

\*ACE Magnetic Reconnection Exhaust List\*

31 December 2009

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Acknowledgment: Tai Phan assisted in the identification of some of these events.

Start times should be good to within better than 5 minutes.

There probably are additional, as yet unidentified, events in the data, particularly after January 2006.

Events were identified using the unedited SWEPAM data set available at Los Alamos. Some of these events are not obvious in the level 2 SWEPAM data because of the editing process used in producing the level 2 data set.

Events identified through January 2006

<u>Event</u>	<u>Date</u>	<u>DOY</u>	<u>Time</u>
1	04 Nov 1997	308	0109
2	10 Nov 1997	314	0746
3	16 Nov 1997	320	1624
4	23 Nov 1997	327	1221
5	26 Nov 1997	330	2024
6	29 Dec 1997	363	2256
7	30 Dec 1997	364	0948
8	30 Dec 1997	364	1717
9	31 Dec 1997	365	0842
10	06 Jan 1998	006	1952
11	09 Feb 1998	040	1828
12	17 Feb 1998	048	0907
13	20 Feb 1998	051	1743
14	25 Mar 1998	084	1612
15	17 Apr 1998	107	0106
16	18 May 1998	138	1501
17	21 May 1998	141	0524
18	07 Jul 1998	188	1328
19	18 Jul 1998	199	1434
20	13 Aug 1998	225	1315
21	21 Aug 1998	233	1919
22	31 Aug 1998	243	2350
23	01 Sep 1998	244	0059
24	01 Sep 1998	244	1010
25	02 Sep 1998	245	2053

26	11 Sep 1998	254	1707
27	15 Sep 1998	257	0248
28	17 Sep 1998	260	0317
29	14 Nov 1998	318	0435
30	14 Nov 1998	318	0709
31	18 Dec 1998	352	0049
32	18 Dec 1998	352	0430
33	25 Dec 1998	359	0540
34	04 Jan 1999	004	2115
35	18 Feb 1999	049	0949
36	25 Apr 1999	115	1324
37	29 May 1999	149	0512
38	29 May 1999	149	0646
39	08 Jun 1999	159	1553
40	15 Jun 1999	166	1420
41	05 Jul 1999	186	1341
42	22 Jul 1999	203	0105
43	28 Jul 1999	209	0406
44	11 Aug 1999	223	0335
45	19 Sep 1999	262	0833
46	09 Oct 1999	282	0439
47	06 Nov 1999	130	0832
48	12 Nov 1999	316	1823
49	02 Dec 1999	336	1721
50	13 Dec 1999	347	1627
51	30 Dec 1999	364	1600
52	19 Apr 2000	110	0331
53	24 Apr 2000	115	1310
54	15 May 2000	136	1336
55	29 May 2000	150	0603
56	05 Jun 2000	157	1124
57	09 Aug 2000	222	2040
58	12 Aug 2000	225	0128
59	06 Sep 2000	250	0024
60	03 Oct 2000	277	1458
61	11 Oct 2000	285	0849
62	24 Nov 2000	329	0710
63	25 Nov 2000	330	1715
64	26 Feb 2001	057	1517
65	04 Mar 2001	063	0750
66	19 Mar 2001	078	1226
67	08 Jun 2001	159	0642
68	17 Jun 2001	168	1600

69	13 Aug 2001	225	0248
70	13 Aug 2001	225	0646
71	01 Sep 2001	244	0045
72	06 Sep 2001	249	1737
73	19 Sep 2001	262	0132
74	02 Oct 2001	275	1404
75	12 Oct 2001	285	0309
76	01 Nov 2001	305	0830
77	05 Nov 2001	309	1652
78	05 Nov 2001	309	1748
79	05 Nov 2001	309	1930
80	15 Nov 2001	319	1750
81	13 Dec 2001	347	0650
82	02 Feb 2002	033	0131
83	27 Mar 2002	086	1315
84	28 Mar 2002	087	2317
85	14 Apr 2002	104	0925
86	20 Apr 2002	110	0008
87	18 Jun 2002	169	0820
88	18 Jun 2002	169	2245
89	28 Jun 2002	179	1452
90	10 Jul 2002	191	0540
91	04 Aug 2002	216	0030
92	13 Aug 2002	225	0843
93	02 Sep 2002	245	0230
94	21 Sep 2002	264	0625
95	09 Oct 2002	282	0340
96	12 Oct 2002	285	0955
97	13 Oct 2002	286	2113
98	03 Jan 2003	003	0824
99	14 Jan 2003	014	0518
100	02 Mar 2003	061	2113
101	01 Apr 2003	091	0236
102	01 Apr 2003	091	0510
103	12 Jun 2003	163	0605
104	05 Aug 2003	217	0745
105	24 Oct 2003	297	0225
106	24 Oct 2003	297	0755
107	09 Feb 2004	040	1645
108	22 Feb 2004	053	0130
109	08 Mar 2004	068	1355
110	20 Apr 2004	111	0615
111	01 May 2004	122	0024

112	12 May 2004	133	1515
113	12 May 2004	133	1615
114	17 May 2004	138	0330
115	17 May 2004	138	0820
116	13 Jun 2004	165	0940
117	15 Jul 2004	197	2133
118	24 Jul 2004	206	1204
119	09 Aug 2004	222	1500
120	09 Aug 2004	222	2000
121	26 Aug 2004	239	0901
122	10 Sep 2004	254	0730
123	19 Sep 2004	263	0617
124	26 Sep 2004	270	0440
125	08 Oct 2004	282	0651
126	11 Oct 2004	285	1435
127	29 Oct 2004	303	0232
128	08 Nov 2004	313	1655
129	12 Nov 2004	317	1315
130	06 Dec 2004	341	0243
131	15 Mar 2005	72	2040
132	16 May 2005	136	1250
133	30 May 2005	150	1425
134	30 May 2005	150	1515
135	30 May 2005	150	1840
136	29 Jun 2005	180	1530
137	01 Jul 2005	182	0920
138	20 Aug 2005	232	0840
139	29 Aug 2005	241	2205
140	29 Aug 2005	241	2325
141	21 Sep 2005	264	1750
142	04 Oct 2005	277	0900
143	05 Dec 2005	339	0950
144	08 Dec 2005	342	0245
145	11 Jan 2006	11	2250
146	19 Jan 2006	19	1345
147	30 Jan 2006	30	1700
148	11 Mar 2007	70	0523