

List of Interplanetary Coronal Mass Ejections since January 2008 to August 2014

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No. (a)	First appearance in STEREO-A COR2 (b)							Direction of the ICME (c)				STEREO-A central PA (d)	STEREO-B central PA (f)	SOHO LASCO C3 central PA (g)	Separation angle STEREO-A with Earth (h)	Separation angle STEREO-B with Earth (i)	Candidates for Near-Earth ICME (j)
	year	month	day	h	m	s	doy	STEREO-A	STEREO-B	SOHO LASCO C3	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	
2008																	
1	2008	1	2	10	23	20	2.433	E	E	E	100	100	90	22.889	21.201		
2	2008	1	23	0	37	54	23.026	S	SE	SE	190	130	150	21.495	23.443		
3	2008	1	29	1	37	54	29.068	W	W	W	270	275	85	21.599	23.537		
4	2008	2	12	8	53	20	43.370	SW	SW	SW	115	240	240	21.892	23.672		
5	2008	2	15	10	7	54	46.422	E	E	E	75	80	90	21.967	23.686		
6	2008	2	27	11	53	20	58.495	W	W	W	280	85	285	22.322	23.703		
7	2008	3	18	9	37	54	78.401	SE	SE	SE	120	120	120	23.111	23.69		
8	2008	3	22	17	53	20	82.745	E	E	E	90	90	90	23.325	23.689		
9	2008	3	25	19	23	20	85.808	E	E	E	100	90	90	23.484	23.691		
10	2008	4	5	16	23	20	96.683	W	W	W	280	280	280	24.104	23.726		
11	2008	4	9	11	37	54	100.485	SW	SW	SW	250	240	250	24.341	23.751		
12	2008	4	14	6	23	20	105.266	SE	SE	SE	120	120	120	24.657	23.729		
13	2008	4	26	14	53	20	117.620	E	halo	NE	70	halo	80	25.558	23.957	candidate	
14	2008	5	2	17	53	20	123.745	SW	SW	SW	240	220	240	26.043	24.08		
15	2008	5	14	12	23	20	135.516	SE	SE	SE	110	110	110	27.043	24.399		
16	2008	5	17	10	37	54	138.443	E	E	E	100	100	90	27.306	24.495		
17	2008	5	23	21	0	54	144.876	S	SW	SW	210	250	240	27.9	24.73		
18	2008	5	25	19	53	20	146.829	E	E	E	80	80	80	28.084	24.809		
19	2008	6	1	20	23	20	153.850	E	NE	E	90	80	90	28.758	25.123		

20	2008	6	12	6	7	54	164.255	E	E	E	70	70	70	29.796	25.675	
21	2008	7	7	14	53	20	189.620	SE	SE	SE	110	130	130	32.394	27.401	
22	2008	7	31	15	37	54	213.651	W	W	W	280	280	290	34.827	29.53	
23	2008	8	30	14	53	20	243.620	E	W	S - halo	100	260	180	37.55	32.727	candidate
24	2008	10	17	9	23	0	291.391	W	E	halo	260	110	halo	40.658	38.46	
25	2008	11	3	0	53	0	308.037	E	W	NW	70	290	300	41.336	40.43	candidate
26	2008	11	7	19	23	0	312.808	W	W	W	290	290	280	41.495	40.974	
27	2008	11	24	8	57	30	329.373	W	W	W	270	270	270	41.949	42.753	
28	2008	12	7	5	37	30	342.234	E	E	E	100	90	90	42.205	43.993	
29	2008	12	8	17	53	0	343.745	W	W	W	280	280	280	42.232	44.129	
30	2008	12	16	4	37	30	351.193	E	E	E	100	90	90	42.357	44.76	
31	2008	12	27	5	53	0	362.245	NE	NW	NE	70	300	60	42.52	45.592	
2009																
32	2009	1	8	19	23	0	8.808	E	W	E	90	260	90	42.701	46.366	candidate
33	2009	1	14	6	53	0	14.287	E	W	E	90	270	90	42.788	46.641	candidate
34	2009	1	21	22	53	0	21.953	E	W	W	90	270	270	42.919	46.967	candidate
35	2009	1	30	22	23	0	30.933	W	W	W	290	280	280	43.094	47.263	
36	2009	1	31	5	37	30	31.234	E	E	E	90	90	90	43.1	47.271	
37	2009	2	10	12	53	0	41.537	W	W	W	270	270	270	43.351	47.488	
38	2009	3	7	18	7	30	66.755	W	E	E	270	80	110	44.224	47.592	
39	2009	3	18	4	7	30	77.172	NE	NW	E	285	55	70	44.72	47.5	candidate
40	2009	3	26	15	53	0	85.662	W	SE	S	270	110	170	45.181	47.397	
41	2009	4	14	2	37	30	104.109	E	NW	E	80	300	80	46.381	47.137	candidate
42	2009	4	15	0	7	30	105.005	W	E	W	270	90	270	46.446	47.125	
43	2009	5	13	12	23	0	133.516	E	E	E	80	80	90	48.785	46.924	
44	2009	6	13	11	53	0	164.495	E	W	E	90	290	90	51.79	47.387	candidate
45	2009	6	26	11	7	30	177.464	E	E	E	90	80	90	53.111	47.87	
46	2009	6	30	10	53	0	181.453	E	W	E	90	260	90	53.519	48.055	
47	2009	7	23	8	37	30	204.359	W	E	E	270	90	90	55.825	49.454	
48	2009	7	31	15	53	0	212.662	NE	NE	NE	40	70	70	56.624	50.103	
49	2009	8	4	18	7	30	185.755	E	W	W	100	270	260	57.009	50.448	candidate
50	2009	8	8	17	7	30	189.714	E	W	E	90	270 ?	90	57,375	50,798	candidate
51	2009	8	19	2	24	0	200.100	W	E	W	280	80	300	58.292	51.791	
52	2009	8	31	2	54	0	212.121	E	E	E	60	80	80	59.274	53.065	

53	2009	9	3	12	24	0	246.517	E	W	W	90	270	270	59.535	53.445	candidate
54	2009	9	9	5	54	0	252.246	E	E	E	90	90	90	59.959	54.106	
55	2009	9	13	22	39	0	256.944	W	E	W	270	90	270	60.288	54.667	
56	2009	9	27	0	24	0	270.017	E	E	E	90	90	90	61.115	56.301	
57	2009	9	30	12	24	0	273.517	E	E	E	90	90	90	61.316	56.752	
58	2009	10	31	5	9	15	304.215	E	W	SW	90	270	250	62.699	60.86	candidate
59	2009	11	5	0	39	0	309.027	E	E	E	90	90	90	62.861	61.507	
60	2009	11	13	21	9	15	317.881	W	E	E	270	90	270	63.12	62.688	
61	2009	11	15	13	9	15	319.548	W	E	W	270	90	270	63.164	62.908	
62	2009	11	16	17	9	15	320.715	W	E	W	270	90	270	63.193	63.061	
63	2009	11	18	10	9	15	322.423	SW	E	E	240	90	90	63.236	63.285	
64	2009	11	21	7	54	0	325.329	E	W	E	90	270	90	63.305	63.663	candidate
65	2009	12	8	5	44	0	342.239	E	W	W	80	270	270	63.653	65.752	candidate
66	2009	12	16	3	9	15	350.131	E	W	E - halo	80	280	60	63.787	66.655	candidate
67	2009	12	22	18	39	0	356.777	E	W	E - halo	80	280	60	63.893	67.37	candidate
68	2010															
69	2010	1	5	19	39	0	5.819	SW	E	E	260	100	90	64.126	68.712	
70	2010	1	17	4	54	0	17.204	SW	E	E	250	100	100	64.331	69.623	
71	2010	2	1	17	9	15	32.715	S	SW	SW	140	240	250	64.711	70.617	
72	2010	2	8	6	9	15	39.256	E	W	E	90	270	270	64.866	70.863	candidate
73	2010	2	10	17	9	15	41.715	E	SW	E	90	250	90	64.94	70.959	candidate
74	2010	2	11	13	54	0	42.579	SE	SW	W	100	260	260	64.967	70.99	candidate
75	2010	2	12	12	24	0	43.517	E	W	NW	90	280	300	64.996	71.023	candidate
76	2010	2	12	23	9	15	43.965	NE	W	W	60	280	300	65.01	71.039	candidate
77	2010	2	14	1	9	15	45.048	NE	W	W	40	280	280	65.045	71.075	candidate
78	2010	2	20	12	9	15	51.506	NW	NE	NE	320	60	70	65.268	71.225	
79	2010	2	22	11	9	15	53.465	W	E	W	280	80	280	65.342	71.297	
80	2010	2	24	3	39	0	55.152	W	E	E	270	90	90	65.408	71.33	
81	2010	2	24	17	39	0	55.735	SE	SW	SE	110	230	120	65.431	71.34	candidate
82	2010	2	28	14	24	0	59.600	NW	NE	N	310	40	340	65.591	71.396	
83	2010	3	1	1	54	0	60.079	SE	SW	W	130	250	260	65.611	71.402	candidate
84	2010	3	1	23	54	15	61.006	E	E	E	90	90	90	65.651	71.412	
85	2010	3	6	7	54	0	65.329	E	W	E	90	270	90	65.847	71.445	candidate
86	2010	3	6	15	9	15	65.631	W	E	W	260	90	270	65.861	71.447	

87	2010	3	10	7	24	0	69.308	NE	NW	NE	70	290	70	66.038	71.457	candidate
88	2010	3	13	17	54	0	72.746	NE	NW	NW	50	290	310	66.211	71.454	
89	2010	3	14	8	24	0	73.350	W	E	E	270	90	100	66.242	71.452	
90	2010	3	19	14	39	0	78.610	E	W	W	90	270	270	66.526	71.42	candidate
91	2010	3	26	8	24	0	85.350	E	W	W	90	270	280	66.923	71.34	candidate
92	2010	3	29	9	24	0	82.392	W	E	W - halo	280	90	300	67.114	71.29	
93	2010	3	30	4	54	0	89.204	NW	NE	NW	300	50	300	67.168	71.275	
94	2010	3	30	5	39	0	89.235	SE	SW	SE	120	240	120	67.166	71.276	
95	2010	4	3	9	54	0	93.413	SE	SW	halo	120	240	halo	67.444	71.194	candidate
96	2010	4	6	1	54	0	96.079	E	W	E	90	270	90	67.626	71.137	candidate
97	2010	4	8	4	24	0	98.183	E	W	halo	90	270	halo	67.774	71.09	candidate
98	2010	4	8	7	54	0	98.329	NE	NE	NE	40	40	40	67.784	71.087	
99	2010	4	11	0	9	15	101.006	SW	SE	SW	250	130	230	67.975	71.024	
100	2010	4	12	2	39	0	102.110	SW	SE	SW	240	130	240	68.056	70.997	
101	2010	4	13	10	54	0	103.454	NE	NW	NW	20	310	310	68.155	70.964	
102	2010	4	19	0	9	15	109.006	SE	SW	SW	120	250	240	68.576	70.822	
103	2010	4	19	19	54	0	109.829	NE	NW	NW	30	290	330	68.64	70.801	
104	2010	5	3	2	39	0	123.110	SW	SW	SW	200	220	250	69.741	70.439	
105	2010	5	4	7	54	0	124.329	W	SW	SW	100	250	250	69.847	71.406	
106	2010	5	5	22	54	0	125.954	S	SW	SW	170	220	220	69.99	70.364	
107	2010	5	7	8	39	0	127.360	NE	NW	NW	50	300	320	70.114	70.327	
108	2010	5	8	6	9	15	128.256	NE	NW	NW	50	290	320	70.193	70.305	candidate
109	2010	5	8	21	24	0	128.892	NE	NW	NW	50	290	300	70.25	70.289	candidate
110	2010	5	9	5	24	0	129.225	N	N	NW	350	40	50	70.28	70.281	
111	2010	5	19	6	24	0	139.267	W	E	W	280	90	290	71.2	70.054	
112	2010	5	22	22	9	15	142.923	W	E	W	270	90	300	71.546	69.983	
113	2010	5	23	17	39	0	143.735	E	W	halo	80	280	halo	71.623	69.968	candidate
114	2010	5	24	14	24	0	144.600	E	W	halo	90	270	halo	71.706	69.953	candidate
115	2010	5	26	16	24	0	146.683	SE	SW	SE	120	240	140	71.908	69.918	candidate
116	2010	5	27	10	9	15	147.423	S	SW	W	170	240	260	71.979	69.907	
117	2010	5	31	20	39	0	151.860	E	W	S	100	260	230	72.413	69.846	candidate
118	2010	6	2	14	54	0	153.621	W	E	W	280	90	290	72.586	69.826	
119	2010	6	4	2	9	15	155.090	N	N	NW	30	0	50	72.731	69.812	
120	2010	6	4	13	9	15	155.548	W	E	halo	270	90	halo	72.776	69.808	

121	2010	6	5	14	54	0	156.621	SW	S	SW	230	180	240	72.882	69.799	
122	2010	6	12	12	39	0	163.527	NE	N	NE	40	10	60	73.567	69.772	
123	2010	6	13	9	24	0	164.392	NW	NW	NW	300	310	300	73.653	69.772	
124	2010	6	15	0	9	15	166.006	SW	SE	SE	240	110	130	73.814	69.774	
125	2010	6	15	2	9	15	166.090	NE	N	NW	50	0	80	73.822	69.774	
126	2010	6	16	12	9	15	167.506	E	W	E	90	280	80	73.964	69.778	candidate
127	2010	6	17	6	54	0	168.288	NW	NW	NW	80	310	300	74.042	69.781	
128	2010	6	19	0	9	15	170.006	NW	NE	NW	290	60	300	74.214	69.789	
129	2010	6	19	10	54	0	170.454	NW	NE	NW	290	60	300	74.259	69.792	
130	2010	6	20	3	54	0	170.100	E	SE	SE	110	130	110	74.33	69.797	
131	2010	6	20	16	39	0	171.694	E	W	NW	80	280	300	74.383	69.801	candidate
132	2010	6	22	11	39	0	173.485	W	E	NE	280	80	70	74.563	69.816	
133	2010	6	29	12	9	15	180.506	W	E	E	270	90	90	75.268	69.912	
134	2010	7	3	2	54	0	184.121	W	NE	NE	290	70	70	75.629	69.984	
135	2010	7	3	6	9	15	184.256	NE	N	NW	180	320	20	75.643	69.987	
136	2010	7	3	10	9	15	184.423	S	SW	SW	70	230	240	75.659	69.991	
137	2010	7	5	18	9	15	186.756	NW	NE	NW	330	50	50	75.891	70.048	
138	2010	7	6	4	54	0	187.204	E	W	W	90	270	270	75.935	70.059	candidate
139	2010	7	8	21	9	15	189.881	SW	SE	W	240	110	270	76.198	70.135	
140	2010	7	10	10	24	0	191.433	SW	SE	W	240	350	270	76.35	70.183	
141	2010	7	10	15	9	15	191.631	NE	N	NE	50	120	50	76.369	70.189	
142	2010	7	11	4	39	0	192.194	E	W	W	100	270	260	76.424	70.208	candidate
143	2010	7	18	7	54	0	199.329	NE	NW	N	60	300	350	77.114	70.475	candidate
144	2010	7	28	0	9	15	209.006	E	W	E	90	260	110	78.028	70.939	candidate
145	2010	7	28	20	39	0	209.860	SE	W	E	110	260	100	78.107	70.986	candidate
146	2010	7	30	9	54	0	211.413	NE	N - halo	NE	30	0	50	78.249	71.073	
147	2010	8	1	22	24	0	213.933	NW	NE	NE	310	50	40	78.478	71.223	
148	2010	8	7	13	39	0	219.569	SW	SE	W	240	90	260	78.979	71.588	
149	2010	8	7	18	39	0	219.777	E	W - halo	E - halo	80	300	80	78.997	71.603	candidate
150	2010	8	14	10	38	53	226.444	SE - halo	W	W	120	280	280	79.565	72.092	candidate
151	2010	8	15	8	9	15	227.340	SW	SE	SE	200	130	110	79.64	72.162	
152	2010	8	15	9	9	15	227.381	NE	NW	NW	60	300	310	79.644	72.165	
153	2010	8	18	2	24	0	230.100	NE	NW	NW	50	300	310	79.868	72.383	candidate
154	2010	8	18	8	24	0	230.350	SW	W	E	270	100	100	79.888	72.404	

155	2010	8	27	11	39	0	239.485	S	SW	W	160	230	250	80.612	73.204	
156	2010	8	31	21	9	15	243.881	SW	SE	SW	250	120	230	80.491	73.625	
157	2010	9	1	10	24	0	244.433	SW	SE	SW	250	120	240	80.981	73.68	
158	2010	9	1	13	54	0	244.579	SW	SE	SW	250	120	240	80.992	73.694	
159	2010	9	1	22	24	0	244.933	SW	SE	SW	250	120	240	81.018	73.729	
160	2010	9	2	9	39	0	245.402	SW	SE	SW	240	130	230	81.052	73.776	
161	2010	9	4	16	24	0	247.683	E	W	E	90	270	280	81.214	74.009	candidate
162	2010	9	7	12	54	0	250.538	E	W	E	90	270	90	81.413	74.308	candidate
163	2010	9	9	0	9	15	252.006	halo	halo	W	halo	halo	270	81.512	74.466	
164	2010	9	11	2	24	0	254.100	NE	NW	NE	70	300	50	81.652	74.694	candidate
165	2010	9	11	17	24	0	254.725	SW	SE	SE	240	120	110	81.693	74.764	
166	2010	9	13	9	24	0	256.392	NW	NE	NW	300	40	310	81.802	74.95	
167	2010	9	15	14	39	0	258.610	NE	NW	NW	40	320	320	81.944	75.202	
168	2010	9	20	8	24	0	263.350	SE	SW	SE	110	250	130	82.237	75.755	candidate
169	2010	9	22	17	9	15	265.715	NE	NW	NW	30	320	320	82.378	76.039	
170	2010	9	28	17	39	0	271.735	SE	W	W	120	250	250	82.718	76.785	
171	2010	10	1	0	24	0	274.017	NW	NE	N	320	30	340	82.84	77.076	
172	2010	10	1	11	54	0	274.496	NW	NE	NE	290	70	70	82.866	77.138	
173	2010	10	6	6	24	0	279.267	NE	NW	NE	70	290	40	83.106	77.764	candidate
174	2010	10	7	11	24	0	280.475	N	N	NW	0	350	310	83.164	77.925	
175	2010	10	8	12	39	0	281.527	W	E	W	260	90	270	83.214	78.066	
176	2010	10	10	20	39	0	283.860	N	NE	NW	0	10	30	83.322	78.382	
177	2010	10	11	0	9	15	284.006	E	W	E	90	270	90	83.329	78.402	candidate
178	2010	10	14	13	54	0	287.579	NE	NW	NW	60	300	300	83.488	78.893	candidate
179	2010	10	17	9	39	0	290.402	NW	NE	NW	310	60	30	83.608	79.285	
180	2010	10	17	16	39	0	290.694	SE	SW	SE	130	220	130	83.621	79.326	candidate
181	2010	10	22	0	9	15	295.006	NE	NW	NW	50	310	300	83.795	79.932	candidate
182	2010	10	26	6	39	0	299.277	SE	SW	S	110	250	200	83.957	80.541	candidate
183	2010	10	27	6	9	15	300.256	NW	NE	N	300	60	350	83.993	80.682	
184	2010	10	28	0	9	15	301.006	NW	NE	NE	300	60	60	84.019	80.79	
185	2010	10	28	12	24	0	301.517	SW	SE	SW	250	110	230	84.037	80.864	
186	2010	10	31	0	9	15	304.006	SW	E	W	240	110	250	84.123	81.225	
187	2010	11	3	20	9	15	307.840	E	W	E	90	270	90	84.247	81.785	candidate
188	2010	11	8	21	9	15	312.881	NE	NW	NE	40	330	40	84.398	82.526	candidate

189	2010	11	10	8	9	15	314.340	NE	NW	NW	40	320	320	84.44	82.741	candidate
190	2010	11	11	5	24	0	315.225	W	E	W	280	80	290	84.464	82.872	
191	2010	11	11	8	24	0	315.350	SE	SW	SE	110	250	120	84.468	82.89	candidate
192	2010	11	11	16	39	0	315.694	SE	SW	SE	110	250	120	84.477	82.941	candidate
193	2010	11	12	8	39	0	316.360	SE	SW	SE	110	250	130	84.496	83.039	candidate
194	2010	11	12	14	39	0	316.610	SE	SW	SE	110	250	130	84.502	83.076	candidate
195	2010	11	15	15	39	0	319.652	SE	SW	SE	110	250	110	84.584	83.524	candidate
196	2010	11	16	9	54	0	320.413	SE	SW	SE	130	220	130	84.604	83.636	candidate
197	2010	11	19	1	39	0	323.069	SE	SW	E	120	230	110	84.671	84.026	candidate
198	2010	11	23	9	24	0	327.392	NW	NE	NE	320	50	40	84.776	84.659	
199	2010	11	24	3	54	0	328.163	E	W	SW	100	260	220	84.795	84.771	candidate
200	2010	11	25	17	39	0	329.735	SW	SE	SW	240	120	230	84.831	85.001	
201	2010	11	26	8	24	0	330.350	SW	SE	SE	240	110	120	84.845	85.09	
202	2010	11	29	18	24	0	333.767	W	SE	W	250	130	260	84.919	85.585	
203	2010	11	30	19	39	0	334.819	E	W	E	90	270	80	84.942	85.737	candidate
204	2010	12	2	11	24	0	336.475	NW	NE	NW	290	70	290	84.976	85.976	
205	2010	12	5	1	24	0	339.058	W	E	W	270	90	270	85.028	86.346	
206	2010	12	6	18	54	0	340.788	SE	SW	SE	140	200	120	85.062	86.592	candidate
207	2010	12	7	8	54	0	341.371	E	W	W	90	270	270	85.073	86.675	candidate
208	2010	12	8	12	24	0	342.517	NE	NW	NE	70	290	60	85.095	86.836	
209	2010	12	12	4	54	0	346.204	SE	SW	W	110	250	260	85.165	87.352	candidate
210	2010	12	12	6	9	15	346.256	NE	NW	NW	50	320	20	85.166	87.359	
211	2010	12	14	15	54	0	348.663	NE	NW	NW	30	320	320	85.212	87.69	
212	2010	12	15	16	9	15	349.673	E	W	SW	90	260	240	85.231	87.827	candidate
213	2010	12	16	9	24	0	350.392	NE	NW	NW	30	320	330	85.245	87.925	
214	2010	12	20	10	24	0	354.433	NE	NW	NE	60	310	70	85.322	88.465	candidate
215	2010	12	21	3	54	0	355.163	E	W	NE	70	290	60	85.336	88.561	candidate
216	2010	12	23	5	54	0	357.246	E	W	SW	90	270	240	85.375	88.833	candidate
217	2010	12	24	9	39	0	358.402	E	W	W	90	280	260	85.398	88.982	candidate
218	2010	12	26	4	54	0	360.204	SW	SE	SE	240	120	130	85.432	89.213	
219	2010	12	29	12	24	0	363.517	N	N	NW	10	0	300	85.495	89.629	
220	2010	12	30	11	24	0	364.475	NE	NW	W	60	310	290	85.514	89.748	candidate
221	2010	12	30	22	39	0	364.944	NW	NE	NE	330	40	60	85.523	89.805	

