	30.233	314.685	33.358	0.806	0.21438	2.56394	3	X
K07V72J	18.2	0.15	K118R	7.112	128.567	232.603	3.761	0.30091	2.55766	2	W
K07V78H	17.6	0.15	K118R	124.884	113.252	154.530	1.653	0.16919	2.45697	4	X
K07V91K	15.9	0.15	K118R	271.146	215.336	252.879	20.782	0.06177	2.65319	3	W
K07VA0N	16.4	0.15	K118R	329.638	0.750	53.427	14.338	0.07938	2.62711	2	W
K07VB7B	16.7	0.15	K118R	349.977	30.029	16.456	3.230	0.07072	2.57107	5	X
K07VB8P	17.2	0.15	K118R	325.319	297.284	124.979	2.974	0.04760	2.52665	6	X
K07VD5U	16.6	0.15	K118R	302.381	292.144	156.615	6.634	0.16293	2.63069	6	X
K07VE3P	17.2	0.15	K118R	23.486	262.660	86.999	4.280	0.13042	2.58799	2	W
K07VE5P	16.8	0.15	K118R	354.453	124.698	260.034	10.887	0.19795	2.58394	2	W
K07VG8V	17.3	0.15	K118R	313.940	29.784	63.250	3.894	0.22116	2.57988	5	X
K07VG9V	17.2	0.15	K118R	0.788	300.697	77.922	5.542	0.29919	2.55574	4	X
K07VH7S	16.6	0.15	K118R	303.079	15.968	73.534	15.903	0.07971	2.57514	5	X
K07VI5M	16.6	0.15	K118R	10.061	315.585	47.696	12.605	0.10094	2.59567	2	W
K07VJ7E	16.6	0.15	K118R	308.262	22.028	82.826	14.826	0.20292	2.66089	4	X
K07VK2A	17.0	0.15	K118R	294.785	289.771	165.128	13.744	0.13650	2.56211	5	X
K07VL4S	16.9	0.15	K118R	2.738	225.177	159.213	4.526	0.02951	2.56511	6	X
K07VM7M	16.4	0.15	K118R	319.058	305.179	141.867	3.984	0.18064	2.54765	6	X

K07VN9O	18.7	0.15	K118R	359.551	151.372	233.129	6.710	0.30081	2.52093	3 X
K07VN9T	16.6	0.15	K118R	8.609	287.142	80.826	5.509	0.13857	2.60420	4 X
K07VP3L	17.5	0.15	K118R	355.474	213.653	165.961	5.981	0.28745	2.52687	3 X
K07VQ9Z	16.5	0.15	K118R	301.615	333.424	113.846	5.437	0.13679	2.61190	3 W
K07VR0J	17.0	0.15	K118R	346.716	334.949	50.456	8.604	0.16998	2.63184	3 X
K07VT2Z	17.2	0.15	K118R	331.667	245.956	160.580	9.786	0.20639	2.57867	3 X
K07VT3K	16.4	0.15	K118R	218.764	299.410	197.209	14.001	0.03022	2.77070	3 X
K07VT4U	16.4	0.15	K118R	326.904	151.462	319.883	13.144	0.20141	2.64855	5 X
K07VU5V	17.1	0.15	K118R	324.184	328.210	100.416	3.229	0.06441	2.72859	3 X
K07VU6Z	16.1	0.15	K118R	44.995	257.156	81.902	7.913	0.06378	2.77398	7 X
K07VU7A	17.1	0.15	K118R	336.681	357.863	69.580	3.232	0.08488	2.63916	7 X
K07VV2G	16.6	0.15	K118R	335.840	318.904	93.643	7.480	0.09258	2.84602	5 X
K07VW4Z	17.1	0.15	K118R	338.770	278.009	122.661	5.033	0.22646	2.59513	4 X
K07VX2Q	16.4	0.15	K118R	47.282	88.012	293.581	11.485	0.20509	2.33060	4 X
K07VX3E	16.5	0.15	K118R	21.122	107.613	249.255	7.870	0.21072	2.58040	3 X
K07W08U	16.0	0.15	K118R	353.289	316.366	75.421	14.588	0.24755	2.62514	4 X
K07W11M	17.2	0.15	K118R	337.034	286.455	132.602	4.587	0.23486	2.54048	2 S
K07W20K	15.8	0.15	K118R	343.420	340.396	70.588	14.399	0.24043	2.66576	5 X
K07W21K	17.8	0.15	K118R	11.797	104.573	280.622	6.000	0.11520	2.46469	5 X
K07W24T	17.5	0.15	K118R	307.300	12.719	85.193	5.604	0.22197	2.54268	3 X
K07W27B	16.2	0.15	K118R	40.368	290.583	44.853	6.624	0.14593	2.60899	3 X
K07W55P	15.9	0.15	K118R	1.553	313.926	54.271	13.746	0.16866	2.64673	8 X
K07W61P	17.2	0.15	K118R	346.424	23.816	24.985	4.222	0.11125	2.55776	3 X
K07W62G	16.4	0.15	K118R	331.730	357.768	54.611	22.162	0.03000	2.62528	4 X
K07X01R	16.1	0.15	K118R	352.380	170.534	232.595	1.736	0.16202	2.54349	4 X
K07X15K	15.8	0.15	K118R	310.602	18.513	61.774	13.836	0.11605	2.70039	4 X
K07X16Z	17.3	0.15	K118R	305.397	34.463	71.838	6.961	0.27253	2.59258	3 X
K07X17H	16.6	0.15	K118R	347.384	316.665	78.172	9.159	0.27827	2.63028	3 X
K07X18P	16.4	0.15	K118R	168.089	167.482	71.467	5.365	0.07448	2.57854	7 X
K07X21B	15.8	0.15	K118R	346.112	318.239	67.082	12.532	0.19576	2.69323	5 X
K07X23Q	17.6	0.15	K118R	331.332	13.323	59.890	3.971	0.15590	2.55431	3 W
K07X28W	17.2	0.15	K118R	324.880	10.458	71.950	4.407	0.12593	2.55987	3 X
K07X41O	16.8	0.15	K118R	267.401	67.232	69.954	14.125	0.11722	2.62528	4 X
K07X46A	16.6	0.15	K118R	345.424	359.221	101.408	12.395	0.19918	2.39562	4 X
K07X50Z	16.6	0.15	K118R	301.546	48.095	71.445	15.052	0.20687	2.69270	3 X
K07X51J	18.1	0.15	K118R	7.414	298.097	83.515	10.282	0.14985	2.58067	2 X
K07X56C	16.8	0.15	K118R	320.484	18.137	56.545	14.810	0.22794	2.66748	2 S
K07X57A	17.0	0.15	K118R	354.883	289.062	98.690	8.692	0.17878	2.58236	2 S
K07X58J	17.5	0.15	K118R	317.897	184.118	261.149	4.229	0.09732	2.69870	4 X
K07Y03B	16.7	0.15	K118R	353.824	303.884	91.492	5.519	0.08073	2.78816	5 X
K07Y12W	16.9	0.15	K118R	37.533	304.545	58.999	7.252	0.05684	2.69310	5 X
K07Y29R	16.3	0.15	K118R	265.529	272.555	246.525	14.602	0.19104	2.78302	4 X
K07Y50U	16.8	0.15	K118R	222.606	64.135	108.163	4.862	0.03170	2.79637	5 X
K07Y55A	16.3	0.15	K118R	339.638	327.639	83.904	5.427	0.11850	2.75954	6 X
K07Y56F	16.2	0.15	K118R	282.042	202.881	281.964	18.359	0.28106	2.74298	3 X
K07Y62E	16.5	0.15	K118R	144.692	145.091	99.065	5.527	0.01547	2.79665	5 X
K07Y64W	16.4	0.15	K118R	175.968	263.179	303.314	8.853	0.22048	3.20930	3 W
K08A05D	16.2	0.15	K118R	304.744	155.276	310.816	14.330	0.27578	2.64454	3 W
K08A11X	17.5	0.15	K118R	336.411	269.288	148.571	4.345	0.08980	2.76913	6 X
K08A30S	17.9	0.15	K118R	302.807	117.177	353.643	5.852	0.22334	2.67654	3 X
K08A46O	17.7	0.15	K118R	19.921	121.448	239.658	0.887	0.10987	2.63814	4 W
K08A57C	17.0	0.15	K118R	190.515	82.862	132.606	5.659	0.09033	2.81706	4 X
K08A58V	16.7	0.15	K118R	211.081	44.237	138.904	3.994	0.04263	2.87454	8 X
K08A67C	17.1	0.15	K118R	298.060	150.587	333.453	3.345	0.19807	2.69676	3 X
K08A81V	16.5	0.15	K118R	298.571	292.948	166.614	4.724	0.07667	2.77615	8 X
K08A85X	16.1	0.15	K118R	173.973	106.960	114.672	6.540	0.08818	2.94743	3 X
K08A92C	17.1	0.15	K118R	335.654	56.374	8.054	3.077	0.24806	2.64013	3 X
K08A94K	17.5	0.15	K118R	338.338	66.791	335.630	1.628	0.18562	2.79658	3 X
K08AA7M	16.6	0.15	K118R	19.122	98.475	271.444	3.624	0.09447	2.77721	6 X
K08AB6F	17.2	0.15	K118R	343.705	272.691	146.064	7.999	0.11297	2.74615	2 W
K08AD7E	16.4	0.15	K118R	338.951	161.264	258.634	6.940	0.17710	2.68376	5 X
K08B05V	16.7	0.15	K118R	309.028	128.541	315.117	5.013	0.01969	2.88068	5 X
K08B11B	16.9	0.15	K118R	311.740	155.077	291.009	8.731	0.08410	2.72160	5 X
K08B13A	16.1	0.15	K118R	289.903	214.475	332.039	25.737	0.29993	2.57794	4 X
K08B13P	16.8	0.15	K118R	329.302	329.544	94.301	5.891	0.05358	2.76913	6 X
K08C16H	15.2	0.15	K118R	103.755	252.196	54.631	12.853	0.03136	2.95421	3 X
K08C18A	15.9	0.15	K118R	305.099	96.766	335.386	10.320	0.13325	3.11310	4 X
K08C20H	17.1	0.15	K118R	294.426	356.492	133.511	9.142	0.25094	2.74821	3 X
K08C33L	16.1	0.15	K118R	351.707	170.697	262.967	11.637	0.24826	2.55189	3 W
K08C55Q	17.1	0.15	K118R	295.521	341.279	132.826	10.252	0.23854	2.80057	2 W
K08C78D	17.7	0.15	K118R	311.355	335.377	96.462	9.065	0.19407	2.75449	2 W
K08CA1D	16.8	0.15	K118R	342.522	8.425	54.323	4.707	0.09501	2.69758	3 X
K08CD7R	16.2	0.15	K118R	227.483	40.631	130.398	4.765	0.09139	3.04863	6 X
K08CE1F	16.6	0.15	K118R	273.139	347.727	170.602	9.052	0.19798	2.78234	4 X
K08CH6Z	16.1	0.15	K118R	254.794	256.520	269.002	7.921	0.15029	2.79681	3 X
K08CI4X	16.9	0.15	K118R	331.458	353.046	74.289	10.210	0.30005	2.67116	3 X

