

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	2016	1	5	4	391	606.7	7	606.7	5.8	215.7	215.7	1251.06	CH708	+									
2	2016	1	11	2	409.3	569	6	604	4.1	159.7	194.7	798.27	CH709	-									
3	2016	1	20	6	342.3	520.7	10	554	6	178.4	211.7	1270.2	CH*	-	-93	01:20:16	-11.8	01:20:15	01:18:22	2.05E+17	1.18E+18	-95	01:20:16:42
															-39	01:21:15	-2.1	01:21:15				-41	01:21:15:28
4	2016	2	2	1	270	396.3	15	477	9	126.3	207	1863	CH713	+,+/-	-53	02:03:02	-8.3	02:03:01		9.18E+14	5.58E+16	-60	02:03:02:52
5	2016	2	15	2	375	624.3	14	642.7	6	249.3	267.7	1606.2	CH715	-	-57	02:16:19	-3.3	02:16:18		1.42E+17	1.04E+18	-58	02:16:19:44
															-57	02:18:00	-6.4	02:17:21		9.75E+15	8.80E+16	-60	02:18:00:28
															-33	02:19:07	-2.3	02:19:04				-33	02:19:06:25
6	2016	2	25	7	303.3	418	6	418	4.2	114.7	114.7	481.74	CH716	+									
7	2016	3	1	1	310	462.7	14	462.7	4	152.7	152.7	610.8	CH719	+									
8	2016	3	5	1	345	497.7	15	583.7	5.1	152.7	238.7	1217.37	CH718	-	-98	03:06:21	-12.7	03:06:19		6.36E+15	1.04E+17	-110	03:06:21:20
9	2016	3	11	2	309	555	6	555	3.5	246	246	861	CH720	+									
10	2016	3	14	6	373	538.3	2	570.3	6	165.3	197.3	1183.8	CH721	-	-49	03:15:07	-4.2	03:15:05	03:14:21			-62	03:15:17:18
															-56	03:16:23	-5.3	03:16:23		3.59E+15	9.58E+16	-69	03:16:23:41
11	2016	3	23	1	393.7	523	15	546.7	3.2	129.3	153	489.6	CH723	+									
12	2016	3	27	2	382	502	14	536.3	5.4	120	154.3	833.22	CH724	+									
13	2016	4	2	3	324.3	491.3	5	491.3	8.9	167	167	1486.3	CH726	-/+	-56	04:02:23	-6.4	04:02:22		2.22E+16	2.31E+17	-65	04:02:23:47
															-60	04:07:21	-11.6	04:07:19		7.61E+15	1.06E+17	-63	04:07:21:34
14	2016	4	11	2	340.7	473.3	14	609.3	8.4	132.6	268.6	2256.24	CH727	+	-55	04:13:05	-7.9	04:12:23		2.39E+16	4.15E+17	-69	04:13:04:44
															-59	04:14:20	-5.4	04:14:18	04:14:07	5.03E+15	2.74E+17	-68	04:14:20:29
															-55	04:16:21	-8.5	04:16:19		6.89E+15	1.75E+17	-64	04:16:20:47
15	2016	4	21	1	357.3	562.3	14	562.3	8.5	205	205	1742.5	CH729	+									
16	2016	4	30	2	347	455	14	571.3	6.1	108	224.3	1368.23	CH730	-	-37	05:02:03	-5.1	05:02:01				-56	05:02:03:19
17	2016	5	6	3	375.3	517.7	6	667.7	6.9	142.4	292.4	2017.56	CHs 732,733	-	-88	05:08:08	-11.2	05:08:05		1.06E+16	2.26E+17	-105	05:08:08:15
															-50	05:09:22	-4.3	05:09:19		1.08E+16	1.69E+17	-55	05:09:21:55
18	2016	5	14	7	324.3	446.3	8	527.7	5.8	122	203.4	1179.72	CH734	+									
19	2016	5	20	5	414	524.3	11	609.3	3.4	110.3	195.3	664.02	CH735	+									
20	2016	5	26	5	334	466	11	524	7.5	132	190	1425	CH737	-									
21	2016	6	4	6	289.3	592.7	10	622.7	5.6	303.4	333.4	1867.04	CH738	-	-44	06:06:06	-5.9	06:06:04				-55	06:06:06:47
22	2016	6	10	3	340.7	516	11	556.3	4.1	175.3	216.6	888.06	CH739	+									
23	2016	6	14	4	424.3	668.7	6	668.7	6.7	244.4	244.4	1637.48	CH740	+									
24	2016	6	22	3	340.7	463.7	13	523	8.2	123	182.3	1494.86	CHs741, 742	-	-30	06:24:02	-5.6	06:24:00				-40	06:24:02:24