2011

222	2011	1	2	17	39	0	3.735	W	E	W	270	80	270	85.576	90.144	
223	2011	1	8	4	39	0	8.194	E	W	E	110	250	110	85.686	90.783	candidate
224	2011	1	9	22	24	0	9.933	NE	NW	N	40	320	340	85.721	90.974	
225	2011	1	12	9	24	0	12.392	SW - halo	SE	SW	240	120	250	85.775	91.249	
226	2011	1	13	10	9	15	13.423	NW - halo	NE	NE	320	30	60	85.798	91.36	
227	2011	1	14	4	9	15	14.173	NW - halo	NE - halo	NE	320	40	70	85.815	91.439	
228	2011	1	16	18	9	15	16.756	NE	NW	NE	70	290	50	85.875	91.708	candidate
229	2011	1	18	4	24	0	18.183	NW	NE	NE	330	40	50	85.91	91.853	
230	2011	1	19	13	39	0	19.569	E	W	E	80	300	90	85.944	91.99	candidate
231	2011	1	20	12	24	0	20.517	SW	SE	SW	250	110	240	85.967	92.083	
232	2011	1	21	14	54	0	21.621	NE	NW	N	60	300	340	85.996	92.189	candidate
233	2011	1	23	3	9	15	23.131	NW - halo	N	NW	320	0	300	86.035	92.332	
234	2011	1	24	3	9	15	24.131	E	W	W	90	270	270	86.061	92.424	candidate
235	2011	1	25	8	24	0	25.350	NE	NW	N	60	300	350	86.093	92.536	candidate
236	2011	1	26	1	54	0	26.079	NE	NW	NE	50	290	30	86.113	92.601	candidate
237	2011	1	28	1	54	0	28.079	NW	NE	NW	330	20	300	86.168	92.777	
238	2011	1	28	5	9	15	28.215	NW	NE	W	290	70	290	86.172	92.789	
239	2011	1	28	11	24	0	28.475	NW	NE	W	290	70	280	86.179	92.811	
240	2011	1	29	10	39	0	29.444	W	NE	W	290	70	290	86.207	92.894	
241	2011	1	30	10	39	0	30.444	SE	W	S	100	250	180	86.235	92.978	candidate
242	2011	1	31	17	9	15	31.715	NW	NE	W	300	60	290	86.272	93.082	
243	2011	2	2	0	9	15	33.006	W	E	N - halo	290	70	0	86.311	93.186	
244	2011	2	9	16	24	0	40.683	W	E	E	260	100	290	86.557	93.748	
245	2011	2	10	3	39	0	41.152	W	E	SW	260	110	240	86.573	93.78	
246	2011	2	12	6	9	15	43.256	E	W	E	90	270	80	86.648	93.915	candidate
247	2011	2	13	18	24	0	44.767	E	W	N - halo	90	270	340	86.703	94.008	candidate
248	2011	2	14	17	54	0	45.746	E	W	N - halo	80	280	340	86.74	94.066	candidate
249	2011	2	15	2	9	15	46.090	E	W	halo	90	270	halo	86.753	94.086	candidate
250	2011	2	16	4	24	0	47.183	NE	NW	NE	50	310	30	86.795	94.148	candidate
251	2011	2	17	1	54	0	48.079	NE	NW	NW	40	320	300	86.83	94.198	candidate
252	2011	2	18	17	39	0	49.735	NW	NE	NW	310	40	310	86.896	94.256	
253	2011	2	24	9	9	15	55.381	S	S	E	190	150	100	87.133	94.553	
254	2011	2	25	8	54	0	56.371	NE	NW	N	30	320	330	87.177	94.594	
255	2011	2	25	19	9	15	56.798	E	W	W	80	280	280	87.196	94.162	candidate

256	2011	2	26	22	39	0	57.944	NW	NW	NW	300	50	310	87.247	94.658	
257	2011	3	2	0	54	0	61.038	SE	SW	W	120	240	250	87.39	94.771	candidate
258	2011	3	3	4	54	0	62.204	SE	SW	S	110	240	200	87.445	94.809	candidate
259	2011	3	3	22	39	0	63.944	E	W	E	90	270	70	87.48	94.833	candidate
260	2011	3	4	15	54	0	63.663	W	E	E	270	100	90	87.515	94.855	
261	2011	3	4	21	24	0	63.892	W	E	E	270	100	90	87.527	94.862	
262	2011	3	5	2	9	15	64.090	E	N	E	270	90	70	87.536	94.867	
263	2011	3	6	5	9	15	65.215	NE	NW	NE	20	330	50	87.592	94.899	candidate
264	2011	3	6	19	24	0	65.808	W	E	SE	250	110	120	87.622	94.915	
265	2011	3	7	14	54	0	66.621	NE	NW	NE	60	300	30	87.663	94.936	candidate
266	2011	3	7	20	9	15	66.840	NE - halo	NW - halo	NW	60	300	310	87.674	94.942	candidate
267	2011	3	8	4	54	0	67.204	SE	SW	E	120	210	90	87.693	94.951	
268	2011	3	8	20	54	0	67.871	S	S	W	160	190	250	87.727	94.967	
269	2011	3	12	0	54	0	71.038	SW	SE	SW	240	110	240	87.895	95.032	
270	2011	3	14	8	39	0	73.360	NE	NW	NE	40	320	40	88.023	95.07	candidate
271	2011	3	16	5	9	15	75.215	NE	NW	NW	40	330	310	88.128	95.094	candidate
272	2011	3	16	19	54	0	75.829	NE	NW	NW	30	340	300	88.164	95.101	candidate
273	2011	3	17	12	54	0	76.538	SW	SE	SE	230	120	140	88.205	95.108	
274	2011	3	19	12	54	0	78.538	SW	E	W	220	70	260	88.323	95.124	
275	2011	3	19	18	24	0	78.767	SW	E	W	240	110	250	88.337	95.125	
276	2011	3	21	2	39	0	80.110	NW - halo	NE	W	330	50	280	88.419	95.132	
277	2011	3	21	18	9	15	80.756	SW	SE	SE	200	150	110	88.458	95.135	
278	2011	3	23	2	39	0	82.110	SE	SW	SE	140	220	140	88.542	95.138	candidate
279	2011	3	23	9	24	0	82.392	W	E	W	260	90	260	88.559	95.139	
280	2011	3	23	19	9	15	82.798	NW	NE	N	300	50	330	88.585	95.139	
281	2011	3	24	13	9	15	83.548	NW	NE	NE	290	60	50	88.632	95.139	
282	2011	3	25	11	9	15	84.465	E	W	E	90	270	100	88.96	95.138	candidate
283	2011	3	25	13	24	0	84.558	W	E	E	250	110	100	88.696	95.138	
284	2011	3	26	6	9	15	85.256	W	E	E	290	70	80	88.741	95.137	
285	2011	3	27	6	9	15	86.256	W	E	E	300	50	70	88.805	95.134	
286	2011	3	28	16	24	0	87.683	NW	NE	NE	320	40	30	88.899	95.127	
287	2011	3	29	20	54	0	88.871	NW	NE	E	310	50	70	88.977	95.12	
288	2011	4	4	4	9	15	94.173	E	W	E	80	280	60	89.338	95.068	candidate
289	2011	4	4	5	39	0	94.235	NW	NE	NE	310	50	30	89.343	95.067	

290	2011	4	7	7	9	15	97.298	SE	W	E	110	260	90	89.56	95.021	candidate
291	2011	4	7	12	9	15	97.506	SW	SE	SW	210	140	230	89.575	95.018	
292	2011	4	7	22	24	0	97.933	W	E	W	280	80	270	89.606	95.011	
293	2011	4	8	22	54	0	98.954	E	W	E	80	280	70	89.68	94.992	candidate
294	2011	4	10	7	24	0	100.308	N	N	NE	10	340	40	89.78	94.966	
295	2011	4	12	0	39	0	102.027	NE	NW	NW	60	300	300	89.908	94.931	candidate
296	2011	4	13	21	24	0	103.892	W	NE	NW	290	70	310	90.05	94.888	
297	2011	4	14	9	54	0	104.413	NW	N	NE	330	20	40	90.09	94.876	
298	2011	4	17	1	39	0	107.069	NE	NW	N	50	310	0	90.296	94.809	candidate
299	2011	4	17	15	54	0	107.663	W	E	halo	270	90	halo	90.343	94.793	
300	2011	4	20	0	9	15	110.006	NE	NW	NE	40	310	40	90.53	94.727	candidate
301	2011	4	21	1	24	0	111.058	NW	NE	W	300	60	300	90.615	94.696	
302	2011	4	24	21	39	0	114.902	W	E	W	290	70	280	90.929	94.578	
303	2011	4	27	2	54	0	117.121	NE	NW	NE	50	300	60	91.114	94.506	
304	2011	4	27	7	54	0	117.329	NW	NE	NW	310	50	320	91.131	94.499	
305	2011	4	30	10	24	0	120.433	W	E	E	290	70	90	91.394	94.395	
306	2011	5	1	16	9	15	121.673	NE	NW	NE	60	300	60	91.499	94.325	candidate
307	2011	5	2	18	9	15	122.756	E	W	E	90	270	90	91.593	94.314	candidate
308	2011	5	3	16	9	15	123.673	E	W	W	80	290	300	91.672	94.281	candidate
309	2011	5	4	18	9	5	124.756	NE	NW	NE	60	300	30	91.766	94.242	candidate
310	2011	5	6	9	24	0	126.392	W	E - halo	E	290	50	80	91.909	94.183	
311	2011	5	9	21	39	0	129.902	NE - halo	N -halo	E	30	340	60	92.219	94.053	candidate
312	2011	5	11	3	24	0	131.142	E	W	W - halo	80	290	300	92.332	94.005	candidate
313	2011	5	12	4	9	15	132.173	SW	SE	SE	240	130	140	92.426	93.966	
314	2011	5	12	18	54	0	132.788	SE	SW	SW	50	300	300	92.481	93.943	
315	2011	5	13	1	9	15	133.048	NE	NW	N	50	310	350	92.505	93.933	candidate
316	2011	5	13	17	39	0	133.735	SE	SW	W	110	260	280	92.566	93.907	candidate
317	2011	5	15	0	9	15	135.006	SW	SE	SW	240	110	250	92.684	93.857	
318	2011	5	17	5	24	0	137.225	NE	NW	W	60	300	270	92.889	93.772	
319	2011	5	18	19	9	15	138.798	SE - halo	SW - halo	W	140	210	270	93.035	93.711	candidate
320	2011	5	19	4	54	0	139.204	NE	NW	W	60	300	310	93.073	93.696	candidate
321	2011	5	20	21	39	0	140.902	W	E	NW	290	70	320	93.232	93.631	
322	2011	5	23	3	39	0	143.152	NE	NW	N	60	300	0	93.444	93.546	candidate
323	2011	5	24	21	54	0	144.913	NW	NE	NW	310	50	310	93.61	93.48	

324	2011	5	25	5	24	0	145.225	E	W	S - halo	100	260	200	93.639	93.468	candidate
325	2011	5	25	12	54	0	145.538	E	W	S - halo	80	280	200	93.669	93.457	candidate
326	2011	5	27	17	54	0	147.746	E	W	E	90	270	80	93.878	93.377	candidate
327	2011	5	28	19	24	0	148.808	N	N	N	10	0	340	93.979	93.339	
328	2011	5	29	11	9	15	149.465	E - halo	W - halo	E	80	280	90	94.042	93.315	candidate
329	2011	5	29	21	39	0	149.902	E	W	E	80	270	90	94.083	93.3	candidate
330	2011	5	31	2	24	0	151.100	NW	E	NE	300	70	60	94.198	93.258	
331	2011	6	1	5	39	0	152.235	E	W	E	80	260	110	94.306	93.22	candidate
332	2011	6	1	18	9	15	152.756	E	W	E	90	270	80	94.356	93.202	candidate
333	2011	6	2	7	54	0	153.329	E	W	E - halo	90	270	90	94.411	93.183	candidate
334	2011	6	2	0	24	0	153.017	NW	NE	NE	330	30	40	94.381	93.193	
335	2011	6	3	14	54	0	154.621	NW	NE	NE	310	50	50	94.535	93.14	
336	2011	6	4	7	9	15	155.298	NW - halo	NE - halo	NW - halo	320	40	300	94.6	93.118	
337	2011	6	4	22	9	15	155.923	W - halo	E - halo	W - halo	290	60	270	94.66	93.098	
338	2011	6	5	6	9	15	156.256	NE	NW	NE	40	320	40	94.692	93.087	candidate
339	2011	6	6	7	24	0	157.308	E	W	E	80	290	90	94.794	93.054	candidate
340	2011	6	6	8	54	0	157.371	S	S	SW	190	150	250	94.8	93.052	
341	2011	6	7	6	54	0	158.288	SE	SW	W - halo	90	270	270	94.888	93.023	candidate
342	2011	6	7	19	9	15	158.798	NW	NE	halo	290	80	halo	94.938	93.008	
343	2011	6	8	8	39	0	159.360	NW	NE	N	310	50	330	94.992	92.991	
344	2011	6	8	23	24	0	159.975	NW	NE	N	310	50	330	95.052	92.972	
345	2011	6	9	10	9	15	160.423	N	N	NW	20	330	40	95.095	92.959	
346	2011	6	10	12	39	0	161.527	NE	NW	NW	50	300	300	95.202	92.926	candidate
347	2011	6	11	13	39	0	162.569	NE	NW	N	40	310	0	95.302	92.897	
348	2011	6	12	2	24	0	163.100	SW	SE	SW	220	130	240	95.356	92.882	
349	2011	6	12	17	39	0	163.735	NE - halo	NW	W	40	330	300	95.417	92.864	candidate
350	2011	6	13	4	24	0	164.183	W	E	E	250	110	110	95.461	92.852	
351	2011	6	14	7	39	0	165.319	E	W	E	100	260	80	95.572	92.821	candidate
352	2011	6	18	13	54	0	169.579	NE	NW	N	40	330	340	95.988	92.717	
353	2011	6	19	17	54	0	170.746	SE	SW	E	120	240	100	96.102	92.691	candidate
354	2011	6	20	18	9	15	171.756	W	E	E	280	80	70	96.2	92.669	
355	2011	6	21	3	9	15	172.131	E	W	NE - halo	70	280	halo	96.326	92.662	candidate
356	2011	6	23	12	24	0	174.517	E	W	E	80	270	90	96.468	92.616	candidate
357	2011	6	28	18	9	15	179.756	NW	NE	N	330	30	20	96.974	92.538	

358	2011	6	29	1	24	0	180.058	SE	SW	SW	120	230	240	97.003	92.535	candidate
359	2011	6	30	10	9	15	181.423	NW	NE	N	320	40	10	97.134	92.52	
360	2011	7	2	7	39	0	183.319	W	E	NE	280	80	40	97.315	92.503	
361	2011	7	3	0	39	0	184.027	E	W	W	90	270	250	97.383	92.498	candidate
362	2011	7	4	2	39	0	185.110	N	N	NE	10	330	40	97.486	92.491	
363	2011	7	4	17	39	0	185.735	SW	SE	SW	210	140	240	97.545	92.487	
364	2011	7	6	11	39	0	187.485	NE	NW	NW	60	310	310	97.712	92.48	candidate
365	2011	7	7	1	9	15	188.048	W	E	E	260	100	70	97.765	92.478	
366	2011	7	7	13	54	0	188.579	E	W	E	70	290	70	97.815	92.477	candidate
367	2011	7	9	0	39	0	190.027	E	W	E	90	260	90	97.952	92.475	candidate
368	2011	7	9	20	54	0	190.871	NW	NE	NW	300	50	300	98.032	92.475	
369	2011	7	10	13	39	0	191.569	N	N	N	20	340	20	98.096	92.476	
370	2011	7	13	18	54	0	194.788	E	W	E	100	260	100	98.4	92.487	candidate
371	2011	7	16	7	9	15	197.298	W	E	W	270	90	90	98.634	92.505	
372	2011	7	18	1	39	0	199.069	SW	E	E	250	110	90	98.798	92.523	
373	2011	7	18	5	39	0	199.235	NE	N	NW	20	350	320	98.813	92.525	
374	2011	7	20	12	39	0	201.527	NW	NE	N	310	50	340	99.023	92.555	
375	2011	7	21	16	9	0	202.673	SW	SE	E	240	130	100	99.127	92.573	
376	2011	7	23	13	24	0	204.558	W	E	E	270	90	80	99.298	92.607	
377	2011	7	24	17	9	15	205.715	NE	NW	NW	40	330	330	99.401	92.63	
378	2011	7	25	17	9	15	206.715	W	E	halo	270	90	halo	99.49	92.652	
379	2011	7	26	3	9	15	207.131	W	E	N	270	90	10	99.527	92.661	
380	2011	7	27	6	24	0	208.267	NE	NW	NE	30	310	40	99.628	92.689	candidate
381	2011	7	28	18	24	0	209.767	SW	SE	SW	240	120	240	99.759	92.727	
382	2011	8	2	6	24	0	214.267	E	W	W - halo	70	280	280	100.149	92.864	candidate
383	2011	8	3	0	54	0	215.038	E	W	halo	80	280	halo	100.214	92.89	candidate
384	2011	8	3	13	54	0	215.579	E	W	halo	80	280	halo	100.261	92.909	candidate
385	2011	8	4	4	9	15	216.173	E	W	W - halo	60	290	300	100.311	92.931	candidate
386	2011	8	4	5	54	0	216.246	NW	NE	N	300	60	20	100.317	92.933	
387	2011	8	6	11	54	0	218.496	SE	SW	W	120	230	260	100.507	93.019	candidate
388	2011	8	8	4	9	15	220.173	NE	NW	N	40	320	10	100.647	93.087	
389	2011	8	8	18	24	0	220.767	E	W - halo	W	90	270	280	100.696	93.112	candidate
390	2011	8	9	8	24	0	221.350	E - halo	W - halo	W	90	270	280	100.744	93.137	candidate
391	2011	8	11	10	54	0	223.454	E - halo	W - halo	W	90	270	270	100.917	93.232	candidate

392	2011	8	12	4	24	0	224.183	NE	NW	NE	40	310	40	100.977	93.267	candidate
393	2011	8	12	13	24	0	224.558	NW	NE	NW	300	60	310	101.007	93.285	
394	2011	8	13	10	54	0	225.454	NW	NE	NW	320	70	320	101.08	93.329	
395	2011	8	14	6	24	0	226.267	W	E	W	260	100	270	101.145	93.369	
396	2011	8	16	8	54	0	228.371	NW	NE	N	310	60	350	101.313	93.48	
397	2011	8	16	11	24	0	228.475	N	N	NE	20	340	40	101.321	93.485	
398	2011	8	17	3	24	0	229.142	SE	SW	E	150	220	100	101.374	93.522	
399	2011	8	17	4	24	0	229.183	N	N	N	10	340	20	101.377	93.524	
400	2011	8	21	0	9	15	233.006	SE	SW	SW	130	220	210	101.673	93.747	candidate
401	2011	8	24	0	9	15	236.006	W	E	W	260	110	250	101.899	93.938	
402	2011	8	27	13	24	0	239.558	NW	NE	N	300	60	340	102.159	94.182	
403	2011	8	28	7	9	15	240.298	N	NE	NW	340	40	320	102.212	94.236	
404	2011	8	28	14	39	0	240.610	N	NE	NW	340	30	330	102.234	94.259	
405	2011	8	29	15	39	0	241.652	NW	NE	NW	300	60	320	102.308	94.335	
406	2011	8	31	15	39	0	243.652	NE	NW	NW	40	320	320	102.448	94.488	candidate
407	2011	9	1	5	54	0	244.246	NE	NE	NW	50	320	330	102.49	94.534	
408	2011	9	1	13	24	0	244.558	NW	NE	NW	330	50	320	102.511	94.558	
409	2011	9	2	4	24	0	245.183	SW	SE	SE	230	120	120	102.554	94.608	
410	2011	9	2	8	54	0	245.371	E	W	E	110	250	100	102.567	94.623	candidate
411	2011	9	2	22	24	0	245.933	NW	NE	W	310	60	290	102.606	94.668	
412	2011	9	3	13	24	0	246.558	W	E	W	300	70	300	102.648	94.719	
413	2011	9	5	2	9	15	248.090	N	N	NW	20	10	310	102.752	94.845	
414	2011	9	6	2	9	15	249.090	NE	NW	NW	60	310	320	102.819	94.929	candidate
415	2011	9	6	5	54	0	249.246	NW	E	NW	310	60	320	102.829	94.943	
416	2011	9	6	22	39	0	249.944	NE	NW	NW - halo	60	310	310	102.875	95.003	candidate
417	2011	9	7	5	39	0	250.235	W	E	NW	250	100	320	102.895	95.028	
418	2011	9	7	6	54	0	250.288	NW	NE	NW	320	40	320	102.898	95.032	
419	2011	9	7	12	24	0	250.517	NW	NE	NW	320	40	320	102.913	95.052	
420	2011	9	7	18	54	0	250.788	W	E	E	270	70	70	102.931	95.076	
421	2011	9	7	21	9	15	250.881	N	N	N	350	10	350	102.937	95.084	
422	2011	9	7	23	9	15	250.965	NE	NW	NW	40	310	320	102.942	95.091	candidate
423	2011	9	8	6	24	0	251.267	NE	NW	NW	40	330	330	102.962	95.118	candidate
424	2011	9	8	22	24	0	251.933	NW	NE	NW	330	40	320	103.006	95.177	
425	2011	9	9	7	9	15	252.298	E	W	W	90	270	270	103.029	95.209	candidate