K08D00T	17.3	0.15	K118R	340.022	280.682	147.873	10.806	0.11041	2.77938	3	W
K08D04P	16.2	0.15	K118R	234.558	131.306	20.450	9.397	0.09122	3.09696	4	X
K08D04W	16.9	0.15	K118R	333.432	311.434	121.297	5.215	0.18454	2.78602	3	X
K08D45V	15.5	0.15	K118R	223.761	152.760	18.183	13.142	0.05246	3.26240	3	X
K08D84B	15.7	0.15	K118R	334.060	264.245	161.071	9.312	0.13613	3.06939	7	X
K08E41U	16.2	0.15	K118R	294.927	87.221	12.655	23.539	0.16362	3.13715	2	W
K08E67W	16.0	0.15	K118R	350.702	120.834	299.499	4.102	0.05206	2.98052	4	X
K08E86E	15.8	0.15	K118R	285.957	359.664	118.424	6.752	0.02179	3.11561	5	X
K08ED6H	16.0	0.15	K118R	278.070	79.589	33.886	9.111	0.11916	3.21890	3	X
K08EF3K	15.3	0.15	K118R	232.885	73.105	100.819	8.411	0.03841	3.17435	6	X
K08F35D	16.7	0.15	K118R	258.745	137.969	0.318	12.186	0.15053	3.07155	2	W
K08F47M	16.7	0.15	K118R	336.306	224.128	189.662	26.621	0.18924	3.19794	3	X
K08G07A	16.2	0.15	K118R	203.312	180.707	39.950	11.961	0.13572	3.19284	6	X
K08G25X	16.4	0.15	K118R	284.018	92.611	44.075	9.413	0.08234	3.02409	5	X
K08G60V	16.6	0.15	K118R	340.674	322.192	178.545	12.186	0.13834	2.59920	6	X
K08GB5O	17.4	0.15	K118R	315.536	256.948	224.459	5.917	0.46838	2.62091	3	X
K08H07B	16.0	0.15	K118R	271.563	127.138	8.263	11.375	0.06229	3.08365	4	X
K08L12K	18.2	0.15	K118R	55.320	88.831	198.106	21.367	0.06670	1.89834	5	X
K08L15X	15.4	0.15	K118R	270.890	76.047	69.617	16.539	0.10061	3.22015	5	X
K08SN1P	17.6	0.15	K118R	280.274	70.314	343.777	7.394	0.09569	2.20177	3	W
K08SR7J	13.3	0.15	K118R	60.075	17.220	17.725	24.169	0.03712	5.29845	5	X
K08T26H	17.0	0.15	K118R	346.397	185.387	211.003	21.523	0.07370	1.98144	2	X
K08UC2J	18.1	0.15	K118R	298.546	109.246	315.431	4.656	0.04485	2.18646	6	X
K08U00X	18.1	0.15	K118R	355.553	75.201	267.300	5.840	0.17806	2.21766	3	X
K08UV5D	17.7	0.15	K118R	39.700	64.113	237.549	6.477	0.17112	2.24549	3	X
K08UZ3U	17.8	0.15	K118R	223.371	72.813	72.442	5.302	0.09832	2.25820	2	W
K08Ub0V	17.2	0.15	K118R	233.939	288.377	247.750	5.749	0.14477	2.33755	4	X
K08V68G	17.2	0.15	K118R	134.749	143.707	109.223	6.240	0.13493	2.30363	4	X
K08Y00M	17.9	0.15	K118R	252.152	210.451	280.774	6.098	0.11841	2.29798	2	W
K08Y03B	9.5	0.15	K118R	4.424	330.517	112.490	105.028	0.44350	11.65567	3	X
K08Y20C	17.2	0.15	K118R	117.369	161.481	110.630	6.078	0.07131	2.33588	5	X
K08YF9W	17.1	0.15	K118R	324.923	323.658	100.811	5.558	0.13034	2.33123	4	X
K09A37J	18.2	0.15	K118R	215.813	49.673	127.752	5.248	0.05987	2.30084	4	X
K09A42H	16.9	0.15	K118R	153.699	135.716	97.091	5.373	0.09811	2.45601	7	X
K09A46V	17.4	0.15	K118R	88.604	185.612	104.576	4.843	0.07285	2.37660	4	X
K09A50N	17.2	0.15	K118R	5.646	275.814	103.328	8.020	0.11669	2.21390	5	X
K09B13J	16.9	0.15	K118R	237.172	0.194	140.134	10.210	0.15778	2.43969	2	W
K09B37N	16.6	0.15	K118R	340.670	15.345	323.064	11.216	0.05575	2.91233	3	X
K09B39T	17.4	0.15	K118R	352.821	285.683	91.108	3.249	0.20365	2.37884	3	X
K09B72D	17.1	0.15	K118R	230.796	271.495	239.099	3.777	0.13816	2.42870	3	X
K09B77N	17.1	0.15	K118R	267.620	75.056	62.906	5.337	0.07233	2.26411	4	X
K09B78L	17.6	0.15	K118R	0.207	115.773	267.261	4.865	0.13747	2.29596	4	X
K09B81Q	17.2	0.15	K118R	294.677	322.694	145.869	4.603	0.12734	2.25134	4	X
K09B87P	17.7	0.15	K118R	317.863	312.299	118.963	3.871	0.04653	2.34254	6	X
K09B90L	17.1	0.15	K118R	346.373	272.138	134.119	6.753	0.08926	2.28528	6	X
K09B91Y	17.4	0.15	K118R	330.021	285.045	129.309	6.022	0.14799	2.30582	5	X
K09BB1G	17.1	0.15	K118R	221.778	82.715	106.142	5.766	0.16096	2.37577	5	X
K09BC8S	16.3	0.15	K118R	133.824	245.484	352.953	12.940	0.16131	2.71402	3	W
K09BE6T	17.4	0.15	K118R	280.429	297.584	186.806	4.207	0.09792	2.35053	5	X
K09BH0E	17.1	0.15	K118R	203.783	190.157	330.596	8.841	0.02785	2.60902	3	X
K09C20V	17.5	0.15	K118R	309.261	284.725	154.107	5.777	0.12716	2.30091	5	X
K09C26U	16.5	0.15	K118R	129.638	256.506	345.448	11.261	0.12153	2.68400	3	W
K09C29M	17.8	0.15	K118R	263.907	24.212	104.714	2.486	0.13175	2.38643	2	W
K09C29S	18.2	0.15	K118R	336.350	344.523	67.060	2.342	0.19614	2.31136	4	X
K09C35L	17.3	0.15	K118R	250.003	133.239	353.391	5.631	0.02988	2.41969	3	X
K09C47J	17.6	0.15	K118R	339.168	28.785	28.307	4.345	0.12990	2.34684	7	X
K09D38T	16.6	0.15	K118R	66.949	289.054	349.075	12.947	0.15981	3.15116	3	X
K09D46C	16.4	0.15	K118R	334.284	295.552	119.206	7.274	0.07743	2.35439	6	X
K09D66C	16.5	0.15	K118R	39.388	25.129	311.021	3.672	0.18295	2.57055	5	X
K09D72G	17.9	0.15	K118R	296.052	127.396	333.776	6.379	0.17156	2.34288	3	W
K09D81Z	16.6	0.15	K118R	41.445	208.334	135.895	5.133	0.11493	2.71464	2	X
K09DA5G	16.8	0.15	K118R	125.918	231.606	353.095	9.285	0.04625	3.05105	2	X
K09DA6O	16.8	0.15	K118R	163.271	215.181	352.405	13.252	0.14783	2.72983	3	W
K09DC4C	16.6	0.15	K118R	330.708	233.415	186.320	6.582	0.01029	2.53645	6	X
K09E02M	17.0	0.15	K118R	202.223	115.278	72.199	6.707	0.07507	2.42031	5	X
K09E11B	16.9	0.15	K118R	35.252	196.868	159.206	3.476	0.06988	2.54346	7	X
K09E14Q	17.5	0.15	K118R	350.258	31.786	19.274	4.503	0.10114	2.34415	5	X
K09E29V	16.8	0.15	K118R	208.892	9.802	176.040	12.828	0.09327	2.64941	4	X
K09F02G	17.3	0.15	K118R	319.952	280.674	155.325	5.349	0.21675	2.37729	4	X
K09F12W	16.3	0.15	K118R	36.232	313.973	357.940	10.650	0.08197	3.08325	3	X
K09F29W	18.3	0.15	K118R	300.326	287.851	183.571	5.972	0.19003	2.32613	5	X
K09F68U	15.8	0.15	K118R	108.365	66.023	221.891	25.570	0.11143	3.11335	3	X
K09F73O	16.9	0.15	K118R	258.057	47.163	97.605	4.496	0.12306	2.63173	4	X
K09G03K	16.5	0.15	K118R	235.919	140.321	29.319	4.333	0.06782	2.59925	8	X
K09H02B	16.5	0.15	K118R	185.920	115.255	106.834	11.916	0.22511	2.64138	3	W
K09H07C	17.2	0.15	K118R	313.387	352.627	100.065	5.758	0.07874	2.59452	4	X

K09H30U	17.0	0.15	K118R	61.061	163.017	172.869	5.927	0.05638	2.67253	6 X
K09H31J	16.8	0.15	K118R	302.900	345.315	115.810	6.115	0.13297	2.55568	2 S
K09H42L	16.4	0.15	K118R	277.875	57.905	57.352	14.838	0.05025	2.77050	3 X
K09H83F	17.3	0.15	K118R	288.375	288.100	192.406	7.201	0.20523	2.36520	4 X
K09HA1H	16.0	0.15	K118R	135.742	181.159	70.234	14.250	0.18311	3.15179	4 X
K09HA4F	17.1	0.15	K118R	207.903	93.804	107.501	4.491	0.11215	2.72747	6 X
K09K05R	16.0	0.15	K118R	126.499	183.484	79.483	11.710	0.09203	3.12383	6 X
K09K23O	16.0	0.15	K118R	356.950	207.807	191.058	10.584	0.10879	2.99617	7 X
K09K23V	18.0	0.15	K118R	239.331	11.730	166.999	6.843	0.19866	2.56430	5 X
K09M03J	15.8	0.15	K118R	278.199	269.979	227.228	26.618	0.13588	2.66623	4 X
K10B51J	17.2	0.15	K118R	66.184	251.299	52.901	23.296	0.20435	2.28211	4 X
K10D70F	16.8	0.15	K118R	43.186	126.760	202.739	18.446	0.16821	2.66092	4 X
K10E37U	17.8	0.15	K118R	91.382	102.394	169.881	5.696	0.15003	2.26657	5 X
K10E83K	17.7	0.15	K118R	76.393	97.792	192.495	5.863	0.17728	2.31186	4 X
K10F84S	17.4	0.15	K118R	77.547	95.354	187.713	5.826	0.20901	2.31582	4 X
K10F87M	18.3	0.15	K118R	138.609	7.742	218.245	4.700	0.13907	2.16058	3 X
K10F92M	18.3	0.15	K118R	96.900	53.629	220.208	6.276	0.16196	2.22073	3 X
K10G30C	17.4	0.15	K118R	70.667	253.084	26.715	2.993	0.19998	2.58856	2 W
K10G33Y	18.9	0.15	K118R	235.641	112.773	37.176	18.634	0.04144	1.84763	5 X
K10GA6F	17.1	0.15	K118R	95.809	202.818	74.776	7.120	0.10734	2.24485	7 X
K10GA8O	17.7	0.15	K118R	102.310	234.440	44.901	8.107	0.13717	2.19275	3 X
K10GA8S	17.7	0.15	K118R	123.824	19.674	213.925	6.078	0.06299	2.36532	2 W
K10GB2M	16.8	0.15	K118R	66.392	248.190	46.590	16.164	0.35131	2.63124	3 X
K10GF7B	17.5	0.15	K118R	85.658	245.639	43.582	8.445	0.15288	2.27070	4 X
K10H35A	15.0	0.15	K118R	57.424	244.126	74.424	18.609	0.21442	3.25362	4 X
K10J28V	17.4	0.15	K118R	84.942	173.410	108.356	3.885	0.16795	2.47556	6 X
K10J32E	17.1	0.15	K118R	98.451	23.494	255.608	4.258	0.18055	2.26076	5 X
K10J34F	16.3	0.15	K118R	52.084	271.086	32.134	11.444	0.19280	2.62458	3 X
K10JB2R	15.7	0.15	K118R	74.587	269.433	33.413	4.868	0.27651	2.55420	5 X
K10JD5P	15.1	0.15	K118R	68.223	33.097	284.782	14.758	0.04086	3.21313	5 S
K10JH6N	16.9	0.15	K118R	110.154	29.870	216.245	13.723	0.21755	2.62090	2 W
K10K63J	15.3	0.15	K118R	59.071	61.618	280.993	8.678	0.10451	3.08064	4 X
K10L00B	15.5	0.15	K118R	51.320	52.767	242.975	26.873	0.23913	3.19248	3 X
K10L00C	15.8	0.15	K118R	28.937	142.719	207.382	17.804	0.12938	2.57585	5 X
K10L53E	15.5	0.15	K118R	74.592	63.042	267.300	7.974	0.08589	3.16398	4 X
K10L78K	16.3	0.15	K118R	293.503	262.339	212.407	14.712	0.01965	3.17343	4 X
K10LA4R	16.8	0.15	K118R	27.652	169.852	167.948	13.771	0.09724	2.60860	6 X
K10N86W	15.1	0.15	K118R	37.513	104.065	301.687	14.353	0.21376	3.12236	6 X
K10O41H	15.0	0.15	K118R	47.413	5.743	30.432	18.730	0.08389	3.12193	5 X
K10O58J	15.3	0.15	K118R	357.550	84.692	9.505	22.767	0.07413	3.13526	4 X
K10O75Y	13.4	0.15	K118R	331.735	189.203	270.993	14.702	0.15774	5.17713	4 X
K10RC9H	15.9	0.15	K118R	159.043	358.158	244.444	11.425	0.07632	3.09226	5 X
K11E17F	19.2	0.15	K118R	9.835	280.845	5.361	4.192	0.73847	2.35391	2 X
K11L20D	16.3	0.15	K118R	3.162	166.232	195.048	11.667	0.50217	2.96166	3 X
K11L26T	17.1	0.15	K118R	25.778	75.495	251.478	6.470	0.31988	2.18306	3 X
K11R14T	16.7	0.15	K118R	16.609	312.170	37.460	3.362	0.24359	2.33294	8 X
K11S08E	16.6	0.15	K118R	339.863	177.477	200.079	11.738	0.12683	2.86887	4 X
K11S11K	17.5	0.15	K118R	7.724	51.359	292.242	4.678	0.21204	2.41633	3 X
K11S23T	17.6	0.15	K118R	24.749	5.466	312.938	2.969	0.25673	2.55097	2 X
K11S25W	17.5	0.15	K118R	280.817	248.743	200.884	9.141	0.15797	2.45711	7 X
K11S26M	15.6	0.15	K118R	35.955	69.297	239.400	25.553	0.27546	2.76261	2 S
K11S30Q	16.3	0.15	K118R	348.690	138.761	248.275	5.180	0.22457	2.67552	6 X
K11S32Y	17.5	0.15	K118R	10.530	159.004	170.227	2.725	0.24485	2.34980	2 S
K11S34Q	17.7	0.15	K118R	50.540	266.249	27.439	7.616	0.17072	2.35240	3 X
K11S35R	17.6	0.15	K118R	3.549	179.528	176.389	5.792	0.18576	2.18904	7 X
K11S37T	15.7	0.15	K118R	293.147	57.675	38.074	10.188	0.07036	3.10650	4 X
K11S37X	15.6	0.15	K118R	335.575	219.251	196.921	16.606	0.21859	3.10772	4 X
K11S38F	18.8	0.15	K118R	328.361	19.431	22.649	21.463	0.06980	1.92060	2 S
K11S38G	17.3	0.15	K118R	321.722	279.632	141.475	3.115	0.13713	2.35886	4 X
K11S42X	16.5	0.15	K118R	101.197	239.681	357.022	11.126	0.14503	2.62029	4 X
K11S49U	16.0	0.15	K118R	0.323	184.357	184.179	18.232	0.21960	3.15509	6 X
K11S52B	15.3	0.15	K118R	348.617	195.448	214.953	12.679	0.02558	2.97129	5 X
K11S56H	18.0	0.15	K118R	351.912	300.899	71.549	3.998	0.23037	2.34338	2 S
K11S60T	17.5	0.15	K118R	46.077	196.925	107.711	10.290	0.18562	2.33365	3 X
K11S84C	18.9	0.15	K118R	5.094	296.277	46.396	0.809	0.20033	2.18651	3 X
K11S84H	17.9	0.15	K118R	328.281	36.264	17.752	9.181	0.16985	2.57970	2 S
K11S91C	17.3	0.15	K118R	18.307	331.929	13.721	5.321	0.12845	2.45040	4 X
K11S94A	17.0	0.15	K118R	57.096	331.193	323.023	4.261	0.21911	2.61366	5 X
K11S96N	17.5	0.15	K118R	64.652	69.448	193.506	12.242	0.21430	2.66506	2 X
K11S97D	18.1	0.15	K118R	359.758	13.410	346.826	19.356	0.09051	1.88247	2 S
K11SA2L	17.9	0.15	K118R	317.565	51.361	59.743	10.039	0.48987	2.20242	3 X
K11SA3S	18.1	0.15	K118R	347.181	206.047	166.716	7.085	0.20632	2.30042	2 S
K11SA4R	16.8	0.15	K118R	343.288	52.439	346.266	9.019	0.06959	2.97609	2 S
K11SA5X	15.4	0.15	K118R	304.102	205.236	234.080	15.037	0.28321	2.85482	4 X
K11SA7F	18.4	0.15	K118R	348.713	14.387	23.016	3.986	0.17595	2.25004	3 X
K11SA8G	16.3	0.15	K118R	346.487	45.311	336.508	23.393	0.34087	3.09843	2 S

