No. crt.	Year	Month	Day	3-h	V0 (km/s)	V1 (km/s)	Δt1	Vmax (km/s)	Dur (days)	ΔV1 (km/s)	ΔVM (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 ΔWε (J)	Energy estimate ΔW (J)	SYM-H_min (nT)	SYM-H_date (mm:dd:hh:min)
1	2012	1	12	6	396.3	527.3	5	527.3	2	131	131	262	CH492	+									
2	2012	1	15	3	338	490.3	12	490.3	5.2	152.3	152.3	791.96	CH493	-									
3	2012	1	24	4	387.7	602.7	8	635.3	5.6	215	247.6	1386.56	CHs495, 496	+	-73	01:25:10	-8.9	01:25:09		1.80E+16	2.12E+17	-82	01:25:10:45
														+	-37	01:26:10	-3.1	01:26:09				-38	01:26:10:03
4	2012	2	6	8	391.3	491.7	8	503.3	2.6	100.4	112	291.2	CH498	-									
5	2012	2	18	2	300	470.3	14	554	3.9	170.3	254	990.6	CH499	-									
6	2012	2	22	1	390.7	543.3	5	543.3	2.8	152.7	152.7	427.56	CH501	+									
	2012	3	6	2	367.7	577.3	13	719	6.1	209.6	351.3	2142.93	CH506	+	-88	03:07:09	-15.3	03:07:05	03:07:04	4.13E+15	1.88E+17	-98	03:07:09:16
8	2012	3	15	2	463.3	781	5	781	5	317.7	317.7	1588.5	CME, CH507	-	-88	03:15:20	-9.2	03:15:16	03:15:13	4.25E+16	4.20E+17	-79	03:15:19:53
															-69	03:17:00	-4.4	03:16:21		3.22E+15	1.01E+17	-66	03:17:00:43
															-54	03:18:02	-4	03:18:01				-53	03:18:02:24
9	2012	3	23	2	347.3	461	13	461	3.1	113.7	113.7	352.47	CH508	+									
10	2012	3	27	1	337	459	11	459	2.6	122	122	317.2	CH509	-	-68	03:28:05	-9.1	03:28:03		3.63E+16	1.12E+18	-68	03:28:04:46
11	2012	4	11	2	310.7	550.7	13	633	6	240	322.3	1933.8	CH512	-	-60	04:13:05	-5.5	04:12:23		3.25E+16	8.32E+17	-56	04:13:04:57
12	2012	4	23	1	324.3	586	14	702	7.9	261.7	377.7	2983.83	CH514	-	-120	04:24:04	-15.4	04:23:18	04:23:03	1.41E+16	2.87E+17	-125	04:24:03:26
13	2012	5	8	3	289	578.7	13	624.7	13.8	289.7	335.7	4632.66	CHs515, 516	-	-43	05:09:09	-5.9	05:09:05				-56	05:09:09:34
															-31	05:11:03	-4	05:10:23				-44	05:11:03:17
															-37	05:13:13	-4.3	05:13:10				-39	05:13:12:33
14	2012	5	22	1	382.3	637.3	10	637.3	4.6	255	255	1173	CHs517, 518	-	-46	05:23:04	-6.8	05:23:03				-60	05:23:07:29
15	2012	6	3	4	329	595.3	12	719.7	11.8	266.3	390.7	4610.26	CH520	-	-49	06:03:19	-12.1	06:03:16				-41	06:03:19:00
															-67	06:12:01	-9	06:12:00		1.21E+16	5.87E+17	-67	06:12:01:42
16	2012	6	25	4	346.3	451	9	496.7	4.4	104.7	150.4	661.76	CH*	+									
17	2012	6	29	7	372.7	669.7	8	669.7	10.2	297	297	3029.4	CH521	-									
18	2012	7	10	1	402.7	527.7	11	527.7	2.9	125	125	362.5	CH522	+	-78	07:09:12	-11.4	07:09:13		2.17E+16	5.44E+17	-57	07:09:12:39
19	2012	7	23	5	430.7	555.7	7	555.7	2.2	125	125	275	CH524	+									
20	2012	8	12	2	342.7	476.3	11	500	5.9	133.6	157.3	928.07	CH527	-									
21	2012	8	18	1	373.7	560.3	15	578.3	6.2	186.6	204.6	1268.52	CH529	+									
22	2012	8	24	3	367.3	580.3	8	676	7	213	308.7	2160.9	CH530	-/+,+									
23	2012	9	12	6	281.7	400	10	446	6.5	118.3	164.3	1067.95	CHs534, 535	+									
24	2012	9	19	2	354	573	11	573	4.5	219	219	985.5	CH536	-	-36	09:19:22	-6.8	09:19:19				-42	09:19:22:41
25	2012	10	7	2	314.3	424.7	12	547	4.5	110.4	232.7	1047.15	CME, CH538	+/-	-99	10:08:12	-14.4	10:08:08		1.10E+16	5.54E+17	-96	10:08:12:17
															-109	10:09:08	-14.9	10:09:04		1.00E+16	3.22E+17	-110	10:09:08:21
															-45	10:10:11	-0.7	10:10:10				-45	10:10:11:35
26	2012	10	11	6	436	539.3	6	574.3	4	103.3	138.3	553.2	CH539	-/+	-90	10:13:07	-11.9	10:13:08		1.41E+15	9.10E+16	-106	10:13:07:59
27	2012	10	16	7	344.7	489	4	583.7	4.4	144.3	239	1051.6	CH541	-									
28	2012	11	6	3	289	496.7	13	496.7	4.9	207.7	207.7	1017.73	CH*	-									
29	2012	11	12	4	284	450	7	474.3	12.6	166	190.3	2397.78	2CMEs, CH545	-/+	-108	11:14:07	-17.2	11:14:06		1.05E+17	8.36E+17	-118	11:14:07:27
30	2012	12	3	2	310	444.3	11	444.3	3.5	134.3	134.3	470.05	CH546	-									
31	2012	12	16	3	366.3	484	11	495.7	6.4	117.7	129.4	828.16	CH*	+									
32	2012	12	29	7	280.7	468	9	468	3.3	187.3	187.3	618.09	CH*	-									