426	2011	9	10	3	9	15	253.131	NE	NW	NW	40	320	330	103.083	95.284	candidate
427	2011	9	10	10	9	15	253.423	E	W	W	90	250	250	103.102	92.31	candidate
428	2011	9	13	13	9	15	256.548	N	N	NW	0	10	320	103.299	95.601	
429	2011	9	13	23	9	15	256.965	E	W	NW	60	300	310	103.325	95.641	candidate
430	2011	9	14	20	54	0	257.871	E	W	W	90	270	260	103.381	95.728	candidate
431	2011	9	17	0	24	0	260.017	NE	NW	W	60	320	290	103.511	95.94	candidate
432	2011	9	19	5	9	15	262.215	N - halo	W	NE	20	330	60	103.641	96.163	candidate
433	2011	9	19	22	54	0	262.954	W	E	W	300	110	300	103.684	96.24	
434	2011	9	20	13	24	0	263.558	W	NE	E	300	60	70	103.719	96.303	
435	2011	9	21	22	39	0	264.944	NW - halo	NE	W	310	60	310	103.797	96.449	
436	2011	9	22	11	9	15	265.465	N - halo	N - halo	E - halo	0	0	90	103.827	96.505	candidate
437	2011	9	23	22	24	0	266.933	NE	NW	NE	50	310	30	103.908	96.665	
438	2011	9	24	13	9	15	267.548	E	W	E	40	320	70	103.942	96.732	candidate
439	2011	9	24	18	54	0	267.788	E - halo	W - halo	E - halo	40	320	70	103.955	96.759	candidate
440	2011	9	24	19	39	0	267.819	NE	NW	N	50	320	20	103.956	96.762	candidate
441	2011	9	25	0	54	0	268.038	SE	SW	W	110	240	250	103.968	96.787	candidate
442	2011	9	25	3	24	0	268.142	SE	SW	W	110	240	250	103.974	96.798	candidate
443	2011	9	25	5	24	0	268.225	SE	SW	W	110	210	250	103.978	96.807	candidate
444	2011	9	25	9	9	15	268.381	SE	SW	W	110	210	250	103.987	96.825	candidate
445	2011	9	25	10	39	0	268.444	SE	SW	W	110	210	250	103.99	96.932	candidate
446	2011	9	27	4	24	0	270.183	W	E	E	250	110	90	104.083	97.023	
447	2011	9	27	5	24	0	270.225	N	N	N	340	20	340	104.085	97.033	
448	2011	9	28	15	54	0	271.663	E	W	W	90	270	270	104.16	97.197	candidate
449	2011	9	29	18	54	0	272.788	W - halo	E	halo	270	90	halo	104.218	97.328	
450	2011	9	30	0	9	15	273.006	NW	NE	N	330	40	340	104.23	97.356	
451	2011	9	30	19	39	0	273.819	E	W	W	90	270	270	104.271	97.449	candidate
452	2011	10	1	0	54	0	274.038	NW	NE	N	320	30	10	104.282	97.475	
453	2011	10	1	9	54	0	274.413	NE	NW	W	90	270	290	104.301	97.52	candidate
454	2011	10	1	10	24	0	274.433	E	W	NW	40	330	320	104.302	97.522	candidate
455	2011	10	1	21	9	15	274.881	W - halo	E - halo	E	270	60	80	104.324	97.575	
456	2011	10	3	2	24	0	276.100	NE	N	NW	40	0	310	104.385	97.722	
457	2011	10	4	13	39	15	277.569	halo	E - halo	halo	halo	40	20	104.456	97.9	
458	2011	10	4	17	54	0	277.746	E	W	W	90	270	270	104.465	97.921	candidate
459	2011	10	5	3	24	0	278.142	NE	NW	NW	40	330	310	104.484	97.97	

460	2011	10	5	4	9	1	278.173	SW	SE	E	230	130	110	104.486	97.974	
461	2011	10	5	12	24	0	278.517	SE	SW	SE	130	240	140	104.502	98.016	candidate
462	2011	10	7	16	39	0	280.694	NE	N	NW	40	340	300	104.606	98.286	
463	2011	10	10	3	54	0	283.163	W	E	no data	290	70	halo	104.72	98.599	
464	2011	10	13	1	24	0	286.058	NW	NE	NW	300	50	320	104.849	98.973	
465	2011	10	13	4	39	0	286.194	NW	NE	NE	350	30	40	104.855	98.991	
466	2011	10	14	9	24	0	287.392	NW	NE	NE	300	30	30	104.907	99.149	
467	2011	10	14	12	24	0	287.517	W	E - halo	NE	270	90	50	104.912	99.165	
468	2011	10	14	20	54	0	287.871	N	N	NE	340	0	30	104.927	99.212	
469	2011	10	15	6	9	15	288.256	W	E	W	270	100	280	104.944	99.263	
470	2011	10	18	9	24	0	291.392	S	SE	SE	180	120	120	105.074	99.686	
471	2011	10	19	10	54	0	292.454	NW	NE	NW	310	40	310	105.117	99.831	
472	2011	10	20	4	9	15	293.173	NW - halo	NE	NW	330	40	300	105.145	99.93	
473	2011	10	21	9	24	0	294.392	NW	NE	NW	310	60	310	105.193	100.099	
474	2011	10	21	13	54	0	294.579	E	W	SW	100	240	230	105.2	100.125	candidate
475	2011	10	21	22	39	0	294.944	N	N	N	10	350	0	105.214	100.176	
476	2011	10	22	1	9	15	295.048	NE	NW	N - halo	50	320	350	105.218	100.19	candidate
477	2011	10	22	10	54	0	295.454	N - halo	N - halo	NW	20	10	320	105.233	100.247	
478	2011	10	22	18	9	15	295.756	SE	SW	SW	260	110	220	105.245	100.289	candidate
479	2011	10	24	0	24	0	297.017	NW	NE	NE	310	60	40	105.292	100.467	
480	2011	10	26	10	24	0	299.433	E	W	W	80	290	280	105.38	100.811	candidate
481	2011	10	26	19	54	0	299.829	SW	SE	SW	240	130	230	105.394	100.868	
482	2011	10	27	15	24	0	300.975	NW	NE	NE	60	300	50	105.423	100.985	
483	2011	10	28	21	24	0	301.892	SW	SE	SW	230	120	220	105.466	101.166	
484	2011	10	29	14	39	0	302.610	NW	NE	NE	310	40	40	105.491	101.271	
485	2011	10	31	16	24	0	304.683	NE	NW	N	60	310	20	105.561	101.574	candidate
486	2011	11	2	23	9	15	306.965	N	NW	NE	0	330	60	105.636	101.911	
487	2011	11	3	22	39	0	307.944	W - halo	E - halo	E - halo	270	90	90	105.668	102.057	
488	2011	11	4	1	24	0	308.058	W - halo	E - halo	E	270	90	90	105.627	102.074	
489	2011	11	8	0	9	15	312.006	NE	NW	NW	50	320	320	105.796	102.665	candidate
490	2011	11	8	2	39	0	312.110	W	E	W	260	100	300	105.799	102.681	
491	2011	11	9	9	9	15	313.381	SE	SW	SE	150	240	120	105.837	102.873	candidate
492	2011	11	9	13	39	0	313.569	NE - halo	NW - halo	NE - halo	50	300	30	105.843	102.902	candidate
493	2011	11	10	4	24	0	314.183	NW	NE	NW	310	60	300	105.862	102.995	

494	2011	11	11	7	9	15	315.298	SE	SW	W	110	240	250	105.895	103.164	candidate
495	2011	11	12	19	24	0	316.808	SE - halo	W - halo	E	140	250	40	105.939	103.395	
496	2011	11	13	18	39	0	317.777	W	E	N	300	70	340	105.966	103.544	
497	2011	11	14	16	39	0	318.694	NE	NW	NE	40	330	30	105.992	103.694	candidate
498	2011	11	14	17	24	0	318.725	NE	N	N	30	330	20	105.992	103.689	candidate
499	2011	11	14	20	39	0	318.860	SE	SW	S	120	230	200	105.997	103.71	candidate
500	2011	11	15	5	24	0	319.225	W	E	NE	280	70	50	106.007	103.766	
501	2011	11	15	10	9	15	319.423	NE	N	N	30	340	340	106.013	103.797	candidate
502	2011	11	16	15	9	15	320.631	N	N	N	20	350	330	106.046	103.983	
503	2011	11	17	17	9	15	321.715	E	NE - halo	NE	100	30	40	106.075	104.151	
504	2011	11	20	15	54	0	324.663	E	W	NE	70	320	50	106.153	104.609	candidate
505	2011	11	20	22	54	0	324.954	W	E	W	310	60	280	106.16	104.655	
506	2011	11	22	3	54	0	326.163	N	N	N	340	30	340	106.191	104.844	
507	2011	11	22	6	54	0	326.288	E	W	E	80	290	60	106.194	104.863	candidate
508	2011	11	22	22	9	15	326.923	NE	N	NW	30	0	310	106.21	104.963	
509	2011	11	24	2	9	15	328.090	halo	E - halo	W	halo	80	280	106.239	105.146	candidate
510	2011	11	25	2	9	5	329.090	SE	SW	SW	110	240	250	106.263	105.303	candidate
511	2011	11	26	7	9	15	330.298	E - halo	W - halo	W - halo	70	290	290	106.293	105.493	candidate
512	2011	11	27	13	54	0	331.579	W	E	halo	270	90	halo	106.323	105.694	
513	2011	11	28	7	24	0	332.308	NE	NW	NE	40	300	40	106.34	105.809	candidate
514	2011	11	29	23	9	15	333.965	SW	SE	E	230	140	110	106.379	106.069	
515	2011	11	30	19	39	0	334.819	W	E	W	250	110	280	106.399	106.204	
516	2011	11	30	22	39	0	334.944	E	W	E	60	280	60	106.402	106.223	candidate
517	2011	12	2	19	24	0	336.808	N	N	N	20	0	340	106.446	106.516	
518	2011	12	3	8	24	0	337.350	SW	SE	W	240	110	250	106.458	106.601	
519	2011	12	3	11	54	0	337.496	N	NE	NW	340	20	300	106.462	106.624	
520	2011	12	4	19	54	0	338.829	NE	NE	NW	20	30	300	106.492	106.833	
521	2011	12	6	10	24	0	340.433	NW	NE	W	320	50	300	106.529	107.084	
522	2011	12	7	5	39	0	341.235	NW	NE	NW	310	330	320	106.547	107.209	
523	2011	12	7	9	24	0	341.392	NW	NE	N	300	70	340	106.551	107.233	
524	2011	12	8	14	24	0	342.600	S	SW	SE	180	220	120	106.579	107.422	
525	2011	12	8	18	39	0	342.777	NW	NE	NW	300	70	300	106.583	107.449	
526	2011	12	9	11	54	0	343.496	W	E	NW	270	80	60	106.599	107.561	
527	2011	12	10	10	24	0	344.433	N	N	NE	350	350	30	106.62	107.707	

528	2011	12	10	20	24	0	344.850	NW	NE	W	330	60	290	106.63	107.772	
529	2011	12	11	8	9	15	345.340	NE	NW	NE	50	300	40	106.641	107.484	candidate
530	2011	12	11	10	9	15	345.423	N	NE	N	350	30	340	106.643	107.86	candidate
531	2011	12	12	19	24	0	346.808	NW	NE	N	330	40	340	106.674	108.075	
532	2011	12	13	2	24	0	347.100	SE	SW	SW	130	230	230	106.68	108.12	candidate
533	2011	12	14	6	9	15	348.256	SE	S	W	120	150	260	106.706	108.299	
534	2011	12	14	11	39	0	348.485	SE	SE	W	90	240	260	106.712	108.334	
535	2011	12	14	15	24	0	348.642	NW	NE - halo	NE	300	40	40	106.715	108.358	
536	2011	12	15	4	54	0	349.204	SE	SW	SW	110	240	250	106.728	108.445	candidate
537	2011	12	17	0	9	15	351.006	NW	NE	N	310	60	310	106.768	108.722	
538	2011	12	17	6	24	0	351.267	N	N	N	10	0	330	106.773	108.762	
539	2011	12	17	10	54	0	351.454	N - halo	NE - halo	N - halo	340	40	350	106.778	108.791	
540	2011	12	19	13	24	0	353.558	SW - halo	SE	W	250	100	260	106.824	109.113	
541	2011	12	19	18	24	0	353.767	NW	NE	NE	320	20	30	106.828	109.144	
542	2011	12	20	3	54	0	354.163	E	W	NW	80	290	310	106.837	109.205	candidate
543	2011	12	20	8	24	0	354.350	NW	NE	NE	350	50	60	106.841	109.233	
544	2011	12	21	3	9	15	355.131	SW	SE - halo	SE - halo	250	120	120	106.858	109.352	
545	2011	12	21	10	54	0	355.454	NW	N	NE	330	0	20	106.865	109.401	
546	2011	12	22	2	54	0	356.121	E	W	E	90	270	90	106.85	109.502	candidate
547	2011	12	23	3	9	15	357.131	NW	NE	NW	300	70	300	106.902	109.655	
548	2011	12	23	4	54	0	357.204	SW	S	E	240	150	110	106.904	109.666	
549	2011	12	24	2	24	0	358.100	SW	S	E	230	180	110	106.924	109.801	
550	2011	12	24	9	24	0	358.392	NW	NE	NE	310	60	50	106.93	109.845	
551	2011	12	24	14	9	15	358.590	NE	W	E	60	310	90	106.934	109.874	candidate
552	2011	12	25	0	54	0	359.038	NE	NW	N - halo	60	300	350	106.944	109.941	candidate
553	2011	12	25	18	54	0	359.788	SE	SW	SW	120	250	250	106.961	110.054	candidate
554	2011	12	26	2	54	0	360.121	E	W	W	90	270	260	106.968	110.103	candidate
555	2011	12	26	11	54	0	360.496	E	W	N - halo	60	310	0	106.977	110.159	candidate
556	2011	12	26	21	24	0	360.892	SE	W	SW	130	260	230	106.985	110.218	candidate
557	2011	12	27	5	9	15	361.215	E - halo	W	E	90	260	90	106.993	110.266	candidate
558	2011	12	27	9	54	0	361.413	NE	W	NE	50	280	40	106.997	110.295	candidate
559	2011	12	29	17	9	15	363.715	NE - halo	NE - halo	W	50	50	280	107.049	110.635	
560	2011	12	30	5	54	0	364.246	E	W	W	100	260	260	107.061	110.712	candidate
561	2011	12	30	19	24	0	364.808	N	N	N	0	20	0	107.074	110.794	

562	2011	12	30	20	9	15	364.840	E	W	W	100	260	260	107.075	110.799	candidate
563	2011	12	31	17	24	0	365.725	E	W	W	100	260	270	107.96	110.928	
2012																
564	2012	1	1	13	24	0	1.558	NW	NE	NW	310	70	300	107.115	111.048	
565	2012	1	2	1	54	0	2.079	SW	SE	SW - halo	240	110	240	107.128	111.123	
566	2012	1	2	15	39	0	2.652	S - halo	SE	SW - halo	200	110	240	107.141	111.205	
567	2012	1	4	1	24	0	4.058	SW	SE	S	260	100	190	107.175	111.406	
568	2012	1	6	21	39	0	6.902	N	N	NE	330	10	30	107.245	111.805	
569	2012	1	8	2	24	0	8.100	SW	SE	SE	230	150	130	107.275	111.971	
570	2012	1	12	6	54	0	12.288	W	E	E	260	70	70	107.384	112.541	
571	2012	1	12	8	39	0	12.360	N - halo	N - halo	NE	350	340	50	107.386	112.551	
572	2012	1	12	22	9	0	12.923	N	N	N	20	330	0	107.401	112.626	
573	2012	1	16	3	39	0	16.152	N - halo	NW	NE - halo	20	310	30	107.489	113.051	candidate
574	2012	1	16	11	54	0	16.496	SW	SE	SE	250	120	120	107.498	113.096	
575	2012	1	18	12	9	15	18.506	SE	SW	S	120	240	180	107.554	113.354	candidate
576	2012	1	19	0	9	15	19.006	E	NW	E	70	310	80	107.568	113.418	candidate
577	2012	1	19	10	54	0	19.454	NE	NW	N	40	330	340	107.581	113.475	candidate
578	2012	1	19	15	9	15	19.631	NE - halo	NW	NE - halo	30	310	30	107.586	113.497	candidate
579	2012	1	22	8	9	15	22.340	SE	S	W	120	190	250	107.664	113.835	
580	2012	1	22	8	39	0	22.360	NW	NE	N	320	50	0	107.665	113.838	
581	2012	1	23	2	54	0	23.121	NE - halo	NW - halo	NW - halo	50	320	330	107.687	113.931	candidate
582	2012	1	24	14	54	0	24.621	E	W	NE	100	270	60	107.732	114.113	candidate
583	2012	1	26	5	9	15	26.215	N - halo	N - halo	N - halo	0	0	340	107.781	114.302	
584	2012	1	26	15	54	0	26.663	NE	NW	N	40	320	20	107.795	114.355	candidate
585	2012	1	26	19	24	0	26.808	NW	NE	NE	290	50	50	107.8	114.372	
586	2012	1	27	5	54	0	27.246	S	SE	SW	190	130	240	107.814	114.423	
587	2012	1	27	18	39	0	27.777	NE - halo	N - halo	NW - halo	40	20	320	107.83	114.485	candidate
588	2012	1	29	5	9	15	29.215	S	SW	SE	190	220	110	107.877	114.65	
589	2012	2	2	14	24	0	33.600	NW	NE	N	330	30	10	108.025	115.135	
590	2012	2	3	7	9	15	34.298	SW	SE	SE	240	120	150	108.05	115.209	
591	2012	2	4	9	24	0	35.392	NE	NW	N	40	320	0	108.089	115.325	candidate
592	2012	2	4	18	39	0	35.777	SW	S	SE	230	170	120	108.103	115.365	
593	2012	2	5	18	54	0	36.788	SW	SE	SE	240	120	150	108.14	115.469	
594	2012	2	6	2	9	15	37.090	NW	N	NE	330	10	30	108.151	115.5	

595	2012	2	6	21	39	0	37.902	NW	NE	W	300	70	290	108.181	115.582	
596	2012	2	9	7	39	0	40.319	NE	NW	NW	30	300	310	108.273	115.821	candidate
597	2012	2	9	21	54	0	40.913	NE - halo	W - halo	NE	30	300	40	108.296	115.878	candidate
598	2012	2	10	11	24	0	41.475	E	W	E	90	270	90	108.318	115.932	candidate
599	2012	2	10	20	9	15	41.840	NE	W	NE	50	300	50	108.333	115.966	candidate
600	2012	2	14	6	9	15	45.256	N	NW	NW	20	310	30	108.47	116.281	
601	2012	2	16	6	39	0	47.277	W	NE	W - halo	290	60	300	108.555	116.458	
602	2012	2	19	10	9	15	50.423	E	W	E	100	280	90	108.69	116.722	candidate
603	2012	2	19	16	9	15	50.673	NW	NE	N	290	20	340	108.701	116.742	
604	2012	2	19	20	39	0	50.860	NW	NE	N	310	50	350	108.709	116.757	
605	2012	2	22	20	39	0	53.860	NW	N	N	330	20	10	108.884	116.991	
606	2012	2	23	8	54	0	54.371	NE	N	NW	50	10	310	108.867	117.029	
607	2012	2	23	21	24	0	54.892	N	N	N	350	350	10	108.981	117.068	
608	2012	2	24	3	39	0	55.152	NE	W	N	50	310	10	108.902	117.086	candidate
609	2012	2	24	19	39	0	55.819	S	SW	SE	150	240	120	108.934	117.134	
610	2012	2	25	15	39	0	56.652	NW	N	NE	320	0	50	108.974	117.195	
611	2012	2	26	1	39	0	57.069	NW	N	N	330	10	20	108.994	117.224	
612	2012	2	27	8	9	15	58.340	NW	NE	N	330	40	340	109.055	117.312	
613	2012	2	27	20	24	41	58.850	E - halo	E	W	60	80	290	109.08	117.346	
614	2012	2	29	2	24	0	60.100	NW	NE	NW	330	50	310	109.142	117.428	
615	2012	2	29	9	39	0	60.402	W - halo	E	W	290	80	290	109.157	117.447	
616	2012	2	29	19	39	0	60.819	NE	NW	N	50	310	20	109.178	117.474	candidate
617	2012	3	2	18	39	0	62.777	NW	NW	NE	330	320	50	109.279	117.594	
618	2012	3	4	6	39	0	64.277	N - halo	N	NE	340	330	30	109.357	117.681	
619	2012	3	4	11	24	0	64.475	N - halo	NW	NE	20	300	30	109.368	117.692	
620	2012	3	5	3	54	0	65.163	N - halo	NW	N - halo	0	320	20	109.404	117.731	candidate
621	2012	3	6	4	39	0	66.194	NE	NW	NE	60	290	30	109.46	117.786	candidate
622	2012	3	7	0	39	0	67.027	NE - halo	NW - halo	NE - halo	30	310	40	109.505	117.83	candidate
623	2012	3	7	8	9	15	67.340	NE	NW	N	40	330	340	109.523	117.846	
624	2012	3	8	17	54	0	68.746	W	N	W	300	20	70	109.601	117.917	
625	2012	3	8	20	9	15	68.840	W	NE - halo	W	300	20	70	109.606	117.921	
626	2012	3	10	16	24	0	70.683	E	W	W	70	290	290	109.71	118.008	candidate
627	2012	3	10	17	54	0	70.746	E - halo	W - halo	W - halo	70	290	290	109.714	118.011	candidate
628	2012	3	12	2	24	0	72.100	S	SW	E	190	220	110	109.792	118.071	

