The main parameters of cosmic rays, solar wind, interplanetary magnetic field, and geomagnetic activity for different types of interplanetary disturbances

Date **Time**	Date and time of the beginning of the event
***AF*, %**	Forbush Decrease (FD) magnitude
t_{min}, h	Time to the FD minimum from the beginning of the event
Axy_{max}, %	Maximum equatorial cosmic ray (CR) anisotropy
t_{Axymax}, h	Time of registration of maximum equatorial CR anisotropy from the beginning of the event
B_{max}, nT	Maximum interplanetary magnetic field (IMF) value
t_{Bmax}, h	Time of registration of maximum IMF value from the beginning of the event
V_{max}, km/s	Maximum solar wind (SW) velocity
t_{Vmax}, h	Time of registration of maximum SW velocity from the beginning of the event
Kp_{max} Ap_{max} Dst_{min}, nT	Extreme values of geomagnetic indices *Ap*, *Kp*, *Dst* in the event
VmBm	The parameter, which characterizes the disturbance of the solar wind and normalized as follows: $VmBm = (V_{max} \times B_{max}) / (V_0 \times B_0)$, where V_0 and B_0 are the parameters of the undisturbed interplanetary medium (usually V_0 = 400 km s $^{-1}$ and B_0 = 5 nT)
Type of interplanetary disturbance	ICME (+ HSS) – an ICME followed by an HSS from CH (ICME + HSS group); HSS (+ ICME) – an HSS from CH, before which an ICME were registered (ICME + HSS group); ICME1 – the first ICMEs from an interacting pair of ICMEs; ICME2 – the second ICMEs from an interacting pair of ICMEs; HSS1 – the first HSS from CHs in the interacting pair HSS1 + HSS2; HSS2 – the second HSS from CHs in the interacting pair HSS1 + HSS2; ICME – isolated ICME (control group) HSS – isolated HSS from CH (control group)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1995.01.01	19:40:00	0.9	36	1.1	22	14.4	24	707	69	5.3	56	-42	5.09	HSS1
1995.01.04	21:00:00	0.9	47	0.92	8	6.8	28	675	5	4.3	32	-43	2.29	HSS2
1995.01.08	13:00:00	0.5	-1	0.73	29	8.1	55	585	0	3.3	18	-22	2.37	ICME
1995.01.15	13:00:00	0.6	29	1.28	2	8.3	30	366	25	4.3	32	-39	1.52	ICME(+HSS)
1995.01.16	22:00:00	1.5	24	1.2	31	18.2	27	523	49	6.3	94	-95	4.76	HSS(+ICME)
1995.01.28	18:47:00	0.2	1	0.7	1	8.1	7	320	2	2	7	11	1.3	ICME(+HSS)
1995.01.29	3:00:00	1.2	44	0.97	32	19.3	13	708	32	6.3	94	-56	6.83	HSS(+ICME)
1995.02.07	23:00:00	0.9	6	1.18	11	12.6	16	477	0	5.3	56	-80	3.01	ICME1
1995.02.09	1:00:00	0.8	2	1.26	19	10.1	7	414	4	2.7	12	-30	2.09	ICME2
1995.03.23	10:37:00	1.2	15	1.47	8	11	7	343	10	2.7	12	-6	1.89	ICME
1995.03.26	4:00:00	1.3	41	1.11	24	17.8	10	511	42	5.7	67	-107	4.55	ICME
1995.04.01	17:20:00	0.8	11	0.99	21	10.4	34	394	3	5.7	67	-67	2.05	ICME1
1995.04.03	6:00:00	0.7	12	1.22	35	10.3	14	349	-1	2.7	12	-21	1.8	ICME2
1995.05.21	2:00:00	0.5	46	0.58	-1	5.9	13	422	-1	2.7	12	-35	1.24	ICME
1995.05.29	5:00:00	1.1	12	0.92	1	14.1	8	448	8	4.3	32	-17	3.16	ICME(+HSS)
1995.05.30	5:00:00	1.3	30	1.11	39	16.2	3	766	34	5.7	67	-46	6.2	HSS(+ICME)
1995.06.01	19:00:00	0.5	12	1.11	23	7.4	12	689	24	4.7	39	-45	2.55	ICME
1995.06.25	8:00:00	1	23	0.8	21	14.5	19	571	15	4.7	39	-40	4.14	ICME(+HSS)
1995.06.26	13:00:00	0.4	17	1.12	39	6.9	4	553	8	3	15	-23	1.91	HSS(+ICME)
1995.07.22	6:00:00	0.4	3	0.71	42	8.5	4	424	29	3	15	-18	1.8	ICME(+HSS)
1995.07.24	2:53:00	1.4	17	1.23	48	18.7	10	486	22	5.3	56	-52	4.54	HSS(+ICME)
1995.07.28	8:00:00	0.5	14	1.45	1	6.9	21	388	5	2.7	12	-15	1.34	ICME
1995.07.30	16:00:00	0.6	10	1.15	0	8.9	3	390	36	3	15	-13	1.74	ICME
1995.08.17	2:57:00	0.9	31	0.86	24	9.3	20	443	2	3.3	18	-31	2.06	ICME
1995.08.19	9:00:00	0.5	5	0.9	48	6.8	11	421	16	3	15	-18	1.43	ICME
1995.08.22	13:08:00	1.4	15	1.48	1	11.5	16	381	14	5.3	56	-61	2.19	ICME
1995.09.04	7:00:00	0.5	18	0.96	14	11.8	29	335	29	4	27	-34	1.98	ICME(+HSS)
1995.09.05	13:00:00	2.1	32	0.76	10	18.8	4	618	52	5.7	67	-54	5.81	HSS(+ICME)
1995.09.10	19:00:00	0.6	13	0.64	20	11.4	3	583	25	5.7	67	-47	3.32	HSS1
1995.09.12	17:00:00	0.8	29	0.87	36	7.5	10	634	28	4.7	39	-39	2.38	HSS2
1995.09.15	9:00:00	0.6	22	1.25	29	11.9	14	526	26	5	48	-52	3.13	ICME
1995.09.27	14:00:00	0.9	17	0.81	36	14.4	4	419	5	7	132	-108	3.02	ICME1
1995.09.29	11:12:00	0.5	12	0.93	44	7.5	0	380	1	2	7	-30	1.42	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1995.10.02	1:00:00	0.9	30	0.72	10	11.5	25	483	35	4.7	39	-58	2.78	ICME(+HSS)
1995.10.03	22:00:00	1.3	21	0.71	37	18.4	10	707	23	6.7	111	-92	6.5	HSS(+ICME)
1995.10.10	9:00:00	0.5	13	0.72	7	8.2	6	540	47	4.7	39	-44	2.21	ICME
1995.10.22	20:00:00	0.8	8	1.76	0	7.9	4	447	38	5	48	-57	1.77	ICME
1995.10.30	10:08:00	0.6	19	0.88	32	11.6	4	438	20	4.7	39	-58	2.54	ICME(+HSS)
1995.10.31	22:00:00	0.7	19	1.06	7	9.8	11	634	21	4.7	39	-55	3.11	HSS(+ICME)
1995.11.16	21:19:00	0.3	-1	0.71	40	9	14	378	3	3.3	18	-5	1.7	ICME
1995.11.22	3:00:00	0.4	21	0.73	46	7	9	366	22	2.7	12	-10	1.28	ICME
1995.12.01	12:00:00	1.1	19	0.81	16	11.4	63	409	56	4.7	39	-62	2.33	ICME
1995.12.15	15:15:00	0.6	11	0.9	26	12.6	25	425	12	5.3	56	-44	2.68	ICME(+HSS)
1995.12.17	4:00:00	0.5	-2	0.64	1	8.1	0	437	9	3.3	18	-24	1.77	HSS(+ICME)
1996.01.28	8:00:00	1	35	0.68	4	9.7	16	568	29	4.3	32	-38	2.75	ICME1
1996.01.30	3:00:00	0.4	6	0.61	20	8.6	4	574	4	3.3	18	-23	2.47	ICME2
1996.02.02	0:00:00	0.4	8	0.8	43	8.4	1	526	13	3.3	18	-23	2.21	ICME
1996.02.14	23:00:00	0.9	37	0.89	27	9.9	32	527	3	3.3	18	-32	2.61	ICME1
1996.02.16	15:00:00	0.4	18	0.87	25	14.1	1	441	48	3.3	18	-25	3.11	ICME2
1996.03.01	13:00:00	0.4	13	0.58	22	5.3	8	391	6	2	7	-21	1.04	ICME(+HSS)
1996.03.02	21:00:00	0.5	46	1.14	47	8.4	11	485	47	3	15	-30	2.04	HSS(+ICME)
1996.03.07	21:00:00	0.6	10	0.97	2	9.9	74	434	75	3.7	22	-30	2.15	ICME
1996.03.27	3:00:00	0.7	25	0.55	6	7.5	25	481	42	3.7	22	-25	1.8	ICME
1996.04.04	9:00:00	0.3	-1	0.71	44	9.4	6	412	14	4	27	-28	1.94	ICME
1996.04.14	8:00:00	0.7	21	0.99	43	11.8	14	609	34	7	132	-56	3.59	ICME
1996.04.17	1:00:00	0.5	6	0.8	20	9.7	2	731	66	5.3	56	-52	3.55	HSS
1996.04.24	20:00:00	0.6	18	0.91	28	5.7	45	394	4	2.3	9	-23	1.12	ICME(+HSS)
1996.04.26	18:00:00	0.6	44	0.85	15	7.4	27	427	34	3.3	18	-14	1.58	HSS(+ICME)
1996.05.17	0:00:00	0.4	14	1.01	24	8.4	4	444	2	3.3	18	-26	1.86	ICME
1996.05.19	6:00:00	0.6	39	0.86	5	9.3	20	483	39	3.7	22	-21	2.25	HSS
1996.05.27	8:00:00	0.7	14	0.83	31	11.1	33	416	5	3.7	22	-33	2.31	ICME(+HSS)
1996.05.29	0:00:00	0.5	7	0.88	20	15.8	3	465	25	3	15	-9	3.67	HSS(+ICME)
1996.07.01	13:20:00	0.6	12	1.04	12	13.8	14	369	6	3.3	18	-20	2.55	ICME(+HSS)
1996.07.02	17:00:00	0.8	8	1.24	3	11.6	3	553	35	3.3	18	-31	3.21	HSS(+ICME)
1996.07.07	8:00:00	1.2	27	0.71	26	7	14	465	30	3.3	18	-16	1.63	ICME
1996.07.12	0:00:00	1	47	0.87	34	10.2	25	428	34	3	15	-24	2.18	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1996.08.01	19:00:00	0.5	1	1.02	31	6.9	2	567	4	3.3	18	-27	1.96	HSS
1996.08.07	6:00:00	1.1	32	0.88	4	8.1	25	364	5	2.7	12	-23	1.47	ICME1
1996.08.08	18:00:00	1.5	45	1.03	7	8.5	8	406	20	2.7	12	-9	1.73	ICME2
1996.09.07	7:00:00	0.9	43	1.39	2	6.9	55	427	25	2.7	12	-20	1.47	ICME
1996.09.09	19:13:00	0.7	20	0.73	41	12.2	2	564	14	5	48	-42	3.44	ICME(+HSS)
1996.09.11	15:00:00	0.5	1	0.87	10	9.7	7	687	33	5	48	-54	3.33	HSS(+ICME)
1996.10.19	17:00:00	0.6	7	0.65	2	6.5	54	620	10	5.3	56	-52	2.02	HSS
1996.10.27	9:00:00	2	45	1.58	17	13.2	17	619	39	3.7	22	-26	4.09	HSS
1996.11.28	18:00:00	0.8	45	0.97	15	8.6	40	439	-1	2.3	9	-18	1.89	ICME
1996.12.02	10:01:00	0.8	15	0.64	32	17.4	9	429	35	4	27	-19	3.73	ICME(+HSS)
1996.12.04	4:00:00	0.5	22	0.67	36	10.6	5	523	9	3.7	22	-15	2.77	HSS(+ICME)
1996.12.09	22:00:00	0.7	30	1.01	4	13.7	1	671	37	5	48	-32	4.6	HSS
1996.12.20	21:00:00	0.6	8	0.75	-1	8.5	30	438	27	3.7	22	-37	1.86	ICME
1996.12.23	16:00:00	1.1	19	1.36	25	12.6	34	424	11	2	7	-14	2.67	ICME1
1996.12.25	9:00:00	0.9	44	1.12	2	9.8	-1	359	34	2	7	-33	1.76	ICME2
1997.01.17	6:00:00	0.5	6	1.29	6	6.8	56	355	48	3	15	-14	1.21	ICME
1997.01.23	17:00:00	0.5	39	0.75	42	8.2	12	356	14	2.3	9	-17	1.46	ICME
1997.01.25	21:00:00	1.2	35	0.97	46	15.7	15	576	23	4.7	39	-45	4.52	ICME(+HSS)
1997.01.27	21:00:00	0.7	13	1.14	2	9.7	6	708	19	4.7	39	-44	3.43	HSS(+ICME)
1997.02.17	8:00:00	0.5	12	0.84	9	11.2	10	429	22	4.3	32	-54	2.4	ICME
1997.02.21	2:00:00	0.5	8	0.61	18	9.7	6	431	10	3.3	18	-35	2.09	HSS
1997.02.25	23:00:00	0.7	28	0.85	22	11.5	16	469	37	4	27	-29	2.7	ICME(+HSS)
1997.02.27	16:00:00	1.6	25	0.8	5	14.1	7	611	11	7	132	-86	4.31	HSS(+ICME)
1997.03.02	13:00:00	0.4	9	0.73	16	7.3	3	464	4	3.3	18	-32	1.69	ICME
