

No. crt.	Year	Month	Day	3-h	V0 (km/s)	V1 (km/s)	Δt_1	Vmax (km/s)	Dur (days)	ΔV_1 (km/s)	ΔV_M (km/s)	I	Source	IMF	Dst_min (nT)	Dst_date (mm:dd:hh)	Bz_min (nT)	Bz_date (mm:dd:hh)	SSC_date (mm:dd:hh)	Energy estimate ΔW_ϵ (J)	Energy estimate ΔW (J)	SYM-H_min (nT)	SYM-H_date (mm:dd:hh:min)
1	2013	1	12	6	350.3	495.7	10	547	4.1	145.4	196.7	806.47	CH*	+									
2	2013	1	24	4	270.7	390	11	519.7	6.2	119.3	249	1543.8	CH550	-	-51	01:26:22	-8.1	01:26:21		5.33E+17	2.68E+18	-62	01:26:22:19
3	2013	2	1	1	324.7	477.7	13	477.7	5.1	153	153	780.3	CH551	-									
4	2013	2	7	1	337	455	13	455	9	118	118	1062	CH553	+									
5	2013	2	28	4	319.7	626.3	12	626.3	6	306.6	306.6	1839.6	CH556	-	-55	03:01:10	-13.4	03:01:08		5.12E+16	7.52E+17	-76	03:01:20:12
															-35	03:04:02	-2.1	03:04:00				-33	03:04:01:42
6	2013	3	26	7	354.3	531.3	9	531.3	2.1	177	177	371.7	CH*	-	-33	03:27:17	-6.6	03:27:15				-41	03:27:16:56
7	2013	3	28	8	384.7	532.7	8	563	4.1	148	178.3	731.03	CH562	-	-59	03:29:17	-8.9	03:29:15		6.34E+16	9.72E+17	-64	03:29:16:17
															-37	03:30:18	-1.1	03:30:17				-39	03:30:18:18
															-31	04:01:09	-3.2	04:01:07				-33	04:01:09:56
8	2013	4	10	2	322	475.7	14	475.7	3.5	153.7	153.7	537.95	CH564	+									
9	2013	4	23	1	270.3	408	15	568	7.2	137.7	297.7	2143.44	CH566	-	-48	04:24:18	-5.1	04:24:18				-50	04:24:19:27
10	2013	4	30	3	346.7	456.3	13	472	5.1	109.6	125.3	639.03	CH567	-	-72	05:01:18	-7.4	05:01:16		7.95E+16	1.52E+18	-67	05:01:19:10
11	2013	5	5	4	353	527	9	540.3	7.1	174	187.3	1329.83	CH568	+	-33	05:05:06	-4.7	05:05:05				-30	05:05:06:35
12	2013	5	23	6	398	543.7	10	769	7	145.7	371	2597	CME, CH*	-	-59	05:25:06	-6.6	05:25:03	05:24:18	1.33E+15	1.04E+17	-65	05:25:05:46
															-43	05:26:05	-4.4	05:26:05	05:25:09			-53	05:26:05:47
13	2013	5	31	5	332	676	8	766	9.5	344	434	4123	CH571	+	-124	06:01:08	-16.2	06:01:06	05:31:16	1.86E+17	1.25E+18	-137	06:01:07:48
															-34	06:03:02	2.1	06:03:02				-27	06:03:04:12
															-78	06:07:05	-12.1	06:07:02		8.01E+15	3.13E+17	-86	06:07:04:39
14	2013	6	19	1	283.7	483.3	15	673.7	8.4	199.6	390	3276	CH573	-	-38	06:23:23	-4.2	06:23:21				-35	06:23:22:32
															-49	06:24:23	-4.3	06:24:18				-44	06:24:23:27
15	2013	6	29	2	362.3	543	13	543	4.9	180.7	180.7	885.43	CH574	+	-102	06:29:06	-11.9	06:28:23	06:27:14	2.65E+17	1.98E+18	-111	06:29:06:34
															-42	06:30:22	-2.4	06:30:23				-41	06:30:22:33
															-87	07:06:18	-7.4	07:06:16		5.11E+15	3.39E+17	-79	07:06:18:52
16	2013	7	17	5	335.3	518	11	616.7	7.1	182.7	281.4	1997.94	CH575	-									
17	2013	7	25	3	314	467	5	565	8.6	153	251	2158.6	CH576	+									
18	2013	8	3	1	309	502	15	545.7	6.2	193	236.7	1467.54	CH577	+	-50	08:05:02	-7.1	08:05:00		1.75E+16	3.37E+17	-56	08:05:02:20
19	2013	8	9	3	354.7	477	5	477	3.1	122.3	122.3	379.13	CH578	-									
20	2013	8	13	3	341.3	474.3	12	762	7.4	133	420.7	3113.18	CH579	-	-41	08:16:04	-4.8	08:16:02				-54	08:16:04:29
21	2013	8	20	6	386	505	10	552	5.1	119	166	846.6	CH580	+	-40	08:23:02	-3.2	08:23:01				-46	08:23:02:20
22	2013	8	27	2	334.3	473.3	9	473.3	2.9	139	139	403.1	CH581	-	-59	08:27:21	-10	08:27:19		7.20E+15	7.25E+16	-64	08:27:21:43
23	2013	8	30	1	404	547.3	11	547.3	2.6	143.3	143.3	372.58	CH583	+	-39	08:31:02	-7.2	08:30:22				-42	08:31;02:47
															-31	09:01:21	-3.6	09:01:19				-33	09:01:21:23
24	2013	9	12	4	341.3	524.7	12	567.7	5.8	183.4	226.4	1313.12	CH585	-									
25	2013	9	18	2	358.3	543	6	552.7	5.4	184.7	194.4	1049.76	CH586	+									
26	2013	10	14	1	325.7	463.7	7	544.3	5.8	138	218.7	1268.46	CH590	+	-49	10:15:03	-5.4	10:15:02				-52	10:15:03:18
27	2013	11	8	2	382.3	603.7	13	603.7	5.2	221.4	221.4	1151.28	CH593	+	-50	11:07:12	-8,6	11:07:10		2.17E+16	1.97E+17	-52	11:07:12:34
															-80	11:09:08	-11.4	11:09:06		1.76E+15	9.20E+16	-79	11:09:08:14
															-68	11:11:07	-6.2	11:11:05		1.42E+16	3.59E+17	-68	11:11:07:13
28	2013	11	15	3	328.3	522.3	12	522.3	6.4	194	194	1241.6	CH594	-	-40	11:16:02	-7.2	11:15:22				-42	11:16:00:58
29	2013	11	29	1	275.7	502.7	15	522.3	8.2	227	246.6	2022.12	CH595	+									
30	2013	12	7	3	308	631.7	10	631.7	5.4	323.7	323.7	1747.98	CH596	+	-66	12:08:08	-8.4	12:08:06		5.18E+16	2.52E+17	-72	12:08:08:30
31	2013	12	13	3	279	584.3	13	585	9	305.3	306	2754	CH597	-	-38	12:14:17	-7.1	12:14:15				-42	12:14:17:47