629	2012	3	13	17	39	0	73.735	NE - halo	NW - halo	NW - halo	50	330	310	109.887	118.139	candidate
630	2012	3	15	8	39	0	75.360	E	W	NW	60	290	330	109.983	118.202	candidate
631	2012	3	16	1	54	0	76.079	N - halo	E	W	340	50	290	110.026	118.229	
632	2012	3	16	21	9	15	76.881	NE	N	NW	30	10	320	110.075	118.257	
633	2012	3	18	0	54	0	78.038	N - halo	NE - halo	NW - halo	340	50	300	110.145	118.297	
634	2012	3	18	3	24	0	78.142	NE	NW	N	30	330	0	110.151	118.3	candidate
635	2012	3	19	4	54	0	79.204	NE	NW	NE	60	330	60	110.217	118.334	candidate
636	2012	3	19	6	24	0	79.267	NW	NE	NW	320	20	320	110.221	118.336	
637	2012	3	21	1	9	15	81.048	N	N	N	0	0	20	110.332	118.389	
638	2012	3	21	7	39	0	81.319	N - halo	NE - halo	NW - halo	340	60	310	110.349	118.397	
639	2012	3	21	22	24	0	81.933	SE	SW	SW	120	240	230	110.388	118.413	candidate
640	2012	3	23	1	54	0	83.079	SW	SW	E	230	230	100	110.461	118.443	
641	2012	3	23	20	9	15	83.840	NE	N	N	30	10	330	110.51	118.461	
642	2012	3	24	0	24	0	84.017	W - halo	E - halo	E - halo	290	60	100	110.521	118.465	
643	2012	3	25	0	54	0	85.038	NE	NW	N	40	320	10	110.588	118.488	candidate
644	2012	3	25	4	39	0	85.194	SW	SE	E	250	120	100	110.598	118.491	
645	2012	3	25	4	54	0	85.204	NW	N	N	300	20	10	110.599	118.491	
646	2012	3	25	9	9	15	85.381	NE	NW	NE	40	310	60	110.61	118.495	candidate
647	2012	3	25	12	9	15	85.506	NE	NW	E	60	300	70	110.619	118.497	candidate
648	2012	3	25	18	54	0	85.788	SE	SW	SW	120	240	230	110.637	118.503	candidate
649	2012	3	26	6	39	0	86.277	NE	NW	N	40	320	0	110.669	118.513	candidate
650	2012	3	26	23	9	15	86.965	W - halo	NE - halo	NE - halo	290	50	60	110.715	118.525	
651	2012	3	27	3	24	0	87.142	NE	NW	NW	50	320	330	110.727	118.529	
652	2012	3	27	7	24	0	87.308	N	N	N	350	350	20	110.738	118.531	
653	2012	3	27	22	39	0	87.944	S	SE	SW	160	120	250	110.781	118.542	
654	2012	3	28	1	9	15	88.048	NW	N	NE	330	350	30	110.788	118.544	
655	2012	3	28	18	39	0	88.777	SE	W	W	120	250	260	110.837	118.555	candidate
656	2012	3	28	22	9	15	88.923	NE	N	N	40	340	330	110.847	118.557	
657	2012	3	29	5	9	15	89.215	W	E	W - halo	250	100	260	110.867	118.561	
658	2012	3	30	0	24	0	90.017	NE	NW	N	30	330	10	110.922	118.572	
659	2012	3	30	15	39	0	90.652	N	NW	NE	0	300	40	110.966	118.58	
660	2012	4	2	2	9	15	93.090	NE	NW	N	50	300	10	111.136	118.603	candidate
661	2012	4	3	0	9	15	94.006	NE	NW	NE	50	300	30	111.201	118.61	candidate
662	2012	4	5	18	9	15	96.756	N	N	N	35	10	340	111.4	118.62	

663	2012	4	5	19	39	0	96.819	NW	NE	NE	310	50	40	111.405	118.62	
664	2012	4	5	21	24	0	96.892	NE	NW	NW	70	300	310	111.41	118.62	candidate
665	2012	4	6	8	39	0	97.360	S	SE	W	210	110	250	111.444	118.621	
666	2012	4	7	16	54	0	98.704	SW	SE	W - halo	240	100	260	111.543	118.62	
667	2012	4	7	19	24	0	98.808	E	W	W	90	250	280	111.551	118.62	candidate
668	2012	4	7	21	9	15	98.881	SW	SE	S	240	140	170	111.557	118.62	
669	2012	4	8	1	54	0	99.079	S	SE	W	140	110	260	111.571	118.62	
670	2012	4	8	5	54	0	99.246	S	SE	W	240	110	260	111.584	118.62	
671	2012	4	9	12	39	0	100.527	E - halo	N - halo	NW	60	10	310	111.679	118.616	candidate
672	2012	4	9	17	39	0	100.735	SW	SE	W	220	110	250	111.695	118.615	
673	2012	4	11	20	9	15	102.840	SW	SW - halo	W	240	230	100	111.854	118.603	
674	2012	4	12	12	9	15	103.506	W	E	E - halo	270	90	90	111.905	118.598	
675	2012	4	14	8	24	0	105.350	NE	NW	W	70	300	270	112.047	118.581	candidate
676	2012	4	15	2	39	0	106.110	NW - halo	halo	E	310	halo	80	112.106	118.572	
677	2012	4	15	9	54	0	106.413	E	W	NE	70	280	50	112.129	118.569	candidate
678	2012	4	16	5	24	0	107.225	SE	SW	W	140	240	250	112.193	118.559	candidate
679	2012	4	16	14	24	0	107.600	SE	S	W	140	240	250	112.222	118.554	
680	2012	4	16	15	24	0	107.642	NW	N	N	300	20	20	112.225	118.553	
681	2012	4	16	18	24	0	107.767	halo	W	NE	halo	270	60	112.235	118.552	candidate
682	2012	4	17	0	24	0	108.017	NW	N	N	330	10	10	112.255	118.548	
683	2012	4	17	8	39	0	108.360	W	SW	W	240	220	290	112.282	118.543	
684	2012	4	17	13	39	0	108.569	W	E	W	270	80	280	112.298	118.54	
685	2012	4	17	14	24	0	108.600	E	W	E	80	270	110	112.301	118.54	candidate
686	2012	4	18	2	39	0	109.110	W	NE	NE	280	60	60	112.341	118.532	
687	2012	4	18	9	9	15	109.381	W	NE	NE	280	60	60	112.362	118.528	
688	2012	4	18	14	54	0	109.621	W	NE	NE	280	60	60	112.381	118.524	
689	2012	4	18	13	9	15	109.548	SE	SW	W	100	140	260	112.375	118.525	candidate
690	2012	4	18	19	9	15	109.798	SE	SW	SW	100	140	230	112.395	118.521	candidate
691	2012	4	19	6	54	0	110.288	SE	SW	SE	110	240	120	112.434	118.513	candidate
692	2012	4	19	11	54	0	110.496	SE	SW	SE	110	240	120	112.451	118.51	candidate
693	2012	4	19	16	9	15	110.673	SE	SW	SE	110	240	120	112.465	118.507	candidate
694	2012	4	20	1	39	0	111.069	W	E	N - halo	290	60	0	112.496	118.5	
695	2012	4	20	15	9	15	111.631	SW	SE	SE	250	110	120	112.541	118.49	
696	2012	4	22	15	24	0	113.642	S	S	SW	160	160	240	112.703	118.45	

697	2012	4	23	18	9	15	114.756	E	W	SE - halo	110	250	130	112.794	118.426	candidate
698	2012	4	24	8	54	0	115.371	N - halo	W	NE	30	280	60	112.844	118.412	candidate
699	2012	4	24	12	54	0	115.538	SW	E	SW	240	110	230	112.858	118.409	
700	2012	4	27	0	39	0	118.027	SW	SE	SW	160	150	230	113.062	118.348	
701	2012	4	27	16	54	0	118.704	W	E	W	270	80	280	113.12	118.329	
702	2012	4	27	22	39	0	118.944	NE	NW	NE	30	300	40	113.14	118.323	candidate
703	2012	4	28	12	24	0	119.517	SE	E	SE	120	250	130	113.188	118.307	
704	2012	4	28	22	24	0	119.933	SW	SW	SW	240	140	240	113.223	118.295	
705	2012	4	29	10	39	24	120.444	NE	NW	NE	40	310	40	113.266	118.281	candidate
706	2012	4	29	19	24	0	120.808	NW	NE	NW	330	50	310	113.297	118.27	
707	2012	4	30	7	54	0	121.329	SE	S	SW	140	160	240	113.341	118.255	
708	2012	4	30	10	9	15	121.423	W	W	E	270	80	70	113.349	118.252	
709	2012	4	30	13	24	0	121.558	NW	NW	N	40	320	20	113.36	118.248	
710	2012	5	1	5	24	0	122.225	SE	SW	SW	120	230	230	113.417	118.228	candidate
711	2012	5	2	7	39	0	123.319	SE	SW	W	110	230	250	113.51	118.194	candidate
712	2012	5	2	10	54	0	123.454	NE	NW	NW	60	300	310	113.522	118.189	candidate
713	2012	5	3	2	24	0	124.100	SE	SW	SE	110	230	120	113.577	118.168	
714	2012	5	3	15	9	15	124.631	W	W - halo	E	270	300	80	113.623	118.151	
715	2012	5	11	4	24	0	132.183	NE	W	N	60	290	350	114.285	117.877	candidate
716	2012	5	11	5	24	0	132.225	SW	SE	SE	250	140	130	114.288	117.875	
717	2012	5	12	0	9	15	133.006	E	W	E	90	270	90	114.38	117.834	candidate
718	2012	5	12	21	39	0	133.902	NW	N	N	320	20	20	114.437	117.809	
719	2012	5	13	10	24	0	134.433	SW	S	SE	230	190	130	114.485	117.787	
720	2012	5	13	17	54	0	134.746	N	N	N	350	350	20	114.513	117.775	
721	2012	5	14	18	24	0	135.767	SW	SW	SE	230	210	120	114.604	117.733	
722	2012	5	15	13	39	0	136.569	W	E	SE	260	90	120	114.676	117.7	
723	2012	5	16	2	24	0	137.100	SE	SW	S	130	230	190	114.723	117.678	candidate
724	2012	5	16	14	24	0	137.600	W	NE	NW	280	60	300	114.768	117.657	
725	2012	5	16	17	9	15	137.715	N	NW	N	0	340	10	114.797	117.652	
726	2012	5	17	1	54	0	138.079	E - halo	SE - halo	W - halo	90	140	270	114.811	117.637	candidate
727	2012	5	17	14	54	0	138.621	W	E	E	270	90	90	114.86	117.614	
728	2012	5	18	6	9	15	139.256	E	W	W	80	270	270	114.917	117.587	candidate
729	2012	5	18	11	39	0	139.485	S	SE	S	180	130	180	114.938	117.577	
730	2012	5	18	21	39	0	139.902	N	NE	N	20	30	0	114.975	117.559	

731	2012	5	19	21	54	0	140.913	S	SE	SW	170	140	230	115.066	117.516	
732	2012	5	21	6	39	0	142.277	NW	E	E	310	80	70	115.19	117.456	
733	2012	5	21	10	9	15	142.423	S	SE	SW	170	130	230	115.203	117.45	
734	2012	5	22	4	24	0	143.183	SE	SW	S	110	250	180	115.272	117.416	candidate
735	2012	5	23	19	24	0	144.808	NE	NW	N	30	320	0	115.42	117.344	
736	2012	5	23	20	9	15	144.840	SW	SE	E	220	140	170	115.423	117.342	
737	2012	5	25	0	9	15	146.006	E	W	NW	70	310	300	115.53	117.29	candidate
738	2012	5	25	3	24	0	146.142	NW	NE	NE	300	30	40	115.542	117.284	
739	2012	5	25	11	39	0	146.485	E	W	E	70	280	60	115.574	117.268	candidate
740	2012	5	26	0	9	15	147.006	SE	SW	SW	120	200	240	115.622	117.244	candidate
741	2012	5	26	21	9	15	147.881	halo	E	W - halo	halo	60	300	115.702	117.205	
742	2012	5	27	6	54	0	148.288	NE	W	E	40	280	60	115.739	117.186	candidate
743	2012	5	29	10	24	0	150.433	SW	S	SE	220	180	130	115.937	117.087	
744	2012	5	30	3	54	0	151.163	N	N	N	20	350	0	116.005	117.053	
745	2012	5	31	0	54	0	152.038	SW	SE	S	220	130	190	116.086	117.012	
746	2012	6	1	23	9	15	153.965	E	NW	NW	90	320	310	116.265	116.922	candidate
747	2012	6	2	4	54	0	154.204	SE	SE	SW	150	220	250	116.288	116.911	
748	2012	6	2	12	9	15	154.506	NW	NE	NE	310	30	40	116.316	116.897	
749	2012	6	3	8	24	0	155.350	N	NE	N	20	0	350	116.394	116.857	
750	2012	6	3	13	24	0	155.558	S	SW	SE	160	240	140	116.414	116.847	
751	2012	6	3	18	39	0	155.777	N	NW	NE	10	310	30	116.434	116.837	
752	2012	6	4	17	24	24	156.725	W	E	W	270	90	250	116.523	116.793	
753	2012	6	5	6	24	0	157.267	SE	SE	W	130	130	260	116.574	116.767	
754	2012	6	5	20	39	0	157.860	E	W	N	70	300	10	116.629	116.74	candidate
755	2012	6	6	6	9	15	158.256	SE	SE	SW	150	160	240	116.666	116.721	
756	2012	6	6	20	39	0	158.860	SE	SW	S	110	240	180	116.723	116.693	candidate
757	2012	6	8	3	39	0	160.152	SE	SW	S	120	230	200	116.843	116.633	candidate
758	2012	6	8	19	9	15	160.798	N	N	N	350	10	20	116.904	116.603	
759	2012	6	8	19	24	0	160.808	SW	SE	E	250	170	80	116.905	116.603	
760	2012	6	8	23	9	15	160.965	S	SE	SW	190	130	250	116.919	116.596	
761	2012	6	9	19	24	0	161.808	SW	SE	SW	220	120	240	116.998	116.557	
762	2012	6	10	16	9	15	162.673	SW	SE	SE	240	140	120	117.079	116.518	
763	2012	6	11	12	24	0	163.517	S	SE	SW	180	140	240	117.158	116.479	
764	2012	6	11	21	24	0	163.892	S	SE	W	170	130	250	117.193	116.463	

765	2012	6	12	0	9	15	164.006	S	SE	SW	170	140	230	117.203	116.457	
766	2012	6	12	5	39	0	164.235	S	SE	SW	190	120	240	117.225	116.447	
767	2012	6	12	17	39	0	164.735	E	W	E	80	270	90	117.271	116.425	candidate
768	2012	6	13	14	9	15	165.590	SE	SW	SE	120	240	130	117.351	116.387	candidate
769	2012	6	14	13	54	0	166.579	E - halo	W - halo	S - halo	100	250	150	117.443	116.343	candidate
770	2012	6	15	14	54	0	167.621	W	NE	E	280	40	70	117.54	116.298	
771	2012	6	17	6	9	15	169.256	SE	SW	W	120	210	250	117.692	116.227	candidate
772	2012	6	17	9	54	0	169.413	SW	SE	SE	220	150	120	117.706	116.221	
773	2012	6	19	7	24	0	171.308	NW	NW	NE	330	320	50	117.882	116.141	
774	2012	6	20	5	9	15	172.215	SW	S	SE	220	180	120	117.966	116.103	
775	2012	6	21	11	24	0	173.475	SW	S	SE	210	200	120	118.082	116.052	
776	2012	6	22	21	39	0	174.902	SE	W	S	130	230	190	118.214	115.995	candidate
777	2012	6	23	7	39	0	175.319	NE - halo	NE - halo	NW	30	10	310	118.253	115.979	
778	2012	6	24	2	9	15	176.090	E	SE	W	200	110	250	118.324	115.949	
779	2012	6	25	19	24	0	177.808	SW	S	E	240	190	100	118.482	115.635	
780	2012	6	26	10	24	0	178.433	SW	SE	SW	230	110	220	118.54	115.859	
781	2012	6	26	13	24	0	178.558	NW	N	NE	330	340	30	118.552	115.855	
782	2012	6	27	11	54	0	179.496	N	N	N	10	20	350	118.653	115.814	
783	2012	6	28	6	24	0	180.267	SW	SE	S - halo	230	120	180	118.709	115.792	
784	2012	6	28	16	54	0	180.704	NE	NW	NE	30	300	50	118.749	115.776	candidate
785	2012	6	28	20	9	15	180.840	N	NW	NE	0	320	40	118.762	115.771	
786	2012	6	29	0	39	0	181.027	SE	SW	SE	150	240	140	118.779	115.765	candidate
787	2012	6	29	2	39	0	181.110	E	W	SE	90	280	120	118.787	115.762	candidate
788	2012	6	29	9	54	0	181.413	NE	NW	N	30	310	20	118.814	115.751	
789	2012	6	30	16	24	0	182.683	SE	SW	SE	140	240	140	118.931	115.707	candidate
790	2012	7	1	6	39	0	183.277	SE	SW	SE	120	240	140	118.986	115.686	candidate
791	2012	7	1	12	39	0	183.527	NE	NW	NE	10	310	30	119.008	115.678	
792	2012	7	1	15	39	0	183.652	SE	SW	S	140	220	170	119.02	115.674	candidate
793	2012	7	2	0	9	15	184.006	SE	SW	W	100	280	280	119.052	115.662	candidate
794	2012	7	2	8	39	0	184.360	W	E - halo	E - halo	270	90	90	119.085	115.65	
795	2012	7	2	12	24	0	184.517	SE	SW	S	120	230	190	119.099	115.645	candidate
796	2012	7	2	14	9	15	184.590	NW	NE	N	310	40	20	119.106	115.643	
797	2012	7	2	19	39	59	184.819	SE	SW	S	120	230	190	119.127	115.635	candidate
798	2012	7	2	20	24	0	184.850	SE	SW	S	120	230	190	119.13	115.634	candidate

799	2012	7	3	3	9	15	185.131	SE	SW	SW	130	210	210	119.155	115.625	candidate
800	2012	7	3	8	54	0	185.371	SE	SW	SW	130	210	210	119.177	115.617	candidate
801	2012	7	3	21	9	15	185.881	E	W	SW	90	260	220	119.224	115.601	candidate
802	2012	7	4	5	24	0	186.225	SE	SW	SW	140	190	210	119.255	115.59	candidate
803	2012	7	4	9	9	15	186.381	SE	S	SW	140	190	210	119.27	115.585	
804	2012	7	4	13	9	15	186.548	SE	S	SW	140	190	210	119.285	115.58	
805	2012	7	4	14	24	0	186.600	N	NE	N	0	10	0	119.289	115.578	
806	2012	7	4	20	54	0	186.871	SE	S	SW	140	190	210	119.314	115.57	
807	2012	7	4	22	54	0	186.954	SE	S	SW	140	190	210	119.322	115.568	
808	2012	7	5	13	54	0	187.579	SE	S	SW	140	200	230	119.379	115.549	
809	2012	7	5	22	9	15	187.923	SE	S	W	140	190	250	119.41	115.538	
810	2012	7	6	3	24	0	188.142	SE	SE	W	130	160	250	119.34	115.532	
811	2012	7	6	11	9	15	188.465	SE	E	W	130	90	250	119.459	115.522	
812	2012	7	7	0	9	15	189.006	S	S	SW	160	170	230	119.508	115.507	
813	2012	7	8	0	9	15	190.006	SW	SE	SW	210	130	230	119.598	115.479	
814	2012	7	8	7	24	0	190.308	N	N	N	0	340	10	119.626	115.471	
815	2012	7	8	11	9	15	190.465	SE	S	SW	130	170	240	119.64	115.466	
816	2012	7	8	14	39	0	190.610	W	E	SE - halo	280	70	60	119.653	115.462	
817	2012	7	8	16	54	0	190.704	SE	SE	SW	130	160	250	119.661	115.46	
818	2012	7	8	18	24	0	190.767	E	SE	SW	100	160	250	119.667	115.458	
819	2012	7	8	19	54	0	190.829	SE	S	SW	130	160	250	119.672	115.457	
820	2012	7	9	6	9	15	191.256	SE	SE	W	130	160	260	119.711	115.445	
821	2012	7	9	16	54	0	191.704	SW	SE	SW	240	120	230	119.751	115.434	
822	2012	7	10	19	24	0	192.069	S	S	SW	160	150	240	119.85	115.406	
823	2012	7	10	20	9	0	192.808	W	SE	SW	270	80	240	119.853	115.405	
824	2012	7	11	0	54	0	193.038	SW	SE	S	240	120	200	119.87	115.401	
825	2012	7	11	14	39	0	193.610	N	NW	N	20	330	20	119.921	115.387	candidate
826	2012	7	11	16	39	0	193.694	NE	N	NW	30	20	300	119.929	115.385	
827	2012	7	11	18	54	0	193.788	S	SE	SW	190	130	220	119.937	115.383	
828	2012	7	12	4	24	0	194.183	W	E	SW	270	90	240	119.972	115.374	
829	2012	7	13	3	9	15	195.131	N	N	N	0	0	10	120.056	115.353	
830	2012	7	13	8	39	0	195.360	SW	SE	E	250	130	100	120.076	115.348	
831	2012	7	13	23	9	15	195.965	W	E	E	280	130	80	120.13	115.335	
832	2012	7	14	0	24	0	196.538	W	E	E	270	90	80	120.134	115.334	