K11SB4H	16.1	0.15	K118R	1.461	259.814	90.133	14.036	0.19956	3.05112	3 S
K11SB6Y	17.6	0.15	K118R	352.861	216.382	168.641	2.318	0.21497	2.31989	3 X
K11SB8D	17.7	0.15	K118R	320.066	198.917	208.851	3.690	0.18177	2.41471	4 X
K11SC0B	16.4	0.15	K118R	341.188	195.481	182.310	1.931	0.08260	2.86615	4 X
K11SC0P	15.6	0.15	K118R	41.325	61.630	265.678	7.785	0.12693	3.13588	4 X
K11SC2U	16.2	0.15	K118R	50.921	100.590	207.586	24.573	0.23074	3.18404	4 X
K11SC6X	16.6	0.15	K118R	330.669	228.374	185.963	13.396	0.25704	2.69563	2 X
K11SC8L	18.1	0.15	K118R	339.312	207.256	197.414	8.067	0.21295	2.52154	2 S
K11SD1R	17.6	0.15	K118R	48.576	149.642	159.415	2.411	0.18121	2.28791	4 X
K11SD1S	18.3	0.15	K118R	357.513	186.438	192.153	5.877	0.14549	2.44721	2 S
K11SD1U	16.8	0.15	K118R	26.629	287.362	51.425	4.100	0.20256	2.74537	3 X
K11SD1V	17.3	0.15	K118R	41.194	137.208	185.394	5.452	0.18377	2.69782	7 X
K11SF8U	16.1	0.15	K118R	334.645	58.698	344.472	9.475	0.09970	3.01709	4 X
K11SG5H	16.7	0.15	K118R	31.815	125.561	199.547	15.425	0.21953	3.16994	2 S
K11SH3P	18.2	0.15	K118R	54.003	117.897	177.762	2.266	0.11769	2.39829	3 X
K11SH5E	16.6	0.15	K118R	340.221	356.399	30.611	4.678	0.11634	2.78972	4 X
K11SH6M	14.3	0.15	K118R	68.690	22.230	272.721	25.326	0.08334	3.22755	4 X
K11SH9M	17.8	0.15	K118R	48.555	289.209	8.692	5.016	0.23149	2.36799	3 X
K11SI0O	18.9	0.15	K118R	332.554	199.419	208.375	2.863	0.19501	2.44996	2 S
K11SI2N	18.8	0.15	K118R	333.473	42.740	1.189	5.035	0.14675	2.20563	2 S
K11SI3U	17.7	0.15	K118R	1.323	305.855	61.399	3.612	0.21189	2.38647	3 X
K11SI3Z	18.2	0.15	K118R	337.561	228.399	179.566	4.950	0.22748	2.54056	2 S
K11SI4J	17.4	0.15	K118R	237.411	80.150	67.592	4.755	0.05893	2.26580	5 X
K11SI4L	16.7	0.15	K118R	359.578	313.067	67.287	5.479	0.11684	2.68544	3 S
K11SI4O	16.3	0.15	K118R	356.710	337.827	51.384	12.194	0.06012	3.07202	2 S
K11SI4W	17.8	0.15	K118R	358.847	245.111	126.120	3.061	0.19576	2.32409	3 X
K11SI5Q	16.8	0.15	K118R	38.514	217.122	103.634	4.001	0.22412	2.61527	4 X
K11SI8U	15.7	0.15	K118R	118.282	222.583	26.751	34.796	0.17005	2.78333	3 X
K11SJ0V	15.6	0.15	K118R	34.357	317.892	34.353	22.698	0.11541	3.03579	4 X
K11SJ1D	16.6	0.15	K118R	8.124	106.518	269.083	25.622	0.47311	2.55121	2 S
K11SJ2G	16.6	0.15	K118R	8.049	186.550	169.992	14.231	0.20465	2.71956	5 X
K11SK1L	17.4	0.15	K118R	18.926	150.960	173.830	6.482	0.13480	2.71346	5 X
K11SL4L	17.4	0.15	K118R	345.667	16.627	13.318	6.863	0.10084	2.32811	5 X
K11SL6T	17.5	0.15	K118R	336.235	321.887	83.788	6.670	0.21703	2.67170	2 S
K11SM2P	17.6	0.15	K118R	4.617	20.429	352.374	10.769	0.09730	3.09062	2 S
K11SM2V	15.7	0.15	K118R	335.564	228.573	206.665	18.506	0.20419	3.12618	4 X
K11SN3E	16.6	0.15	K118R	336.641	206.704	210.402	33.549	0.22190	2.61700	3 X
K11SN4P	16.6	0.15	K118R	354.778	127.680	233.807	1.611	0.11851	2.84409	6 X
K11SO4U	16.6	0.15	K118R	358.592	74.552	280.066	10.560	0.20410	2.63604	3 X
K11SO9Q	14.4	0.15	K118R	25.073	261.919	44.964	16.770	0.45128	6.50693	3 S
K11SO9R	15.9	0.15	K118R	2.131	113.212	250.179	20.290	0.32072	3.01433	2 S
K11T01E	14.8	0.15	K118R	317.525	277.252	171.290	25.831	0.22569	3.21162	4 X
K11T02O	16.1	0.15	K118R	344.583	119.181	271.917	14.289	0.01966	2.56593	5 X
K11T03S	16.5	0.15	K118R	308.934	73.782	11.454	12.073	0.14478	3.01158	3 X
K11T04F	15.6	0.15	K118R	31.624	247.051	98.363	17.308	0.18888	3.07618	2 S
K11T05G	15.9	0.15	K118R	271.632	195.048	275.844	8.882	0.06498	3.08120	2 S
K11T05S	15.3	0.15	K118R	337.919	7.242	51.222	9.354	0.11059	3.13720	4 X
K11T09V	17.5	0.15	K118R	342.050	338.735	45.282	6.030	0.26350	2.35907	4 X
K11T10B	17.1	0.15	K118R	282.493	287.846	184.433	28.046	0.41734	2.57776	2 S
K11T10D	17.7	0.15	K118R	302.105	100.149	329.620	17.545	0.09141	1.87905	2 S
K11T10S	17.8	0.15	K118R	334.410	27.338	4.175	3.002	0.19685	2.40358	3 X
K11T10T	17.6	0.15	K118R	70.712	66.437	200.290	1.773	0.16988	2.39246	8 X
K11T10Y	17.0	0.15	K118R	283.193	10.351	78.371	2.982	0.07172	2.71184	6 X
K11T10Z	16.1	0.15	K118R	338.503	237.758	154.039	5.540	0.15141	3.09489	6 X
K11T11T	18.0	0.15	K118R	319.867	310.015	97.754	5.978	0.12085	2.23176	5 S
K11T12F	17.1	0.15	K118R	269.662	55.079	55.173	5.704	0.11900	2.73492	4 X
K11T12H	15.9	0.15	K118R	303.851	31.020	37.139	9.592	0.08989	3.17500	5 X
K11T13F	16.1	0.15	K118R	37.317	145.518	181.176	9.773	0.07076	3.14556	3 X
K11T13M	17.2	0.15	K118R	336.742	243.913	142.511	6.880	0.08128	2.57900	4 X
K11T13S	17.0	0.15	K118R	340.270	67.644	341.658	3.372	0.10259	2.77152	5 X
K11U00H	16.3	0.15	K118R	25.664	273.223	72.374	17.037	0.10198	3.15726	4 X
K11U00N	17.5	0.15	K118R	304.219	34.336	62.731	17.289	0.25576	2.73705	4 X
K11U00P	16.5	0.15	K118R	10.979	210.535	150.128	12.520	0.16634	3.04871	6 X
K11U01U	14.8	0.15	K118R	341.280	175.079	226.407	11.433	0.07718	3.18631	2 X
K11U02V	15.6	0.15	K118R	353.878	355.456	35.235	23.677	0.18729	3.09053	5 X
K11U05R	16.7	0.15	K118R	346.913	358.553	42.799	13.807	0.20557	2.57086	3 X
K11U06D	17.2	0.15	K118R	341.509	190.874	220.351	1.604	0.20859	2.64258	6 X
K11U07E	18.4	0.15	K118R	4.189	302.827	62.990	1.411	0.29682	2.50498	2 S
K11U10D	18.1	0.15	K118R	20.404	358.153	353.674	3.044	0.19512	2.36524	4 X
K11U10T	17.2	0.15	K118R	273.603	235.813	203.351	13.930	0.10680	2.77791	2 S
K11U11Q	18.2	0.15	K118R	300.981	233.660	208.271	4.682	0.27945	2.58745	3 X
K11U12Y	17.1	0.15	K118R	22.499	291.831	61.697	0.705	0.10497	2.72895	3 X
K11U13W	16.9	0.15	K118R	324.949	164.035	268.972	6.362	0.26077	3.00591	2 X
K11U15G	17.0	0.15	K118R	25.226	281.206	48.962	7.601	0.20127	2.47175	2 S
K11U15U	15.4	0.15	K118R	26.625	167.006	185.194	5.780	0.26728	3.99294	4 X
K11U20S	19.1	0.15	K118R	343.234	99.297	292.748	2.658	0.25102	2.53745	3 X