1997.03.11	22:00:00	0.7	4	1.1	43	12.5	8	502	17	3.3	18	-28	3.14	HSS
1997.03.25	16:00:00	0.7	5	0.62	28	8.7	1	582	29	3.7	22	-31	2.53	ICME
1997.04.16	13:20:00	1.2	15	0.78	-1	14.3	7	543	21	5.3	56	-77	3.88	ICME
1997.04.19	5:00:00	0.3	0	0.76	35	6.9	3	516	6	3.3	18	-36	1.78	ICME1
1997.04.21	6:00:00	0.8	16	0.73	19	13.9	25	421	16	5.3	56	-107	2.93	ICME2
1997.04.30	18:00:00	0.3	16	1.07	16	11.9	3	379	5	3.3	18	-28	2.26	ICME(+HSS)
1997.05.01	12:43:00	0.6	11	0.82	30	13.2	7	606	15	6.3	94	-64	4	HSS(+ICME)
1997.05.25	14:34:00	0.4	13	0.61	-1	8.8	8	321	2	1.3	5	-13	1.41	ICME1
1997.05.26	9:57:00	1.4	15	0.71	40	11	4	358	9	6	80	-73	1.97	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1997.06.08	16:36:00	0.9	12	1.36	27	14.1	20	400	22	5.7	67	-84	2.82	ICME
1997.06.19	0:32:00	0.9	19	1.28	38	8.7	7	392	2	3	15	-36	1.71	ICME
1997.06.22	3:13:00	0.8	20	0.98	12	11.5	8	425	43	3	15	-7	2.44	ICME(+HSS)
1997.06.23	23:00:00	0.6	38	1.12	38	7.1	0	438	5	2.7	12	-13	1.55	HSS(+ICME)
1997.07.01	3:00:00	0.4	22	0.63	42	7.5	40	371	4	2	7	-13	1.39	ICME(+HSS)
1997.07.03	4:00:00	0.6	16	0.73	30	8.6	8	393	31	2.7	12	-10	1.69	HSS(+ICME)
1997.07.09	13:00:00	0.5	12	0.86	46	13.1	7	444	15	3.7	22	-28	2.91	ICME(+HSS)
1997.07.11	13:00:00	0.4	6	1.03	41	5.8	14	389	8	1.7	6	-11	1.13	HSS(+ICME)
1997.07.15	3:11:00	1.2	16	0.89	21	12.8	16	375	9	3.7	22	-45	2.4	ICME
1997.08.03	10:42:00	0.7	7	1.16	10	16.6	13	485	6	5	48	-49	4.03	ICME(+HSS)
1997.08.05	4:00:00	0.4	13	0.94	11	8.5	4	377	-1	1.3	5	-15	1.6	HSS(+ICME)
1997.08.17	2:00:00	0.3	-2	0.81	33	8.2	14	410	7	3.7	22	-28	1.68	ICME1
1997.08.18	13:00:00	0.6	10	0.72	20	8.4	19	383	2	3	15	-18	1.61	ICME2
1997.08.20	19:00:00	0.4	9	0.53	1	6.8	9	402	28	3.3	18	-17	1.37	ICME1
1997.08.22	0:00:00	0.5	5	0.57	15	8	1	434	10	2.7	12	-21	1.74	ICME2
1997.08.27	16:00:00	1	16	1.24	15	13.1	16	452	31	4.3	32	-48	2.96	HSS
1997.09.10	21:00:00	0.6	24	0.91	35	8.4	-1	492	5	4.7	39	-49	2.07	HSS
1997.09.17	10:00:00	1.3	19	1.04	2	12.9	44	366	19	5	48	-56	2.36	ICME
1997.10.01	0:59:00	2.3	24	2.18	11	13.8	3	490	13	7	132	-98	3.38	ICME
1997.10.06	8:00:00	1.1	37	1.13	11	9.6	40	419	68	3.7	22	-26	2.01	ICME
1997.10.09	14:00:00	1.2	21	0.96	5	9.3	17	454	15	4.3	32	-56	2.11	ICME1
1997.10.10	16:12:00	2.1	10	1.08	0	13.8	4	448	2	6.3	94	-130	3.09	ICME2
1997.10.17	21:00:00	0.6	27	0.46	8	7.2	56	327	64	2.3	9	-23	1.18	ICME
1997.11.01	1:00:00	1	42	0.87	48	7.5	0	445	10	2	7	-17	1.67	HSS
1997.11.03	18:00:00	2.3	47	0.91	-1	9.5	29	368	46	3.3	18	-44	1.75	ICME
1997.11.06	22:48:00	2.9	20	2.06	15	17.8	23	468	5	7	132	-110	4.17	ICME
1997.11.09	10:04:00	0.6	4	0.91	1	10.4	16	392	14	4	27	-54	2.04	ICME1
1997.11.10	14:00:00	1	11	1.15	5	8.9	3	360	1	3.7	22	-39	1.6	ICME2
1997.11.13	18:00:00	1.2	27	0.82	46	10.8	24	389	52	4.3	32	-49	2.1	ICME
1997.11.30	8:09:00	0.9	44	0.83	35	9.7	2	446	6	2.7	12	-15	2.16	ICME
1997.12.02	22:00:00	0.5	0	0.8	1	7.8	3	381	15	2.3	9	-16	1.49	ICME(+HSS)
1997.12.04	17:00:00	0.9	35	0.97	22	7.7	3	402	55	3	15	-27	1.55	HSS(+ICME)
1997.12.10	5:26:00	2.6	29	2.02	16	16.1	16	384	20	4	27	-60	3.09	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1997.12.23	1:00:00	0.4	7	0.81	1	8.4	71	382	19	2.3	9	-13	1.6	ICME
1998.01.06	14:16:00	2	32	1.49	30	18.3	24	415	14	6.3	94	-83	3.8	ICME1
1998.01.08	8:31:00	1.1	-2	1.09	27	13.6	-1	502	25	3.3	18	-45	3.41	ICME2
1998.01.16	8:00:00	0.9	22	1.46	44	13.1	11	366	17	3.3	18	-42	2.4	ICME
1998.01.24	5:29:00	0.6	8	1.21	7	9.9	7	467	51	4	27	-35	2.31	ICME
1998.01.28	17:00:00	1.6	39	1.52	17	9.1	53	411	3	4.3	32	-72	1.87	ICME
1998.01.31	16:42:00	1	26	1.04	18	14.3	2	473	16	4.3	32	-46	3.38	ICME
1998.02.03	23:00:00	0.8	8	0.93	40	14.3	23	397	4	3.3	18	-50	2.84	ICME
1998.02.06	11:00:00	0.6	24	1.01	32	7.8	56	376	56	1	4	-14	1.47	ICME
1998.02.24	2:00:00	1.1	41	1.29	11	7.3	79	405	5	1.7	6	-31	1.48	ICME
1998.02.28	7:00:00	0.7	10	0.98	5	13.9	14	473	65	5	48	-44	3.29	ICME
1998.03.03	8:00:00	0.6	10	1.07	5	5	0	413	2	2	7	-36	1.03	ICME1
1998.03.04	11:56:00	1	15	1.12	24	12.7	27	389	4	4	27	-56	2.47	ICME2
1998.03.10	7:00:00	1.2	15	1.07	41	22.2	8	553	22	7.3	154	-126	6.14	HSS
1998.03.19	21:00:00	0.5	9	1.37	18	10.5	20	343	23	3	15	-32	1.8	ICME(+HSS)
1998.03.20	21:00:00	2.2	47	1.31	31	16	17	605	27	6.3	94	-109	4.84	HSS(+ICME)
1998.03.24	9:00:00	0.6	14	0.51	6	7.3	22	399	24	3	15	-53	1.46	ICME1
1998.03.25	10:00:00	1	14	0.99	11	12.1	19	476	27	4.7	39	-72	2.88	ICME2
1998.03.30	22:00:00	0.9	-3	0.64	12	8.8	47	430	3	3.7	22	-51	1.89	ICME
1998.04.02	21:00:00	1.4	25	1.47	36	9.2	4	400	9	3.3	18	-46	1.84	ICME1
1998.04.04	11:00:00	2.7	41	2.02	6	12.1	6	393	23	2	7	-27	2.38	ICME2
1998.04.07	17:49:00	2.8	32	1.53	18	15.3	11	381	72	3	15	-31	2.91	ICME
1998.04.20	10:00:00	1.2	29	1.55	29	9.5	6	404	7	3.7	22	-40	1.92	ICME
1998.04.23	18:25:00	0.7	28	1.19	14	15.3	4	461	17	5.7	67	-87	3.53	ICME(+HSS)
1998.04.25	7:00:00	1.2	36	0.98	18	9.2	31	499	43	5	48	-78	2.3	HSS(+ICME)
1998.04.30	9:28:00	0.9	30	1.3	18	11.3	6	472	35	4	27	-33	2.67	ICME1
1998.05.01	21:56:00	6	22	2.98	4	20.4	5	652	9	6.7	111	-100	6.65	ICME2
1998.05.07	17:49:00	0.3	-2	1.39	-1	11.1	1	518	9	4	27	-64	2.87	ICME1
1998.05.08	9:52:00	1	10	1.56	33	11.9	3	659	8	4.3	32	-67	3.92	ICME2
1998.06.02	8:00:00	0.8	-3	1.31	10	12	6	431	15	2.7	12	-19	2.59	ICME(+HSS)
1998.06.03	7:00:00	1.3	43	1.33	32	12.4	5	504	11	4	27	-39	3.12	HSS(+ICME)
1998.06.05	9:41:00	1.9	33	1.33	6	12.9	35	460	35	4	27	-45	2.97	ICME(+HSS)
1998.06.06	22:00:00	1.1	4	1.25	48	11.2	8	646	13	4.3	32	-59	3.62	HSS(+ICME)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1998.06.10	13:29:00	0.4	-3	1.11	10	7.9	0	500	13	4.7	39	-33	1.98	ICME1
1998.06.11	23:00:00	1.1	14	2.13	38	5.9	3	379	7	2.7	12	-31	1.12	ICME2
1998.06.17	23:00:00	0.5	8	0.8	5	6.2	3	363	6	1	4	-9	1.13	ICME(+HSS)
1998.06.18	21:00:00	1.2	26	1.77	27	14.6	26	517	16	4.7	39	-33	3.77	HSS(+ICME)
1998.08.26	6:51:00	6.9	9	4.85	2	17.4	18	858	16	8	207	-188	7.46	ICME
1998.09.03	16:00:00	0.5	4	1.39	12	6.7	55	419	9	3	15	-35	1.4	ICME
1998.09.23	2:00:00	1.4	42	1.81	42	13	42	515	29	6	80	-70	3.35	ICME1
1998.09.24	23:45:00	8.7	7	3.46	5	28.6	2	820	9	8.3	236	-233	11.73	ICME2
1998.09.30	14:00:00	0.8	8	1.73	36	11.4	17	581	31	5.3	56	-69	3.31	ICME1
1998.10.02	7:26:00	1.3	17	1.53	1	12.6	2	668	7	5.3	56	-70	4.21	ICME2
1998.10.06	16:30:00	0.7	23	0.68	4	13.5	25	456	22	5.7	67	-45	3.08	ICME(+HSS)
1998.10.07	19:00:00	0.9	3	1.11	17	14.1	-1	585	5	5.3	56	-81	4.12	HSS(+ICME)
1998.10.18	19:52:00	1.7	11	1.24	0	26.5	11	430	9	6.7	111	-139	5.7	ICME(+HSS)
1998.10.20	8:00:00	1.3	1	1.22	42	11.2	-1	668	49	5	48	-78	3.74	HSS(+ICME)
1998.11.04	22:00:00	1.4	47	1.1	0	9.1	32	441	22	4.3	32	-82	2.01	ICME
1998.11.07	8:15:00	1.2	17	1.66	19	16.4	19	535	5	7.7	179	-92	4.39	ICME1
1998.11.08	4:51:00	5.7	8	5.06	4	36.2	3	634	4	7.7	179	-148	11.48	ICME2
1998.11.10	21:00:00	0.6	-2	0.87	28	10.2	52	389	-1	6	80	-38	1.98	ICME
1998.11.13	1:43:00	3.1	12	1.88	2	21.6	34	434	40	6	80	-133	4.69	ICME
1998.11.25	22:00:00	2.5	47	1.47	1	10.9	2	504	16	3.7	22	-22	2.75	ICME
1998.11.30	5:07:00	0.6	23	1.48	42	15.6	6	491	24	4.3	32	-23	3.83	ICME1
1998.12.02	3:33:00	0.4	-1	0.71	0	7.8	12	503	42	3.3	18	-19	1.96	ICME2
1998.12.04	17:00:00	0.9	14	0.92	10	7.5	2	515	2	3.7	22	-30	1.93	ICME(+HSS)
1998.12.06	16:00:00	0.7	30	0.62	7	8.1	30	466	12	2.7	12	-23	1.89	HSS(+ICME)
1998.12.10	8:00:00	1.4	21	1.17	25	13.8	24	377	1	5.3	56	-80	2.6	ICME1
1998.12.11	20:00:00	2.3	30	1.35	17	14.3	2	409	4	3.3	18	-38	2.92	ICME2
1998.12.21	22:00:00	2.2	41	1.62	14	12.9	3	388	4	2.7	12	-29	2.5	ICME
1998.12.25	2:00:00	2	47	1.77	41	20.9	18	559	13	4	27	-61	5.84	ICME
1998.12.28	18:26:00	0.8	6	1.75	4	14.7	2	434	37	5	48	-53	3.19	ICME
1999.03.10	1:30:00	1	6	1.34	22	11.7	3	463	5	6.3	94	-78	2.71	ICME
1999.03.18	14:00:00	1.1	37	1.22	37	7.9	52	463	3	3	15	-27	1.83	ICME
1999.03.21	6:00:00	0.5	18	0.9	4	12.2	34	358	20	2.7	12	-3	2.18	ICME1
1999.03.23	2:00:00	1	38	1.31	8	12.2	5	443	20	2.3	9	2	2.7	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1999.03.25	8:00:00	0.6	3	1.14	3	12.6	13	460	31	3.3	18	-29	2.9	ICME
1999.04.08	7:00:00	0.7	32	1.64	37	8.1	9	381	9	4	27	-14	1.54	ICME(+HSS)
1999.04.10	5:00:00	1.3	34	1.87	3	10.9	3	564	17	3.7	22	-22	3.07	HSS(+ICME)
1999.04.19	10:00:00	0.5	8	0.93	9	9	-1	518	27	4.3	32	-48	2.33	ICME1
1999.04.20	16:00:00	1.8	43	1.67	43	12.2	2	622	5	4.3	32	-43	3.79	ICME2
1999.04.26	10:00:00	1	27	1.25	26	10	23	599	33	4.3	32	-37	3	ICME