833	2012	7	17	13	9	15	199.548	SW	SE	W	230	130	270	120.443	115.269	
834	2012	7	17	14	9	15	199.590	E	S	SW	110	190	240	120.447	115.269	candidate
835	2012	7	18	6	39	0	200.277	NW	E	N - halo	310	70	0	120.507	115.258	
836	2012	7	19	5	39	0	201.235	SE - halo	SE - halo	W - halo	120	130	270	120.59	115.244	candidate
837	2012	7	21	5	39	0	203.235	N	N	N	350	20	350	120.762	115.218	
838	2012	7	22	13	24	0	204.558	N	N	N	350	20	340	120.875	115.204	
839	2012	7	23	2	54	0	205.121	W - halo	E - halo	W - halo	270	90	290	120.923	115.199	
840	2012	7	24	0	39	0	206.027	N	N	N	20	350	350	121	115.191	
841	2012	7	27	0	9	15	209.006	N	N	N	340	350	20	121.251	115.173	
842	2012	7	30	14	39	0	212.610	NW	N	N	320	10	10	121.552	115.166	
843	2012	7	31	10	9	15	213.423	SE	SE	SW	120	160	260	121.619	115.167	
844	2012	7	31	11	54	0	213.496	N	NW	NE	340	330	40	121.625	115.168	
845	2012	7	31	20	24	0	213.850	NW	N	NE	310	10	20	121.654	115.158	
846	2012	8	2	13	39	0	215.569	SE	SE	W	140	120	260	121.795	115.175	
847	2012	8	3	19	9	15	216.798	NE	NW	NW	60	320	320	121.895	155.182	candidate
848	2012	8	4	14	39	0	217.610	SE - halo	W - halo	E - halo	120	270	90	121.96	115.188	candidate
849	2012	8	8	5	24	0	221.225	E	W	W	80	280	290	122.249	115.227	candidate
850	2012	8	10	2	39	0	223.110	NE	NE	N	20	20	340	122.396	115.256	
851	2012	8	10	12	24	0	223.517	SW - halo	E	W - halo	230	90	250	122.428	115.263	
852	2012	8	12	16	24	0	225.683	NE	N	N	30	350	340	122.594	115.304	
853	2012	8	13	13	24	0	226.558	NE	NW	N	40	310	10	122.661	115.323	candidate
854	2012	8	14	0	54	0	227.038	NE	NW	N - halo	50	320	20	122.697	115.334	candidate
855	2012	8	14	3	9	15	227.131	E	W	N - halo	80	280	340	122.704	115.337	candidate
856	2012	8	15	4	39	0	228.194	NE	NW	N	40	320	340	122.784	115.362	candidate
857	2012	8	16	0	54	0	229.038	SW	S	SE	230	180	120	122.848	115.384	
858	2012	8	16	7	54	0	229.329	NE	SW	NE	30	310	30	122.869	115.392	candidate
859	2012	8	16	13	39	0	229.569	NE	SW	NW	60	320	310	122.887	115.398	candidate
860	2012	8	17	13	54	0	230.579	N	NW	NE	340	330	50	122.962	115.427	
861	2012	8	18	0	9	15	231.006	NE	N	NE	40	340	30	122.993	115.439	
862	2012	8	18	1	24	0	231.058	N	N	N	350	340	0	122.997	115.441	
863	2012	8	18	7	9	15	231.298	N	N	NE	340	340	30	123.015	115.448	
864	2012	8	18	11	9	15	231.465	W	NE	NW	290	50	300	123.027	115.453	
865	2012	8	18	13	39	0	231.569	N	N	NE	340	340	30	123.035	115.456	
866	2012	8	18	15	54	0	231.663	N	N	NE	340	340	30	123.042	115.459	

867	2012	8	19	0	9	15	232.006	N	N	N	350	340	20	123.067	115.47	
868	2012	8	19	2	9	15	232.090	W	E	E	270	90	90	123.073	115.473	
869	2012	8	19	5	39	0	232.235	W	E	E	270	90	90	123.083	115.477	
870	2012	8	19	10	24	0	232.433	W	E	E	270	90	90	123.098	115.484	
871	2012	8	19	18	39	0	232.777	W	E	E - halo	270	90	90	123.123	115.494	
872	2012	8	20	14	24	0	233.600	N	N	NE	330	10	20	123.183	115.522	
873	2012	8	20	21	24	0	233.892	W	E	NE - halo	280	90	40	123.204	115.532	
874	2012	8	21	0	39	0	234.027	N	N	N	0	20	340	123.213	115.537	
875	2012	8	21	20	24	15	234.850	W	E	E - halo	270	90	90	123.273	115.565	
876	2012	8	22	10	24	0	235.433	E	NW	W	70	330	290	123.314	115.587	candidate
877	2012	8	24	8	24	0	237.350	NW	NW	NE	320	310	60	123.451	115.66	
878	2012	8	25	16	24	0	238.683	W	E	E - halo	270	70	80	123.544	115.714	
879	2012	8	26	8	54	0	239.371	E	W	halo	90	270	halo	123.592	115.743	candidate
880	2012	8	26	10	39	0	239.444	NW	NE	NE	300	70	40	123.597	115.747	
881	2012	8	26	11	39	0	239.485	N	N	N	350	0	10	123.6	115.748	
882	2012	8	27	0	9	15	240.006	NE	N	N	30	340	340	123.637	115.771	candidate
883	2012	8	30	15	39	0	243.652	N	N	N	20	0	340	123.886	115.942	
884	2012	8	31	11	24	0	244.475	W	NW	E	270	330	80	123.942	115.983	
885	2012	8	31	20	9	15	244.840	E - halo	W - halo	E - halo	90	270	90	123.966	116.002	candidate
886	2012	9	1	16	9	35	245.673	N	N	N	340	20	0	124.022	116.045	
887	2012	9	2	2	54	0	246.121	E	NW	E - halo	70	300	300	124.052	116.069	candidate
888	2012	9	2	9	54	0	246.413	NE	NW	E	60	310	300	124.071	116.085	candidate
889	2012	9	2	18	39	0	246.777	E	NW	E - halo	70	300	300	124.095	116.105	
890	2012	9	3	16	54	0	247.704	NE	NW	NW	60	310	310	124.156	116.157	candidate
891	2012	9	4	13	24	0	248.558	N	N	N	0	10	0	124.212	116.206	
892	2012	9	7	2	39	0	251.110	SW	SE	W	230	110	250	124.375	116.359	
893	2012	9	8	10	9	15	252.423	SW - halo	E	W	210	110	270	124.457	116.443	
894	2012	9	10	11	24	0	254.475	SE	SW	SW	140	210	210	124.584	116.579	candidate
895	2012	9	11	3	39	0	255.152	NE	NW	NW	30	320	310	124.625	116.626	
896	2012	9	13	6	9	15	257.256	NW	NE	NW	320	30	310	124.752	116.775	
897	2012	9	13	7	39	24	257.319	NE	NW	E	40	310	70	124.755	116.78	candidate
898	2012	9	15	8	24	0	259.350	SW	S	SE	230	200	120	124.875	116.931	
899	2012	9	16	9	54	0	260.413	NE	N	NW	60	50	330	124.936	117.013	
900	2012	9	16	15	39	0	260.652	NW	NE	NW	330	80	310	124.95	117.032	

901	2012	9	17	2	24	0	261.100	NE	N	NW	50	350	320	124.975	117.068	
902	2012	9	17	13	9	15	261.548	NW	NE	NE	310	30	40	125.001	117.103	
903	2012	9	17	23	9	15	261.965	NW	NW	NE	330	340	40	125.025	117.137	
904	2012	9	18	3	9	15	262.131	N	NE	N	340	330	10	125.034	117.15	
905	2012	9	18	16	54	0	262.704	NW	NE	NE	300	30	50	125.066	117.197	
906	2012	9	18	19	54	0	262.829	W	NE	NE	280	50	50	125.073	117.207	
907	2012	9	19	11	39	0	263.485	W	E	N - halo	260	110	10	125.11	117.261	
908	2012	9	19	12	54	0	263.538	W	E	NE	290	70	30	125.113	117.265	
909	2012	9	20	5	39	0	264.235	W	E	E - halo	270	80	90	125.152	117.323	
910	2012	9	20	8	54	0	264.371	NE	NE	NW	30	30	320	125.159	117.335	
911	2012	9	20	15	9	15	264.631	SW - halo	SE - halo	SE - halo	240	120	120	125.174	117.357	
912	2012	9	21	0	9	15	265.006	N	N	N	0	20	350	125.195	117.389	
913	2012	9	21	6	24	0	265.267	NW	NE	NE	310	60	30	125.209	117.411	
914	2012	9	22	3	24	0	266.142	W	S - halo	E - halo	260	180	80	125.257	117.486	
915	2012	9	23	15	39	0	267.652	NW - halo	N - halo	N - halo	310	340	60	125.339	117.619	
916	2012	9	27	10	24	0	271.433	SW - halo	SE - halo	SW - halo	240	110	230	125.539	117.967	
917	2012	9	28	0	9	15	272.006	E - halo	W - halo	W - halo	70	300	300	125.569	118.021	candidate
918	2012	9	28	10	39	0	272.444	W	E - halo	W - halo	250	100	250	125.592	118.063	
919	2012	9	29	0	9	15	273.006	W	E	halo	250	110	halo	125.621	118.118	
920	2012	9	29	4	24	0	273.183	E	W - halo	W - halo	70	260	290	125.63	118.135	
921	2012	9	29	9	24	0	273.392	NW	N	NE	300	20	30	125.64	118.155	
922	2012	9	30	17	54	0	274.746	S	SW	SE	180	240	120	125.709	118.289	
923	2012	10	5	2	39	0	279.110	E	W	SW	100	260	240	125.923	118.738	candidate
924	2012	10	5	7	39	0	279.319	N	N	N	10	350	10	125.933	118.761	
925	2012	10	6	14	9	15	280.590	W	S	E	250	160	90	125.993	118.897	
926	2012	10	7	7	54	0	281.329	S	SE	S	180	140	190	126.028	118.978	candidate
927	2012	10	7	10	9	15	281.423	SE	SE	SW	140	220	240	126.032	118.988	
928	2012	10	7	20	54	0	281.871	NW - halo	NW	NE	330	340	40	126.053	119.037	
929	2012	10	8	11	24	0	282.475	S	SW	E	230	250	90	126.08	119.104	
930	2012	10	9	0	9	15	283.006	E	W	E	90	270	90	126.105	119.164	candidate
931	2012	10	12	1	39	0	286.069	N	N	N	340	20	10	126.241	119.514	
932	2012	10	14	0	54	0	288.038	W	E - halo	E - halo	270	80	70	126.326	119.746	
933	2012	10	15	0	39	0	289.027	NE	NE	NW	50	30	300	126.368	119.865	
934	2012	10	15	14	9	15	289.590	NW	NE	N	310	30	20	126.392	119.933	

935	2012	10	16	4	39	0	290.194	NW	NE	N	310	50	10	126.417	120.006	
936	2012	10	18	8	9	15	292.340	NW	NE	NE	310	30	30	126.505	120.271	
937	2012	10	18	13	24	0	292.558	SE	SW	SW	20	220	230	126.514	120.299	candidate
938	2012	10	19	0	9	15	293.006	SE	SE	SW	140	140	240	126.532	120.355	
939	2012	10	19	8	24	0	293.350	SE	SE	SW	140	140	240	126.546	120.398	
940	2012	10	19	12	9	15	293.506	NW	E	N	330	80	340	126.552	120.418	
941	2012	10	19	18	39	0	293.777	NW	E	N	330	80	340	126.563	120.452	
942	2012	10	21	21	39	0	295.902	W	W - halo	E	260	280	80	126.647	120.723	
943	2012	10	24	0	24	0	298.017	NW	NE	N	320	30	20	126.729	120.998	
944	2012	10	26	10	39	0	300.444	SW - halo	SW	E	230	230	100	126.821	121.32	candidate
945	2012	10	27	13	54	0	301.579	E	W	N - halo	70	300	20	126.864	121.472	candidate
946	2012	10	28	9	54	0	302.413	E	E	W	90	110	270	126.895	121.585	
947	2012	10	31	11	24	0	305.475	E	NE	NW	70	20	300	127.005	122.007	
948	2012	11	2	23	24	0	307.975	NE	NE	NW	50	30	320	127.093	122.358	
949	2012	11	3	5	54	0	308.246	SW	SE	SW	210	130	210	127.102	122.397	
950	2012	11	3	6	24	0	308.267	NW	NE	S	330	50	190	127.103	122.399	
951	2012	11	4	1	39	0	309.069	E	NE	W	70	30	290	127.13	122.514	
952	2012	11	7	4	24	0	312.183	NW	E	NW	340	70	310	127.234	122.964	
953	2012	11	8	2	54	0	313.121	W - halo	NW	E - halo	300	330	70	127.264	123.101	
954	2012	11	8	11	9	15	313.465	SW - halo	E	W - halo	230	110	260	127.275	123.152	
955	2012	11	8	19	24	0	313.808	W	E	W	300	90	290	127.286	123.203	
956	2012	11	9	1	9	15	314.048	SW	S	SE	240	190	130	127.294	123.238	
957	2012	11	9	15	9	15	314.631	E	W	W - halo	100	270	250	127.313	123.324	candidate
958	2012	11	10	5	24	0	315.225	SE	SW	SW	120	240	240	127.331	123.413	candidate
959	2012	11	10	16	39	0	315.694	SE - halo	E	W	140	100	250	127.346	123.483	
960	2012	11	11	1	54	0	316.079	SE	S	SW	120	180	230	127.358	123.54	candidate
961	2012	11	14	14	9	15	319.590	W	E	W	270	110	250	127.465	124.071	
962	2012	11	16	1	9	15	321.048	SW - halo	E - halo	E - halo	250	110	70	127.509	124.294	
963	2012	11	16	7	39	0	321.319	SW - halo	E - halo	E - halo	250	110	70	127.517	124.335	
964	2012	11	16	12	24	0	321.517	W	E - halo	E - halo	280	110	70	127.522	124.366	
965	2012	11	18	21	24	0	323.892	SW	S	SE	240	190	120	127.592	124.733	
966	2012	11	20	12	9	15	325.506	E	NW	W - halo	70	320	290	127.639	124.984	candidate
967	2012	11	21	18	54	0	326.788	E	W	E - halo	70	280	70	127.676	125.185	candidate
968	2012	11	22	1	24	0	327.058	N	NE	W	320	70	290	127.683	125.227	

969	2012	11	22	1	39	0	327.069	N	N	N	340	10	10	127.684	125.229	
970	2012	11	22	10	54	0	327.454	E - halo	W	E	70	270	70	127.695	125.289	candidate
971	2012	11	23	9	54	0	328.413	SW	SE	W	270	100	260	127.722	125.44	
972	2012	11	23	11	24	0	328.475	W	E	NE	320	250	60	127.724	125.45	
973	2012	11	23	13	54	0	328.579	SE	E	E	330	60	110	127.727	125.466	candidate
974	2012	11	24	0	24	0	329.017	NW - halo	NE - halo	N - halo	330	60	0	127.739	125.535	
975	2012	11	26	18	24	0	331.767	SE	SW	SE	120	240	140	127.817	125.971	candidate
976	2012	11	26	18	54	0	331.788	N	N	N	20	10	340	127.817	125.974	
977	2012	11	27	3	24	0	332.142	N - halo	N - halo	NE	0	330	30	127.827	126.031	
978	2012	11	27	5	39	0	332.235	E	W	W	90	270	280	127.83	126.045	candidate
979	2012	11	27	16	9	15	332.673	SW	E	S	220	160	160	127.842	126.115	
980	2012	11	27	23	9	15	332.965	NE	NW	N	30	320	20	127.85	126.162	candidate
981	2012	11	29	19	9	15	334.798	SW	S	S	200	180	160	127.901	126.455	
982	2012	12	2	10	54	0	337.454	NW	NE	N	310	70	340	127.973	126.882	
983	2012	12	2	16	24	0	337.683	NW	NE	N	310	60	0	127.98	126.922	
984	2012	12	4	0	54	0	339.038	N	N	N	20	10	340	128.016	127.138	
985	2012	12	5	1	24	0	340.058	NE - halo	W	NE	60	290	60	128.043	127.303	candidate
986	2012	12	6	2	39	0	341.110	E	W	W	100	260	270	128.071	127.474	candidate
987	2012	12	7	10	9	15	342.423	NE	NE	NW	60	40	310	128.106	127.687	
988	2012	12	8	13	39	0	343.569	E	W	W	110	270	280	128.136	127.874	candidate
989	2012	12	10	15	54	0	345.663	W	E	NE	280	80	60	128.19	128.216	
990	2012	12	12	8	54	0	347.371	W	E	E	270	90	80	128.235	128.496	
991	2012	12	14	2	9	15	349.090	E	E	W	100	80	270	128.279	128.777	
992	2012	12	14	5	54	0	349.246	S	SW	SE	180	240	130	128.283	128.803	
993	2012	12	15	1	54	0	350.079	W	E	E	270	90	90	128.304	128.94	
994	2012	12	17	19	9	35	352.798	NE	NW	N	30	330	350	128.375	129.385	candidate
995	2012	12	20	13	24	0	355.558	W	E	NE	280	70	60	128.448	129.835	
996	2012	12	21	11	24	0	356.475	SW	SE	SE	240	160	130	128.472	129.985	
997	2012	12	27	21	54	0	362.913	NW	NE	NW	310	70	320	128.647	131.027	
998	2012	12	31	4	24	0	366.183	NW	NE	NE	300	30	40	128.647	131.027	
2013																
999	2013	1	1	1	54	0	1.079	NW	NE	N	310	30	20	128.764	131.693	
1000	2013	1	2	9	24	0	2.392	NE	NE	W	50	60	290	128.801	131.902	
1001	2013	1	3	15	24	0	3.642	N	NE	N	10	30	340	128.837	132.1	

1002	2013	1	6	6	54	0	6.288	SE - halo	E	W	130	100	270	128.913	132.517	
1003	2013	1	7	0	9	15	7.006	NW	NE	NE	310	50	50	128.934	132.629	
1004	2013	1	7	3	54	0	7.163	NW	NE	NE	290	50	50	128.939	132.654	
1005	2013	1	7	11	39	0	7.485	SE	SE	SW	130	140	240	128.948	132.704	
1006	2013	1	11	1	9	15	11.048	W	W - halo	E	270	270	90	129.054	133.257	
1007	2013	1	13	7	24	0	13.308	E	W	N	90	280	340	129.122	133.603	candidate
1008	2013	1	14	9	39	0	14.402	W	S	E	270	180	80	129.156	133.769	
1009	2013	1	15	8	24	0	15.350	SE	SW	W	100	240	270	129.186	133.913	candidate
1010	2013	1	15	20	24	0	15.850	N	NE	NW	0	50	330	129.202	133.988	
1011	2013	1	16	19	8	0	16.797	E	W	W	100	240	260	129.232	134.13	candidate
1012	2013	1	19	4	24	0	19.183	N	N	N	350	340	10	129.31	134.483	
1013	2013	1	20	9	39	0	20.402	N	NE	N	0	30	340	129.35	134.662	
1014	2013	1	21	8	54	0	21.371	E	E	W	100	80	280	129.383	134.803	
1015	2013	1	22	5	39	0	22.235	S	SW	E	190	240	100	129.413	134.927	
1016	2013	1	23	4	24	0	23.183	S	SW	E	200	240	110	129.445	135.063	
1017	2013	1	23	14	39	0	23.610	NE	NW	N	30	320	0	129.46	135.124	candidate
1018	2013	1	27	7	9	15	27.298	N	N	N	20	10	350	129.593	135.642	
1019	2013	1	28	23	9	15	28.965	SW	SE	SW	230	110	230	129.654	135.871	
1020	2013	1	29	17	24	0	29.725	W	SW	SW	270	130	210	129.683	135.975	
1021	2013	1	31	7	24	0	31.308	SE	SW	SE	140	240	150	129.743	136.189	candidate
1022	2013	1	31	17	54	0	31.746	NW	NW	NE	310	300	60	129.76	136.247	
1023	2013	2	1	22	24	0	32.933	SE	SW	SW	130	250	240	129.805	136.405	candidate
1024	2013	2	2	14	24	0	33.600	W	W	E	260	270	90	129.831	136.493	
1025	2013	2	3	8	54	0	34.371	N	NW	NE	340	310	50	129.862	136.591	
1026	2013	2	6	0	39	0	37.027	NE	NW	NE	30	310	40	129.968	136.936	candidate
1027	2013	2	6	3	54	0	37.163	NE	NW	NE	30	290	40	129.973	136.953	candidate
1028	2013	2	9	0	0	15	40.000	SW	SE	SW	230	110	230	130.09	137.309	
1029	2013	2	9	6	39	0	40.277	NE	NW	N	60	320	340	130.101	137.343	candidate
1030	2013	2	11	4	54	0	42.204	SE	SE	W	150	120	250	130.183	137.578	
1031	2013	2	11	23	9	15	42.965	NW	NW	NE	300	330	20	130.216	137.669	
1032	2013	2	12	23	9	15	43.965	SE	SW	SW	110	210	240	130.259	137.788	candidate
1033	2013	2	14	5	9	15	45.215	NE	NE	NW	40	30	320	130.314	137.934	
1034	2013	2	14	23	9	15	45.965	NE	E	W	60	80	290	130.348	138.02	
1035	2013	2	15	17	39	0	46.735	NE	NW	NE	40	300	40	130.382	138.109	candidate