K11U22F	16.5	0.15	K118R	29.596	326.205	9.892	14.711	0.12437	2.66815	3	X
K11U23J	16.6	0.15	K118R	11.704	309.291	45.641	5.149	0.16396	3.03646	4	X
K11U23M	16.0	0.15	K118R	221.553	170.998	350.820	10.648	0.02616	3.09912	2	S
K11U24P	17.2	0.15	K118R	324.225	61.667	24.852	7.676	0.30943	3.06358	2	S
K11U29G	16.1	0.15	K118R	356.366	0.883	33.034	19.611	0.20744	3.01289	2	S
K11U29V	18.3	0.15	K118R	346.469	231.586	169.872	1.388	0.14061	2.36766	2	S
K11U29W	16.4	0.15	K118R	62.939	88.760	218.522	11.902	0.20741	2.65764	2	S
K11U30S	17.3	0.15	K118R	359.402	338.659	53.196	6.286	0.12644	2.72465	3	S
K11U32B	16.7	0.15	K118R	282.352	190.554	271.562	8.360	0.10085	2.72049	3	X
K11U35W	15.8	0.15	K118R	37.028	287.076	52.669	26.010	0.19390	2.63559	2	S
K11U41B	17.4	0.15	K118R	19.301	144.274	198.729	1.014	0.20350	3.05280	3	X
K11U41S	17.9	0.15	K118R	6.169	335.069	20.252	1.616	0.20094	2.38148	2	S
K11U42J	16.8	0.15	K118R	346.756	43.967	342.062	9.361	0.07735	2.58921	4	X
K11U46P	17.3	0.15	K118R	81.748	51.952	242.150	8.856	0.03337	2.24543	4	S
K11U46S	17.0	0.15	K118R	270.655	191.245	283.750	3.762	0.05242	2.23680	4	X
K11U48V	17.9	0.15	K118R	328.873	199.174	218.747	2.808	0.11987	2.39337	4	X
K11U49M	16.7	0.15	K118R	57.538	286.026	38.097	5.204	0.06866	2.77690	3	X
K11U50Q	16.6	0.15	K118R	295.524	53.828	54.524	9.787	0.10799	3.04003	2	S
K11U50U	16.7	0.15	K118R	301.434	321.654	133.261	2.232	0.07274	2.65564	3	X
K11U51J	18.3	0.15	K118R	338.876	254.381	163.342	1.691	0.34389	2.62527	2	S
K11U51R	16.5	0.15	K118R	324.734	230.392	198.204	7.573	0.10021	2.60862	4	X
K11U51U	17.3	0.15	K118R	355.351	208.829	177.891	3.353	0.20356	2.57014	2	S
K11U52J	16.0	0.15	K118R	41.680	257.740	75.263	6.646	0.18919	3.20889	4	X
K11U52Q	17.6	0.15	K118R	339.147	254.987	154.673	2.698	0.21850	2.38283	4	X
K11U53S	17.7	0.15	K118R	39.207	309.347	34.703	5.257	0.09861	2.41285	3	X
K11U54J	18.4	0.15	K118R	53.502	279.878	43.072	7.033	0.10996	2.28371	2	S
K11U54P	16.3	0.15	K118R	66.894	275.939	51.872	11.324	0.05327	3.12341	2	S
K11U55K	16.6	0.15	K118R	328.970	32.994	50.839	8.264	0.18164	3.19802	2	X
K11U55X	16.4	0.15	K118R	28.934	307.103	62.007	10.375	0.09064	2.98262	2	X
K11U56Q	18.0	0.15	K118R	316.551	184.051	251.611	2.551	0.10939	2.16491	4	X
K11U59B	16.7	0.15	K118R	15.021	204.440	134.695	3.008	0.22738	3.14600	3	X
K11U59T	18.6	0.15	K118R	8.469	125.836	230.532	10.664	0.33482	2.52867	3	X
K11U61T	16.6	0.15	K118R	31.213	224.225	135.307	2.699	0.17269	2.93867	2	S
K11U62L	17.3	0.15	K118R	353.911	201.320	178.520	2.687	0.18189	2.35099	2	S
K11U65O	19.0	0.15	K118R	2.286	239.533	123.701	8.683	0.28692	2.75992	2	S
K11U70D	17.4	0.15	K118R	332.203	109.629	312.257	4.493	0.28231	2.58848	3	S
K11U70G	18.0	0.15	K118R	4.276	19.032	346.906	6.593	0.21309	2.38600	2	X
K11U72C	16.1	0.15	K118R	27.919	107.813	230.090	9.192	0.18441	3.05358	4	X
K11U80J	15.1	0.15	K118R	309.956	222.757	227.405	17.053	0.09947	3.11276	3	S
K11U82O	17.2	0.15	K118R	335.801	68.558	356.307	3.851	0.26988	2.56954	3	X
K11U83T	17.0	0.15	K118R	296.258	99.754	4.541	4.219	0.02134	2.79264	4	X
K11U84W	16.8	0.15	K118R	351.668	10.857	42.315	14.185	0.08422	3.09467	2	S
K11U85M	17.3	0.15	K118R	320.581	169.323	272.300	2.812	0.06860	2.66678	4	X
K11U85R	17.2	0.15	K118R	341.795	242.264	149.003	5.199	0.23695	2.38985	4	X
K11U90U	17.0	0.15	K118R	41.582	278.688	28.087	7.812	0.13068	2.36626	4	X
K11U90W	16.1	0.15	K118R	230.607	253.018	251.163	21.424	0.07301	2.36626	3	X
K11U91A	16.7	0.15	K118R	307.055	327.589	108.930	11.465	0.03662	3.03316	3	X
K11U98T	16.7	0.15	K118R	333.253	62.305	0.022	7.376	0.22425	2.80401	4	X
K11UA7S	16.8	0.15	K118R	8.076	243.321	121.587	11.666	0.15814	3.00092	4	X
K11UB2T	15.1	0.15	K118R	70.112	89.259	226.912	15.196	0.12362	3.16686	4	X
K11UB4K	17.3	0.15	K118R	7.949	315.402	56.671	11.081	0.22318	2.34101	2	X
K11UB5O	18.5	0.15	K118R	0.793	6.026	346.402	2.339	0.24437	2.37742	3	X
K11UB6A	16.6	0.15	K118R	22.174	253.848	78.705	5.146	0.10484	2.76789	5	X
K11UB6E	18.1	0.15	K118R	316.268	313.709	109.660	5.655	0.21869	2.32922	2	S
K11UB6L	16.7	0.15	K118R	359.602	266.536	93.947	5.310	0.11461	2.76783	4	X
K11UB7B	15.9	0.15	K118R	34.844	120.981	203.376	9.176	0.06425	3.17712	3	X
K11UB7Q	17.5	0.15	K118R	332.561	333.525	70.420	8.349	0.19701	2.35838	2	S
K11UC0H	16.5	0.15	K118R	26.322	324.186	40.729	10.945	0.11048	3.09081	3	X
K11UC4E	17.7	0.15	K118R	346.440	273.291	107.945	5.536	0.16606	2.47975	2	S
K11UC5G	17.3	0.15	K118R	355.707	68.611	307.479	3.914	0.18127	3.05452	2	S
K11UC6H	17.8	0.15	K118R	35.532	45.210	282.613	4.835	0.16608	2.21009	6	X
K11UC7V	16.7	0.15	K118R	15.777	198.880	179.739	6.302	0.04893	2.67742	2	S
K11UC9F	14.9	0.15	K118R	6.562	131.093	225.122	9.017	0.10187	3.55186	4	X
K11UD0S	16.7	0.15	K118R	318.223	123.044	301.448	14.087	0.11733	2.60273	2	S
K11UF4H	16.6	0.15	K118R	333.288	124.654	291.442	13.296	0.21238	3.12929	2	S
K11UF5G	18.6	0.15	K118R	287.233	334.355	123.521	9.128	0.09503	2.29854	2	X
PLS6883	17.3	0.15	K118R	335.884	249.544	162.025	5.283	0.18934	2.36171	4	X
T2S4282	17.1	0.15	K118R	12.742	347.914	22.308	6.685	0.16563	2.42503	8	X

## New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K02PJ8U	16.5	0.15	K118R	7.621	54.225	244.633	12.660	0.19327	2.75931	64	S
K08W11T	14.0	0.15	K118R	40.833	310.253	61.010	7.079	0.61922	9.92205	38	S
K11G65X	21.7	0.15	K118R	18.080	263.320	42.304	22.857	0.28627	1.34393	196	X
K11K04F	19.1	0.15	K118R	1.247	281.506	41.082	10.005	0.61351	2.60196	158	X
<b>K11L19J</b>	<b>21.3</b>	<b>0.15</b>	<b>K118R</b>	<b>359.943</b>	<b>30.102</b>	<b>296.866</b>	<b>1.542</b>	<b>0.61924</b>	<b>2.62018</b>	<b>140</b>	<b>X</b>



K11O24P	20.0	0.15	K118R	276.181	320.813	145.012	15.336	0.56956	1.24532	91	X
K11O39S	18.1	0.15	K118R	347.888	158.877	193.037	6.632	0.23250	2.36246	107	S
K11O58U	14.0	0.15	K118R	356.942	2.310	323.769	35.391	0.05463	5.22723	88	S
K11P00Z	22.0	0.15	K118R	358.099	145.561	195.610	5.527	0.48643	2.56853	77	S
K11P09J	18.7	0.15	K118R	10.139	164.601	162.749	6.385	0.16509	2.32056	73	S
K11Q00P	18.6	0.15	K118R	359.632	125.364	208.650	4.923	0.23588	2.29986	72	S
K11Q02Z	17.0	0.15	K118R	8.969	46.365	280.166	3.990	0.21219	2.42649	63	S
K11Q09E	16.5	0.15	K118R	2.426	328.125	18.192	15.485	0.14980	2.86230	63	S
K11Q10K	18.5	0.15	K118R	345.319	123.847	241.217	3.356	0.25078	2.48006	64	S
K11Q11D	18.5	0.15	K118R	8.372	23.371	304.484	4.028	0.22340	2.45197	74	S
K11Q11X	19.5	0.15	K118R	355.349	77.215	272.639	5.706	0.48360	2.60681	61	S
K11Q12Z	17.7	0.15	K118R	7.989	143.699	175.543	12.389	0.30074	2.64352	60	S
K11Q13N	17.4	0.15	K118R	8.838	146.427	176.557	12.836	0.30416	2.62818	78	S
K11Q14D	18.4	0.15	K118R	353.751	134.061	229.290	5.790	0.44424	2.60364	61	S
K11Q14S	17.4	0.15	K118R	341.614	25.924	355.477	17.549	0.32756	2.69067	60	S
K11Q17S	17.1	0.15	K118R	328.374	40.798	350.893	3.317	0.18910	2.77383	61	S
K11Q18M	15.7	0.15	K118R	19.071	324.060	4.464	18.163	0.19182	3.09456	64	S
K11Q19T	18.2	0.15	K118R	357.691	348.739	345.553	1.924	0.19734	2.42101	84	S
K11Q23D	17.5	0.15	K118R	353.354	199.165	185.052	6.780	0.38268	2.55184	138	X
K11Q23W	17.5	0.15	K118R	301.203	243.080	178.195	5.157	0.16701	2.80152	69	S
K11Q24X	18.6	0.15	K118R	16.417	124.119	192.416	4.890	0.24640	2.60743	60	S
K11Q29O	19.1	0.15	K118R	6.964	94.829	227.627	7.367	0.26592	2.21986	61	S
K11Q29Q	17.3	0.15	K118R	2.629	119.862	213.559	12.414	0.21438	2.76771	63	S
K11Q33M	18.3	0.15	K118R	348.468	190.043	163.975	4.077	0.25616	2.27885	82	S
K11Q34Z	17.4	0.15	K118R	4.677	9.680	316.258	1.935	0.20071	2.43410	81	S
K11Q40E	17.1	0.15	K118R	51.643	85.583	182.178	6.052	0.13370	2.43631	74	S
K11Q40R	16.5	0.15	K118R	328.712	231.328	187.560	33.107	0.46227	3.20379	60	S
K11Q48D	18.1	0.15	K118R	273.891	106.626	358.934	19.067	0.49210	1.54514	58	X
K11Q65A	16.0	0.15	K118R	359.391	2.796	342.672	11.468	0.10811	3.13101	61	S
K11Q69F	17.2	0.15	K118R	342.700	16.028	348.805	6.697	0.15727	2.36469	61	S
K11Q70D	18.0	0.15	K118R	336.407	48.419	346.112	28.803	0.39458	3.20805	60	S
K11Q71N	18.6	0.15	K118R	18.429	8.227	290.532	3.140	0.32859	2.32477	80	S
K11Q77M	17.3	0.15	K118R	0.663	358.767	344.823	17.266	0.16860	3.12811	61	S
K11Q78D	16.4	0.15	K118R	290.984	63.537	6.932	8.802	0.10742	3.18981	62	S
K11Q91N	16.9	0.15	K118R	340.135	184.356	192.235	10.087	0.10013	3.11571	61	S
K11Q95G	18.1	0.15	K118R	354.998	40.723	312.182	5.826	0.24324	2.15769	62	S
K11R02L	18.6	0.15	K118R	346.953	186.115	180.325	8.377	0.23627	2.81135	61	S
K11R06H	19.5	0.15	K118R	26.233	116.191	186.075	4.795	0.23040	2.36000	43	S
K11R16H	16.9	0.15	K118R	336.072	218.328	164.294	13.637	0.26388	2.66627	66	S
K11S03X	16.7	0.15	K118R	343.961	34.057	341.940	11.947	0.30651	2.64151	78	S
K11S06F	18.7	0.15	K118R	27.183	353.083	299.765	6.509	0.23675	2.20630	61	S
K11S23N	16.6	0.15	K118R	334.539	170.904	226.643	9.189	0.22838	2.80469	136	X
K11S24C	17.4	0.15	K118R	355.617	170.345	193.216	12.455	0.23717	2.39731	139	S
K11S25O	20.6	0.15	K118R	342.764	28.340	10.421	4.204	0.43307	2.26153	38	X
K11S25R	21.0	0.15	K118R	355.722	162.798	186.087	23.991	0.59831	2.88962	35	X
K11S26O	20.8	0.15	K118R	334.127	273.177	165.968	26.636	0.61398	2.56198	37	X
K11S26Y	17.6	0.15	K118R	343.447	21.272	346.093	4.342	0.12193	2.71722	61	S
K11S55Q	18.2	0.15	K118R	1.749	328.509	23.568	22.330	0.65069	6.19390	26	S
K11S58F	16.2	0.15	K118R	359.789	320.893	32.379	20.341	0.34388	3.09383	49	S
K11S68C	18.7	0.15	K118R	335.668	192.021	201.470	7.057	0.32430	2.33377	57	S
K11S69D	17.6	0.15	K118R	349.761	259.055	128.625	9.878	0.32174	3.07643	114	X
K11S69R	20.0	0.15	K118R	333.796	206.761	227.468	5.838	0.54896	2.40991	33	X
K11S97V	17.4	0.15	K118R	1.644	341.828	5.309	15.828	0.25119	3.11546	61	X
K11SA2W	16.9	0.15	K118R	337.511	17.983	11.510	10.152	0.29121	2.79283	55	S
K11SA6N	17.4	0.15	K118R	20.082	2.921	324.401	7.558	0.24949	2.68906	62	S
K11SA7R	17.3	0.15	K118R	343.849	156.091	224.313	5.949	0.21892	2.42435	129	S
K11SB2F	17.6	0.15	K118R	345.427	60.420	323.500	4.005	0.30385	2.65868	113	S
K11SB8A	16.7	0.15	K118R	20.583	164.574	174.611	9.999	0.15115	2.73477	115	S
K11SC0J	17.0	0.15	K118R	358.572	181.555	201.131	20.963	0.53220	3.19226	27	S
K11SC0M	22.4	0.15	K118R	353.077	167.442	190.043	4.495	0.40607	2.18577	26	S
K11SF7Y	17.2	0.15	K118R	10.735	148.574	188.994	23.390	0.25507	2.33982	60	S
K11SH3D	19.5	0.15	K118R	56.230	59.291	203.274	4.390	0.49707	1.65288	34	X
K11SJ6E	18.9	0.15	K118R	2.280	349.845	349.986	5.351	0.18935	2.32277	64	S
K11SL0O	16.3	0.15	K118R	11.501	340.017	344.440	11.864	0.14976	3.18374	55	S
K11SL6B	16.2	0.15	K118R	79.168	263.555	343.330	8.298	0.16874	3.07015	61	S
K11SL6H	18.2	0.15	K118R	11.847	343.548	339.497	7.965	0.22055	2.78768	61	S
K11SM1H	18.2	0.15	K118R	353.953	220.591	144.736	4.730	0.24442	2.59088	115	S
K11SN5P	16.5	0.15	K118R	76.095	67.452	225.954	9.542	0.07813	3.11139	31	S
K11T00J	21.2	0.15	K118R	10.757	218.602	60.062	4.970	0.63596	1.94011	27	X
K11T04A	20.6	0.15	K118R	348.518	20.752	11.748	19.735	0.65094	3.08876	25	X
K11T05K	22.8	0.15	K118R	165.880	348.910	186.094	12.576	0.43360	0.85354	24	X
K11T09N	21.3	0.15	K118R	347.518	162.894	199.278	4.109	0.45224	1.90304	12	X
K11U00A	18.4	0.15	K118R	0.631	321.659	347.449	8.905	0.54705	2.29351	11	X
K11U00T	20.7	0.15	K118R	320.228	146.727	357.380	8.824	0.78087	2.03462	10	X
K11U00T	25.8	0.15	K118R	353.004	324.865	19.668	2.160	0.53109	2.00118	11	X
K11U20G	21.4	0.15	K118R	266.674	304.916	205.853	18.894	0.68526	1.12248	9	X