25	2016	7	2	6	343.3	457	5	457	3.1	113.7	113.7	352.47	CH745	-									
26	2016	7	6	7	313.3	506.7	8	628.7	5.1	193.4	315.4	1608.54	CH746	+									
27	2016	7	11	8	455.3	621.3	7	659.3	6.6	166	204	1346.4	CH746	+	-31	07:12:09	-6.9	07:12:08				-44	07:12:10:11
28	2016	7	19	7	321.3	563	5	563	8.1	241.7	241.7	1957.77	CH750	-	-34	07:25:12	-5.1	07:25:10				-39	07:25:12:26
29	2016	7	27	8	325.3	536.3	8	598.7	4.6	211	273.4	1257.64	CH752	-	-30	07:28:19	-6.9	07:28:17				-42	07:28:19:30
30	2016	8	2	2	312	442.7	5	659.3	6.1	130.7	347.3	2118.53	CH753	+	-52	08:03:10	-15.1	08:03:09		5.86E+017	2.07E+018	-58	08:03:10:37
31	2016	8	8	3	465	618	10	641.7	5.2	153	176.7	918.84	CHs753, 754	+									
32	2016	8	16	1	284	399.7	12	400	5	115.7	116	580	CH*	-									
33	2016	8	21	1	292.7	401.7	7	560.7	8.2	109	268	2197.6	CHs755, 756	-	-74	08:23:21	-11.1	08:23:19		1.17E+016	2.07E+017	-83	08:23:21:13
34	2016	8	29	3	332	448.3	13	448.3	2.4	116.3	116.3	279.12	CH757	+									
35	2016	8	31	6	414	557.3	9	693.7	8.6	143.3	279.7	2405.42	CHs758, 759	+	-59	09:01:09	-7.5	09:01:06		2.88E+016	6.18E+017	-57	09:01:09:30
															-50	09:03:04	-2.6	09:03:04		4.38E+015	7.26E+016	-54	09:03:04:28
															-40	09:04:06	-1.8	09:04:05				-44	09:04:06:17
															-38	09:05:19	-3.9	09:05:17				-36	09:05:19:46
															-33	09:08:10	-3.7	09:08:10				-30	09:08:09:46
36	2016	9	18	1	301.3	464.3	15	710.7	7.1	163	409.4	2906.74	CH761	-	-31	09:20:03	-2.8	09:20:03				-36	09:20:02:25
37	2016	9	25	2	349.3	470	14	697	15.1	120.7	347.7	5250.27	CHs763, 765	+	-30	09:25:03	-2.8	09:25:00				-30	09:25:02:33
															-49	09:27:09	-4.9	09:27:08				-51	09:27:09:07
															-47	09:28:17	-3.4	09:28:15				-50	09:28:18:23
															-66	09:29:09	-4.5	09:29:08		2.12E+016	4.05E+017	-64	09:29:09:32
															-41	10:01:00	-1.5	09:30:22				-51	10:01:00:01
															-44	10:04:03	-4.8	10:04:01				-51	10:04:03:49
38	2016	10	14	5	356.3	531.3	11	722	7.4	175	365.7	2706.18	CHs766, 767	-	-104	10:13:23	-17.6	10:13:21	10:12:22	7.93E+016	1.21E+018	-114	10:13:23:45
39	2016	10	22	6	325.7	438.3	6	713	14.3	112.6	387.3	5538.39	CHs768, 769	+	-30	10:24:16	-6.6	10:24:13				-28	10:24:15:21
															-59	10:25:17	-2	10:25:16		5.61E+016	4.66E+017	-64	10:25:17:46
															-64	10:29:03	-7.2	10:29:02		5.09E+015	1.82E+017	-77	10:29:02:55
40	2016	11	9	2	294.3	451.7	14	724.3	12.6	157.4	430	5418	CH771	-	-57	11:10:17	-10.5	11:10:14	11:09:06	3.18E+017	2.07E+018	-55	10:10:17:37
41	2016	11	21	7	330.7	458.3	6	656.3	11	127.6	325.6	3581.6	CHs773, 774	+	-38	11:24:15	-5.9	11:24:13				-33	11:24:15:06
															-46	11:25:05	-4.8	11:25:05				-49	11:25:05:26
42	2016	12	7	3	330.3	514.3	5	689	12.8	184	358.7	4591.36	CH777	-	-41	12:09:19	-3.4	12:09:18				-48	12:09:19:09
43	2016	12	20	1	323.7	651.7	13	731.3	9.8	328	407.6	3994.48	CH780	+	-40	12:21:20	-6.3	12:21:15				-51	12:21:16:08