1999.05.05	15:43:00	2.6	35	1.52	19	10.5	5	492	14	3	15	-16	2.58	ICME
1999.05.12	3:00:00	1	9	2	10	17.3	29	510	5	5	48	-57	4.41	ICME
1999.05.16	0:00:00	1.8	30	2.87	21	5.7	46	408	3	1.3	5	-9	1.16	ICME1
1999.05.18	0:56:00	1.2	7	1.53	27	23.2	5	664	21	5	48	-26	7.7	ICME2
1999.05.22	20:00:00	2	35	2.37	4	8.4	16	489	19	3.3	18	-2	2.05	ICME1
1999.05.24	11:00:00	1.1	7	0.81	4	13.4	13	580	25	4	27	-27	3.89	ICME2
1999.06.22	4:00:00	1.1	22	0.9	24	7.1	15	315	15	2	7	-4	1.12	ICME
1999.06.26	3:25:00	0.8	10	0.93	0	15.1	9	354	8	4.7	39	-20	2.67	ICME1
1999.06.26	20:16:00	3.4	30	2.73	3	23.4	3	673	32	6	80	-24	7.87	ICME2
1999.07.02	0:59:00	1.5	16	1.58	8	10.6	11	691	21	5	48	-34	3.66	ICME
1999.07.12	2:18:00	1.2	-3	2.64	47	11.3	2	318	3	3.3	18	-38	1.8	ICME
1999.07.14	12:00:00	2.1	-3	1.87	9	9.2	16	407	27	3	15	-16	1.87	ICME
1999.07.20	15:00:00	0.5	12	1.1	23	11.5	14	339	2	2.7	12	-6	1.95	ICME1
1999.07.21	16:00:00	2.3	27	1.56	15	17.7	17	525	39	4.7	39	-55	4.65	ICME2
1999.07.26	23:23:00	2	24	1.69	11	7.7	6	466	12	2.3	9	-11	1.79	ICME1
1999.07.28	16:00:00	0.7	13	0.91	3	7.1	1	415	1	3.3	18	-40	1.47	ICME2
1999.08.06	8:00:00	1.9	30	1.43	46	12.3	5	460	26	4	27	-29	2.83	ICME
1999.08.08	18:41:00	1.3	17	1.61	46	13.2	49	416	7	3.7	22	-62	2.75	ICME
1999.08.26	12:00:00	0.7	0	1.43	48	8.6	7	664	13	4	27	-47	2.86	HSS
1999.09.09	12:57:00	0.7	-1	0.93	19	10.3	21	546	43	4	27	-21	2.81	ICME
1999.09.15	20:19:00	1.2	6	1.42	0	8.5	2	596	2	6	80	-67	2.53	ICME2
1999.09.15	7:53:00	1.8	9	2.7	3	15.7	3	621	4	5.7	67	-53	4.87	ICME1
1999.09.20	13:00:00	0.6	17	0.78	44	12.8	40	401	19	3.7	22	-32	2.57	ICME1
1999.09.22	12:22:00	1.7	12	1.57	48	28.4	7	602	10	8	207	-164	8.55	ICME2
1999.09.25	3:00:00	0.8	23	1.5	10	8.5	34	447	3	2	7	-20	1.9	ICME(+HSS)
1999.09.26	14:00:00	2.5	46	1.26	22	16.5	3	638	20	5.7	67	-66	5.26	HSS(+ICME)
1999.10.16	19:00:00	1.1	11	1.04	14	6.7	39	626	1	4.7	39	-58	2.1	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
1999.11.11	3:00:00	1.8	47	1.17	28	8.1	4	678	21	4.7	39	-53	2.75	HSS
1999.11.13	13:00:00	1.2	19	1.53	12	14.7	9	483	4	6.3	94	-100	3.55	ICME
1999.11.20	1:00:00	1.5	3	1.25	39	14.9	50	493	52	4	27	-26	3.67	ICME
1999.11.24	11:00:00	0.8	-3	1.37	37	13	24	477	1	5	48	-52	3.1	ICME
2000.01.02	12:00:00	0.4	6	0.92	10	5.9	5	694	1	3.3	18	-23	2.05	HSS1
2000.01.04	9:00:00	1	10	0.88	16	7.4	3	635	1	4	27	-34	2.35	HSS2
2000.01.22	0:23:00	2.1	36	1.66	6	18.1	34	432	40	6.3	94	-97	3.91	ICME
2000.01.30	15:00:00	0.7	4	1.54	6	6.7	6	655	7	3.7	22	-29	2.19	ICME
2000.02.05	15:44:00	2.2	41	1.14	0	18.3	11	649	28	5.3	56	-44	5.94	HSS
2000.02.11	2:58:00	2.1	15	1.41	10	10.7	3	506	3	4.3	32	-27	2.71	ICME1
2000.02.11	23:52:00	4.2	11	1.32	1	20.6	13	589	10	6.7	111	-133	6.07	ICME2
2000.02.14	7:31:00	1.1	-3	1.28	22	10	10	681	4	5.3	56	-67	3.4	ICME1
2000.02.16	4:00:00	0.8	25	1.31	40	8.5	75	455	0	2.7	12	-30	1.93	ICME2
2000.02.20	21:39:00	1.9	23	2.45	-1	16.9	23	455	7	4.7	39	-26	3.84	ICME
2000.04.06	16:32:00	4.4	5	2.79	12	31.4	7	626	18	8.7	300	-288	9.83	ICME
2000.04.14	17:00:00	0.5	30	0.62	23	10.9	32	329	4	3.3	18	-32	1.79	ICME(+HSS)
2000.04.16	2:00:00	1.7	28	1.64	22	17.3	15	488	19	4.3	32	-79	4.22	HSS(+ICME)
2000.04.18	20:00:00	1.2	10	0.92	3	12.2	5	475	10	4	27	-14	2.9	ICME(+HSS)
2000.04.19	18:00:00	0.9	7	0.77	0	11.2	1	547	31	3.7	22	-25	3.06	HSS(+ICME)
2000.05.09	14:00:00	1.2	-3	2.01	39	7.6	3	351	3	2.7	12	-23	1.33	ICME
2000.06.08	9:10:00	8.5	9	3	3	24.9	5	775	10	7	132	-90	9.65	ICME
2000.06.11	8:01:00	0.5	0	1.49	18	15.1	9	579	17	5	48	-36	4.37	ICME1
2000.06.12	22:08:00	0.7	1	1.13	16	8.9	2	534	4	4	27	-37	2.38	ICME2
2000.07.10	6:38:00	3.1	21	2.62	6	19.1	3	487	7	4.7	39	-19	4.65	ICME1
2000.07.11	13:00:00	1.8	3	1.25	43	19.8	1	541	13	5.3	56	-26	5.36	ICME2
2000.07.22	6:00:00	1	14	2.05	17	8.8	12	440	-1	3.7	22	-63	1.94	ICME1
2000.07.23	10:41:00	1.2	7	1.84	44	12.7	8	432	1	6	80	-68	2.74	ICME2
2000.07.25	23:00:00	1.2	6	1.86	5	11.8	7	382	7	3.7	22	-44	2.25	ICME1
2000.07.26	18:57:00	0.5	8	1.14	3	9.5	3	400	4	4.7	39	-42	1.9	ICME2
2000.07.31	17:00:00	0.7	-3	1.39	14	12.4	8	482	33	5.3	56	-41	2.99	ICME
2000.08.03	8:00:00	1	34	0.61	18	7.2	15	465	21	3.7	22	-31	1.67	ICME(+HSS)
2000.08.04	23:00:00	3.5	28	1.25	7	12.2	10	581	13	5	48	-56	3.54	HSS(+ICME)
2000.08.08	4:00:00	0.5	1	1.49	47	7	42	444	-1	2.7	12	-21	1.55	ICME1

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2000.08.10	5:01:00	3.5	30	2.45	4	14.3	5	470	4	5.7	67	-106	3.36	ICME2
2000.08.14	21:00:00	1.5	5	1.76	17	13	3	577	3	4.3	32	-31	3.75	ICME
2000.09.01	20:00:00	1.6	43	1.11	3	10.6	28	522	6	4.3	32	-57	2.77	ICME
2000.09.04	13:33:00	0.8	10	1.46	37	10.8	46	482	6	5.7	67	-36	2.6	ICME
2000.09.28	11:00:00	0.9	16	1.04	3	10.5	43	484	-1	4	27	-42	2.54	ICME1
2000.09.30	7:00:00	1.1	15	1.16	7	14.1	5	458	26	6.3	94	-76	3.23	ICME2
2000.10.12	22:28:00	3.9	28	1.53	13	20.5	3	470	9	6.7	111	-107	4.82	ICME(+HSS)
2000.10.14	18:00:00	1.3	-2	1.49	28	13.6	-1	585	34	5.3	56	-91	3.98	HSS(+ICME)
2000.10.22	7:00:00	0.7	20	0.91	9	13.1	4	565	28	4.7	39	-53	3.7	HSS
2000.11.04	21:00:00	1	1	1.31	4	14.2	7	594	11	4	27	-46	4.22	ICME2
2000.11.04	2:21:00	1.4	6	1.1	17	22.6	2	485	18	5	48	-50	5.48	ICME1
2000.12.03	4:09:00	0.7	5	1.78	17	12.3	6	484	10	3.3	18	-34	2.98	ICME
2000.12.05	21:00:00	0.6	1	0.83	32	9.9	27	395	33	3.7	22	-18	1.96	ICME(+HSS)
2000.12.06	18:00:00	0.7	-2	0.87	45	13.8	37	656	79	4	27	-21	4.53	HSS(+ICME)
2000.12.21	12:00:00	0.8	16	1.3	7	6.7	9	333	7	1.7	6	-1	1.12	ICME1
2000.12.22	19:25:00	1.1	10	0.92	26	14.4	5	328	8	5.7	67	-62	2.36	ICME2
2001.01.13	2:00:00	2	18	2.11	1	12.5	2	423	3	2.7	12	-17	2.64	ICME
2001.01.17	16:31:00	0.8	25	1.04	9	8.6	4	418	2	2.3	9	-3	1.8	ICME
2001.01.20	6:00:00	0.6	-3	0.87	14	13.1	35	324	35	4	27	-38	2.12	ICME(+HSS)
2001.01.21	18:00:00	1.1	21	1.13	36	15.9	9	486	23	4	27	-40	3.86	HSS(+ICME)
2001.01.28	2:00:00	0.2	-3	1.45	17	8.7	16	319	-1	3	15	-20	1.39	ICME(+HSS)
2001.01.28	21:00:00	1.2	20	1.55	21	15	3	467	23	5	48	-29	3.5	HSS(+ICME)
2001.01.31	8:05:00	1.9	7	1.38	3	13.6	2	459	2	4	27	-45	3.12	ICME
2001.02.19	7:00:00	1.4	47	0.79	4	11.8	32	369	79	2.7	12	-17	2.18	ICME
2001.02.26	7:00:00	0.6	41	0.89	37	11.5	14	397	23	4	27	-37	2.28	ICME(+HSS)
2001.02.28	4:00:00	0.5	43	1.14	36	10.1	5	535	12	3.3	18	-17	2.7	HSS(+ICME)
2001.03.03	11:21:00	2.8	39	2.03	10	13	38	512	4	5	48	-73	3.33	ICME(+HSS)
2001.03.05	7:00:00	0.9	-1	1.34	8	14.1	9	579	18	4.3	32	-53	4.08	HSS(+ICME)
2001.03.19	11:14:00	3.2	12	1.63	11	21.5	28	490	7	7.3	154	-149	5.27	ICME
2001.03.22	13:42:00	1	11	1.7	9	19.9	3	443	43	5	48	-75	4.41	ICME
2001.03.27	1:10:00	3.1	14	2.67	15	16.9	5	429	16	4	27	-11	3.63	ICME1
2001.03.27	17:47:00	2.9	5	2.91	0	25.1	3	645	17	6.3	94	-87	8.09	ICME2
2001.04.04	14:55:00	6.2	8	2.82	31	16.8	4	768	6	5.3	56	-50	6.45	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2001.04.07	17:00:00	1.8	14	1.3	14	14.8	2	533	2	5.7	67	-36	3.94	ICME1
2001.04.08	11:01:00	7.2	7	2.73	6	18.5	5	782	6	7	132	-63	7.23	ICME2
2001.04.18	0:46:00	2.5	18	2.66	31	23.8	4	519	6	7.3	154	-114	6.18	ICME1
2001.04.19	14:00:00	1.4	9	2.37	5	7.5	-1	440	-1	2.7	12	-34	1.65	ICME2
2001.04.28	5:00:00	8.2	20	2.59	7	19.9	10	724	2	6	80	-47	7.2	ICME
2001.05.03	10:00:00	1.3	12	1.94	4	9.6	15	394	40	3	15	-3	1.89	ICME
2001.05.06	1:00:00	0.4	0	0.93	10	7.8	11	366	21	2	7	3	1.43	ICME1
2001.05.06	23:00:00	0.6	26	1.17	25	9.9	2	406	12	4	27	-36	2.01	ICME2
2001.05.11	23:00:00	1.7	19	1.48	19	17.5	13	674	18	5.3	56	-48	5.9	ICME1
2001.05.13	14:00:00	0.8	47	1.58	13	11.1	3	616	14	5.3	56	-48	3.42	ICME2
2001.05.21	10:00:00	1	15	0.76	12	7	14	342	1	2	7	2	1.2	ICME(+HSS)
2001.05.22	18:00:00	2.6	42	1.37	37	16.5	12	586	67	3.3	18	-1	4.83	HSS(+ICME)
2001.05.27	14:59:00	3.7	18	3.18	7	13.9	3	587	3	4.3	32	-42	4.08	ICME
2001.06.14	21:00:00	0.4	-3	0.86	6	8.2	9	366	8	3.7	22	-7	1.5	ICME
2001.07.08	4:00:00	0.9	14	1.45	24	9.3	16	465	11	5	48	-32	2.16	ICME
2001.07.10	15:00:00	1.1	12	1.46	42	9.7	38	387	-1	3.3	18	-38	1.88	ICME
2001.07.24	2:00:00	1.3	26	1.84	3	10.2	18	582	35	4.3	32	-27	2.97	HSS
2001.08.12	11:35:00	0.9	16	1.05	9	14.3	10	429	12	5.3	56	-32	3.07	ICME(+HSS)
2001.08.13	7:00:00	1.1	20	2.31	9	12.9	10	487	39	3.3	18	-25	3.14	HSS(+ICME)
2001.08.17	11:03:00	6.3	15	4.41	5	32.1	6	599	15	7	132	-105	9.61	ICME
2001.08.24	4:00:00	0.3	0	1.23	1	4.5	31	448	2	2.3	9	-3	1.01	ICME1
2001.08.25	12:00:00	2.2	29	1.09	42	11.7	10	450	22	3.3	18	-25	2.63	ICME2