K11U20H	21.0	0.15	K118R	20.804	257.188	21.654	35.803	0.33621	1.23170	9	X
<b>K11U20T</b>	<b>20.7</b>	<b>0.15</b>	<b>K118R</b>	<b>230.439</b>	<b>246.307</b>	<b>271.486</b>	<b>6.557</b>	<b>0.44002</b>	<b>1.19022</b>	<b>9</b>	<b>X</b>
K11U20U	18.1	0.15	K118R	298.840	136.936	355.071	21.810	0.52839	2.47752	9	X
K11U21E	20.4	0.15	K118R	4.093	255.997	9.713	44.839	0.73479	2.24972	9	X
K11U21G	19.3	0.15	K118R	187.278	82.353	86.705	14.546	0.54637	0.93686	8	X
<b>K11U21L</b>	<b>15.6</b>	<b>0.15</b>	<b>K118R</b>	<b>316.852</b>	<b>286.185</b>	<b>275.382</b>	<b>34.846</b>	<b>0.64075</b>	<b>2.02293</b>	<b>11</b>	<b>X</b>
K11U63S	17.8	0.15	K118R	330.108	242.146	251.159	20.579	0.77735	3.03379	7	X
K11U63T	24.8	0.15	K118R	335.140	167.079	206.943	21.670	0.28641	1.43305	6	X
K11U63U	24.3	0.15	K118R	306.214	261.240	207.719	10.875	0.53712	1.61879	6	X
<b>K11U63V</b>	<b>21.6</b>	<b>0.15</b>	<b>K118R</b>	<b>141.226</b>	<b>190.512</b>	<b>14.094</b>	<b>10.514</b>	<b>0.14505</b>	<b>1.20026</b>	<b>7</b>	<b>S</b>
K11U64D	25.4	0.15	K118R	279.966	249.522	212.684	10.578	0.31236	1.27780	5	X
K11UD9V	17.7	0.15	K118R	346.862	16.661	1.707	7.292	0.20766	2.39413	28	X
K11UF8U	19.5	0.15	K118R	355.651	284.674	79.773	9.042	0.40299	2.16225	7	S
K11UF8V	22.1	0.15	K118R	315.593	132.651	2.041	5.183	0.63580	2.10198	1	S

## New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K11Q21F	17.9	0.15	K119G	354.342	342.824	17.567	7.215	0.30608	2.26243	62	S
K11Q39Z	17.7	0.15	K119G	28.624	223.406	98.771	8.663	0.13625	2.33159	38	S
K11Q46H	19.2	0.15	K119G	356.672	176.473	190.436	9.907	0.44676	2.36882	58	W
K11Q59Z	18.0	0.15	K119G	23.330	349.009	339.988	19.575	0.06423	1.91701	55	S
K11R07X	17.7	0.15	K119G	357.306	239.192	140.588	14.076	0.21470	2.80296	43	S
K11S05X	18.6	0.15	K119G	359.500	14.543	342.964	21.546	0.09184	1.86616	30	S
K11S07H	17.1	0.15	K11A6	21.740	145.198	191.608	13.489	0.27597	2.63297	38	S
K11S07P	17.7	0.15	K119G	14.316	52.742	275.294	4.799	0.17480	2.39380	31	S
K11S11F	16.0	0.15	K11A6	62.958	313.973	338.581	13.182	0.14883	3.13573	38	X
K11S13H	18.4	0.15	K119G	355.217	114.856	242.953	4.558	0.18308	2.25901	12	S
K11S19X	15.9	0.15	K119G	19.090	53.283	284.673	17.781	0.12585	3.05498	13	S
K11S20Y	16.8	0.15	K119G	347.857	56.575	336.002	21.077	0.28175	3.15723	30	S
K11S22C	19.0	0.15	K11A6	351.928	94.566	270.621	6.076	0.23736	2.76452	38	X
K11S25J	18.6	0.15	K119G	4.162	5.684	348.282	24.092	0.37656	2.24904	14	S
K11S28Z	17.2	0.15	K119G	8.427	153.026	198.480	12.324	0.30795	2.64194	57	S
K11S37H	18.2	0.15	K11A6	35.194	302.393	33.593	4.489	0.16757	2.37743	36	S
K11S43A	17.8	0.15	K11A6	299.318	79.502	356.651	8.349	0.12367	2.73370	39	X
K11S48M	18.2	0.15	K11A6	248.304	117.136	0.826	6.979	0.02745	2.21555	37	X
K11S64S	19.2	0.15	K11A6	340.790	69.168	311.916	7.726	0.16596	2.22184	37	X
K11S65P	16.2	0.15	K11A6	352.951	154.678	222.075	10.497	0.20067	3.18571	37	W
K11S68L	18.2	0.15	K11A6	86.117	102.980	178.401	27.007	0.11182	1.87266	25	S
K11S70O	18.7	0.15	K11A6	272.004	256.999	198.965	20.784	0.13119	1.93999	33	X
K11S70X	18.9	0.15	K11A6	349.366	182.261	201.530	13.020	0.29092	2.63997	38	X
K11S72L	17.9	0.15	K119G	280.555	239.831	205.680	3.756	0.06996	2.65366	53	X
K11S80V	18.6	0.15	K11A6	312.441	130.425	304.847	1.613	0.22724	2.37275	37	X
K11S90K	16.6	0.15	K11A6	357.906	158.090	227.962	4.855	0.06917	2.81106	35	X
K11S96Q	19.1	0.15	K11A6	332.226	203.756	199.965	7.757	0.19345	2.54622	38	X
K11S96Y	19.0	0.15	K11A6	335.238	300.310	119.412	7.179	0.29364	2.36478	31	S
K11SA7L	18.6	0.15	K119G	336.505	33.683	359.317	23.417	0.13172	1.93436	45	S
K11SB0E	17.9	0.15	K11A6	342.509	28.148	0.666	13.212	0.18947	2.64543	39	X
K11SB4O	17.1	0.15	K11A6	351.735	200.327	189.672	14.446	0.23559	2.77365	36	S
K11SB5A	17.1	0.15	K11A6	339.257	223.260	192.762	12.162	0.28618	2.64260	36	S
K11SC3F	17.9	0.15	K11A6	340.495	227.640	201.679	10.252	0.32051	2.70378	36	X
K11SG4T	19.0	0.15	K11A6	11.544	335.521	26.012	4.193	0.23502	2.37251	36	X
K11SH4U	16.9	0.15	K11A6	5.946	184.991	184.444	8.592	0.15341	2.58449	36	S
K11SI0K	18.6	0.15	K11A6	351.444	28.529	5.465	2.562	0.19875	2.37340	31	X
K11SJ2D	18.9	0.15	K11A6	318.213	40.766	38.401	23.172	0.14635	1.88424	32	W
K11SK8D	17.0	0.15	K119G	351.979	70.231	303.541	3.821	0.30645	3.13665	32	S
K11SK9D	15.9	0.15	K11A6	16.707	319.691	38.532	15.399	0.21102	3.05671	36	S
K11SL4P	16.4	0.15	K119G	3.212	173.678	199.665	21.035	0.18806	2.33455	50	W
K11SL5D	17.8	0.15	K11A6	332.076	21.745	47.236	7.538	0.18778	2.19537	35	S
K11SL8S	17.7	0.15	K11A6	32.230	252.038	77.669	5.948	0.20041	2.39543	21	S
K11SL9T	14.8	0.15	K11A6	67.525	93.131	209.839	3.950	0.13008	3.19080	31	X
K11SN2M	16.8	0.15	K11A6	26.977	56.182	299.099	13.699	0.04213	2.57546	25	S
K11SN3C	16.6	0.15	K118R	345.582	218.141	182.353	5.595	0.26676	2.60101	116	S
K11SN4E	15.8	0.15	K11A6	32.050	14.173	318.251	6.678	0.10900	2.63373	28	X
K11SO6N	16.8	0.15	K11A6	357.155	205.533	191.947	13.440	0.24855	2.59626	36	S
K11SO9U	18.5	0.15	K11A6	349.154	230.246	191.262	12.984	0.49423	3.21267	36	S
K11T02V	17.0	0.15	K11A6	335.521	63.067	4.533	30.466	0.24934	2.61217	22	S
K11T03N	17.3	0.15	K11A6	308.824	18.542	78.491	6.031	0.19228	2.20485	24	X
K11T04M	18.3	0.15	K11A6	147.170	181.092	45.932	23.004	0.10256	1.93302	32	S
K11T08Y	15.9	0.15	K11A6	249.685	227.168	251.805	4.463	0.08537	2.79012	26	X
K11T09K	18.6	0.15	K11A6	352.311	350.513	42.096	5.585	0.29505	2.41454	33	S
K11T11V	17.1	0.15	K119G	325.057	30.724	29.237	13.705	0.16798	2.70170	23	S
K11T12Z	15.8	0.15	K11A6	61.912	264.003	46.047	15.262	0.12126	3.14944	23	X
K11U03H	17.0	0.15	K11A6	349.133	347.838	53.006	4.815	0.30920	2.69104	19	S
K11U03N	17.9	0.15	K11A6	32.126	121.101	209.004	24.029	0.28855	2.31185	28	S
K11U11A	16.3	0.15	K11A6	283.485	253.908	193.601	13.653	0.09673	3.15702	11	X
K11U11J	18.0	0.15	K11A6	5.686	352.139	2.631	17.362	0.15379	2.56821	11	X