1036	2013	2	17	2	24	0	48.100	SE	S	SW	130	210	220	130.445	138.262	
1037	2013	2	19	5	9	15	50.215	NE	NW	N	40	320	0	130.544	138.494	candidate
1038	2013	2	22	6	39	0	53.277	N	NW	NE	0	300	40	130.692	138.818	
1039	2013	2	23	6	54	0	54.288	SW	SW	E	210	240	110	130.742	138.921	
1040	2013	2	23	20	24	0	54.850	SE	E	W	110	100	260	130.77	138.978	
1041	2013	2	24	2	9	15	55.090	SW	SE	SW	250	120	240	130.783	139.002	
1042	2013	2	25	6	39	0	56.277	NE	NE	NW	60	50	310	130.843	139.12	
1043	2013	2	25	17	2	0	56.710	SW	SW	SW	230	220	230	130.865	139.162	
1044	2013	2	26	10	54	0	57.454	E - halo	E	W	90	70	280	130.903	139.235	candidate
1045	2013	2	26	14	39	0	57.610	NE	N	NW	60	20	310	130.911	139.25	
1046	2013	2	27	5	24	0	58.225	E	E	W	110	110	260	130.943	139.308	
1047	2013	2	27	14	9	15	58.590	N	N	N	20	20	330	130.962	139.343	
1048	2013	2	28	1	54	0	59.079	W	W	E	270	250	90	130.988	139.389	
1049	2013	3	1	20	9	15	60.840	E	E	W	110	110	270	131.081	139.551	
1050	2013	3	2	4	24	0	61.183	N	NE	NW	340	50	330	131.1	139.582	
1051	2013	3	5	3	39	0	64.152	W - halo	E - halo	E - halo	270	90	90	131.261	139.843	
1052	2013	3	9	16	24	0	68.683	N	NE	N	330	40	340	131.515	140.213	
1053	2013	3	12	11	9	35	71.465	NE	NW	N	30	330	20	131.676	140.423	candidate
1054	2013	3	13	1	9	15	72.048	W - halo	W	E	260	260	90	131.711	140.466	candidate
1055	2013	3	13	14	24	0	72.600	SE	SW	S	140	230	160	131.743	140.505	candidate
1056	2013	3	15	6	54	0	74.288	E - halo	W - halo	NE - halo	90	270	50	131.844	140.622	candidate
1057	2013	3	16	14	39	0	75.610	NE	NW	N	50	330	340	131.925	140.71	
1058	2013	3	17	15	54	0	76.663	NE	NW	N	60	330	0	131.989	140.778	candidate
1059	2013	3	20	16	24	0	79.683	N	N	N	350	20	350	132.179	140.961	
1060	2013	3	21	22	54	0	80.954	E	E	W	90	80	280	132.26	141.033	
1061	2013	3	22	11	39	0	81.485	SW	SW	E	230	240	110	132.295	141.062	
1062	2013	3	23	12	39	0	82.527	SW	SE	SW	220	110	230	132.363	141.118	
1063	2013	3	24	14	24	0	83.600	NE	N	NW	70	0	330	132.433	141.173	
1064	2013	3	28	18	9	15	87.756	SW	SE	S	200	130	200	132.712	141.366	
1065	2013	4	1	20	39	0	91.860	NW	NE	N	300	60	350	132.997	141.527	
1066	2013	4	3	2	24	0	93.100	N	N	N	350	0	0	133.085	141.571	
1067	2013	4	5	7	9	15	95.298	W	W - halo	E	280	280	70	133.246	141.642	
1068	2013	4	6	1	39	0	96.069	N	N	NE	320	350	30	133.295	141.662	
1069	2013	4	6	11	54	0	96.496	E	SW	E	90	240	100	133.326	141.674	candidate

1070	2013	4	7	5	39	0	97.235	NW	N	NE	330	0	30	133.379	141.694	
1071	2013	4	8	9	39	0	98.402	S	SE	SW	160	110	240	133.458	141.722	
1072	2013	4	11	7	39	0	101.319	E - halo	W - halo	E - halo	90	270	90	133.678	141.788	candidate
1073	2013	4	12	3	54	0	102.163	NE	NE	NW	30	50	300	133.741	141.803	
1074	2013	4	18	4	39	0	108.194	S	SE	SW	180	130	210	134.2	141.879	
1075	2013	4	18	18	39	0	108.777	E	NE - halo	W	80	40	290	134.245	141.883	candidate
1076	2013	4	20	1	24	0	110.058	N	N	N	350	0	0	134.345	141.89	
1077	2013	4	20	2	54	0	110.121	E	E	W	90	90	270	134.35	141.89	
1078	2013	4	20	7	39	0	110.319	E	W	E	90	270	90	134.365	141.891	
1079	2013	4	21	7	54	0	111.329	E	NE	W - halo	90	60	280	134.445	141.894	
1080	2013	4	21	16	39	0	111.694	E	E	W	90	60	280	134.474	141.895	
1081	2013	4	21	20	39	0	111.860	E	E	W	90	60	280	134.487	141.895	
1082	2013	4	22	17	24	0	112.725	SE	E	W	120	110	260	134.556	141.895	
1083	2013	4	23	6	24	0	113.267	S	SW	SE	170	210	150	134.599	141.895	
1084	2013	4	23	19	9	15	113.798	E	E	W	110	110	270	134.641	141.894	
1085	2013	4	24	0	39	0	114.027	W - halo	E - halo	N - halo	290	70	350	134.66	141.893	
1086	2013	4	24	6	24	0	114.267	SW	S	SE	220	170	150	134.679	141.893	
1087	2013	4	24	22	24	0	114.933	S	E	W - halo	200	90	280	134.733	141.89	
1088	2013	4	25	0	54	0	115.038	S	E	E	200	110	260	134.741	141.89	
1089	2013	4	25	8	39	0	115.360	W	E	E - halo	270	90	90	134.767	141.889	
1090	2013	4	25	9	24	0	115.392	N	N	N	0	340	20	134.77	141.889	
1091	2013	4	26	18	39	0	116.777	SE	SW	S	120	220	180	134.882	141.881	
1092	2013	4	28	13	39	0	118.569	SW	S	W	240	100	250	135.028	141.866	
1093	2013	4	28	20	54	0	118.871	SE	W	SE	110	180	120	135.052	141.863	candidate
1094	2013	4	29	3	24	0	119.142	SW	SE	SE	240	140	130	135.075	141.861	
1095	2013	4	29	18	39	0	119.777	SW	SE	SE	240	130	130	135.127	141.854	
1096	2013	4	30	6	24	0	120.267	SW - halo	E	W	230	110	260	135.167	141.848	
1097	2013	5	1	2	54	0	121.121	W	N - halo	E - halo	290	350	70	135.237	141.838	
1098	2013	5	2	5	24	0	122.225	NE	N	N	40	340	0	135.328	141.823	
1099	2013	5	2	14	54	0	122.621	SE	SE	SW	140	140	240	135.361	141.817	
1100	2013	5	3	18	9	15	123.756	W	W	E	300	290	70	135.455	141.799	
1101	2013	5	6	15	24	0	126.642	SW	SE	SW	220	120	230	135.696	141.746	
1102	2013	5	7	10	54	0	127.454	S	SE	S	190	150	190	135.764	141.73	
1103	2013	5	8	12	39	0	128.527	SW	E	S	240	110	190	135.854	141.706	

1104	2013	5	9	19	9	15	129.798	S	SE	SW	180	130	220	135.961	141.677	
1105	2013	5	10	17	39	0	130.735	NE	E	W	40	70	290	136.04	141.654	
1106	2013	5	13	2	39	0	133.110	NW - halo	NW - halo	NE	300	300	60	136.242	141.59	
1107	2013	5	13	8	39	0	133.360	W	SE	SE	250	200	120	136.263	141.583	
1108	2013	5	13	9	24	0	133.392	SE	SW	SW	150	140	230	136.266	141.528	candidate
1109	2013	5	13	16	24	0	133.683	NW - halo	NW - halo	NE	300	300	60	136.291	141.574	
1110	2013	5	13	17	54	0	133.746	E	NE	W	70	60	290	136.296	141.572	
1111	2013	5	14	1	24	0	134.058	NW - halo	NW - halo	E	300	300	70	136.323	141.563	
1112	2013	5	14	21	9	15	134.881	W	SW	E	260	230	110	136.394	141.538	
1113	2013	5	14	22	54	0	134.954	NW	NW	NE	330	330	30	136.4	141.536	
1114	2013	5	15	0	9	15	135.006	SE	E	SW	130	110	190	136.404	141.535	
1115	2013	5	15	2	9	15	135.090	halo	W - halo	E - halo	halo	300	70	136.414	141.532	candidate
1116	2013	5	16	7	54	0	136.329	W	W	E	270	260	90	136.518	141.493	
1117	2013	5	17	9	39	0	137.402	N - halo	W	NE - halo	30	280	50	136.611	141.458	candidate
1118	2013	5	17	21	9	15	137.881	S	SE	SW	190	140	210	136.652	141.442	
1119	2013	5	20	6	9	15	140.256	NW	N	NE	330	350	30	136.859	141.359	
1120	2013	5	20	10	54	0	140.454	W	E	SW	240	110	230	136.876	141.352	
1121	2013	5	20	12	59	15	140.541	NE	W	E	50	280	90	136.883	141.349	candidate
1122	2013	5	21	2	24	0	141.100	SW - halo	SE	S - halo	210	120	190	136.328	141.328	
1123	2013	5	22	9	24	0	142.392	NE	NE	NW	50	40	310	137.045	141.279	
1124	2013	5	22	13	9	15	142.548	E	NE	W - halo	70	70	280	137.059	141.273	candidate
1125	2013	5	26	19	24	0	146.808	NW - halo	NE	W - halo	320	50	310	137.434	141.101	
1126	2013	5	27	3	39	0	147.152	NE	NW	SW	30	310	220	137.465	141.086	candidate
1127	2013	5	27	19	39	0	147.819	SW	S	SE	220	180	150	137.524	141.058	
1128	2013	5	29	4	39	0	149.194	NW	NE	N	320	40	10	137.645	140.998	
1129	2013	5	30	0	24	0	150.017	NW	N	NE	300	20	40	137.718	140.962	
1130	2013	5	30	14	24	0	150.600	W	W	E	290	290	70	137.77	140.936	
1131	2013	5	31	6	39	0	151.277	W	W	NE	290	40	40	137.83	140.905	
1132	2013	5	31	8	9	15	151.340	SE	SE	SW	150	140	230	137.835	140.902	
1133	2013	5	31	10	24	0	151.433	NW	W	N	320	250	20	137.844	140.898	
1134	2013	5	31	17	54	0	151.746	N	N	N	10	340	10	137.871	140.884	
1135	2013	6	2	18	24	0	153.767	SE	SW	S	110	250	170	138.05	140.791	candidate
1136	2013	6	4	22	9	15	155.923	W	W	E	270	250	90	138.241	140.69	
1137	2013	6	5	9	9	15	156.381	SE	S	SW	120	200	220	138.281	140.668	

1138	2013	6	8	0	9	15	159.006	SE	S	SW	150	170	200	138.513	140.542	
1139	2013	6	10	14	24	0	161.600	E	E	W	100	100	250	138.746	140.414	
1140	2013	6	11	4	24	0	162.183	E	E	W	100	100	270	138.794	140.385	
1141	2013	6	11	18	24	0	162.767	S	SE	SW	190	130	210	138.846	140.356	
1142	2013	6	12	3	9	15	163.131	N	N	N	10	10	0	138.337	140.337	
1143	2013	6	12	5	9	15	163.215	S	SE	S	180	140	200	138.886	140.333	
1144	2013	6	12	9	24	0	163.392	S	SE	SW	200	220	210	138.901	140.324	
1145	2013	6	13	4	9	15	164.173	SW	SE	S - halo	210	130	180	138.97	140.285	
1146	2013	6	13	14	9	15	164.590	E	E	W	80	60	290	139.007	140.264	
1147	2013	6	16	2	9	15	167.090	SE	SE	SW	150	140	220	139.229	140.137	
1148	2013	6	16	14	9	15	167.590	SW	S	SE	220	190	130	139.273	140.111	
1149	2013	6	16	21	39	0	167.902	W	E	W	230	90	280	139.301	140.095	
1150	2013	6	17	17	54	0	168.746	S	S	S	190	180	170	139.376	140.051	
1151	2013	6	18	1	39	0	169.069	SW	SW	E	230	220	110	139.404	140.035	
1152	2013	6	18	4	39	0	169.194	SW	SW	E	230	240	110	139.415	140.028	
1153	2013	6	19	4	9	15	170.173	SE	SE	W	120	120	250	139.413	140.029	
1154	2013	6	20	13	24	0	171.558	S	SW	SE	200	240	120	139.625	139.906	
1155	2013	6	21	3	24	0	172.142	SW - halo	SW	E	230	250	100	139.667	139.876	
1156	2013	6	22	12	24	0	173.517	S - halo	W	SW	200	100	240	139.798	139.805	candidate
1157	2013	6	23	7	9	15	174.298	N	NW	NE	10	320	30	139.868	139.764	
1158	2013	6	24	3	54	0	175.163	SW - halo	W	S - halo	230	100	190	139.944	139.719	candidate
1159	2013	6	25	9	24	0	176.392	N	NW	N	0	340	20	140.053	139.656	
1160	2013	6	25	11	24	0	176.475	SW	E	S	230	110	170	140.06	139.652	
1161	2013	6	26	8	54	0	177.371	SW	E	S	220	110	190	140.139	139.606	
1162	2013	6	27	20	24	0	178.850	SE	S	SW	130	180	230	140.269	139.531	
1163	2013	6	28	1	54	0	179.079	SE	S	SW - halo	120	180	220	140.289	139.519	
1164	2013	6	30	1	9	15	181.048	E	W	E	70	290	90	140.461	139.42	candidate
1165	2013	7	1	15	54	0	182.663	N	N	N	0	0	10	140.601	139.34	
1166	2013	7	1	21	9	15	182.881	W	W	E	280	280	70	140.62	139.329	
1167	2013	7	3	1	24	0	184.058	W	W	E	250	250	100	140.722	139.272	
1168	2013	7	3	7	54	0	184.329	W	W	E	250	250	100	140.746	139.259	
1169	2013	7	4	21	24	0	185.892	SW	W	E	240	250	90	140.88	139.184	
1170	2013	7	7	19	54	0	188.829	SW	SW	SE	230	220	120	141.132	139.046	
1171	2013	7	9	15	39	0	190.652	E	W	halo	90	270	halo	141.287	138.963	candidate

1172	2013	7	10	11	24	0	191.475	SE	S	S	140	200	200	141.357	138.927	
1173	2013	7	13	11	54	0	194.496	SE	S	S	210	190	190	141.612	138.796	
1174	2013	7	15	5	54	0	196.246	SE	SW	S	130	230	200	141.759	138.722	candidate
1175	2013	7	15	13	39	0	196.569	SE	SW	SW	120	220	210	141.786	138.709	candidate
1176	2013	7	16	4	9	15	197.173	SE	SW	S	130	250	190	141.837	138.685	candidate
1177	2013	7	16	4	39	0	197.194	NE	NE	NW	40	30	320	141.838	138.684	
1178	2013	7	16	17	39	0	197.735	SE	SE	SW	120	140	240	141.884	138.662	
1179	2013	7	17	7	54	0	198.329	SW	SE	S	240	120	190	141.933	138.638	
1180	2013	7	17	19	24	0	198.808	E	NE	W	90	60	250	141.973	138.619	
1181	2013	7	18	18	54	0	199.788	W	NW	NE	280	310	60	142.055	138.581	
1182	2013	7	19	23	9	15	200.965	E	E	W	110	90	270	142.152	138.537	
1183	2013	7	20	8	24	0	201.350	SE	SE	W	130	110	250	142.184	138.522	
1184	2013	7	21	9	9	15	202.381	W	W	E	280	290	70	142.27	138.484	
1185	2013	7	21	22	39	0	202.944	N	NE	N	350	40	340	142.312	138.466	
1186	2013	7	22	6	39	0	203.277	N - halo	E	W - halo	340	70	310	142.343	138.452	candidate
1187	2013	7	22	20	24	0	203.850	W - halo	E	W - halo	250	90	270	142.39	138.432	candidate
1188	2013	7	23	0	54	0	204.038	S	SW	SE	200	240	110	142.406	138.426	
1189	2013	7	25	5	9	15	206.215	NW	NE	N	320	50	340	142.583	138.353	
1190	2013	7	25	17	54	0	206.746	W	SW	E	280	240	110	142.627	138.336	
1191	2013	7	26	19	5	15	207.795	S	SE	SW	170	130	220	142.711	138.303	
1192	2013	7	27	2	24	0	208.100	S	SE	SW	190	120	240	142.736	138.294	
1193	2013	7	27	16	38	0	208.693	S	SE	SW	190	120	240	142.784	138.276	
1194	2013	7	28	5	39	0	209.235	SW	SE	S	240	120	200	142.827	138.261	
1195	2013	7	28	19	9	15	209.798	NW	NW	NE	310	300	60	142.872	138.245	
1196	2013	7	29	10	39	0	210.444	SW	SE	E	220	130	70	142.923	138.227	
1197	2013	7	29	13	9	15	210.548	NW	N	NE	310	350	50	142.932	138.224	
1198	2013	7	30	19	9	15	211.798	NE	N	N	50	20	340	143.191	138.191	
1199	2013	7	31	20	24	0	212.850	NE	NW	NE	40	300	60	143.114	138.165	
1200	2013	8	4	2	54	0	216.121	N	N	N	0	0	0	143.368	138.093	
1201	2013	8	7	19	9	15	219.798	SE	SW	S	120	240	190	143.649	138.029	candidate
1202	2013	8	8	19	24	0	220.808	SE	SW	SW	110	240	210	143.725	138.014	candidate
1203	2013	8	9	0	24	0	221.017	S	SE	SW	240	120	210	143.74	138.012	
1204	2013	8	9	21	54	0	221.913	SW	SW	E	200	250	100	143.808	138	
1205	2013	8	10	9	54	0	222.413	E	S	SW	110	190	240	143.845	137.994	candidate

1206	2013	8	11	6	24	0	223.267	S	S	S	190	170	180	143.909	137.985	
1207	2013	8	12	12	24	0	224.517	SE	SW	S	130	220	190	144.001	137.973	candidate
1208	2013	8	13	14	24	0	225.600	SE	SW	S	130	210	200	144.081	137.965	candidate
1209	2013	8	14	22	9	15	226.923	E	SE	W	110	130	260	144.178	137.957	
1210	2013	8	15	3	39	0	227.152	NW	NW	N	340	340	20	144.195	137.956	
1211	2013	8	15	19	39	0	227.819	W	E	E	290	90	70	144.243	137.953	
1212	2013	8	16	11	39	0	228.485	SW	SE	S	230	110	160	144.292	137.951	
1213	2013	8	16	16	24	0	228.683	SE	SE	W	130	120	250	144.306	137.95	
1214	2013	8	17	2	54	0	229.121	N	NW	NE	340	320	30	144.338	137.949	
1215	2013	8	17	19	24	0	229.808	E - halo	E - halo	W - halo	100	90	260	144.388	137.948	candidate
1216	2013	8	19	23	9	15	231.965	NW - halo	E - halo	halo	310	70	halo	144.501	137.948	candidate
1217	2013	8	20	8	24	0	232.350	SE	SW - halo	SW - halo	130	220	210	144.57	137.951	candidate
1218	2013	8	22	9	24	24	234.392	S	SE	SW	160	130	220	144.714	137.96	
1219	2013	8	23	0	54	0	235.038	E	E	W	110	110	250	144.759	137.964	
1220	2013	8	25	17	54	0	237.746	S	S	S	170	190	190	144.946	137.99	
1221	2013	8	27	2	24	0	239.100	NW	NW	NE	330	320	30	145.038	138.007	candidate
1222	2013	8	27	16	39	0	239.694	E	E	W	90	100	280	145.079	138.016	
1223	2013	8	28	5	39	0	240.235	SW	SE	S	220	140	180	145.115	138.024	
1224	2013	8	28	15	54	0	240.663	SW	SE	S	210	140	180	145.144	138.031	
1225	2013	8	29	5	54	0	241.246	SE	S	NW	140	190	310	145.183	138.041	
1226	2013	8	29	4	54	0	241.204	NE	NE	S	20	50	200	145.18	138.041	
1227	2013	8	30	3	9	15	242.131	halo	W	NE	halo	300	50	145.241	138.058	candidate
1228	2013	8	30	10	24	0	242.433	SW	SE	S	220	150	190	145.261	138.064	
1229	2013	8	30	19	24	0	242.808	SW	SE	S	200	160	190	145.286	138.071	
1230	2013	8	31	20	24	0	243.850	W	W	E	250	270	100	145.354	138.094	
1231	2013	9	2	5	24	0	245.225	SW	SW	SE	170	250	150	145.443	138.126	
1232	2013	9	2	16	54	0	245.704	NE	N	NW	50	0	330	145.474	138.138	
1233	2013	9	4	9	39	0	247.402	SW	SW	E	220	250	110	145.582	138.184	
1234	2013	9	4	13	9	5	247.548	W	NE	NW	290	50	30	145.592	138.188	
1235	2013	9	5	20	24	0	248.850	NE	NE	N	50	40	350	145.674	138.227	
1236	2013	9	6	20	54	0	249.871	W	W - halo	E	280	280	70	145.737	138.26	
1237	2013	9	7	0	9	15	250.006	W	NW - halo	E	290	320	70	145.746	138.265	
1238	2013	9	7	4	54	0	250.204	W	NW	E	280	300	70	145.758	138.271	
1239	2013	9	8	17	54	0	251.746	W	E	E	270	90	70	145.853	138.325	