2001.08.27	19:52:00	6.2	23	4.29	19	19.5	3	576	10	4.7	39	-23	5.62	ICME
2001.08.30	14:11:00	0.8	5	0.92	2	8.2	2	497	2	4	27	-40	2.04	ICME1
2001.09.01	2:00:00	0.4	-1	1.03	10	7.4	43	461	2	2.3	9	-19	1.71	ICME2
2001.09.02	22:00:00	0.6	3	1.22	40	10.4	21	552	30	4.3	32	-32	2.87	HSS
2001.09.18	3:00:00	1	28	1.58	34	11.6	17	456	3	4.3	32	-25	2.64	ICME
2001.09.23	6:00:00	2	22	1.29	6	15.2	5	568	8	6	80	-73	4.32	ICME
2001.09.25	20:25:00	8.9	10	1.84	15	24.7	3	680	2	7.3	154	-102	8.4	ICME(+HSS)
2001.09.27	13:00:00	0.9	-1	1.55	43	6.6	3	580	17	4	27	-51	1.91	HSS(+ICME)
2001.10.11	17:01:00	6.9	9	3.81	4	26.5	5	572	12	6	80	-71	7.58	ICME
2001.10.19	19:00:00	0.7	11	1.39	44	10	2	400	17	6	80	-57	2	ICME1
2001.10.21	16:48:00	7.3	11	1.38	0	28.4	7	677	10	7.7	179	-187	9.61	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2001.10.31	13:48:00	1.7	-3	2.36	33	13.9	10	388	10	5	48	-106	2.7	ICME
2001.11.19	18:15:00	2.3	32	1.91	3	12.6	2	568	3	4.3	32	-47	3.58	ICME1
2001.11.21	19:00:00	1.3	22	0.7	3	8.6	11	469	31	3	15	-42	2.02	ICME2
2001.11.24	5:56:00	9.8	18	3.19	26	50.1	5	1024	10	8.3	236	-221	25.65	ICME
2001.11.27	5:00:00	1.1	-3	1.88	0	6.2	31	482	4	1.3	5	-48	1.49	ICME
2001.12.11	6:00:00	0.5	-3	1.57	23	11.5	27	375	28	3.3	18	-38	2.16	ICME1
2001.12.13	2:00:00	0.6	9	1.23	39	11.1	34	333	-1	2	7	-39	1.85	ICME2
2001.12.21	13:00:00	1.6	19	1.37	30	12	4	444	7	4	27	-67	2.66	ICME
2002.01.07	13:00:00	0.8	-1	0.92	19	12.9	24	438	26	3.7	22	-25	2.83	ICME
2002.01.31	21:27:00	1	4	1.27	6	14.7	3	375	3	4.3	32	-54	2.76	ICME(+HSS)
2002.02.02	7:00:00	0.5	2	1.13	10	13.5	0	422	9	4.7	39	-86	2.85	HSS(+ICME)
2002.02.15	5:00:00	0.6	11	0.87	41	8.9	29	400	1	2.7	12	-20	1.78	ICME1
2002.02.17	2:55:00	1.4	36	1.61	17	11.9	5	435	12	4	27	-21	2.59	ICME2
2002.02.25	18:00:00	0.8	12	0.8	12	7.5	19	368	0	2.7	12	-31	1.38	ICME
2002.02.28	4:51:00	1	8	1.09	10	16.3	20	413	13	6	80	-71	3.37	ICME
2002.03.02	11:00:00	0.3	19	0.87	31	11.3	3	426	10	3	15	-39	2.41	ICME(+HSS)
2002.03.04	0:00:00	1	27	1.12	22	19.2	17	703	36	4.3	32	-46	6.75	HSS(+ICME)
2002.03.10	4:00:00	0.5	24	0.61	6	7.8	23	435	2	4	27	-29	1.7	ICME(+HSS)
2002.03.11	15:00:00	1.4	18	0.86	3	12.1	9	484	21	3	15	-11	2.93	HSS(+ICME)
2002.03.18	13:22:00	4.9	34	1.31	46	22.5	18	470	3	5.3	56	-37	5.29	ICME1
2002.03.20	13:28:00	4.1	3	2.55	2	20.1	2	576	3	4.3	32	-18	5.79	ICME2
2002.03.29	22:37:00	1.1	46	1.24	2	20.7	3	766	56	4.3	32	-38	7.93	HSS
2002.04.05	6:00:00	0.9	9	1.1	2	8.5	11	419	0	1.7	6	-7	1.78	ICME1
2002.04.07	2:00:00	0.7	5	1.79	46	8.7	5	444	17	3	15	-12	1.93	ICME2
2002.04.14	12:34:00	1.2	15	1.28	11	10.9	13	418	3	4.3	32	-23	2.28	ICME
2002.05.05	11:00:00	0.5	18	1.61	21	6.8	25	347	4	1.3	5	10	1.18	ICME(+HSS)
2002.05.06	13:00:00	1.3	44	2	1	10	35	404	27	3	15	-31	2.02	HSS(+ICME)
2002.05.13	15:00:00	1.9	35	0.95	43	10.3	27	472	-1	5	48	-65	2.43	ICME
2002.05.18	20:08:00	3.3	10	2.17	4	19.5	9	487	3	5.3	56	-58	4.75	ICME1
2002.05.20	3:40:00	1.5	16	1.49	29	13.8	2	499	3	3.3	18	-36	3.44	ICME2
2002.05.27	2:00:00	1.3	18	0.95	29	13.6	6	769	24	4.7	39	-64	5.23	HSS
2002.05.30	2:04:00	0.8	-3	1.32	18	8.4	2	515	4	2	7	-13	2.16	ICME
2002.06.08	11:40:00	0.4	-1	1.09	3	13	3	440	24	4	27	-21	2.86	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2002.06.09	19:00:00	2.3	39	1.02	27	10	10	498	12	3.7	22	-38	2.49	HSS(+ICME)
2002.06.22	8:00:00	0.6	8	0.87	25	9.2	34	450	8	3	15	-23	2.07	ICME(+HSS)
2002.06.23	19:00:00	0.4	12	1	36	9.3	0	521	13	2	7	-18	2.42	HSS(+ICME)
2002.06.29	22:00:00	0.4	17	1.59	7	8.7	23	395	7	3.3	18	-7	1.72	ICME(+HSS)
2002.06.30	23:00:00	1	41	0.87	47	11.1	9	474	14	3.7	22	-24	2.63	HSS(+ICME)
2002.07.08	21:00:00	0.8	1	1.98	32	9.3	8	509	39	4	27	-20	2.37	HSS
2002.07.22	6:00:00	0.8	24	1.61	43	9.5	1	533	12	4.7	39	-38	2.53	ICME
2002.07.25	13:00:00	2.3	43	1.82	9	13.4	2	520	4	4	27	-31	3.48	ICME
2002.08.06	6:00:00	0.9	17	1.8	19	6.1	39	427	0	2	7	-12	1.3	ICME
2002.08.18	18:46:00	5.1	30	2.5	10	14.3	13	573	2	5.7	67	-71	4.1	ICME
2002.08.21	23:00:00	1.4	28	2.22	-1	12.7	17	463	11	3	15	-51	2.94	ICME
2002.09.07	16:36:00	5.1	12	1.64	-1	22.9	2	550	3	7.3	154	-181	6.3	ICME1
2002.09.08	13:00:00	0.7	-2	1.22	38	12.3	4	522	9	4	27	-84	3.21	ICME2
2002.09.15	20:00:00	2.4	47	2.69	13	13.5	19	479	40	3	15	-45	3.23	ICME
2002.09.21	11:00:00	1.2	11	1.49	11	12.2	3	428	1	2.7	12	-35	2.61	ICME1
2002.09.23	3:00:00	2.1	17	1.93	24	9.9	22	426	5	1.3	5	-18	2.11	ICME2
2002.10.29	20:00:00	1.2	34	0.72	35	11.9	8	513	11	5	48	-52	3.05	ICME
2002.11.09	17:51:00	4	39	1.3	39	16.9	37	472	42	5	48	-32	3.99	ICME(+HSS)
2002.11.11	12:31:00	2.8	27	2.97	28	16.1	2	658	4	4	27	-43	5.3	HSS(+ICME)
2002.11.16	23:00:00	7.8	42	2.66	14	14.2	59	494	7	3.7	22	-52	3.51	ICME
2002.11.26	21:50:00	2.8	24	2.65	7	26.4	3	593	6	5	48	-64	7.83	ICME
2002.12.06	2:00:00	1.1	18	1.65	5	12.3	27	462	26	3.7	22	-22	2.84	ICME(+HSS)
2002.12.07	6:00:00	2.3	29	1.23	18	14.9	4	643	37	4	27	-38	4.79	HSS(+ICME)
2002.12.17	18:00:00	1.7	8	1.95	4	16.6	31	436	-1	2.7	12	-16	3.62	ICME(+HSS)
2002.12.19	2:00:00	2.2	27	1.58	22	21.6	5	544	26	4.7	39	-72	5.88	HSS(+ICME)
2002.12.26	8:00:00	1.1	-2	1.15	0	16	15	771	46	6	80	-68	6.17	HSS
2003.01.17	8:00:00	0.7	16	0.95	22	14.6	35	403	25	3.7	22	-19	2.94	ICME(+HSS)
2003.01.18	20:00:00	1.3	47	1.05	36	17	3	735	65	4.7	39	-37	6.25	HSS(+ICME)
2003.01.24	13:00:00	0.8	9	0.71	1	8.9	1	776	17	5.7	67	-46	3.45	HSS
2003.02.01	14:00:00	4.2	20	2.39	13	13	2	793	3	5.7	67	-72	5.15	ICME
2003.02.17	21:50:00	2	12	1.3	2	15.6	4	697	9	5.3	56	-20	5.44	ICME
2003.02.26	5:00:00	0.3	1	1.23	10	9.4	2	490	6	3.7	22	-21	2.3	ICME(+HSS)
2003.02.26	20:00:00	0.8	11	1.1	14	16.5	4	594	19	5	48	-66	4.9	HSS(+ICME)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2003.03.02	23:00:00	1.6	31	1.48	16	15.4	25	584	36	5.3	56	-67	4.5	HSS1
2003.03.05	14:00:00	0.9	36	0.77	34	8.6	0	541	18	4.7	39	-50	2.33	HSS2
2003.03.20	4:40:00	3.3	11	2.82	8	13.2	2	822	5	5	48	-64	5.43	ICME
2003.04.03	22:00:00	0.9	36	0.87	38	8.7	4	504	14	5	48	-62	2.19	HSS1
2003.04.05	16:00:00	0.5	6	0.93	18	8.7	3	553	9	5.3	56	-48	2.41	HSS2
2003.04.24	7:00:00	1.1	19	0.94	18	10.2	10	593	19	5.3	56	-53	3.02	HSS1
2003.04.27	8:00:00	0.7	19	1.04	32	8.1	35	546	15	4.3	32	-49	2.21	HSS2
2003.05.04	13:00:00	0.5	11	0.93	-1	12.4	15	423	12	2.3	9	-8	2.62	ICME(+HSS)
2003.05.05	5:04:00	1.7	28	1.17	24	15.6	8	773	81	5.3	56	-32	6.03	HSS(+ICME)
2003.05.09	4:55:00	2.5	5	2.25	8	12.3	6	899	6	6.7	111	-84	5.53	ICME
2003.05.21	2:00:00	0.5	8	1.11	9	10.7	5	457	13	3.3	18	-11	2.44	ICME(+HSS)
2003.05.21	16:00:00	1.4	12	1.04	8	13.3	4	568	5	6	80	-73	3.78	HSS(+ICME)
2003.05.24	8:00:00	1.6	32	0.84	45	10.4	10	590	18	4.3	32	-40	3.07	ICME
2003.06.20	9:00:00	1.2	21	1.03	6	9	3	566	6	4.7	39	-50	2.55	ICME(+HSS)
2003.06.22	8:00:00	1.3	12	1.1	5	8.8	36	577	15	4	27	-36	2.54	HSS(+ICME)
2003.07.06	13:00:00	1.5	10	1.62	4	8.9	1	691	15	3.7	22	-26	3.07	ICME
2003.07.19	8:00:00	1	37	1.2	22	9.6	11	696	22	5.7	67	-43	3.34	ICME1
2003.07.21	7:00:00	0.6	7	1.08	3	7.6	15	532	-1	2.3	9	-25	2.02	ICME2
2003.07.23	14:00:00	0.8	8	0.83	46	10.6	47	515	4	3.7	22	-26	2.73	ICME
2003.08.04	6:00:00	0.8	45	1.29	2	13.6	43	592	2	5.7	67	-60	4.03	ICME
2003.08.07	14:00:00	0.5	9	0.77	11	12.5	5	643	7	6.7	111	-61	4.02	ICME(+HSS)
2003.08.08	4:00:00	0.7	41	0.96	41	13.6	1	779	4	5.3	56	-41	5.3	HSS(+ICME)
2003.08.10	11:00:00	0.4	8	1	11	6.7	21	637	3	2.3	9	-24	2.13	ICME(+HSS)
2003.08.11	10:00:00	0.7	28	0.97	34	9.3	14	685	26	4.7	39	-27	3.19	HSS(+ICME)
2003.08.17	14:21:00	3.4	15	3.24	1	22.3	3	530	5	7.3	154	-148	5.91	ICME
2003.08.29	14:00:00	1.1	12	0.88	0	12.4	2	611	9	5	48	-30	3.79	HSS
2003.09.03	23:00:00	0.8	28	1.1	35	10.6	8	673	17	4.3	32	-35	3.57	HSS
2003.09.08	11:00:00	0.9	16	1.23	6	12.3	12	509	19	3	15	-2	3.13	ICME(+HSS)
2003.09.09	10:00:00	1.4	12	1.58	6	15.2	9	674	24	5	48	-42	5.12	HSS(+ICME)
2003.09.21	22:00:00	0.7	3	1.15	2	7.2	46	609	12	4	27	-37	2.19	HSS1
2003.09.23	21:00:00	0.9	28	0.79	3	9.8	4	720	34	5.7	67	-59	3.53	HSS2
2003.09.30	0:00:00	1.2	19	1.05	3	9	16	323	7	3	15	-17	1.45	ICME(+HSS)
2003.10.01	20:00:00	1.1	30	2.07	10	18.3	10	495	42	4.7	39	-38	4.53	HSS(+ICME)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2003.10.05	7:00:00	1.4	19	1.16	23	12.5	17	456	17	3.3	18	-1	2.85	ICME(+HSS)
2003.10.06	11:00:00	1.1	15	0.9	1	12.6	9	621	12	4.3	32	-20	3.91	HSS(+ICME)
2003.10.08	9:00:00	0.8	31	0.92	6	7.6	1	621	6	4	27	-12	2.36	HSS
2003.10.14	16:00:00	1.4	13	1.17	36	19.7	4	724	15	7.3	154	-85	7.13	HSS