K11U11M	17.9	0.15	K11A6	337.549	205.264	190.451	16.180	0.20581	3.15418	11	X
K11U11S	17.7	0.15	K11A6	43.125	296.321	0.842	20.105	0.23230	2.76765	36	X
K11U12C	18.2	0.15	K11A6	14.690	130.953	230.800	4.094	0.13891	2.23965	11	X
K11U12H	17.4	0.15	K11A6	357.449	332.470	47.483	6.032	0.24206	2.40556	36	S
K11U17S	16.4	0.15	K11A6	10.307	293.162	71.744	3.737	0.26082	2.66995	36	S
K11U49T	17.8	0.15	K11A6	21.997	316.200	43.206	1.912	0.20080	2.35511	9	X
K11U56X	17.1	0.15	K11A6	17.486	312.840	37.123	12.071	0.28460	2.55387	8	S
K11U57C	17.9	0.15	K11A6	359.134	334.697	50.199	5.860	0.17338	2.17179	7	S
K11U57F	17.0	0.15	K11A6	12.343	287.768	73.717	3.477	0.30281	2.63675	28	S
K11U61H	15.2	0.15	K11A6	256.861	116.225	69.465	18.374	0.21859	3.10973	6	W
K11U62N	17.6	0.15	K11A6	25.875	128.533	211.670	3.318	0.22252	2.19293	9	W
K11U67T	15.6	0.15	K11A6	20.007	314.646	37.430	34.178	0.26029	3.44748	6	S
K11U70Z	17.2	0.15	K11A6	341.417	32.512	68.698	15.622	0.35891	2.55728	5	S
K11U74D	17.2	0.15	K11A6	8.360	318.160	53.033	7.118	0.26236	2.53776	7	ES
K11U74Q	16.2	0.15	K11A6	28.176	294.463	57.139	5.533	0.17412	3.03600	7	S
K11U74Y	17.0	0.15	K11A6	313.058	7.609	86.469	3.730	0.14090	2.86803	5	ES
K11U86J	16.2	0.15	K11A6	316.653	213.173	251.673	6.609	0.20101	3.08294	7	W
K11U88M	17.6	0.15	K11A6	31.052	337.748	31.876	0.381	0.16409	3.05542	5	S
K11U90X	17.2	0.15	K11A6	52.245	293.710	2.094	12.437	0.14414	2.61627	9	X
K11U90Y	17.1	0.15	K11A6	352.367	180.316	192.066	12.244	0.15237	3.14888	7	X
K11U91E	18.5	0.15	K11A6	342.327	0.823	63.668	7.515	0.41419	2.43251	4	W
K11U91G	17.5	0.15	K11A6	1.023	134.215	255.330	15.190	0.44640	2.70433	3	S
K11U92P	16.8	0.15	K11A6	356.358	339.595	49.181	0.837	0.18654	3.13880	9	X
K11U92Q	16.4	0.15	K11A6	86.220	74.086	217.725	1.045	0.05029	2.65955	9	X
K11U92T	16.1	0.15	K11A6	191.124	348.019	208.111	13.335	0.10795	3.09541	9	X
K11U92X	17.2	0.15	K11A6	44.048	111.281	209.444	9.911	0.19419	2.57926	9	X
K11U93O	17.3	0.15	K11A6	41.191	118.080	209.713	8.656	0.15647	2.59793	9	W
K11UA4P	17.9	0.15	K11A6	348.319	6.392	30.444	2.565	0.10194	2.60944	9	X
K11UA4R	18.2	0.15	K11A6	302.967	92.097	3.632	1.476	0.15087	2.39064	9	W
K11UA5B	16.8	0.15	K11A6	74.306	267.314	25.262	7.519	0.15669	3.13383	36	X
K11UA6L	17.4	0.15	K11A6	27.538	90.142	271.669	6.331	0.25962	2.92720	4	ES
K11UA7N	16.2	0.15	K11A6	23.848	306.177	45.595	14.775	0.21427	2.75557	5	S
K11UA8F	16.6	0.15	K119G	357.489	194.949	187.894	14.080	0.25673	2.59854	60	S
K11UB8E	17.1	0.15	K119G	340.371	134.249	272.543	12.830	0.28503	2.64993	60	S
K11UB8U	18.4	0.15	K11A6	315.201	236.167	206.556	2.395	0.17244	2.22529	8	W
K11UC0Y	17.3	0.15	K11A6	41.434	165.761	144.937	14.563	0.21673	2.31648	27	S
K11UC3H	17.5	0.15	K119G	20.503	284.350	49.863	5.420	0.20451	2.41595	50	S
K11UC6B	17.4	0.15	K11A6	307.308	100.493	356.876	6.835	0.07684	2.57705	6	S
K11UD0P	18.6	0.15	K11A6	37.326	348.206	348.221	20.687	0.09887	1.88030	30	S
K11UD0T	17.8	0.15	K11A6	338.068	168.315	265.692	13.986	0.39977	3.10904	25	S
K11UD1J	19.0	0.15	K11A6	320.489	211.729	213.847	5.101	0.24639	2.47358	8	X
K11UD1K	18.2	0.15	K11A6	329.798	47.782	359.376	13.815	0.19475	2.65896	11	X
K11UD1O	18.0	0.15	K11A6	354.602	7.413	2.473	16.937	0.19832	3.13988	8	X
K11UD1P	18.4	0.15	K11A6	30.472	124.150	196.115	11.193	0.17066	2.67852	8	X
K11UD1Q	18.4	0.15	K11A6	293.287	233.484	218.277	2.933	0.19201	2.40139	8	X
K11UD3G	16.2	0.15	K11A6	243.017	295.740	244.616	15.447	0.19799	2.61797	4	W
K11UD3N	16.8	0.15	K11A6	46.522	303.192	358.626	12.853	0.14833	3.04106	4	X
K11UD3S	17.7	0.15	K11AQ	282.585	236.025	213.980	11.875	0.15527	2.56633	3	X
K11UD5J	16.2	0.15	K11A6	0.356	107.115	262.655	4.962	0.16352	2.80209	7	W
K11UD5L	16.7	0.15	K11A6	349.444	92.915	293.153	5.114	0.14572	2.38124	7	X
K11UD7K	16.0	0.15	K11A6	337.127	187.838	231.303	10.671	0.05969	3.12395	7	ES
K11UE0X	16.2	0.15	K11A6	33.867	117.475	246.644	7.989	0.11501	2.99947	4	W
K11UE1H	15.5	0.15	K11A6	323.266	34.831	48.839	17.398	0.19097	3.11568	3	ES
K11UE2R	17.9	0.15	K11A6	355.798	123.699	286.878	2.829	0.27380	2.83772	4	W
K11UE3A	16.9	0.15	K11A6	260.334	279.244	254.743	5.836	0.24062	2.70399	4	W
K11UE4Z	16.7	0.15	K11A6	325.305	82.950	357.968	13.016	0.15958	2.66141	7	S
K11UF0W	17.1	0.15	K11A6	2.526	159.798	208.047	6.188	0.16550	2.43985	36	S
K11UF1T	18.0	0.15	K11A6	76.639	349.915	308.430	17.742	0.04994	1.92337	5	S
K11UF2B	18.6	0.15	K11AQ	2.822	209.507	183.873	8.575	0.47286	2.83337	2	W
K11UF3P	17.9	0.15	K11A6	0.545	293.905	78.701	6.542	0.24260	2.37353	33	S
K11UF3Q	17.7	0.15	K11A6	8.208	5.599	359.919	32.484	0.31572	2.90946	3	S
K11UF3S	16.8	0.15	K11A6	4.523	87.243	284.488	15.791	0.25576	3.03071	3	S
K11UF4J	18.4	0.15	K11A6	17.279	351.759	10.692	26.999	0.14942	2.26843	8	S
K11UF4O	19.1	0.15	K11A6	19.596	312.274	60.063	31.791	0.20948	2.58447	4	W
K11UF5E	16.3	0.15	K11A6	7.685	60.779	317.088	13.564	0.11673	2.58162	24	S
K11UF6R	16.9	0.15	K11AQ	278.152	300.498	212.241	12.715	0.13908	2.59988	3	X
K11UF6X	19.1	0.15	K11AQ	222.270	158.204	346.676	19.824	0.05633	1.78019	2	X
K11UF7V	17.9	0.15	K11AQ	324.846	218.634	208.647	5.153	0.26911	2.92726	2	X
K11UF8R	18.8	0.15	K11AQ	313.515	152.597	295.200	16.468	0.12942	1.84348	3	EX
K11UF8S	20.8	0.15	K11AQ	359.939	330.130	66.636	7.646	0.36799	2.31233	2	X
K11UF8T	18.4	0.15	K11AQ	41.651	243.870	83.246	9.782	0.35017	2.08059	2	X
K11UF8W	19.3	0.15	K11AQ	70.329	7.200	284.908	4.812	0.37557	1.60273	2	S
K11UF8X	17.7	0.15	K11AQ	30.169	40.450	286.420	6.073	0.54201	2.91713	2	S
K11UF8Y	16.4	0.15	K11AQ	113.364	85.843	196.915	8.188	0.18658	2.16417	1	EX
K11UF9G	17.7	0.15	K11A6	331.137	187.720	240.915	17.525	0.07869	1.87667	7	X
K11UF9O	17.6	0.15	K11A6	21.682	340.671	16.650	5.606	0.09125	2.68544	3	X

K11UF9Y	17.0	0.15	K11AQ	24.758	174.638	193.288	13.823	0.23732	2.61336	3	S
K11UF9Z	15.9	0.15	K11AQ	59.141	52.097	292.019	8.504	0.07324	3.12996	3	X
K11UG0F	17.6	0.15	K11AQ	108.673	16.552	265.453	11.185	0.21828	2.15596	2	S
K11UG0G	18.0	0.15	K11AQ	292.804	226.548	250.882	20.990	0.21598	2.11288	1	EX
K11UG0H	17.6	0.15	K11AQ	126.513	6.172	252.655	20.118	0.06524	1.96344	1	EX
K11UG0P	15.9	0.15	K11A6	47.242	304.860	61.437	11.708	0.04989	3.04449	7	W
K11UG0Q	15.7	0.15	K11A6	253.637	306.725	237.789	8.907	0.20568	3.09113	6	W
K11UG0R	17.1	0.15	K11A6	359.848	353.202	57.058	3.688	0.11052	2.59805	6	W
K11UG0S	17.1	0.15	K11A6	13.157	154.171	235.318	15.429	0.21098	3.03489	6	W
K11UG0T	15.7	0.15	K11A6	284.169	82.010	55.075	10.205	0.05754	3.03128	6	W
K11UG0V	16.6	0.15	K11A6	345.680	192.310	240.577	5.927	0.15919	3.12048	6	W
K11UG0Y	18.4	0.15	K11A6	27.894	124.688	233.376	20.970	0.24100	2.37732	6	W
K11UG1D	17.2	0.15	K11A6	104.014	249.149	39.148	7.149	0.12428	2.24138	5	W
K11UG1E	17.8	0.15	K11A6	1.364	141.640	257.095	5.718	0.12532	2.28439	4	W
K11UG1J	18.7	0.15	K11A6	20.094	344.491	26.713	6.073	0.15344	2.35237	4	W
K11UG1K	16.0	0.15	K11A6	336.149	36.835	38.544	11.385	0.09218	2.98044	4	W
K11UG1L	16.6	0.15	K11A6	308.087	121.710	347.858	3.199	0.09008	2.93675	4	W
K11UG1N	17.4	0.15	K11A6	92.632	274.583	28.257	6.419	0.10094	2.29893	4	W
K11UG1O	17.4	0.15	K11A6	40.551	302.430	43.687	19.281	0.21581	2.62217	4	W
K11UG1R	17.5	0.15	K11A6	7.693	125.069	269.542	4.704	0.17015	2.62278	4	W
K11UG1S	17.5	0.15	K11A6	324.055	142.368	311.327	2.528	0.07236	2.99248	4	W
K11UG1U	18.3	0.15	K11A6	331.627	63.558	18.648	3.989	0.19492	2.31397	4	W
K11UG1W	17.1	0.15	K11A6	324.864	56.529	43.117	10.725	0.18041	3.03254	4	W
K11UG1Z	17.8	0.15	K11A6	9.915	271.220	111.111	6.362	0.21477	2.32591	4	W
K11UG2D	18.3	0.15	K11A6	24.265	322.601	47.408	2.957	0.18218	2.22027	4	W
K11UG2N	18.4	0.15	K11AQ	47.084	256.696	95.209	6.051	0.14995	2.84268	3	W
K11UG2O	18.2	0.15	K11AQ	261.841	91.022	83.559	7.344	0.21767	2.41715	3	W
K11UG2P	19.8	0.15	K11AQ	3.827	304.658	99.169	4.106	0.21232	2.54853	3	W
K11UG2Q	16.3	0.15	K11AQ	251.340	108.985	72.894	14.125	0.17165	3.13358	3	W
K11UG2S	17.8	0.15	K11AQ	259.502	94.042	79.301	12.049	0.16898	3.01670	3	W
K11UG2T	20.4	0.15	K11AQ	342.625	241.180	198.729	7.381	0.26629	2.60380	3	W
K11UG2U	17.6	0.15	K11AQ	31.947	146.450	213.407	13.647	0.26161	3.04644	3	W
K11UG2V	18.0	0.15	K11AQ	343.808	231.234	202.416	9.228	0.12570	2.69451	3	W
K11UG2X	17.0	0.15	K11A6	32.073	310.674	41.735	7.642	0.16336	2.32132	9	W
K11UG2Z	16.4	0.15	K11A6	39.247	7.139	346.024	3.648	0.14663	3.01616	8	W
K11UG3D	18.3	0.15	K11AQ	197.036	352.007	221.868	19.270	0.03950	1.93359	2	W
K11UG3G	16.4	0.15	K11A6	50.563	89.573	249.028	9.194	0.19581	3.21053	8	W
K11UG3H	18.3	0.15	K11A6	354.036	20.434	31.050	8.044	0.23815	2.67054	8	W
K11UG3K	17.7	0.15	K11A6	278.269	235.303	264.884	5.831	0.11375	2.35777	8	W
K11UG3O	18.7	0.15	K11A6	359.087	30.214	12.066	2.728	0.17455	2.35694	8	W
K11UG3V	18.4	0.15	K11A6	335.292	203.818	238.497	4.552	0.18071	2.40853	4	W
K11UG3Y	16.8	0.15	K11A6	347.110	38.728	25.728	5.302	0.14369	3.11197	8	W
K11UG6U	18.1	0.15	K11AQ	337.511	305.806	122.696	8.392	0.22632	2.30479	2	W
K11UG7Y	16.7	0.15	K11AQ	12.069	191.081	203.847	17.481	0.18770	3.08727	5	W
K11UG7Z	18.9	0.15	K11AQ	22.183	118.901	208.227	14.117	0.20537	2.34960	3	W
K11UG8A	19.1	0.15	K11AQ	346.900	200.033	196.830	15.681	0.29694	2.58402	3	W
K11UG8K	17.8	0.15	K11A6	43.602	107.279	192.393	11.069	0.18511	3.06557	8	W
K11UG8L	17.5	0.15	K11AQ	351.939	172.640	202.711	9.739	0.09072	3.04379	2	W
K11UG8N	18.4	0.15	K11A6	350.332	175.465	201.091	9.191	0.17664	2.74781	8	W
K11UG8U	16.6	0.15	K11A6	83.670	359.866	274.913	7.972	0.11755	2.83596	8	W
K11UG8V	16.8	0.15	K11AQ	321.995	236.100	206.605	7.702	0.18975	3.14228	3	W