1240	2013	9	9	9	54	0	252.413	N	N	N	10	20	340	145.894	138.349	
1241	2013	9	9	11	54	0	252.496	W	E	E	290	60	80	145.899	138.352	
1242	2013	9	10	13	39	0	253.569	S	S	S	170	200	180	145.964	138.393	
1243	2013	9	11	9	54	0	254.413	SW	S	SE	210	200	150	146.015	138.427	
1244	2013	9	11	18	54	0	254.788	SE	SE	SW	120	130	230	146.038	138.442	
1245	2013	9	12	23	24	0	255.975	SW	W	E	240	260	90	146.109	138.492	
1246	2013	9	13	1	24	0	256.058	NW	NW	NE	330	320	40	146.114	138.496	
1247	2013	9	13	20	39	0	256.860	S	SW	S	200	210	160	146.162	138.531	
1248	2013	9	14	5	39	0	257.235	S	SW	SW	210	220	210	146.184	138.548	
1249	2013	9	14	12	24	0	257.517	W	W	E	280	300	70	146.201	138.561	
1250	2013	9	15	14	54	0	258.621	S	S	E	210	240	90	146.266	138.612	
1251	2013	9	16	19	39	0	259.819	SE	SE	E	140	160	100	146.335	138.671	
1252	2013	9	16	23	24	0	259.975	N	NE	N	20	40	340	146.344	138.678	
1253	2013	9	17	15	24	0	260.642	E	E	W	70	70	300	146.383	138.712	
1254	2013	9	18	13	39	0	261.569	SW	S	SE	230	190	130	146.436	138.76	
1255	2013	9	20	5	24	0	263.225	NW	NW	NE	320	330	30	146.531	138.85	
1256	2013	9	20	13	9	15	263.548	NW	NW	N	330	340	20	146.549	138.868	
1257	2013	9	20	22	39	0	263.944	SE	S	S	150	170	200	146.571	138.89	
1258	2013	9	21	5	24	0	264.225	NW	NW	NE	330	310	50	146.587	138.906	
1259	2013	9	22	5	39	0	265.235	E	S	SW	110	180	240	146.643	138.965	
1260	2013	9	23	10	9	15	266.423	E	SE	W	100	140	250	146.709	139.037	
1261	2013	9	23	20	54	0	266.871	S	SE	SW	160	140	220	146.733	139.065	
1262	2013	9	24	20	54	0	267.871	NW - halo	NW	NE	330	320	30	146.788	139.128	
1263	2013	9	26	8	24	0	269.350	S	S	S	160	190	190	146.867	139.224	
1264	2013	9	29	1	39	0	272.069	S	S	S	190	160	180	147.01	139.412	
1265	2013	9	29	22	9	15	272.923	E - halo	N - halo	NW - halo	70	350	320	147.054	139.474	candidate
1266	2013	10	1	20	24	0	274.850	SE	SW	SW	150	180	210	147.152	139.618	candidate
1267	2013	10	2	20	54	0	275.871	NE	NE	NW	40	40	320	147.202	139.696	
1268	2013	10	4	19	9	15	277.798	W	E - halo	SE	260	100	120	147.298	139.852	
1269	2013	10	5	7	9	15	278.298	W	SW - halo	SE - halo	260	220	120	147.322	139.893	candidate
1270	2013	10	5	14	54	0	278.621	SE	SE	SW	150	140	230	147.338	139.92	
1271	2013	10	5	20	24	0	278.850	N	N	N	0	20	0	147.349	139.939	
1272	2013	10	8	8	54	0	281.371	W	NW	NE	300	320	50	147.47	140.155	
1273	2013	10	8	23	0	9	281.958	W	NW	NE	270	300	50	147.497	140.206	

1274	2013	10	9	2	39	0	282.110	SW	SW	E	240	240	100	147.505	140.22	
1275	2013	10	9	15	39	0	282.652	SW	W	S	240	240	170	147.53	140.268	
1276	2013	10	10	16	9	15	283.673	S	SE	S	190	150	200	147.578	140.361	
1277	2013	10	11	7	39	0	284.319	W - halo	W - halo	E - halo	260	270	80	147.608	140.42	candidate
1278	2013	10	11	13	39	0	284.569	S	SW	SE	190	230	140	147.619	140.443	
1279	2013	10	12	15	54	0	285.663	E	E	W	90	90	270	147.669	140.545	
1280	2013	10	13	1	39	0	286.069	S	SW	SE	160	240	130	147.688	140.584	
1281	2013	10	13	14	54	0	286.621	E	E	SW	130	180	220	147.713	140.637	
1282	2013	10	14	21	54	0	287.913	W	NW	NE	300	310	60	147.772	140.762	
1283	2013	10	16	17	8	0	289.714	E	halo	W	80	halo	270	147.852	140.941	candidate
1284	2013	10	17	4	39	0	290.194	W	W - halo	E	260	250	90	147.874	140.989	
1285	2013	10	18	7	8	0	291.297	N	NW	NE	350	320	40	147.922	141.102	
1286	2013	10	19	22	54	0	292.954	N	NW	N	10	330	20	147.994	141.275	
1287	2013	10	20	0	9	15	293.006	NE	NE	N	40	40	10	147.996	141.28	
1288	2013	10	21	0	54	0	294.038	S	S	S	150	180	200	148.041	141.39	
1289	2013	10	22	4	39	0	295.194	NE	NW	N	30	320	0	148.09	141.515	candidate
1290	2013	10	22	13	9	15	295.548	W	W	E	270	270	70	148.105	141.554	
1291	2013	10	23	12	54	0	296.538	N	N	N	340	0	10	148.146	141.664	
1292	2013	10	24	17	39	0	297.735	E	NE	NW	80	50	300	148.195	141.798	candidate
1293	2013	10	25	5	9	15	298.215	N	N	N	10	350	0	148.215	141.852	
1294	2013	10	25	15	24	0	298.642	W - halo	W - halo	E - halo	260	290	80	148.232	141.901	candidate
1295	2013	10	26	3	9	15	299.131	E	W	W	90	280	280	148.252	141.958	candidate
1296	2013	10	26	13	9	15	299.548	SE	S	S	150	170	200	148.269	142.006	
1297	2013	10	27	3	54	0	300.163	E	W	W	80	60	280	148.294	142.077	candidate
1298	2013	10	27	10	9	15	300.423	E	W	W	80	60	280	148.304	142.108	candidate
1299	2013	10	27	12	54	0	300.538	E	W	W	80	60	280	148.309	142.121	candidate
1300	2013	10	27	18	9	15	300.756	NE	NE	W	80	60	290	148.317	142.147	candidate
1301	2013	10	28	2	24	0	301.100	E - halo	NE	NW	60	50	300	148.331	142.187	
1302	2013	10	28	4	54	0	301.204	NE	NE	NE	60	50	300	148.335	142.2	
1303	2013	10	29	15	54	0	302.663	NE	NE	N	40	30	0	148.392	142.374	
1304	2013	10	29	22	24	0	302.933	E - halo	E	W - halo	90	90	270	148.403	142.407	candidate
1305	2013	10	31	16	39	0	304.694	SW	SW	SE	210	230	130	148.47	142.622	
1306	2013	11	2	5	9	15	306.215	SW - halo	E - halo	halo	240	90	halo	148.528	142.812	candidate
1307	2013	11	2	8	54	0	306.371	NE	NE	NW	30	50	310	148.534	142.831	

1308	2013	11	3	10	9	15	307.423	S	S	S	170	180	190	148.573	142.965	
1309	2013	11	4	5	9	15	308.215	SW - halo	SE	SE - halo	240	110	130	148.602	143.066	candidate
1310	2013	11	5	3	39	0	309.152	N	NW	N	0	330	20	148.637	143.187	
1311	2013	11	5	8	39	0	309.360	S	SE	SE	180	220	150	148.644	143.214	
1312	2013	11	7	0	24	0	311.017	SE - halo	SE - halo	SW - halo	130	120	240	148.718	143.48	
1313	2013	11	7	10	39	0	311.444	W - halo	W - halo	E - halo	270	230	90	148.72	143.487	candidate
1314	2013	11	8	3	39	0	312.152	SW	SE	S	210	120	200	148.745	143.581	
1315	2013	11	10	5	9	15	314.215	SE	S	S	140	190	190	148.819	143.858	
1316	2013	11	10	5	39	0	314.235	SE	S	NE	320	320	40	148.42	143.861	
1317	2013	11	10	18	24	0	314.767	W - halo	E	W	250	90	270	148.838	143.933	
1318	2013	11	11	22	9	15	315.923	NE	NE	N	50	40	340	148.879	144.091	
1319	2013	11	12	8	9	15	316.340	SE	SE	SE	120	120	240	148.894	144.148	
1320	2013	11	13	16	24	0	317.683	NW	NW	NE	320	320	40	148.941	144.334	
1321	2013	11	14	0	24	0	318.017	SE	SE	SW	150	150	220	148.952	144.381	
1322	2013	11	15	0	39	0	319.027	NE	NE	NW	30	30	310	148.987	144.523	
1323	2013	11	17	5	24	0	321.225	SE	SE	SW	150	130	220	149.063	144.834	
1324	2013	11	17	8	24	0	321.350	SE	SE	SW	130	160	220	149.067	144.852	
1325	2013	11	17	14	24	0	321.600	SW	SW	SE	220	210	130	149.076	144.888	
1326	2013	11	19	4	24	0	323.183	W	SE	SE	250	140	130	149.129	145.116	
1327	2013	11	19	10	39	0	323.444	SE	SE	SW	120	140	230	149.138	145.154	
1328	2013	11	20	13	39	0	324.569	S	SE	SW	170	120	240	149.176	145.138	
1329	2013	11	20	18	23	59	324.767	N	NE	N	340	30	0	149.182	145.347	
1330	2013	11	21	11	54	0	325.496	SE	E	W	120	100	250	149.207	145.455	
1331	2013	11	27	0	9	15	331.006	SE	SE	S	170	140	190	149.385	146.282	
1332	2013	11	27	11	54	0	331.496	SW	SW	SE	220	230	130	149.104	146.357	
1333	2013	11	27	15	9	15	331.631	NE	NE	N	40	40	340	149.405	146.377	
1334	2013	11	29	20	39	0	333.860	E - halo	E	W - halo	120	100	250	149.475	146.721	candidate
1335	2013	11	30	13	24	0	334.558	NE	NE	W	60	70	290	149.497	146.83	
1336	2013	11	30	14	24	0	334.600	SW	SW	SE	240	190	130	149.498	146.836	
1337	2013	12	1	20	39	0	335.860	NE	N	N	60	350	350	149.538	147.033	
1338	2013	12	2	13	54	0	336.579	S	SE	S	180	150	200	149.56	147.146	
1339	2013	12	2	18	24	0	336.850	N	N	N	20	340	0	149.566	147.176	
1340	2013	12	4	5	39	0	338.235	E	NW	W	80	320	290	149.611	147.408	
1341	2013	12	4	15	54	0	338.663	SW	SW	E	240	230	110	149.624	147.475	

1342	2013	12	5	10	39	0	339.444	SW	SW	SE	230	220	120	149.648	147.599	
1343	2013	12	5	21	9	15	339.881	SE	S - halo	SW	120	200	220	149.661	147.669	
1344	2013	12	7	7	39	0	341.319	SE	SE - halo	W - halo	130	140	260	149.705	147.899	candidate
1345	2013	12	9	20	39	0	343.860	NW	NW	NE	310	320	40	149.783	148.308	
1346	2013	12	11	8	9	15	345.340	S	S	S	160	190	180	149.829	148.547	
1347	2013	12	12	3	39	0	346.152	SE	SE	SW	120	150	230	149.854	148.678	
1348	2013	12	12	6	54	0	346.288	S	S	S	160	200	180	149.858	148.7	
1349	2013	12	13	21	39	0	347.902	SW	SE	S	220	150	160	149.908	148.963	
1350	2013	12	14	6	54	0	348.288	SW	SW	SE	230	140	130	149.92	149.026	
1351	2013	12	14	9	54	0	348.413	SE	SE	SW	140	250	230	149.924	149.046	
1352	2013	12	16	21	39	0	350.902	SE	E	W	120	110	260	150.001	149.453	
1353	2013	12	18	6	39	0	352.277	SE	SE	SW	150	160	210	150.044	149.679	
1354	2013	12	18	21	54	0	352.913	S	SE	SW	160	130	220	150.064	149.784	
1355	2013	12	21	8	24	0	355.350	NW	NW	NE	320	330	30	150.14	150.186	
1356	2013	12	23	8	39	0	357.360	NE	NE	N	40	40	340	150.203	150.519	
1357	2013	12	23	11	54	0	357.496	NW	NW	NE	310	330	40	150.207	150.541	
1358	2013	12	24	13	24	0	358.558	E	E	W	100	100	260	150.241	150.718	
1359	2013	12	26	3	9	15	360.131	SW - halo	S - halo	SW - halo	240	190	120	150.29	150.979	candidate
1360	2013	12	26	15	39	0	360.652	E	SE	W	100	120	270	150.306	151.066	
1361	2013	12	27	4	54	0	361.204	S	S	S	170	200	170	150.323	151.158	
1362	2013	12	27	7	9	15	361.298	W	SW	SE	250	150	120	150.326	151.173	
1363	2013	12	27	12	9	15	361.506	SW	SW	SE	230	150	140	150.333	151.208	
1364	2013	12	28	5	54	0	362.246	W	W	E	270	270	90	150.356	151.331	
1365	2013	12	28	17	54	0	362.746	E - halo	E - halo	W - halo	70	70	280	150.372	151.415	candidate
1366	2013	12	29	2	54	0	363.121	NE	N	NE	50	340	30	150.384	151.477	candidate
1367	2013	12	29	7	39	0	363.319	S	SW	SE	200	240	120	150.39	151.51	
1368	2013	12	31	6	39	0	365.277	E	E	W	90	120	260	150.452	151.837	
1369	2013	12	31	11	9	0	365.465	SW	SW	E	240	250	100	150.458	151.868	
2014																
1370	2014	1	1	14	54	0	1.621	S	SW	SE	200	220	140	150.495	152.061	
1371	2014	1	1	19	39	0	1.819	E	S	W	100	200	270	150.501	152.094	
1372	2014	1	3	3	54	0	3.163	NW	NW	NE	310	310	60	150.544	152.318	
1373	2014	1	3	19	39	0	3.819	E	SW	SW	110	210	220	150.565	152.427	
1374	2014	1	4	19	39	0	4.819	SE	SW	SW - halo	140	220	210	150.598	152.594	candidate

1375	2014	1	4	23	24	0	4.975	E	E	W	80	70	290	150.603	152.62	
1376	2014	1	5	9	24	0	5.392	NW	E	W	300	70	270	150.616	152.689	
1377	2014	1	5	19	24	0	5.808	NE	N	NE	60	350	50	150.63	152.758	
1378	2014	1	7	0	23	55	7.017	NE	NE	NW	60	30	310	150.67	152.958	
1379	2014	1	7	4	24	0	7.183	S	SE	S	160	140	200	150.675	152.986	
1380	2014	1	7	18	24	0	7.767	SE - halo	SE - halo	SW - halo	120	140	230	150.695	153.083	candidate
1381	2014	1	8	4	24	0	8.183	NE	NE	NW	50	50	300	150.709	153.151	
1382	2014	1	8	13	24	0	8.558	NE	NE	NW	50	50	310	150.721	153.213	
1383	2014	1	9	4	8	0	9.172	SE	E	W	140	110	250	150.742	153.315	
1384	2014	1	11	9	39	0	11.402	NW	NW	NE	330	320	40	150.818	153.681	
1385	2014	1	12	2	39	0	12.110	NW	NW	NE	300	320	30	150.843	153.797	
1386	2014	1	13	9	24	0	13.392	N	NW	NE	0	300	30	150.888	154.007	
1387	2014	1	13	14	24	0	13.600	N	N	N	0	10	0	150.895	154.041	
1388	2014	1	14	10	24	0	14.433	NE	NW	N	40	310	20	150.925	154.177	
1389	2014	1	15	14	24	0	15.600	NW	N	NE	320	10	30	150.966	154.366	
1390	2014	1	16	17	19	15	16.722	W	SW	E	250	240	100	151.006	154.548	
1391	2014	1	16	17	24	0	16.725	SE	SE	SW	150	130	230	151.007	154.548	
1392	2014	1	16	20	39	0	16.860	W	SW	E	250	240	90	151.011	154.57	
1393	2014	1	16	21	54	0	16.913	S	SE	S	160	130	180	151.013	154.579	
1394	2014	1	17	20	9	15	17.840	SW	S	S	240	200	160	151.047	154.728	
1395	2014	1	17	22	54	0	17.954	W	SE	E	260	120	110	151.051	154.747	
1396	2014	1	19	3	24	0	19.142	S	S	S	180	200	160	151.095	154.938	
1397	2014	1	20	15	39	0	20.652	W	NW	NE	290	310	60	151.15	155.179	
1398	2014	1	20	22	39	0	20.944	W - halo	SE	E	260	140	100	151.161	155.226	
1399	2014	1	21	6	39	0	21.277	E	E	W	100	90	270	151.174	155.279	
1400	2014	1	21	10	54	24	21.454	E	E	W	110	90	270	151.18	155.307	
1401	2014	1	21	18	8	0	21.756	SE	E	W	150	90	270	151.192	155.355	
1402	2014	1	21	21	39	0	21.902	W	E	E - halo	260	100	90	151.197	155.379	candidate
1403	2014	1	22	21	39	0	22.902	NW	NW	NE	310	320	40	151.235	155.537	
1404	2014	1	24	7	39	0	24.319	SW	S	S	220	200	160	151.288	155.761	
1405	2014	1	25	2	24	0	25.100	NW	W	E	300	290	70	151.318	155.884	
1406	2014	1	25	11	8	0	25.464	N	N	N	20	20	350	151.332	155.941	
1407	2014	1	25	16	54	0	25.704	SW	SW	NE	230	220	60	151.341	155.679	
1408	2014	1	25	22	24	0	25.933	SW	SW	SE	240	220	130	151.35	156.015	

1409	2014	1	26	8	54	0	26.371	SW	SW	E	240	230	110	151.367	156.168	
1410	2014	1	26	21	54	0	26.913	SW	S	SE	220	200	140	151.388	156.168	
1411	2014	1	27	2	24	0	27.100	NW	W	E	300	290	70	151.395	156.197	
1412	2014	1	29	0	39	0	29.027	SW	SE	S	220	130	200	151.471	156.496	
1413	2014	1	29	12	39	0	29.527	NW	E	E	320	70	90	151.49	156.574	
1414	2014	1	30	9	24	0	30.392	SW	W	E	210	250	110	151.525	156.707	
1415	2014	1	30	16	24	0	30.683	SW - halo	SW	SE - halo	210	220	120	151.536	156.751	candidate
1416	2014	1	31	15	39	0	31.652	W	NW	NE	280	320	20	151.575	156.899	
1417	2014	2	1	2	39	0	32.110	W	W	E	260	250	80	151.594	156.969	
1418	2014	2	1	11	24	0	32.475	W	NW	E	270	300	70	151.608	157.024	
1419	2014	2	2	9	39	0	33.402	SE	E	W	150	110	260	151.646	157.165	
1420	2014	2	2	18	24	0	33.767	SE	SE	SW	140	130	230	151.661	157.219	
1421	2014	2	4	1	9	15	35.048	SE	S - halo	W	120	170	250	151.714	157.411	
1422	2014	2	4	16	24	0	35.683	SE	SE	SW	120	120	220	151.741	157.506	
1423	2014	2	5	3	24	0	36.142	E	E	W	100	100	260	151.76	157.574	
1424	2014	2	6	1	9	15	37.048	S	SE	SW	170	140	220	151.799	157.708	
1425	2014	2	6	3	39	0	37.152	NE	NE	NW	60	40	310	151.803	157.723	
1426	2014	2	6	15	9	15	37.631	N	N	N	20	20	340	151.824	157.793	
1427	2014	2	7	22	24	0	38.933	SE	S	S	130	160	190	151.88	157.983	
1428	2014	2	9	16	9	15	40.673	W	W - halo	E - halo	260	260	90	151.957	158.234	candidate
1429	2014	2	10	21	24	0	41.892	SW	S	S - halo	240	190	110	152.012	158.407	
1430	2014	2	11	5	54	0	42.246	NE	NW	NW	60	330	330	152.028	158.457	
1431	2014	2	11	14	24	0	42.600	E	E	W	70	70	290	152.044	158.507	
1432	2014	2	11	19	39	0	42.819	E - halo	E	E	110	90	270	152.054	158.538	
1433	2014	2	12	5	39	0	43.235	E	W	halo	80	280	halo	152.073	158.596	
1434	2014	2	12	10	39	0	43.444	SW	SW	SW	220	220	230	152.082	158.626	
1435	2014	2	12	13	9	15	43.548	NE	N	N	50	10	340	152.088	158.643	
1436	2014	2	12	23	9	15	43.965	E	E	W	110	90	270	152.106	158.698	
1437	2014	2	14	8	54	0	45.371	S - halo	E - halo	W - halo	170	100	260	152.171	158.893	candidate
1438	2014	2	14	14	24	0	45.600	NW	NW	NE	310	320	50	152.182	158.924	
1439	2014	2	16	12	54	0	47.538	W	W - halo	E - halo	280	280	80	152.274	158.188	
1440	2014	2	17	12	39	0	48.527	S	S	S	200	190	170	152.321	159.321	
1441	2014	2	18	1	39	0	49.069	S - halo	W	E - halo	180	250	100	152.347	159.393	candidate
1442	2014	2	19	0	39	0	50.027	N	N	NE	340	320	30	152.394	159.521	