2003.10.24	15:24:00	5.6	8	2.97	9	34	10	609	23	6.7	111	-49	10.35	ICME
2003.11.04	6:25:00	4.3	4	2.66	33	19.7	3	754	8	7	132	-69	7.43	ICME
2003.11.06	19:37:00	2.3	11	2.14	2	11.2	2	572	4	5.7	67	-21	3.2	ICME(+HSS)
2003.11.08	10:00:00	1.7	3	2.08	9	14.9	8	582	33	5.7	67	-33	4.34	HSS(+ICME)
2003.11.10	9:00:00	1.4	46	1.42	10	15.7	11	770	36	6	80	-62	6.04	HSS
2003.11.20	8:03:00	6.8	17	2.65	17	55.8	8	703	4	8.7	300	-422	19.61	ICME
2003.12.08	6:00:00	0.9	8	1.37	29	14.4	7	821	67	5.3	56	-54	5.91	HSS
2003.12.20	3:00:00	0.9	14	1.63	10	20.6	10	551	29	4.7	39	-22	5.68	ICME(+HSS)
2003.12.21	15:00:00	1.1	25	1	21	8.9	-1	628	31	4	27	-25	2.79	HSS(+ICME)
2003.12.27	10:00:00	1.2	41	1.11	6	12.2	1	549	33	4.3	32	-33	3.35	HSS
2004.01.06	19:51:00	5.7	47	2.09	6	16.6	5	739	12	6	80	-69	6.13	ICME
2004.01.09	6:00:00	0.7	18	1.3	20	13.7	26	618	14	5.3	56	-50	4.23	ICME1
2004.01.10	9:00:00	2.1	7	1.16	13	15	1	678	25	5.3	56	-60	5.08	ICME2
2004.01.13	9:00:00	0.9	-3	1.35	13	8.6	24	597	9	4.3	32	-30	2.57	ICME(+HSS)
2004.01.14	22:00:00	1.2	-2	1.39	23	12.4	17	642	53	4.7	39	-57	3.98	HSS(+ICME)
2004.01.22	1:37:00	9.4	11	4.32	6	25.4	9	666	2	7	132	-149	8.46	ICME1
2004.01.23	14:25:00	2.2	42	0.79	30	12.7	4	556	4	6	80	-89	3.53	ICME2
2004.02.05	20:00:00	0.9	6	0.81	31	8.2	4	619	14	4.7	39	-34	2.54	HSS
2004.02.14	21:00:00	0.5	4	0.99	5	8	79	735	9	4.7	39	-53	2.94	HSS
2004.02.26	21:00:00	1.3	31	1.31	7	16.5	24	717	68	4	27	-28	5.92	HSS
2004.03.07	23:00:00	0.4	2	0.53	2	11	36	410	36	3	15	-6	2.26	ICME(+HSS)
2004.03.09	12:00:00	2.4	27	1.06	8	16.4	8	770	39	6.3	94	-77	6.31	HSS(+ICME)
2004.03.19	13:00:00	0.4	15	0.74	17	8.6	8	439	67	4	27	-28	1.89	HSS
2004.04.09	2:33:00	0.9	18	1.17	17	9.4	2	533	4	4.7	39	-35	2.51	ICME1
2004.04.10	20:10:00	1.3	14	1.7	2	11.6	2	496	2	3.7	22	-29	2.88	ICME2
2004.04.30	17:00:00	0.9	16	1	48	9.4	28	457	5	4.7	39	-36	2.15	ICME
2004.05.14	17:00:00	1	9	1.2	28	9.3	7	356	1	3.3	18	-23	1.66	ICME
2004.05.21	20:00:00	0.6	27	1.17	20	7.6	1	511	12	3.3	18	-11	1.94	HSS
2004.05.28	3:00:00	0.7	21	1.22	18	8.4	16	413	17	3	15	-33	1.73	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2004.05.29	3:00:00	0.7	36	1.18	25	10.3	41	544	62	4.3	32	-30	2.8	HSS(+ICME)
2004.05.31	22:00:00	0.4	-1	1.03	7	7	0	577	24	3.7	22	-16	2.02	HSS1
2004.06.05	10:00:00	0.4	14	1.22	16	6.8	6	507	20	3.7	22	-19	1.72	HSS2
2004.06.13	12:00:00	0.8	6	1.13	11	12.8	25	404	25	3.3	18	-28	2.59	ICME(+HSS)
2004.06.14	15:00:00	0.7	28	1.15	16	13	17	585	41	4.3	32	-30	3.8	HSS(+ICME)
2004.06.17	0:00:00	0.3	4	0.87	1	6.3	2	539	9	2.3	9	-10	1.7	HSS
2004.06.28	10:00:00	1.2	43	1.4	20	16.7	18	593	24	4	27	-16	4.95	HSS
2004.07.19	15:00:00	0.9	21	0.85	31	8.5	4	563	28	3	15	-20	2.39	ICME
2004.07.22	10:36:00	5.2	22	2.08	16	18.7	11	700	12	7	132	-101	6.54	ICME1
2004.07.24	6:13:00	4.6	9	2.84	5	24.1	34	619	29	8	207	-148	7.46	ICME2
2004.07.30	21:14:00	0.6	-3	1.35	26	7.6	2	496	2	3.7	22	-46	1.88	ICME1
2004.08.01	2:00:00	2	19	2.42	36	8.1	2	516	3	3.7	22	-42	2.09	ICME2
2004.08.05	16:00:00	0.4	-2	0.85	25	8.1	4	358	11	2.7	12	-26	1.45	ICME(+HSS)
2004.08.06	20:00:00	0.7	-1	1.33	14	13	17	479	33	4	27	-39	3.11	HSS(+ICME)
2004.08.09	3:00:00	0.4	-2	1.06	9	9.9	18	387	-1	4	27	-41	1.92	ICME(+HSS)
2004.08.09	22:00:00	0.8	16	1.17	11	12.7	15	608	27	4.3	32	-55	3.86	HSS(+ICME)
2004.08.13	23:00:00	1.2	30	1.47	30	6.4	1	445	12	2.7	12	-19	1.42	ICME
2004.08.16	17:00:00	1.6	33	1.57	2	11.6	28	360	54	3.7	22	-26	2.09	ICME
2004.08.26	10:00:00	0.6	6	1.12	32	8.9	21	451	11	2.7	12	-19	2.01	HSS
2004.09.05	9:00:00	0.9	-3	1.05	14	12	11	452	45	3.7	22	-38	2.71	HSS
2004.09.13	20:03:00	5.3	30	2.6	0	25.5	2	613	15	5.3	56	-50	7.82	ICME
2004.09.16	18:00:00	1.1	17	1.21	15	7.9	25	550	6	5	48	-43	2.17	ICME1
2004.09.18	11:00:00	0.9	4	1.23	5	7.8	4	452	0	3	15	-33	1.76	ICME2
2004.09.27	8:00:00	0.5	-2	0.73	42	8.8	28	413	47	2.7	12	-22	1.82	HSS
2004.10.08	7:00:00	0.4	11	1.38	46	9.6	9	370	18	3.3	18	-21	1.78	HSS
2004.10.12	22:00:00	0.9	9	0.86	27	11.6	16	542	43	5	48	-63	3.14	HSS
2004.10.19	14:00:00	0.8	29	0.9	19	11.2	22	448	29	3.7	22	-48	2.51	HSS1
2004.10.23	11:00:00	1.4	44	0.68	44	10.6	42	503	36	3.7	22	-18	2.67	HSS2
2004.10.26	7:00:00	0.5	1	0.5	5	4.5	23	450	-1	0.7	3	-9	1.01	ICME1
2004.10.27	12:12:00	0.3	0	0.98	16	6.7	4	413	2	1.7	6	-1	1.38	ICME2
2004.11.02	16:00:00	0.9	15	0.99	4	8.5	8	378	6	1.7	6	-13	1.61	ICME(+HSS)
2004.11.03	10:00:00	0.9	15	1.39	40	9.3	15	455	20	4.3	32	-23	2.12	HSS(+ICME)
2004.11.23	12:00:00	0.3	9	1.06	30	9.3	33	439	1	3	15	-36	2.04	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2004.11.24	22:00:00	0.6	9	0.73	28	9.6	2	542	23	4.3	32	-63	2.6	HSS(+ICME)
2004.11.28	19:00:00	1.3	38	1.03	2	15.5	7	700	45	4	27	-43	5.42	HSS
2004.12.05	7:46:00	4.9	23	1.68	1	34.6	3	453	37	4.3	32	-58	7.84	ICME(+HSS)
2004.12.07	0:00:00	1.1	2	1.31	0	10.7	-1	535	15	3.7	22	-51	2.86	HSS(+ICME)
2004.12.24	22:00:00	1	25	0.81	36	13.3	18	530	34	4	27	-25	3.52	HSS
2004.12.27	6:00:00	2.5	18	1.43	11	10	4	554	2	2.7	12	-38	2.77	ICME1
2004.12.28	16:00:00	2.2	13	1.84	5	9.6	23	446	16	4.7	39	-55	2.14	ICME2
2005.01.01	12:00:00	1.6	21	0.89	5	17.2	10	776	22	5.7	67	-57	6.67	ICME(+HSS)
2005.01.02	19:00:00	4.3	26	1.86	10	13.5	3	763	44	5.3	56	-55	5.15	HSS(+ICME)
2005.01.07	9:22:00	1.3	14	1.32	22	22.4	19	585	3	7.7	179	-96	6.55	ICME1
2005.01.09	10:41:00	1	-3	0.84	24	15.6	62	469	10	3.7	22	-38	3.66	ICME2
2005.01.14	21:00:00	0.4	-1	1.07	25	8.6	5	664	9	5	48	-41	2.86	HSS
2005.01.27	18:00:00	0.5	21	1.04	3	10.8	7	394	18	2.7	12	-16	2.13	ICME(+HSS)
2005.01.29	1:00:00	1.1	1	1.12	20	16.5	12	614	39	4.3	32	-28	5.07	HSS(+ICME)
2005.02.06	22:00:00	1.3	21	0.74	11	16.6	13	746	80	5.7	67	-62	6.19	HSS
2005.02.27	19:00:00	0.5	3	1.02	16	8.4	3	672	44	3.7	22	-23	2.82	HSS
2005.03.05	22:00:00	1.5	23	1.12	45	16.2	7	767	60	5.7	67	-65	6.21	HSS1
2005.03.09	16:00:00	0.7	-2	1.38	43	6.8	0	729	3	5	48	-44	2.48	HSS2
2005.03.18	10:00:00	1.2	25	1.33	20	9.9	10	464	17	4.7	39	-45	2.3	ICME
2005.03.21	6:00:00	0.6	13	1.38	15	8.5	6	606	5	3.3	18	-35	2.58	ICME1
2005.03.22	7:00:00	0.5	1	1.47	37	7.3	38	441	3	2	7	-12	1.61	ICME2
2005.04.09	13:00:00	0.5	21	1.08	21	6.6	47	350	43	1.7	6	-15	1.15	ICME(+HSS)
2005.04.11	13:00:00	1.2	38	0.72	11	16.6	8	637	43	5	48	-70	5.29	HSS(+ICME)
2005.04.19	10:00:00	1	21	0.99	43	13.1	18	574	30	4.7	39	-40	3.76	HSS
2005.04.21	15:00:00	0.9	24	1.09	3	9.3	5	505	0	3	15	-22	2.35	ICME(+HSS)
2005.04.22	22:00:00	0.9	29	1.01	48	8.9	2	581	21	3	15	-24	2.59	HSS(+ICME)
2005.05.15	2:38:00	12.2	4	2.53	8	54.8	7	987	8	8.3	236	-263	27.04	ICME1
2005.05.17	0:00:00	1.2	-2	1.55	0	8.4	37	619	1	4.3	32	-97	2.6	ICME2
2005.05.20	4:01:00	1	8	0.88	4	15	17	483	11	5	48	-103	3.62	ICME
2005.06.02	13:00:00	0.4	5	0.97	18	7.4	10	469	19	2.7	12	-30	1.74	HSS1
2005.06.04	13:00:00	0.5	-1	1.39	10	14.9	10	665	28	5.7	67	-46	4.95	HSS2
2005.06.11	18:00:00	0.3	8	1.23	10	9.8	5	324	13	3.7	22	-9	1.59	ICME1
2005.06.12	7:45:00	3.1	15	1.25	1	25	6	518	10	7.3	154	-106	6.48	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2005.06.14	18:35:00	1.5	22	0.83	-1	11.1	8	554	4	4.7	39	-54	3.07	ICME1
2005.06.16	8:47:00	2.1	19	1.59	46	18.6	2	692	13	5	48	-48	6.44	ICME2
2005.06.30	20:00:00	1	18	0.94	26	15.2	21	641	28	4.3	32	-18	4.87	HSS
2005.07.07	12:00:00	0.6	15	0.55	0	7.2	14	344	1	2.7	12	-7	1.24	ICME1
2005.07.09	3:00:00	0.6	18	1.07	23	14.4	5	345	3	5	48	-60	2.48	ICME2
2005.08.15	9:00:00	0.7	22	1.26	36	11.7	27	714	57	3.7	22	-15	4.18	HSS
2005.09.02	14:19:00	2.5	8	0.97	3	16.5	3	665	11	6.7	111	-68	5.49	ICME(+HSS)
2005.09.04	2:00:00	0.5	6	1.05	32	7.6	4	755	13	4.7	39	-76	2.87	HSS(+ICME)
2005.09.15	8:35:00	4.3	8	2.7	3	17.8	9	881	9	7	132	-86	7.84	ICME
2005.09.30	8:00:00	0.9	16	0.61	9	10.7	7	537	23	3.7	22	-33	2.87	HSS
2005.10.07	3:00:00	2.1	28	1.74	27	20.2	26	724	33	4.7	39	-49	7.31	HSS
2005.10.15	8:00:00	0.5	13	0.67	42	8.3	40	426	44	4.3	32	-39	1.77	HSS
2005.10.20	6:00:00	0.3	-2	1.17	29	5.2	0	384	2	1	4	-19	1	ICME(+HSS)
2005.10.21	20:00:00	0.5	9	0.96	5	13.8	7	394	17	4	27	-14	2.72	HSS(+ICME)
2005.10.24	19:00:00	0.7	31	0.94	31	10.7	10	556	45	4.3	32	-39	2.97	HSS
2005.11.02	13:00:00	0.6	11	0.87	22	13.8	7	665	29	4.7	39	-39	4.59	HSS1
2005.11.04	9:00:00	0.9	36	1.14	34	8.6	0	732	4	4.3	32	-32	3.15	HSS2
2005.11.18	0:00:00	0.6	-1	1.02	28	9.1	28	351	30	2.3	9	-4	1.6	ICME(+HSS)
2005.11.19	12:00:00	0.9	16	0.91	4	12.4	2	442	19	4	27	-37	2.74	HSS(+ICME)
2005.11.21	19:00:00	0.3	2	0.77	2	7.5	14	375	1	2.7	12	-20	1.41	ICME(+HSS)