## New observations:

K04F11H	C2011	10	27.27538	03	19	28.02	+05	20	42.0	18.7	VrEU091703
K04F11H	C2011	10	27.28447	03	19	27.33	+05	20	33.1	18.5	VrEU091703
K04F11H	C2011	10	27.29362	03	19	26.65	+05	20	25.0	19.0	VrEU091703
K04F11H	C2011	10	27.30280	03	19	25.96	+05	20	16.2	19.2	VrEU091703
K06F09J	C2011	10	27.36762	03	21	47.77	+11	44	17.3	20.7	VrEU091G96
K06F09J	C2011	10	27.37341	03	21	47.26	+11	44	15.1	21.0	VrEU091G96
K06F09J	C2011	10	27.37919	03	21	46.87	+11	44	12.4	21.8	VrEU091G96
K06F09J	C2011	10	27.38495	03	21	46.29	+11	44	09.6	20.5	VrEU091G96
K11E17F	C2011	10	27.29370	03	38	55.68	+25	58	44.3		oEU091691
K11E17F	C2011	10	27.31148	03	38	52.34	+25	58	36.7		oEU091691
K11E17F	C2011	10	27.32925	03	38	48.98	+25	58	29.3		oEU091691
K11G65X	C2011	10	27.27937	03	02	22.81	+01	35	36.5	19.9	VrEU091703
K11G65X	C2011	10	27.28846	03	02	20.11	+01	36	17.2	19.3	VrEU091703
K11G65X	C2011	10	27.29765	03	02	17.23	+01	36	58.2	19.6	VrEU091703
K11G65X	C2011	10	27.30684	03	02	14.31	+01	37	39.5	19.2	VrEU091703
K11K04F	C2011	10	27.24865	01	36	36.03	+02	20	39.6	17.4	VrEU091703
K11K04F	C2011	10	27.25559	01	36	35.53	+02	20	55.6	17.6	VrEU091703
K11K04F	C2011	10	27.26254	01	36	35.17	+02	21	11.0	17.5	VrEU091703
K11K04F	C2011	10	27.26943	01	36	34.77	+02	21	25.7	17.6	VrEU091703
K11K04F	C2011	10	27.61926	01	36	18.33	+02	34	02.1	18.4	VuEU091379
K11K04F	C2011	10	27.63872	01	36	17.24	+02	34	45.4		uEU091379
K11K04F	C2011	10	27.65814	01	36	16.26	+02	35	26.4		uEU091379
K11L19J	JC2011	10	27.31917	01	22	50.13	+16	05	39.7	19.6	VoEU091695

K11L19J	JC2011	10	27.33147	01	22	50.63	+16	05	34.8	19.7	VoEU091695
K11L19J	JC2011	10	27.33772	01	22	50.89	+16	05	32.6	19.6	VoEU091695
K11O24P	KC2011	10	27.37006	19	18	59.28	-35	39	36.6		oEU091474
K11O24P	KC2011	10	27.38659	19	18	59.49	-35	39	47.6		oEU091474
K11O24P	KC2011	10	27.39341	19	18	59.53	-35	39	52.3		oEU091474
K11Q48D	C2011	10	27.41713	20	53	27.64	-20	41	23.8	19.7	RoEU091474
K11Q48D	C2011	10	27.41916	20	53	27.67	-20	41	21.2	20.4	RoEU091474
K11Q48D	C2011	10	27.42095	20	53	27.70	-20	41	19.0	19.9	RoEU091474
K11S25O	KC2011	10	28.04591	03	52	48.49	+28	59	01.6	19.3	RuEU091104
K11S25O	KC2011	10	28.04958	03	52	48.59	+28	59	04.5		uEU091104
K11S25R	C2011	10	27.54005	00	40	06.79	-29	39	39.3	20.5	RoEU091474
K11S25R	C2011	10	27.54293	00	40	07.40	-29	39	42.8	20.1	RoEU091474
K11S25R	C2011	10	27.54734	00	40	08.25	-29	39	47.1	20.6	RoEU091474
K11S25R	C2011	10	27.55080	00	40	08.88	-29	39	51.5	20.5	RoEU091474
K11S26O	C2011	10	27.56100	00	43	54.43	-61	12	50.7	20.2	RoEU091474
K11S26O	C2011	10	27.56898	00	43	55.10	-61	13	17.5		oEU091474
K11S26O	C2011	10	27.57176	00	43	55.19	-61	13	25.3		oEU091474
K11S69R	C2011	10	27.73725	02	42	28.22	+23	38	00.6	18.4	VuEU091379
K11S69R	C2011	10	27.73947	02	42	28.65	+23	37	59.2		uEU091379
K11S69R	C2011	10	27.74628	02	42	29.95	+23	37	54.1		uEU091379
K11S69R	C2011	10	27.74851	02	42	30.36	+23	37	52.3		uEU091379
K11SA2L	KC2011	10	26.36934	04	16	54.12	+12	21	45.3	17.8	RtEU091H47
K11SA2L	KC2011	10	26.37935	04	16	54.48	+12	21	53.1	17.9	RtEU091H47
K11SA2L	KC2011	10	26.38997	04	16	54.86	+12	22	01.1	17.9	RtEU091H47
K11SA2L	C2011	10	27.37515	04	17	36.06	+12	35	12.3	17.3	VrEU091703
K11SA2L	C2011	10	27.38356	04	17	36.31	+12	35	19.0	17.1	VrEU091703
K11SA2L	C2011	10	27.39206	04	17	36.63	+12	35	26.2	17.1	VrEU091703
K11SA2L	C2011	10	27.39406	04	17	36.70	+12	35	27.8	17.4	VrEU091G96
K11SA2L	C2011	10	27.40064	04	17	36.99	+12	35	35.2	16.7	VrEU091703
K11SA2L	C2011	10	27.40101	04	17	36.92	+12	35	33.6	17.4	VrEU091G96
K11SA2L	C2011	10	27.40796	04	17	37.17	+12	35	39.5	17.0	VrEU091G96
K11SA2L	C2011	10	27.41485	04	17	37.39	+12	35	44.8	17.3	VrEU091G96
K11SA2L	KC2011	10	28.03398	04	18	02.50	+12	44	15.9	17.5	RuEU091104
K11SA2L	KC2011	10	28.03766	04	18	02.61	+12	44	18.9	17.7	RuEU091104
K11SA2L	KC2011	10	28.04134	04	18	02.75	+12	44	21.9		uEU091104
K11SH3D	HC2011	10	28.20542	02	52	36.59	+13	55	40.7		oEU091291
K11SH3D	HC2011	10	28.20867	02	52	36.23	+13	55	39.1		oEU091291
K11SH3D	HC2011	10	28.21192	02	52	35.94	+13	55	36.7		oEU091291
K11T00J	HC2011	10	28.17401	01	05	11.66	-01	42	52.6		oEU091291
K11T00J	HC2011	10	28.17725	01	05	11.45	-01	42	51.3		oEU091291
K11T00J	HC2011	10	28.18049	01	05	11.17	-01	42	49.7		oEU091291
K11T04A	KC2011	10	27.71731	21	50	19.84	+39	07	07.4	18.8	VuEU091C73
K11T04A	KC2011	10	27.72185	21	50	19.38	+39	07	43.6	18.8	VuEU091C73
K11T04A	KC2011	10	27.72388	21	50	19.13	+39	07	59.7	18.3	VuEU091C73
K11T04A	KC2011	10	27.72561	21	50	19.00	+39	08	12.9	18.8	VuEU091C73
K11T04A	KC2011	10	27.72733	21	50	18.86	+39	08	27.3	18.6	VuEU091C73
K11T04A	KC2011	10	27.72904	21	50	18.64	+39	08	40.3	18.6	VuEU091C73
K11T04A	KC2011	10	27.73044	21	50	18.50	+39	08	51.9	18.5	VuEU091C73
K11T04A	HC2011	10	28.22227	21	49	39.71	+40	13	23.1		oEU091291
K11T04A	HC2011	10	28.22414	21	49	39.52	+40	13	37.4		oEU091291
K11T04A	HC2011	10	28.22600	21	49	39.36	+40	13	51.9		oEU091291
K11T05K	KC2011	10	27.45093	22	48	32.29	-28	46	28.8	21.2	RoEU091474
K11T05K	KC2011	10	27.45619	22	48	31.15	-28	46	41.1	21.5	RoEU091474
K11T05K	KC2011	10	27.46144	22	48	29.96	-28	46	54.7	21.8	RoEU091474
K11T09N	JC2011	10	27.27669	01	44	39.08	-00	31	55.3	16.8	VoEU091695
K11T09N	JC2011	10	27.27764	01	44	39.41	-00	31	54.8	17.1	VoEU091695
K11T09N	JC2011	10	27.27831	01	44	39.64	-00	31	54.5	16.9	VoEU091695
K11T09N	JC2011	10	27.27898	01	44	39.87	-00	31	54.0	16.9	VoEU091695
K11T09N	C2011	10	27.53368	01	46	17.76	-00	29	53.9	17.4	VuEU091379
K11T09N	C2011	10	27.53553	01	46	18.40	-00	29	53.3		uEU091379
K11T09N	C2011	10	27.53738	01	46	19.04	-00	29	52.1		uEU091379
K11T09N	C2011	10	27.54131	01	46	20.42	-00	29	50.1		uEU091379
K11T09N	C2011	10	27.54316	01	46	21.06	-00	29	49.0		uEU091379
K11T09N	C2011	10	27.57469	01	46	31.90	-00	29	33.3		uEU091379
K11T09N	C2011	10	27.58233	01	46	34.48	-00	29	30.1		uEU091379
K11T09N	C2011	10	27.59183	01	46	37.84	-00	29	25.5		uEU091379
K11T09N	C2011	10	27.59763	01	46	39.70	-00	29	22.8		uEU091379
K11U00A	C2011	10	27.43808	21	44	17.22	-03	42	05.1	18.9	RoEU091474
K11U00A	C2011	10	27.43935	21	44	17.51	-03	42	02.5	18.8	RoEU091474
K11U00A	C2011	10	27.44039	21	44	17.74	-03	42	01.0	18.7	RoEU091474
K11U00D	KC2011	10	27.70168	23	44	01.63	+33	45	42.0	18.7	VuEU091C73
K11U00D	KC2011	10	27.70333	23	44	00.18	+33	45	45.5	18.6	VuEU091C73
K11U00D	KC2011	10	27.70497	23	43	58.69	+33	45	48.8	18.6	VuEU091C73
K11U00D	KC2011	10	27.70664	23	43	57.09	+33	45	52.5	18.6	VuEU091C73
K11U00D	KC2011	10	27.70836	23	43	55.56	+33	45	56.0	18.8	VuEU091C73
K11U00D	KC2011	10	27.71021	23	43	53.86	+33	45	58.2	18.2	VuEU091C73