1443	2014	2	19	4	54	0	50.204	W	S - halo	S - halo	270	180	180	152.402	159.544	candidate
1444	2014	2	19	16	9	15	50.673	SE	SW	S	150	210	190	152.425	159.606	
1445	2014	2	20	3	9	15	51.131	W	S - halo	halo	250	170	halo	152.448	159.666	
1446	2014	2	20	8	9	15	51.340	E	E - halo	W - halo	90	100	270	152.458	159.693	
1447	2014	2	21	16	9	15	52.673	W	SW - halo	E - halo	260	210	100	152.524	159.866	candidate
1448	2014	2	22	12	39	0	53.527	S	SE	SW	180	130	210	152.566	159.975	
1449	2014	2	22	16	9	15	53.673	W	SW	E	260	240	100	152.574	159.994	
1450	2014	2	23	18	9	15	54.756	NE	N	N	50	340	350	152.628	160.131	
1451	2014	2	24	11	54	0	55.496	W	W	E	250	250	110	152.666	160.224	
1452	2014	2	25	0	9	15	56.006	SE	SE	SW	130	120	240	152.692	160.288	
1453	2014	2	25	1	9	15	56.048	W - halo	W - halo	E - halo	260	260	90	152.694	160.293	
1454	2014	2	26	22	9	15	57.923	N	N	N	0	10	0	152.79	160.524	
1455	2014	2	28	22	9	15	59.923	W	W	E	280	270	70	152.894	160.765	
1456	2014	3	1	5	9	15	60.215	S	SE	SW	170	150	210	152.91	160.8	
1457	2014	3	4	18	45	0	63.781	N - halo	N - halo	N - halo	340	20	350	153.101	161.214	
1458	2014	3	4	21	39	0	63.902	SW	S	S	210	190	180	153.107	161.228	
1459	2014	3	4	22	24	0	63.933	NW	W	E	310	290	70	153.109	161.231	
1460	2014	3	5	3	54	0	64.163	SW	S	S	220	190	160	153.122	161.257	
1461	2014	3	5	5	8	0	64.214	NE	NE	NW	60	60	300	153.124	161.263	
1462	2014	3	5	9	8	0	64.381	W - halo	SE - halo	SE - halo	260	150	140	153.134	161.282	
1463	2014	3	5	13	53	59	64.579	NW	N	N	330	0	0	153.144	161.304	
1464	2014	3	6	14	24	0	65.600	S	SW	SE	180	230	130	153.201	161.418	
1465	2014	3	7	14	24	0	66.600	SW	E	SW	220	110	230	153.207	161.527	
1466	2014	3	8	18	54	0	67.788	SW	SW	E	240	240	100	153.324	161.655	
1467	2014	3	9	3	54	0	68.163	N	NE	N	0	60	340	153.345	161.695	
1468	2014	3	9	10	24	0	68.433	S	S	S	200	190	170	153.36	161.724	
1469	2014	3	10	18	54	0	69.788	W	W	E	270	260	90	153.438	161.866	
1470	2014	3	11	12	38	59	70.527	SE	E	W	120	110	260	153.481	161.942	
1471	2014	3	12	14	39	0	71.610	NW - halo	N - halo	NE - halo	310	350	30	153.544	162.052	candidate
1472	2014	3	13	1	8	0	72.047	E	E	W	100	100	260	153.57	162.095	
1473	2014	3	14	10	24	0	73.433	W	W	E	270	270	80	153.652	162.232	
1474	2014	3	15	6	54	0	74.288	N	N	N	10	0	0	153.704	162.315	
1475	2014	3	16	1	54	0	75.079	W	W	E	270	270	80	153.751	162.39	
1476	2014	3	16	4	24	0	75.183	S	SW	S	180	220	170	153.758	162.4	

1477	2014	3	19	17	39	0	78.735	SW	SE	SW	220	140	210	153.976	162.725	
1478	2014	3	20	6	24	0	79.267	W	W	E	280	270	80	154.009	162.772	
1479	2014	3	20	18	39	0	79.777	W	W	E	270	270	90	154.041	162.817	
1480	2014	3	21	8	24	0	80.350	SE	S	S	150	180	200	154.076	162.866	
1481	2014	3	21	11	39	0	80.485	N	NW	NE	350	320	30	154.085	162.878	
1482	2014	3	22	7	9	15	81.298	E	E	W	90	90	270	154.136	162.947	
1483	2014	3	22	10	9	15	81.423	NE	N	NW	30	20	330	154.144	162.958	
1484	2014	3	23	4	9	15	82.173	N - halo	NW	NE - halo	340	300	50	154.192	163.02	candidate
1485	2014	3	24	6	24	0	83.267	N	NW	NE	0	310	30	154.261	163.11	
1486	2014	3	24	7	54	0	83.329	SE	SE	SW	130	120	240	154.265	163.115	
1487	2014	3	24	14	9	15	83.590	N	N	N	0	0	0	154.282	163.136	
1488	2014	3	25	6	9	15	84.256	E	E	W	100	100	260	154.325	163.189	
1489	2014	3	26	5	54	0	85.246	SW	S	SE	230	200	140	154.388	163.267	
1490	2014	3	28	17	8	0	87.714	S - halo	E	SW - halo	200	90	220	154.549	163.454	candidate
1491	2014	3	28	20	24	0	87.850	NE	N	N	30	10	350	154.558	163.464	
1492	2014	3	29	7	24	0	88.308	E	E	W	90	90	270	154.588	163.498	
1493	2014	3	29	18	24	0	88.767	NE	NE - halo	NW - halo	40	30	300	154.618	163.531	
1494	2014	3	30	12	39	0	89.527	NE	NE	NW	40	30	330	154.669	163.585	
1495	2014	3	30	14	24	0	89.600	NW	NW	NE	310	300	60	154.673	163.59	
1496	2014	4	2	13	54	0	92.579	NW - halo	NW	NE - halo	310	310	40	154.873	163.792	candidate
1497	2014	4	3	3	54	0	93.163	SE	SE	SW	140	130	230	154.913	163.829	
1498	2014	4	3	20	39	0	93.860	SE	SE	SW	120	130	230	154.96	163.873	
1499	2014	4	4	10	24	0	94.433	NW	NW	NE	300	320	40	154.999	163.909	
1500	2014	4	4	14	54	0	94.621	N	NE	NE	350	30	30	155.012	163.92	
1501	2014	4	5	0	9	15	95.006	SW	SW	SE	230	230	130	155.039	163.944	
1502	2014	4	6	2	24	0	96.100	SW	SW	E	230	230	110	155.114	164.009	
1503	2014	4	6	10	24	0	96.433	N - halo	NE	NW	10	60	300	155.137	164.028	
1504	2014	4	7	7	9	15	97.298	N	N	N	340	340	20	155.198	164.077	
1505	2014	4	7	21	54	0	97.913	SE	SE	SW	130	120	240	155.241	164.111	
1506	2014	4	8	11	54	0	98.496	N	NE	N	0	40	340	155.282	164.143	
1507	2014	4	8	23	24	0	98.975	W	halo	E - halo	270	halo	90	155.316	164.169	candidate
1508	2014	4	10	21	9	15	100.881	W	SW	E	260	240	100	155.458	164.271	
1509	2014	4	11	15	9	15	101.631	SW	SW	E	240	240	110	155.505	164.303	
1510	2014	4	12	7	39	0	102.319	W	W	E	250	250	100	155.555	164.335	

1511	2014	4	14	16	9	15	104.673	SW	SW	SE	210	210	140	155.726	164.44	
1512	2014	4	16	18	39	0	106.777	NW	NW	NE	320	330	30	155.881	164.525	
1513	2014	4	16	20	39	0	106.860	S	SW	SE	190	210	150	155.887	164.528	
1514	2014	4	18	13	9	15	108.548	SE - halo	S - halo	S - halo	120	160	200	156.013	164.591	candidate
1515	2014	4	20	9	9	15	110.381	S	SW	SE	180	210	150	156.15	164.653	
1516	2014	4	20	9	24	0	110.392	NE	NE	NW	60	60	300	156.15	164.653	
1517	2014	4	20	14	39	0	110.610	NE	NE	NW	50	60	300	156.167	164.66	
1518	2014	4	21	6	9	35	111.257	NE	NE	N	40	50	10	156.215	164.681	
1519	2014	4	22	1	39	0	112.069	N	N	N	0	20	0	156.277	164.705	
1520	2014	4	22	16	54	0	112.704	W	W	E	250	270	90	156.325	164.724	
1521	2014	4	23	13	9	15	113.548	SE	SE	SW	130	120	240	156.389	164.747	
1522	2014	4	24	0	54	0	114.038	SE	SE	SW	140	130	230	156.426	164.76	
1523	2014	4	24	10	54	0	114.454	SE	SE	SW	140	130	230	156.457	164.771	
1524	2014	4	24	21	54	0	114.913	SE	SE	SW	130	140	230	156.492	164.782	
1525	2014	4	25	0	54	0	115.038	E	E	W	100	90	270	156.502	164.785	
1526	2014	4	25	8	54	0	115.371	SW	SW	E	240	240	110	156.527	164.793	
1527	2014	4	26	19	54	0	116.829	S	S	S	170	170	190	156.639	164.827	
1528	2014	4	28	1	54	0	118.079	E	E	W	80	80	280	156.735	164.852	
1529	2014	4	28	6	9	15	118.256	N	N	N	10	340	20	156.749	164.855	
1530	2014	5	3	6	24	0	123.267	E	E	W	80	70	290	157.14	164.93	
1531	2014	5	3	20	54	0	123.871	E	NE	NW	70	30	310	157.186	164.935	
1532	2014	5	4	0	39	0	124.027	N	NE	N	10	40	0	157.198	164.937	
1533	2014	5	4	21	24	0	124.892	E	E	W	80	80	280	157.267	164.944	
1534	2014	5	5	0	9	15	125.006	W	W	E	270	260	90	157.276	164.945	
1535	2014	5	5	15	39	0	125.652	W	W	E	290	290	70	157.327	164.949	
1536	2014	5	6	17	54	0	126.746	E	E	W	80	70	280	157.414	164.955	
1537	2014	5	6	22	24	0	126.933	E	E	W	100	90	270	157.429	164.956	
1538	2014	5	7	13	54	0	127.579	SW	SW	W	230	220	270	157.48	164.958	
1539	2014	5	7	16	39	0	127.694	E	E	SE	100	100	140	157.49	164.959	
1540	2014	5	8	3	39	0	128.152	E - halo	E	W	110	90	260	157.526	164.96	
1541	2014	5	9	2	39	0	129.110	E - halo	E - halo	W - halo	110	90	270	157.603	164.961	candidate
1542	2014	5	9	21	39	0	129.902	S	S	S	190	170	180	157.667	164.961	
1543	2014	5	10	4	54	0	130.204	E - halo	E	W - halo	90	90	270	157.691	164.96	candidate
1544	2014	5	10	10	24	0	130.433	E	NE	W	80	50	280	157.71	164.96	

1545	2014	5	10	22	9	15	130.923	NW	NW	NE	320	310	40	157.746	164.959
1546	2014	5	11	6	54	0	131.288	SW	SW	E	240	240	110	157.779	164.958
1547	2014	5	12	11	39	0	132.485	S	S	S	180	200	170	157.876	164.953
1548	2014	5	12	14	9	15	132.590	N	N	N	340	0	10	157.885	164.953
1549	2014	5	13	20	54	0	133.871	SW	SW	SE	220	220	130	157.989	164.945
1550	2014	5	14	6	9	15	134.256	N	NE	N	20	40	350	158.021	164.942
1551	2014	5	14	19	54	0	134.829	W	W	E	260	270	90	158.068	164.937
1552	2014	5	15	20	54	0	135.871	SW	SW	E	240	230	110	158.153	164.297
1553	2014	5	16	1	24	0	136.058	W	SW	E	250	240	100	158.169	164.925
1554	2014	5	16	4	39	0	136.194	E	E	W	90	80	280	158.18	164.924
1555	2014	5	17	1	54	0	137.079	N	N	N	350	20	10	158.253	164.914
1556	2014	5	17	10	9	15	137.423	NW	NW	NE	320	310	50	158.281	164.91
1557	2014	5	19	8	54	0	139.371	N	NW	N	10	330	20	158.442	164.883
1558	2014	5	21	2	39	0	141.110	W	W	E	260	260	100	158.585	164.855
1559	2014	5	23	7	24	0	143.308	W	W	E	250	250	100	158.767	164.813
1560	2014	5	24	21	9	15	144.881	NW	NW	NE	300	310	50	158.897	164.78
1561	2014	5	25	2	54	0	145.121	NE	N	NE	40	350	50	158.917	164.775
1562	2014	5	25	12	54	0	145.538	SE	S	S	150	200	190	158.952	164.765
1563	2014	5	26	0	9	15	146.006	N	N	N	340	350	10	158.991	164.754
1564	2014	5	26	0	39	0	146.027	E	E	W	100	100	260	158.993	164.754
1565	2014	5	26	17	54	0	146.746	W	NW	NE	290	300	60	159.052	164.736
1566	2014	5	26	22	9	15	146.923	SE	E	W	120	110	250	159.067	164.732
1567	2014	5	27	15	9	15	147.631	NW	NW	E	300	300	70	159.126	164.714
1568	2014	5	28	21	24	0	148.892	SE	SE	SW	140	150	220	159.231	164.681
1569	2014	5	28	22	24	0	148.933	NE	NE	NE	60	50	30	159.234	164.68
1570	2014	5	29	9	24	0	149.392	NW	NE	NW	300	60	300	159.272	164.667
1571	2014	6	2	7	54	0	153.329	SW	SW	SE	210	210	150	159.601	164.549
1572	2014	6	2	9	24	0	153.392	E - halo	E	W	70	80	280	159.606	164.547
1573	2014	6	3	5	39	0	154.235	SW	SW	SE	210	210	140	159.677	164.519
1574	2014	6	4	16	24	0	155.683	S	S	SE	180	200	150	159.799	164.47
1575	2014	6	5	15	24	0	156.642	E	E	W	100	80	270	159.879	164.436
1576	2014	6	6	13	9	15	157.548	W - halo	W - halo	E - halo	260	290	70	159.955	164.403
1577	2014	6	6	22	54	0	157.954	W	W	E	280	280	70	159.99	164.387
1578	2014	6	7	7	54	0	158.329	E	E	W	70	70	280	160.021	164.373

1579	2014	6	8	4	9	15	159.173	NE - halo	E - halo	W	60	70	290	160.093	164.341	
1580	2014	6	10	9	9	15	161.381	W	W	E	260	260	90	160.279	164.253	
1581	2014	6	10	13	9	15	161.548	W	W	E	260	250	90	160.293	164.246	
1582	2014	6	11	8	39	0	162.360	W	W	E	270	270	90	160.362	164.213	
1583	2014	6	12	22	24	0	163.933	SE	SE	SW	130	130	220	160.495	164.146	
1584	2014	6	15	13	9	15	166.548	SE	SE	SW	130	140	210	160.717	164.031	
1585	2014	6	15	15	39	0	166.652	SW	W	E	240	250	100	160.726	164.026	
1586	2014	6	15	18	9	15	166.756	W	W	E	270	280	90	160.734	164.021	
1587	2014	6	16	1	54	0	167.079	SE	SE	SW	140	130	230	160.762	164.007	
1588	2014	6	17	9	9	15	168.381	SE	SE	SW	140	130	220	160.872	163.947	
1589	2014	6	18	8	9	15	169.340	SE	SE	SW	120	120	240	160.953	163.903	
1590	2014	6	19	17	39	0	170.735	N - halo	W	NE - halo	340	290	50	161.07	163.837	candidate
1591	2014	6	20	10	9	15	171.423	NW	NW	NE	320	310	40	161.128	163.804	
1592	2014	6	21	5	39	0	172.235	NE	N	N	40	350	0	161.196	163.765	
1593	2014	6	22	1	24	0	173.058	W	W	E	270	290	80	161.265	163.725	
1594	2014	6	24	5	54	0	175.246	S	S	S	200	180	170	161.448	163.618	
1595	2014	6	26	1	39	0	177.069	NE	NE	NW	40	50	320	161.6	163.527	
1596	2014	6	26	22	24	0	177.933	NW	NW	NE	320	320	40	161.672	163.484	
1597	2014	6	27	6	24	0	178.267	NE	NE	NW	50	60	310	161.7	163.467	
1598	2014	6	28	19	24	0	179.808	NE	NE	NW	50	50	320	161.828	163.388	
1599	2014	6	29	12	39	0	180.527	W	W - halo	E	260	260	70	161.888	163.352	
1600	2014	6	30	7	39	0	181.319	SW	W	E	220	250	100	161.954	163.311	
1601	2014	6	30	17	24	0	181.725	W	W	E	260	270	80	161.987	163.29	
1602	2014	6	30	19	9	15	181.798	E	E	W	100	100	270	161.994	163.286	
1603	2014	7	1	4	24	0	182.183	NW	NE	NE	300	30	40	162.025	163.266	
1604	2014	7	1	7	24	0	182.308	NW	NE	NE	310	30	40	162.036	163.26	
1605	2014	7	1	12	24	0	182.517	N	N	N	10	340	10	162.249	163.249	
1606	2014	7	1	12	24	0	182.517	NE	N	NW	50	340	310	162.249	163.249	
1607	2014	7	1	22	39	0	182.944	NW	N	NE	310	340	40	162.088	163.227	
1608	2014	7	2	0	9	15	183.006	W	W	E	250	250	100	162.094	163.223	
1609	2014	7	3	4	9	15	184.173	SW	SW	E	240	230	110	162.19	163.163	
1610	2014	7	19	0	24	0	200.017	E	E	W	100	100	260	163.486	162.33	
1611	2014	7	19	7	24	0	200.308	S	SW	S	200	210	160	163.509	162.316	
1612	2014	7	19	10	24	0	200.433	NE	NE	NW	40	40	330	163.519	162.309	

1613	2014	7	20	3	39	0	201.152	W	W	E	280	290	70	163.576	162.273	
1614	2014	7	21	10	9	15	202.423	N	NW	N	0	330	10	163.677	162.21	
1615	2014	7	22	10	9	15	203.423	E	E	W	90	90	280	163.757	162.16	
1616	2014	7	22	18	9	15	203.756	NE	NE	NW	50	40	320	163.783	162.144	
1617	2014	7	24	22	54	0	205.954	W	E	W	270	80	280	163.956	162.038	
1618	2014	7	25	18	39	0	206.777	SW	SW	SE	230	230	120	164.02	161.999	
1619	2014	7	25	22	9	15	206.923	N	N	N	340	10	0	164.031	161.992	
1620	2014	7	26	8	39	0	207.360	E	E	W	100	100	270	164.065	161.972	
1621	2014	7	28	0	9	15	209.006	SW	SW	E	220	220	110	164.193	161.895	
1622	2014	7	28	14	24	0	209.600	SW	SW	E	230	230	110	164.239	161.868	
1623	2014	7	29	1	24	0	210.058	NW	NW	NE	320	320	40	164.274	161.848	
1624	2014	7	29	7	24	0	210.308	NE	N	N	30	0	0	164.837	164.294	
1625	2014	7	29	14	24	0	210.600	NW	N	NE	320	350	30	164.316	161.823	
1626	2014	7	29	16	39	0	210.694	SW	SW	E	220	240	100	164.323	161.819	
1627	2014	7	29	18	39	0	210.777	E	E	W	90	90	270	164.33	161.816	
1628	2014	7	31	19	54	0	212.829	NE	NE	NW	60	60	310	164.487	161.726	
1629	2014	8	1	12	9	15	213.506	N	N	N	20	20	340	164.539	161.697	
1630	2014	8	1	18	54	0	213.788	S	SW	SE	200	240	120	164.56	161.685	
1631	2014	8	3	1	54	0	215.079	NW	N	N	330	0	20	164.659	161.631	
1632	2014	8	3	3	39	0	215.152	SW	SW	E	220	240	110	164.664	161.628	
1633	2014	8	3	5	24	0	215.225	NE	NE	NW	40	50	320	164.67	161.625	
1634	2014	8	4	3	39	0	216.152	NE	NE	NW	60	60	310	164.74	161.587	
1635	2014	8	6	0	39	0	218.027	NE	E	NW	60	70	300	164.882	161.512	
1636	2014	8	8	16	54	0	220.704	halo	E - halo	NW - halo	halo	70	300	165.082	161.411	candidate
1637	2014	8	10	9	54	0	222.413	NW	NW	NE	300	300	50	165.21	161.35	
1638	2014	8	12	5	39	0	224.235	NW	NW	NE	310	330	50	165.344	161.288	
1639	2014	8	12	8	54	0	224.371	W	W	E	270	280	80	165.354	161.283	
1640	2014	8	12	19	39	0	224.819	W	W	E	280	290	70	165.387	161.269	
1641	2014	8	15	8	9	15	227.340	W	W	E	290	290	70	165.57	161.191	
1642	2014	8	15	10	54	0	227.454	SW	SW	S	230	220	200	165.579	161.188	
1643	2014	8	15	18	39	0	227.777	NE	NW	N	50	330	350	165.602	161.179	
1644	2014	8	24	14	0	0	236.583	SW	SW	E	240	240	100	166.22	160.978	

Footnotes

- (a) Number of events.*
- (b) First appearance in STEREO-A COR2 displayed in 6 different columns (from column 2 to column 7), date is displayed in the form*
- (c) Direction of the ICMEs expressed in cardinal directions. We also noted If it is visible as an halo ICME we noted the dominant direction with*
- (d) Principal angle (PA) in the STEREO-A COR2 coronagraph in degrees.*
- (d) Principal angle (PA) in the STEREO-B COR2 coronagraph in degrees.*
- (d) Principal angle (PA) in the SOHO LASCO C3 coronagraph in degrees.*
- (g) Separation angle between Earth and STEREO-A satellite at the day of the CME eruption.*
- (h) Separation angle between Earth and STEREO-B satellite at the day of the CME eruption.*
- (i) In this column we comment if a CME is candidate for an Earth-impacting ICME or not.*