2005.11.23	7:00:00	0.6	44	0.98	31	11.2	27	490	46	3.7	22	-28	2.74	HSS(+ICME)
2005.11.29	16:00:00	1.3	43	1.12	38	15	6	737	42	4.7	39	-18	5.53	HSS
2005.12.08	15:00:00	0.2	9	0.78	-1	5	23	296	2	1.7	6	-6	0.74	ICME(+HSS)
2005.12.09	15:00:00	1.4	32	1.24	24	15	12	397	38	4.3	32	-28	2.98	HSS(+ICME)
2005.12.16	6:00:00	0.5	21	1.75	12	7	15	370	1	3.3	18	-9	1.3	ICME
2005.12.18	10:00:00	0.4	11	0.73	1	9.2	3	363	2	1.7	6	3	1.67	ICME(+HSS)
2005.12.19	11:00:00	0.9	21	0.82	15	14	8	583	22	4	27	-27	4.08	HSS(+ICME)
2005.12.24	10:00:00	0.5	-3	0.77	34	11.4	20	385	58	2.7	12	-25	2.19	ICME
2005.12.27	4:00:00	1.2	26	1.27	15	18.9	15	729	48	5.3	56	-41	6.89	HSS
2005.12.31	0:00:00	2.1	21	2.03	4	10.8	33	591	3	3.3	18	-31	3.19	ICME1
2006.01.01	14:05:00	0.7	-1	0.9	24	16.8	2	503	4	2.7	12	-16	4.23	ICME2
2006.01.06	7:00:00	0.6	15	0.94	13	8.5	11	401	32	3	15	-23	1.7	HSS
2006.01.25	4:00:00	1.3	11	0.8	11	11.1	20	447	22	4	27	-34	2.48	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2006.01.26	3:00:00	0.8	18	1.01	24	11.3	16	683	28	5.3	56	-43	3.86	HSS(+ICME)
2006.01.30	19:00:00	0.4	-1	0.76	30	4.9	23	334	1	1.3	5	-1	0.82	ICME(+HSS)
2006.02.01	3:00:00	0.6	1	0.68	14	7.7	44	364	74	2.3	9	-17	1.4	HSS(+ICME)
2006.02.05	17:00:00	0.7	10	0.93	7	11.7	16	367	3	3.7	22	-25	2.15	ICME
2006.02.10	10:00:00	0.5	40	0.8	29	10.6	25	493	48	3	15	-7	2.61	HSS
2006.02.15	7:00:00	0.4	43	0.53	13	10	3	561	24	3.7	22	-17	2.8	HSS
2006.02.18	20:00:00	0.4	6	0.59	24	7.7	30	398	31	2.3	9	-15	1.53	ICME(+HSS)
2006.02.20	4:00:00	1.3	21	0.6	41	11.1	3	690	38	4.7	39	-42	3.83	HSS(+ICME)
2006.02.28	10:00:00	0.7	11	0.89	-1	7.3	28	444	32	3	15	-15	1.62	HSS
2006.03.09	2:00:00	1.1	46	1.12	12	10.9	29	569	55	4.7	39	-17	3.1	HSS
2006.03.18	2:00:00	0.7	22	1.18	-1	12.3	22	719	62	6.3	94	-41	4.42	HSS
2006.03.24	9:00:00	0.8	30	1.09	7	7.1	9	407	2	2.7	12	-15	1.44	HSS
2006.04.03	19:00:00	1.1	30	1.04	4	12.7	41	347	44	5.3	56	-85	2.2	ICME(+HSS)
2006.04.05	16:00:00	0.7	12	1.2	3	14.4	0	460	14	4.7	39	-87	3.31	HSS(+ICME)
2006.04.08	7:00:00	1.1	44	1.31	23	17.7	35	693	54	6	80	-80	6.13	HSS
2006.04.13	3:00:00	2.7	29	1.27	13	19.6	24	550	14	7	132	-111	5.39	ICME(+HSS)
2006.04.14	12:00:00	0.7	3	1.17	7	12.9	-1	684	27	7	132	-92	4.41	HSS(+ICME)
2006.04.26	21:00:00	0.3	8	0.86	22	5.3	8	339	1	1.3	5	-11	0.9	ICME1
2006.04.28	1:16:00	1.1	8	1	5	9.8	8	435	23	3.7	22	-21	2.13	ICME2
2006.05.10	19:00:00	0.9	22	1.12	47	9.7	15	667	27	4.3	32	-22	3.23	HSS
2006.05.17	7:00:00	1.3	43	1.14	35	14.6	29	594	60	4.3	32	-38	4.34	HSS1
2006.05.22	2:00:00	0.7	22	0.51	1	6.1	60	502	20	3.7	22	-8	1.53	HSS2
2006.05.25	18:00:00	0.3	11	0.64	35	4.7	4	364	9	1.7	6	-4	0.86	ICME
2006.05.30	10:00:00	0.6	10	0.78	17	9.3	4	351	9	3.7	22	2	1.63	ICME(+HSS)
2006.05.31	7:00:00	0.8	15	1.15	16	10.3	26	603	67	3	15	-13	3.11	HSS(+ICME)
2006.06.06	5:00:00	0.9	42	0.83	47	14	4	669	54	5.3	56	-45	4.68	HSS
2006.06.14	6:00:00	0.8	41	0.95	22	11.1	25	615	43	4.3	32	-30	3.41	HSS
2006.06.27	11:00:00	1.3	43	1.04	38	14	40	601	45	4	27	-24	4.21	HSS
2006.07.04	0:00:00	1	25	1.42	0	18.4	25	633	30	5	48	-34	5.82	HSS
2006.07.09	21:36:00	3.8	34	1.95	26	9.7	3	438	2	3.3	18	-23	2.12	ICME(+HSS)
2006.07.11	11:00:00	1.4	1	1.66	9	14.8	5	528	29	4	27	-17	3.91	HSS(+ICME)
2006.07.14	10:00:00	0.8	0	1.32	28	10.5	5	473	14	4.3	32	-35	2.48	ICME
2006.07.22	1:00:00	0.4	-2	0.72	5	5.3	8	331	11	1.7	6	-1	0.88	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2006.07.23	19:00:00	0.6	47	1.02	45	6.7	20	364	61	2.7	12	-10	1.22	HSS(+ICME)
2006.07.27	13:53:00	1	13	0.82	42	14	12	663	17	6	80	-47	4.64	HSS
2006.07.29	18:00:00	0.3	0	1.13	8	5.2	21	520	1	1.7	6	-17	1.35	ICME(+HSS)
2006.07.30	23:00:00	0.7	24	0.98	25	14.3	13	631	39	4	27	-24	4.51	HSS(+ICME)
2006.08.07	0:35:00	0.9	28	0.78	42	18.1	9	630	26	5.7	67	-44	5.7	HSS
2006.08.10	21:00:00	0.4	30	0.86	12	5.7	28	487	9	3	15	-13	1.39	ICME
2006.08.27	12:00:00	1.1	16	1.15	43	18.7	9	664	17	4.7	39	-42	6.21	HSS
2006.08.30	2:00:00	1.4	25	1.07	36	9.8	30	555	-1	3	15	-34	2.72	ICME
2006.09.16	13:00:00	1.2	42	1.07	10	10.4	27	639	55	4.3	32	-35	3.32	HSS
2006.09.23	9:00:00	1.4	21	1.24	48	18.3	16	671	42	5	48	-56	6.14	HSS
2006.09.30	23:00:00	1.1	0	0.87	24	12.3	-1	571	14	5	48	-48	3.51	HSS(+ICME)
2006.09.30	3:00:00	1	9	1.25	14	18	12	439	7	4	27	-18	3.95	ICME(+HSS)
2006.10.07	12:00:00	0.7	42	1.28	38	11.6	6	535	10	4	27	-20	3.1	HSS
2006.10.12	23:00:00	1.1	26	0.65	35	11.8	11	596	56	5.3	56	-49	3.52	HSS
2006.10.20	2:00:00	1.2	26	1.09	42	17.1	20	646	38	4.3	32	-24	5.52	HSS1
2006.10.24	23:00:00	0.4	7	0.75	1	5.7	0	487	6	2.3	9	-13	1.39	HSS2
2006.10.28	0:00:00	0.8	45	0.94	6	12	17	585	48	4.7	39	-46	3.51	HSS
2006.11.01	17:00:00	0.7	15	1.14	13	5.9	9	421	2	3	15	-22	1.24	ICME(+HSS)
2006.11.03	12:00:00	0.8	43	1.04	35	9.5	16	436	24	3.3	18	-20	2.07	HSS(+ICME)
2006.11.21	12:00:00	0.8	35	0.71	1	10.6	27	372	1	3	15	-5	1.97	ICME(+HSS)
2006.11.23	2:00:00	0.6	32	1.11	42	14.9	7	638	76	4.3	32	-31	4.75	HSS(+ICME)
2006.11.28	13:00:00	1.7	24	1.31	35	15.6	30	497	7	5.3	56	-74	3.88	ICME
2006.12.08	4:35:00	1.8	10	1.77	37	9.1	3	702	2	5	48	-20	3.19	ICME1
2006.12.09	22:00:00	1	29	1.29	3	8.9	44	756	52	4.3	32	-19	3.36	ICME2
2006.12.14	14:14:00	9.6	12	4.35	4	17.7	11	955	2	8.3	236	-146	8.45	ICME
2007.01.01	7:00:00	1.4	24	0.74	7	13.7	17	699	55	4.7	39	-21	4.79	HSS
2007.01.14	12:48:00	1	12	1.02	-1	14.5	19	379	6	3	15	-11	2.75	ICME(+HSS)
2007.01.15	10:00:00	0.4	21	0.85	35	13.6	3	698	52	5	48	-27	4.75	HSS(+ICME)
2007.02.12	9:00:00	1.2	40	0.97	46	12.9	5	735	46	5.7	67	-26	4.74	HSS
2007.02.25	18:00:00	0.9	18	1.39	12	13.2	38	661	77	3.7	22	-12	4.36	HSS
2007.03.11	8:00:00	1	42	0.88	36	10.3	40	706	51	5	48	-33	3.64	HSS
2007.03.31	20:00:00	1.1	18	1.24	25	10.7	6	649	49	5	48	-63	3.47	HSS
2007.04.08	22:00:00	1.1	7	1.14	1	17	3	487	17	3.7	22	-10	4.14	HSS1

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2007.04.10	10:00:00	0.7	46	0.61	14	8.2	4	556	46	2.7	12	-13	2.28	HSS2
2007.04.17	3:00:00	0.3	13	0.64	9	10.5	9	408	48	3.3	18	-36	2.14	HSS
2007.04.22	3:00:00	1	45	1.51	24	12.9	26	533	33	5	48	-27	3.44	HSS
2007.04.26	14:00:00	0.7	33	1	39	9.5	29	681	80	5	48	-33	3.23	HSS
2007.05.21	17:00:00	1.5	15	1.36	1	12.7	15	504	-1	4.3	32	-20	3.2	ICME(+HSS)
2007.05.23	2:00:00	0.5	-1	0.97	36	11.3	9	687	51	5.7	67	-63	3.88	HSS(+ICME)
2007.06.13	20:00:00	1.3	46	1.17	2	11.4	7	618	31	4.3	32	-17	3.52	HSS1
2007.06.17	16:00:00	0.4	8	0.58	30	5.3	1	521	12	2.3	9	-6	1.38	HSS2
2007.06.21	9:00:00	0.7	42	0.81	0	9.8	3	578	44	4	27	-21	2.83	HSS
2007.06.29	18:00:00	0.6	10	0.88	43	11.3	5	539	11	4	27	-12	3.05	HSS1
2007.07.03	10:00:00	0.5	26	0.9	1	10.4	7	620	24	4.3	32	-15	3.22	HSS2
2007.07.10	15:00:00	1.3	38	1.06	18	17.8	13	598	30	5	48	-39	5.32	HSS
2007.07.13	19:00:00	0.5	12	1.12	0	12.5	21	477	18	4.3	32	-45	2.98	ICME(+HSS)
2007.07.14	17:00:00	0.8	10	0.64	14	12.5	-1	606	11	5.3	56	-41	3.79	HSS(+ICME)
2007.07.20	6:16:00	1.3	37	1.23	45	11	2	532	26	4	27	-30	2.93	HSS
2007.07.26	13:00:00	0.7	32	0.7	45	11.9	10	484	18	3.7	22	-17	2.88	HSS1
2007.07.29	0:00:00	1.3	27	1	10	15.6	5	613	45	3.7	22	-18	4.78	HSS2
2007.08.01	1:00:00	0.6	2	1	15	8.4	0	650	7	3.7	22	-17	2.73	HSS
2007.08.06	6:00:00	1.2	44	0.9	16	15.3	18	690	27	5.7	67	-34	5.28	HSS1
2007.08.10	9:00:00	0.9	40	1.03	24	11.4	5	573	13	4.3	32	-32	3.27	HSS2
2007.08.18	11:00:00	0.7	37	1.02	27	7.2	26	411	38	2.7	12	-5	1.48	HSS
2007.08.25	10:00:00	0.7	15	0.77	23	10.5	7	382	15	3	15	-8	2.01	ICME(+HSS)
2007.08.26	11:00:00	1.5	33	1.37	22	19.4	8	676	32	4	27	-22	6.56	HSS(+ICME)
2007.08.31	15:00:00	0.6	37	0.69	36	9	36	670	81	4.7	39	-22	3.02	HSS
2007.09.06	6:00:00	0.6	6	0.97	22	8.1	17	556	21	4.3	32	-29	2.25	HSS
2007.09.14	15:00:00	1.2	31	1.14	17	15.3	8	444	15	2.3	9	0	3.4	HSS
2007.09.20	10:12:00	1.4	44	1.02	36	10.5	5	674	71	4	27	-13	3.54	HSS
2007.09.27	11:51:00	0.8	22	0.8	20	10	8	588	16	5	48	-20	2.94	ICME(+HSS)
2007.09.28	16:00:00	0.7	10	0.76	41	9.4	3	672	32	5	48	-39	3.16	HSS(+ICME)
2007.10.02	21:00:00	0.6	27	0.76	31	7.9	5	586	30	4	27	-35	2.31	HSS
2007.10.11	22:00:00	1	25	0.77	1	8.8	18	352	34	2.3	9	-12	1.55	HSS1
2007.10.14	16:00:00	0.6	37	1.19	8	8.2	17	347	52	1.7	6	-10	1.42	HSS2
2007.10.25	11:35:00	0.9	8	0.78	48	15.7	5	698	14	4.7	39	-52	5.48	HSS1

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2007.10.29	16:00:00	0.5	9	0.78	30	7.7	5	587	9	4.7	39	-31	2.26	HSS2
2007.11.12	10:00:00	1.4	47	0.96	48	12.5	16	666	48	3	15	-12	4.16	HSS