K11U00D	KC2011	10	27.71189	23	43	52.25	+33	46	02.4	18.6	VuEU091C73
K11U00D	KC2011	10	27.71385	23	43	50.45	+33	46	06.9	18.5	VuEU091C73
K11U00T	HC2011	10	28.19421	03	24	11.85	+26	47	32.7		oEU091291
K11U00T	HC2011	10	28.19783	03	24	11.53	+26	47	33.6		oEU091291
K11U20G	KC2011	10	27.40160	20	17	55.51	-16	17	43.7	19.7	RoEU091474
K11U20G	KC2011	10	27.40392	20	17	53.68	-16	18	03.5	20.2	RoEU091474
K11U20G	KC2011	10	27.40626	20	17	51.88	-16	18	23.2	19.9	RoEU091474
K11U20G	KC2011	10	27.40857	20	17	50.04	-16	18	43.3	19.4	RoEU091474
K11U20H	C2011	10	27.42604	22	47	50.79	-04	05	13.6	19.5	RoEU091474
K11U20H	C2011	10	27.42743	22	47	50.68	-04	05	04.9	19.6	RoEU091474
K11U20H	C2011	10	27.42870	22	47	50.62	-04	04	57.0	19.4	RoEU091474
K11U20H	C2011	10	27.42998	22	47	50.52	-04	04	49.1	19.3	RoEU091474
K11U20T	JC2011	10	27.28907	00	05	03.99	+23	20	09.8	20.4	VoEU091695
K11U20T	JC2011	10	27.29032	00	05	03.74	+23	20	08.1	20.5	VoEU091695
K11U20T	JC2011	10	27.29128	00	05	03.56	+23	20	06.5	20.4	VoEU091695
K11U20T	JC2011	10	27.29225	00	05	03.35	+23	20	05.4	20.5	VoEU091695
K11U20T	HC2011	10	28.08273	00	02	38.05	+23	01	09.6		oEU091291
K11U20T	HC2011	10	28.08459	00	02	37.68	+23	01	07.1		oEU091291
K11U20T	HC2011	10	28.08644	00	02	37.33	+23	01	04.6		oEU091291
K11U20U	HC2011	10	28.11895	00	13	44.53	+21	51	11.8		oEU091291
K11U20U	HC2011	10	28.12220	00	13	44.24	+21	51	11.3		oEU091291
K11U20U	HC2011	10	28.12544	00	13	43.90	+21	51	11.0		oEU091291
K11U21E	HC2011	10	28.07515	22	13	48.64	-00	56	55.1		oEU091291
K11U21E	HC2011	10	28.07718	22	13	48.66	-00	56	52.3		oEU091291
K11U21E	HC2011	10	28.07923	22	13	48.68	-00	56	49.8		oEU091291
K11U21G	C2011	10	27.48206	23	36	20.99	-44	43	11.4	19.7	RoEU091474
K11U21G	C2011	10	27.48403	23	36	20.54	-44	43	10.2	19.7	RoEU091474
K11U21G	C2011	10	27.48588	23	36	20.07	-44	43	09.4	19.4	RoEU091474
K11U21L	C2011	10	26.45045	10	10	40.44	+03	06	46.0	18.4	VcEU091H06
K11U21L	C2011	10	26.45267	10	10	40.91	+03	06	40.2	18.3	VcEU091H06
K11U21L	JC2011	10	27.48205	10	14	20.69	+02	20	50.6	18.9	VoEU091695
K11U21L	JC2011	10	27.48375	10	14	21.05	+02	20	45.9	18.8	VoEU091695
K11U21L	JC2011	10	27.48446	10	14	21.21	+02	20	44.0	18.8	VoEU091695
K11U21L	%C2011	10	27.60680010	14	47.56	+02	15	15.0		18.3	RtEU091F65
K11U21L	%C2011	10	27.60781510	14	47.78	+02	15	12.3		18.3	RtEU091F65
K11U21L	%C2011	10	27.60880910	14	47.99	+02	15	09.7		18.2	RtEU091F65
K11U21L	%C2011	10	27.60983810	14	48.21	+02	15	06.8		18.2	RtEU091F65
K11U21L	%C2011	10	27.61083610	14	48.43	+02	15	04.2		18.3	RtEU091F65
K11U21L	%C2011	10	27.61185410	14	48.64	+02	15	01.3		18.3	RtEU091F65
K11U21L	KC2011	10	28.16404	10	16	47.79	+01	49	59.8	18.1	RuEU091104
K11U21L	KC2011	10	28.16980	10	16	49.03	+01	49	44.2	18.0	RuEU091104
K11U21L	KC2011	10	28.17568	10	16	50.30	+01	49	28.1	18.1	RuEU091104
K11U63S	HC2011	10	28.23216	23	29	08.53	+34	13	20.9		oEU091291
K11U63S	HC2011	10	28.23414	23	29	08.29	+34	13	18.2		oEU091291
K11U63S	HC2011	10	28.23611	23	29	08.04	+34	13	15.6		oEU091291
K11U63T	C2011	10	27.29539	02	36	04.51	-33	39	05.7	19.8	VoEU091807
K11U63T	C2011	10	27.30018	02	36	07.38	-33	39	58.0	19.7	VoEU091807
K11U63U	C2011	10	27.00069	00	36	06.88	-18	00	27.1	19.1	VoEU091807
K11U63U	C2011	10	27.00601	00	36	04.49	-18	03	18.7	19.1	VoEU091807
K11U63U	C2011	10	27.01133	00	36	02.12	-18	06	10.4	19.1	VoEU091807
K11U63U	C2011	10	27.52509	00	32	07.39	-22	58	47.9	18.7	RoEU091474
K11U63U	C2011	10	27.52567	00	32	07.12	-22	59	07.6	18.7	RoEU091474
K11U63U	C2011	10	27.52625	00	32	06.81	-22	59	28.6	18.7	RoEU091474
K11U63U	C2011	10	27.52683	00	32	06.49	-22	59	49.7	18.9	RoEU091474
K11U63U	C2011	10	27.52740	00	32	06.17	-23	00	10.3	18.6	RoEU091474
K11U63V	JC2011	10	27.30285	00	59	39.61	+17	21	32.2	20.7	VoEU091695
K11U63V	JC2011	10	27.30426	00	59	39.38	+17	21	32.4	21.0	VoEU091695
K11U63V	JC2011	10	27.30568	00	59	39.18	+17	21	32.5	20.9	VoEU091695
K11U63V	HC2011	10	28.10838	00	57	37.61	+17	24	35.9		oEU091291
K11U63V	HC2011	10	28.11128	00	57	37.13	+17	24	36.2		oEU091291
K11U64D	C2011	10	27.31473	02	54	48.81	+11	07	05.8	18.9	VrEU091703
K11U64D	C2011	10	27.32034	02	54	52.34	+11	05	35.6	18.8	VrEU091703
K11U64D	C2011	10	27.32598	02	54	56.01	+11	04	04.5	19.0	VrEU091703
K11U64D	C2011	10	27.33162	02	54	59.65	+11	02	33.3	19.1	VrEU091703
02061	KC2011	10	27.67994	18	49	57.97	-19	43	44.1	20.0	VuEU091C73
02061	KC2011	10	27.68475	18	49	58.97	-19	43	43.2	19.5	VuEU091C73
02212	C2011	10	27.29370	03	38	25.97	+25	56	38.6		oEU091691
02212	C2011	10	27.31148	03	38	24.80	+25	56	36.9		oEU091691
02212	C2011	10	27.32925	03	38	23.69	+25	56	35.1		oEU091691
03200	C2011	10	27.36530	04	30	52.55	+40	06	42.6	17.3	RtEU091H47
03200	C2011	10	27.36749	04	30	52.28	+40	06	43.1	17.5	RtEU091H47
03200	C2011	10	27.38211	04	30	50.61	+40	06	44.0	17.6	RtEU091H47
05653	C2011	10	27.75916	00	05	45.47	+02	52	15.0	18.1	VuEU091C73
05653	C2011	10	27.76803	00	05	44.82	+02	52	13.7	18.1	VuEU091C73
05653	C2011	10	27.77174	00	05	44.59	+02	52	13.6	18.1	VuEU091C73
07341	C2011	10	27.51902	23	23	16.56	+17	39	09.9	16.9	VuEU091379

07341	C2011	10	27.52087	23	23	16.33	+17	39	08.4	16.7	VuEU091379
07341	C2011	10	27.52691	23	23	15.49	+17	39	05.4	16.5	VuEU091379
08567	C2011	10	26.42668	06	26	14.50	+06	27	28.0	15.7	RtEU091H47
08567	C2011	10	26.43016	06	26	14.55	+06	27	25.5	15.7	RtEU091H47
08567	C2011	10	26.43305	06	26	14.59	+06	27	23.2	15.7	RtEU091H47
08567	C2011	10	26.43612	06	26	14.64	+06	27	20.9	15.8	RtEU091H47
20826	C2011	10	27.73407	02	09	25.04	+57	33	50.2	18.5	VuEU091C73
20826	C2011	10	27.73829	02	09	24.58	+57	33	52.5	18.6	VuEU091C73
20826	C2011	10	27.74214	02	09	23.73	+57	33	53.9	18.5	VuEU091C73
20826	C2011	10	27.76374	02	09	20.77	+57	33	58.7	18.4	VuEU091C73
37336	KC2011	10	27.79089	20	17	34.06	+29	14	37.5	16.1	RoEU091J16
37336	KC2011	10	27.79314	20	17	34.87	+29	14	31.9	16.3	RoEU091J16
37336	KC2011	10	27.79881	20	17	36.91	+29	14	18.2	16.1	RoEU091J16
67367	C2011	10	27.61037	10	30	07.074	+06	37	20.80	19.8	wLEU091F51
67367	C2011	10	27.61549	10	30	08.123	+06	37	11.91	19.8	wLEU091F51
67367	C2011	10	27.62053	10	30	09.146	+06	37	03.09	19.8	wLEU091F51
67367	C2011	10	27.62559	10	30	10.184	+06	36	54.34	19.8	wLEU091F51
85839	C2011	10	27.44535	07	53	09.85	+30	53	52.5	20.6	VrEU091703
85839	C2011	10	27.45221	07	53	10.53	+30	53	53.1	19.4	VrEU091703
85839	C2011	10	27.45909	07	53	11.04	+30	53	53.2	19.6	VrEU091703
85839	C2011	10	27.46604	07	53	11.65	+30	53	55.9	20.1	VrEU091703
96744	C2011	10	27.25153	01	45	54.39	-01	07	22.4	19.2	VrEU091703
96744	C2011	10	27.25847	01	45	53.78	-01	07	27.2	19.1	VrEU091703
96744	C2011	10	27.27232	01	45	52.74	-01	07	36.5	19.0	VrEU091703
D8524	C2011	10	27.41351	07	51	26.92	+24	41	51.5	15.3	VrEU091703
D8524	C2011	10	27.42205	07	51	29.77	+24	41	15.0	15.2	VrEU091703
D8524	C2011	10	27.43061	07	51	32.65	+24	40	38.3	15.2	VrEU091703
D8524	C2011	10	27.43926	07	51	35.53	+24	40	01.4	15.2	VrEU091703
E4900	C2011	10	26.62923	06	41	09.400	-14	24	00.37	20.5	rLEU091F51
E4900	C2011	10	26.63417	06	41	09.301	-14	24	10.95	20.6	rLEU091F51
L9071	KC2011	10	27.86033	00	12	57.28	+09	26	24.1	16.2	RoEU091J16
L9071	KC2011	10	27.86717	00	12	56.82	+09	26	02.6	16.2	RoEU091J16
L9071	KC2011	10	27.87463	00	12	56.28	+09	25	38.4	16.0	RoEU091J16
L9071	KC2011	10	27.88198	00	12	55.78	+09	25	14.7	15.9	RoEU091J16
Q7337	C2011	10	27.48657	09	08	31.12	+16	39	08.7	19.3	VrEU091G96
Q7337	C2011	10	27.49007	09	08	30.91	+16	39	21.3	19.3	VrEU091G96
Q7337	C2011	10	27.49353	09	08	30.69	+16	39	33.8	19.3	VrEU091G96
Q7337	C2011	10	27.49702	09	08	30.48	+16	39	46.4	18.9	VrEU091G96
T7418	KC2011	10	27.82072	22	46	22.03	+24	07	16.1	16.2	RoEU091J16
T7418	KC2011	10	27.82803	22	46	21.15	+24	07	01.4	16.1	RoEU091J16

## New natural satellite orbits:

Object	H	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
J006S	7.9	K118R	55.201	351.295	51.532	30.321	0.14375	0.07605	27907	X
J011S	10.6	K118R	178.328	60.358	159.671	165.891	0.36059	0.14905	26745	X
J012S	11.6	K118R	192.313	120.183	65.163	149.465	0.38044	0.13605	21942	X
J013S	12.9	K118R	95.276	300.221	201.982	28.096	0.16879	0.07448	13559	X
J017S	14.2	K118R	335.157	47.707	315.222	142.786	0.33853	0.15741	4404	X
J018S	14.3	K118R	194.605	239.923	196.223	45.702	0.22846	0.04940	13152	X
U017S	7.3	K118R	16.201	15.830	257.774	152.770	0.50099	0.08156	10008	X

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