2007.11.19	18:11:00	1.8	9	1.83	6	19.7	16	481	12	4.3	32	-1	4.74	ICME1
2007.11.20	11:00:00	0.8	11	1.08	16	19.7	-1	668	28	5.3	56	-63	6.58	ICME2
2007.11.24	13:00:00	0.7	15	0.97	35	6.3	3	644	11	4	27	-23	2.03	HSS
2007.12.04	23:00:00	0.6	27	0.92	-1	8.5	8	372	17	2	7	-6	1.58	HSS
2007.12.17	2:53:00	1.2	20	1.2	2	15.9	6	697	47	4	27	-38	5.54	HSS
2007.12.27	17:00:00	0.7	8	0.75	14	8.2	2	476	15	3	15	-14	1.95	HSS
2008.01.25	1:00:00	0.5	5	0.8	10	9.1	2	551	7	3.7	22	-21	2.51	HSS
2008.01.31	11:23:00	0.6	18	0.6	6	11.4	7	461	12	3.3	18	-30	2.63	HSS1
2008.02.01	8:00:00	1.3	46	0.55	1	8.8	7	634	52	4.7	39	-49	2.79	HSS2
2008.02.18	8:00:00	0.5	11	0.47	2	6.6	6	622	24	3.7	22	-33	2.05	HSS
2008.03.26	9:36:00	1.2	19	0.76	20	9.5	3	624	21	5	48	-48	2.96	HSS1
2008.03.27	15:00:00	0.8	25	0.92	7	7.7	1	688	19	5	48	-56	2.65	HSS2
2008.04.04	11:00:00	1	42	0.73	31	11.9	3	729	48	5	48	-33	4.34	HSS
2008.04.22	14:00:00	1.3	36	0.87	13	14.5	18	659	31	5.3	56	-46	4.78	HSS1
2008.04.24	5:00:00	0.7	14	0.81	20	9.1	4	624	12	3.7	22	-39	2.84	HSS2
2008.04.27	22:00:00	0.6	16	0.73	7	6.5	2	499	4	3.7	22	-29	1.62	HSS
2008.05.03	11:00:00	0.5	18	0.93	8	8.1	1	647	64	3.3	18	-21	2.62	HSS
2008.05.28	2:25:00	1.1	25	0.93	-1	10.6	4	538	25	3.3	18	-16	2.85	HSS1
2008.05.29	19:00:00	1.2	35	0.78	1	7.8	3	645	39	3.7	22	-21	2.52	HSS2
2008.06.14	12:23:00	1.8	38	0.73	19	14.8	9	758	64	5.7	67	-41	5.61	HSS
2008.07.20	18:00:00	0.4	28	0.68	34	6	17	384	34	1.7	6	-7	1.15	HSS1
2008.07.22	7:00:00	0.9	39	0.67	5	10.3	6	653	39	4	27	-27	3.36	HSS2
2008.07.24	17:00:00	0.4	6	0.74	5	5.5	66	507	2	2	7	-20	1.39	ICME
2008.08.05	4:00:00	0.5	42	0.85	42	6.9	41	369	64	1.3	5	-4	1.27	ICME
2008.08.08	12:00:00	1.7	46	1.1	46	19.3	18	658	31	5.3	56	-33	6.35	HSS
2008.08.13	22:00:00	0.5	11	1.11	9	6.6	73	490	4	3	15	-17	1.62	HSS1
2008.08.18	3:00:00	0.8	24	0.57	29	10.8	9	635	13	4.7	39	-26	3.43	HSS2
2008.09.03	2:00:00	0.7	11	1.37	9	14.5	6	438	12	2.3	9	-3	3.18	ICME(+HSS)
2008.09.03	15:43:00	1.1	4	1.32	8	12.8	4	600	30	6	80	-51	3.84	HSS(+ICME)
2008.09.06	2:00:00	0.5	5	0.85	3	6.8	5	632	29	3.3	18	-17	2.15	HSS
2008.09.14	20:00:00	0.8	21	0.72	26	11.7	12	586	24	4	27	-30	3.43	HSS

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2008.09.30	12:34:00	1	47	0.83	33	8.4	15	715	59	4	27	-27	3	HSS
2008.10.11	7:00:00	0.9	18	0.7	15	13.9	2	549	24	6.3	94	-54	3.82	HSS
2008.10.19	9:00:00	0.6	47	0.82	0	7.9	15	414	45	3	15	-18	1.64	HSS
2008.10.25	12:00:00	0.5	30	0.56	17	7	19	397	30	2.7	12	-7	1.39	ICME
2008.10.28	6:00:00	1.1	41	0.81	26	13.5	14	711	35	4.3	32	-22	4.8	HSS
2008.11.07	3:53:00	1	27	0.88	30	11.1	19	574	43	4.3	32	-29	3.19	HSS
2008.11.15	16:25:00	0.7	16	1.03	22	13.1	6	525	22	3.7	22	-29	3.44	HSS
2008.11.24	23:51:00	1.2	45	1.08	7	21.9	7	658	48	3.7	22	-12	7.21	HSS
2008.12.10	18:00:00	0.5	31	0.48	8	7.1	16	462	59	1.7	6	-7	1.64	HSS
2008.12.16	11:59:00	1.4	24	1.13	24	9.6	19	370	3	2.7	12	-15	1.78	ICME
2008.12.22	6:00:00	0.6	47	0.76	1	11.6	13	556	31	3.7	22	-11	3.22	HSS
2008.12.30	19:00:00	1.1	25	0.78	16	12.5	8	525	21	3.3	18	-17	3.28	HSS
2009.01.09	5:00:00	0.5	18	0.72	25	6.8	19	395	12	3	15	-17	1.34	HSS
2009.01.12	17:00:00	0.6	23	1.08	16	8.3	34	330	34	2.3	9	-17	1.37	ICME(+HSS)
2009.01.14	13:00:00	0.8	6	0.66	38	7.8	17	412	37	2.3	9	-19	1.61	HSS(+ICME)
2009.01.30	21:00:00	0.9	8	0.99	3	9	5	496	28	2.7	12	-14	2.23	HSS
2009.02.14	1:00:00	1	25	0.66	2	16.1	6	589	34	4.3	32	-38	4.74	HSS
2009.02.26	23:00:00	0.6	25	0.97	11	8.7	11	689	22	4	27	-23	3	HSS
2009.03.20	18:00:00	1	23	1	25	9.9	13	438	17	3	15	-27	2.17	HSS
2009.04.08	1:00:00	0.3	0	0.33	11	3.3	16	361	0	2.3	9	-4	0.6	ICME(+HSS)
2009.04.08	18:00:00	0.8	33	0.6	34	8.4	9	559	74	3.3	18	-27	2.35	HSS(+ICME)
2009.04.16	12:00:00	0.8	37	1.29	31	11.2	16	537	51	3.3	18	-25	3.01	HSS
2009.04.24	0:53:00	0.7	22	0.66	-1	7.8	17	432	21	2.3	9	-9	1.68	HSS1
2009.04.26	5:00:00	0.6	18	0.73	3	6.8	3	401	6	2.3	9	-12	1.36	HSS2
2009.05.06	0:00:00	0.7	30	1.03	-1	7.2	20	518	54	4	27	-12	1.86	HSS
2009.05.16	1:00:00	0.5	21	0.88	0	7.1	4	392	16	1.3	5	-11	1.39	HSS1
2009.05.20	14:00:00	0.6	30	0.66	4	7.6	5	396	56	2.7	12	-9	1.5	HSS2
2009.05.28	5:19:00	0.9	32	0.81	15	10.1	4	440	14	2.3	9	-17	2.22	HSS
2009.06.03	8:00:00	1.2	35	1.09	27	7.2	18	340	30	2.3	9	-19	1.22	ICME
2009.06.20	4:51:00	0.5	45	0.99	17	7.4	17	353	24	2.7	12	-3	1.31	ICME
2009.06.27	14:00:00	0.6	15	1.06	13	9	26	425	3	3	15	-5	1.91	ICME(+HSS)
2009.06.28	18:00:00	0.7	31	0.56	25	10.1	2	561	23	4	27	-28	2.83	HSS(+ICME)
2009.07.06	15:00:00	0.9	36	1.35	35	6	44	393	5	1.7	6	-12	1.18	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2009.07.13	9:00:00	0.7	26	0.96	21	10.2	10	540	19	3.7	22	-25	2.75	HSS
2009.07.20	5:00:00	0.6	29	0.96	28	8.2	33	339	23	2.3	9	-22	1.39	ICME(+HSS)
2009.07.22	1:00:00	1.3	7	0.98	12	16.7	6	575	53	5.7	67	-83	4.8	HSS(+ICME)
2009.08.19	6:00:00	0.7	42	0.85	22	11.6	12	559	42	3.7	22	-26	3.24	HSS
2009.09.03	15:52:00	0.7	18	0.77	10	8.1	12	492	29	2.7	12	-8	1.99	HSS
2009.09.10	2:00:00	0.6	31	0.91	2	6.3	34	308	11	1.7	6	-7	0.97	ICME1
2009.09.11	19:00:00	0.4	9	0.71	10	5.7	0	309	15	1.3	5	-14	0.88	ICME2
2009.09.13	12:00:00	0.9	27	0.77	35	8.3	9	438	39	3	15	-14	1.82	HSS1
2009.09.15	14:00:00	0.3	8	0.82	22	6.4	3	469	8	3.3	18	-15	1.5	HSS2
2009.09.26	11:00:00	0.9	22	1.14	14	8.5	16	344	21	3.3	18	-16	1.46	ICME(+HSS)
2009.09.28	6:49:00	0.5	12	0.68	26	6.7	2	339	19	3.3	18	-13	1.14	HSS(+ICME)
2009.10.04	4:12:00	0.8	17	0.95	13	9.8	8	416	26	2.3	9	-2	2.04	HSS
2009.10.15	6:00:00	0.4	20	0.76	7	9	6	433	14	2.3	9	-9	1.95	HSS
2009.10.17	13:00:00	0.2	0	0.4	6	3.7	13	332	7	0.7	3	-2	0.61	ICME1
2009.10.18	18:00:00	0.4	15	0.61	13	5.1	21	320	13	1	4	-1	0.82	ICME2
2009.10.29	5:00:00	0.6	6	0.83	13	11.1	13	384	12	3.3	18	-34	2.13	ICME1
2009.10.30	10:00:00	0.4	3	0.96	37	5.4	39	374	2	2.7	12	-29	1.01	ICME2
2009.11.01	3:00:00	0.5	21	1.02	22	7.9	29	365	11	2	7	-14	1.44	ICME(+HSS)
2009.11.02	13:00:00	0.6	12	0.66	0	6.3	0	352	7	0.7	3	-10	1.11	HSS(+ICME)
2009.11.13	20:00:00	0.7	23	0.68	43	8	18	372	33	2.7	12	-18	1.49	ICME
2009.12.05	6:51:00	0.9	45	0.96	40	10	19	420	25	2.3	9	-11	2.1	HSS
2009.12.12	5:00:00	0.4	18	0.74	7	7.9	26	296	14	3	15	-2	1.17	ICME1
2009.12.14	5:00:00	0.7	32	0.84	33	7.4	56	347	72	3	15	-12	1.28	ICME2
2009.12.21	21:00:00	0.7	43	0.97	32	6	35	385	2	2	7	-4	1.16	ICME
2009.12.24	4:00:00	0.3	-3	0.87	31	5.6	1	442	4	1	4	-8	1.24	ICME(+HSS)
2009.12.25	17:00:00	0.6	32	0.95	12	9.6	4	413	24	2.3	9	-8	1.98	HSS(+ICME)
2010.01.01	18:00:00	0.8	18	0.81	18	7.7	25	304	9	2	7	-15	1.17	ICME
2010.02.06	5:00:00	0.7	10	1.36	6	8.7	10	374	8	2.7	12	-19	1.63	ICME1
2010.02.07	15:00:00	1.1	15	1.12	35	10.7	17	406	5	2.7	12	-22	2.17	ICME2
2010.02.14	13:00:00	0.7	6	1.26	2	9.9	15	319	11	3	15	-28	1.58	ICME1
2010.02.15	18:00:00	1.1	30	0.98	48	13.3	2	368	52	4.3	32	-59	2.45	ICME2
2010.02.25	17:07:00	0.4	0	1.18	-1	7.3	0	401	13	2.7	12	-13	1.46	ICME1
2010.02.27	14:00:00	0.6	20	1.03	29	6.3	19	345	41	1.3	5	-5	1.09	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2010.03.14	0:00:00	0.7	9	0.8	32	6	2	457	10	2.7	12	-17	1.37	ICME
2010.04.05	8:26:00	3.1	18	1.64	8	18.8	5	814	7	7.7	179	-76	7.65	ICME(+HSS)
2010.04.06	14:00:00	1.1	-2	1.02	1	8.5	1	635	26	5.3	56	-81	2.7	HSS(+ICME)
2010.04.09	18:00:00	0.4	8	1.02	8	5.3	40	468	7	1.7	6	-31	1.24	ICME1
2010.04.11	13:04:00	1.6	15	0.87	22	12.1	20	457	3	5.7	67	-67	2.76	ICME2
2010.04.14	5:00:00	1.3	29	1.01	44	12.3	17	515	34	5	48	-36	3.17	HSS
2010.05.02	5:00:00	1.3	34	0.78	24	17.4	9	720	34	6	80	-71	6.26	HSS
2010.05.10	18:00:00	0.3	20	0.51	9	7.2	10	398	18	2.3	9	-13	1.43	ICME1
2010.05.12	2:00:00	0.7	16	0.76	1	8.3	5	495	21	2.3	9	-15	2.05	ICME2
2010.05.18	7:00:00	0.5	20	0.79	10	10.5	25	365	5	1.7	6	-34	1.92	ICME(+HSS)
2010.05.19	9:00:00	1.1	36	0.72	47	12.9	5	510	26	3.3	18	-19	3.29	HSS(+ICME)
2010.05.28	2:57:00	2.7	33	1.96	20	14.4	29	385	8	5.3	56	-80	2.77	ICME(+HSS)
2010.05.29	23:00:00	0.8	18	1.25	0	13.5	1	616	42	5	48	-58	4.16	HSS(+ICME)
2010.06.15	9:00:00	0.8	21	0.9	43	10.7	6	571	38	3.7	22	-36	3.05	HSS
2010.06.20	21:00:00	1.2	26	1.39	8	7.5	14	404	6	2.3	9	-11	1.52	ICME
2010.06.29	20:00:00	0.6	7	0.98	36	10.2	3	698	11	4.3	32	-27	3.56	HSS
2010.07.08	15:00:00	0.5	10	1.17	22	6	9	347	23	2	7	-17	1.04	ICME(+HSS)
2010.07.10	10:00:00	0.3	1	0.92	13	5.1	28	342	61	2	7	-14	0.87	HSS(+ICME)
2010.07.23	5:00:00	0.9	19	0.74	2	9.7	12	414	8	2.7	12	-16	2.01	ICME(+HSS)
2010.07.25	1:00:00	0.3	6	0.44	39	7.7	3	456	31	2.3	9	-13	1.76	HSS(+ICME)
2010.07.26	22:00:00	0.7	31	0.78	33	8.8	5	691	44	4	27	-31	3.04	HSS
2010.08.20	4:00:00	0.7	38	1.24	18	5.5	71	321	5	1.3	5	-8	0.88	ICME
2010.09.01	1:00:00	0.7	0	1.16	10	10.1	12	423	20	2.3	9	-14	2.14	ICME(+HSS)
2010.09.02	1:00:00	0.3	-2	1.17	11	10.1	0	447	28	2.3	9	-15	2.26	HSS(+ICME)
2010.09.05	15:00:00	0.7	32	0.97	16	8.8	10	393	15	3	15	-16	1.73	ICME(+HSS)
2010.09.07	2:00:00	0.8	41	0.82	15	7.4	3	501	16	3.7	22	-38	1.85	HSS(+ICME)
2010.09.13	1:00:00	0.6	4	1.37	9	6.5	29	322	5	1.7	6	-13	1.05	ICME1
2010.09.14	7:00:00	1.2	33	1.43	22	9.9	16	408	20	3.7	22	-25	2.02	ICME2
2010.09.20	19:00:00	0.3	23	0.75	7	8.6	2	445	17	2.7	12	-16	1.91	HSS
2010.09.23	2:00:00	0.9	29	1.13	30	12.2	11	631	53	4	27	-32	3.85	HSS
2010.10.30	10:13:00	1.9	36	1.74	19	11.7	44	387	2	2.3	9	-11	2.26	ICME
2010.11.05	14:00:00	0.3	4	0.83	13	5.6	2	364	6	1.3	5	-12	1.02	ICME
2010.11.27	14:00:00	1.1	21	0.77	22	14.5	13	478	23	4.7	39	-23	3.47	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2011.01.02	1:00:00	0.4	22	0.48	20	7.6	5	362	20	2	7	-4	1.38	ICME(+HSS)
2011.01.03	11:00:00	0.4	12	0.69	29	9.3	12	426	26	2.7	12	-9	1.98	HSS(+ICME)
2011.01.11	21:00:00	0.4	8	0.51	1	6.1	6	506	15	3	15	-16	1.54	ICME(+HSS)
2011.01.13	11:00:00	1.2	16	0.8	21	7.7	9	561	24	3.3	18	-29	2.16	HSS(+ICME)
2011.01.18	15:00:00	0.5	31	0.56	2	5.7	18	530	22	2.7	12	-14	1.51	HSS
2011.01.24	5:00:00	0.6	12	0.82	12	7.8	17	396	6	3	15	-14	1.54	ICME
2011.01.28	17:00:00	0.4	44	0.89	32	7.5	8	318	1	2.7	12	-6	1.19	ICME
2011.01.30	23:00:00	0.3	9	1.02	4	6.9	4	279	7	0.7	3	4	0.96	ICME(+HSS)
2011.01.31	16:00:00	1	37	1.1	0	12.7	5	525	28	3.3	18	-22	3.33	HSS(+ICME)
2011.02.18	1:30:00	4.7	7	1.55	4	31	5	691	12	5	48	-32	10.71	ICME
2011.03.06	3:31:00	0.5	1	1.42	22	6.3	35	538	3	3.7	22	-27	1.69	ICME
2011.03.10	6:45:00	3	25	3	7	11.9	3	405	27	5.3	56	-83	2.41	ICME(+HSS)
2011.03.11	16:00:00	1.2	5	1.73	5	13.8	6	599	70	5.7	67	-64	4.13	HSS(+ICME)
2011.03.16	22:00:00	0.9	14	2.12	29	9.2	16	429	23	3.7	22	-10	1.97	ICME
2011.03.20	11:00:00	0.8	12	2.53	20	7.3	38	387	10	3.3	18	-18	1.41	ICME(+HSS)
2011.03.22	7:00:00	1	10	1.47	16	10.4	13	516	34	3.3	18	-14	2.68	HSS(+ICME)
2011.03.29	16:30:00	2.9	23	1.4	9	14.5	10	391	2	3.3	18	-4	2.83	ICME
2011.04.18	6:52:00	0.7	1	1.38	30	12.8	6	404	32	3.3	18	-15	2.59	ICME(+HSS)
2011.04.19	21:10:00	1.2	9	1.66	1	15.9	7	555	17	5	48	-26	4.41	HSS(+ICME)
2011.05.07	12:00:00	0.4	-3	1.02	10	6.7	2	383	1	2	7	-13	1.28	ICME1
2011.05.09	13:00:00	0.6	18	0.69	3	8.5	19	390	34	3.3	18	-15	1.66	ICME2
2011.06.04	20:44:00	3.4	8	1.78	27	23.6	6	556	8	6.3	94	-45	6.56	ICME
2011.06.13	19:00:00	0.7	26	1.03	2	8.7	5	555	23	3.3	18	-13	2.41	HSS
2011.06.21	14:00:00	0.2	-1	0.87	11	6.1	1	496	4	3	15	-7	1.51	ICME(+HSS)
2011.06.22	3:00:00	4.1	47	1.33	38	10.5	28	661	26	4	27	-30	3.47	HSS(+ICME)
2011.06.28	15:00:00	0.6	20	1.14	1	5.6	40	403	1	1.7	6	-6	1.13	ICME(+HSS)
2011.06.30	16:00:00	0.9	7	0.76	4	10.3	14	422	18	3.7	22	-48	2.17	HSS(+ICME)
2011.07.06	3:00:00	1.1	28	1.21	16	6.3	31	409	4	3	15	-30	1.29	ICME
2011.07.08	16:00:00	0.6	2	0.85	2	12.8	14	356	1	4	27	-14	2.28	ICME1
2011.07.09	9:00:00	0.8	44	1.12	13	10	2	503	22	3.3	18	-28	2.52	ICME2
2011.07.14	18:00:00	0.8	7	0.82	14	6	80	510	-1	2.7	12	-17	1.53	ICME
2011.07.18	8:00:00	1.5	47	0.7	2	10.4	23	731	69	4	27	-19	3.8	HSS
2011.07.28	21:00:00	0.5	32	0.95	37	9.8	36	412	38	2.3	9	-12	2.02	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2011.07.30	12:00:00	1.2	26	1.6	48	14.1	11	686	37	5	48	-40	4.84	HSS(+ICME)
2011.08.04	21:53:00	0.7	4	1.45	18	9.5	3	431	17	3	15	-15	2.05	ICME1
2011.08.05	17:51:00	4.8	20	2.29	2	29.4	5	611	4	7.7	179	-115	8.98	ICME2
2011.08.11	20:00:00	0.8	20	1.58	38	4.7	18	417	4	1.7	6	-22	0.98	ICME1
2011.08.13	19:00:00	0.6	38	1.57	4	9.4	14	528	33	4	27	-23	2.48	ICME2
2011.08.20	19:00:00	0.7	44	1.01	22	6.9	11	415	30	2.7	12	-15	1.43	ICME
2011.08.23	3:00:00	0.7	29	0.88	17	9.9	8	569	24	3.3	18	-14	2.82	HSS
2011.08.29	1:00:00	0.7	3	0.92	25	8.6	4	534	12	2.7	12	-23	2.3	HSS
2011.09.02	20:00:00	1	33	0.92	15	10.3	8	416	30	3	15	-29	2.14	ICME(+HSS)
2011.09.04	12:00:00	0.5	26	1.08	13	9.6	3	441	49	3	15	-31	2.12	HSS(+ICME)
2011.09.25	11:45:00	1.3	18	1.02	13	10.5	3	367	3	2	7	-5	1.93	ICME1
2011.09.26	12:35:00	5.1	7	1	24	34.2	7	704	10	6.3	94	-118	12.04	ICME2
2011.10.05	7:36:00	2.3	13	1.77	3	13.8	18	470	4	4.3	32	-43	3.24	ICME1
2011.10.06	12:00:00	0.7	7	0.77	12	12	6	390	23	2.3	9	-33	2.34	ICME2
2011.11.18	16:00:00	0.9	4	0.91	48	5.5	62	405	4	1.3	5	-6	1.11	ICME
2011.12.02	16:00:00	0.6	13	1.16	19	7.7	16	420	30	3	15	-34	1.62	ICME1
2011.12.03	23:00:00	0.6	-1	1.4	40	5.6	1	477	3	3	15	-23	1.34	ICME2
2011.12.18	18:00:00	1	28	0.86	10	9.7	11	381	21	2.7	12	-3	1.85	ICME(+HSS)
2011.12.20	14:00:00	1	36	1.04	13	8.4	9	418	42	2.7	12	-18	1.76	HSS(+ICME)
2011.12.25	4:00:00	0.7	1	1.02	41	7.7	71	377	15	1.7	6	-7	1.45	ICME
2011.12.28	4:00:00	1.1	27	1.2	9	13.3	26	395	41	3.7	22	0	2.63	ICME1
2011.12.29	22:00:00	1.5	16	1.35	25	11.4	22	431	1	3	15	-24	2.46	ICME2
2012.01.12	18:00:00	0.6	25	0.87	42	8.7	8	542	13	3.3	18	-4	2.36	HSS
2012.02.09	13:00:00	0.6	12	0.95	37	7.5	7	460	18	2.7	12	-14	1.72	HSS
2012.02.12	9:00:00	0.5	31	1.03	-1	10.7	31	416	30	3	15	-30	2.23	ICME1
2012.02.14	1:00:00	2.4	26	2.5	22	9.4	46	414	18	5.3	56	-67	1.95	ICME2
2012.02.26	21:39:00	2	11	2.14	4	8.9	5	488	2	3.7	22	-9	2.17	ICME1
2012.02.27	12:00:00	2.1	26	1.64	36	14.9	14	493	1	5.3	56	-57	3.67	ICME2
2012.03.11	13:00:00	0.8	2	1.7	12	8.3	5	461	6	3.3	18	-44	1.91	ICME1
2012.03.12	9:14:00	5.8	18	3.27	13	23.6	2	727	11	6.3	94	-64	8.58	ICME2
2012.03.22	15:00:00	0.4	0	1.13	21	9.8	9	415	8	4	27	-33	2.03	ICME(+HSS)
2012.03.24	4:00:00	0.5	6	1.31	31	7.7	8	468	15	4.3	32	-25	1.8	HSS(+ICME)
2012.03.29	20:00:00	0.7	27	1.14	32	8.3	20	401	19	2.7	12	-16	1.66	ICME1

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2012.03.31	11:00:00	1.1	38	1.12	0	8.4	7	375	12	3.3	18	-33	1.58	ICME2
2012.04.03	18:00:00	0.3	0	0.9	20	5.8	6	364	3	2.3	9	-21	1.06	ICME1
2012.04.04	19:00:00	3.4	33	2.08	23	11.7	43	375	75	4	27	-64	2.19	ICME2
2012.05.03	2:00:00	0.4	-3	1.47	7	7.9	2	315	9	3	15	-23	1.24	ICME1
2012.05.03	23:00:00	1.7	27	1.54	0	8	8	334	8	3	15	-11	1.34	ICME2
2012.05.12	14:00:00	1	12	1.18	26	5.6	1	587	1	3.3	18	-37	1.64	ICME
2012.05.15	1:00:00	0.8	20	0.97	31	7.7	22	454	3	2.3	9	-10	1.75	ICME1
2012.05.16	12:00:00	2.6	46	2.03	14	12.2	37	433	45	3.7	22	-43	2.64	ICME2
2012.06.09	22:00:00	1.1	23	1.42	7	6.9	38	462	17	3.3	18	-26	1.59	ICME1
2012.06.11	13:00:00	0.9	1	2	14	10.4	13	422	12	5.3	56	-67	2.19	ICME2
2012.06.16	9:55:00	1.1	7	1.64	7	10.6	7	413	9	3	15	1	2.19	ICME1
2012.06.16	20:20:00	4	8	1.9	0	40.1	7	519	3	6.3	94	-86	10.41	ICME2
2012.06.29	20:00:00	1.7	43	1.09	35	12.6	15	689	41	4.7	39	-37	4.34	HSS
2012.07.14	18:09:00	7.6	23	2.62	18	27.3	15	667	7	7	132	-139	9.1	ICME
2012.07.20	4:47:00	2.2	18	2.8	1	9.1	8	476	6	3	15	-31	2.17	ICME1
2012.07.21	16:05:00	2.7	9	2.06	33	13	2	517	3	3	15	-28	3.36	ICME2
2012.08.07	21:00:00	0.7	4	0.83	1	9.6	6	424	8	4.7	39	-34	2.04	ICME
2012.08.18	5:00:00	1.2	21	1.17	17	12.4	17	403	16	3.7	22	-18	2.5	ICME(+HSS)
2012.08.19	10:00:00	1.2	12	1.15	6	11.5	3	579	17	4	27	-29	3.33	HSS(+ICME)
2012.08.25	0:00:00	0.5	4	1.05	27	8.9	3	586	8	3	15	-20	2.61	ICME(+HSS)
2012.08.26	10:00:00	0.7	7	0.77	0	9.2	4	698	21	3.7	22	-9	3.21	HSS(+ICME)
2012.08.28	18:00:00	0.4	-3	0.73	12	4.8	3	544	7	1.3	5	-8	1.31	HSS
2012.09.03	12:13:00	2.5	25	1.22	24	19.8	2	449	13	5.7	67	-69	4.45	ICME1
2012.09.04	22:45:00	2.9	11	1.71	10	15.2	10	545	8	5.7	67	-64	4.14	ICME2
2012.09.18	14:00:00	0.9	18	1.18	15	7.5	5	399	6	2.7	12	-15	1.5	ICME(+HSS)
2012.09.19	15:00:00	0.5	21	0.93	4	12	6	578	24	4.7	39	-36	3.47	HSS(+ICME)
2012.09.21	7:00:00	0.6	1	0.97	31	5.1	6	537	8	2.7	12	-10	1.37	HSS
2012.09.30	11:31:00	1	8	1.56	0	7.9	8	319	8	4.3	32	-39	1.26	ICME1
2012.09.30	23:05:00	2.1	17	1.78	9	21	4	410	4	6.7	111	-122	4.3	ICME2
2012.10.17	0:00:00	0.6	0	1.17	36	9	22	598	36	2.7	12	-29	2.69	HSS
2012.11.06	23:00:00	0.6	11	1.02	40	11.3	5	501	24	4	27	-7	2.83	HSS
2012.11.30	9:00:00	0.3	-2	0.81	21	5.6	26	352	4	1	4	-2	0.99	ICME1
2012.12.01	17:00:00	1.3	28	1.35	14	10.7	9	353	12	2.7	12	-10	1.89	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2012.12.08	19:00:00	0.6	16	0.8	25	8.6	13	322	17	2.7	12	-6	1.38	ICME(+HSS)
2012.12.10	14:00:00	0.8	44	1.62	34	7.5	2	316	2	1.3	5	2	1.18	HSS(+ICME)
2013.01.02	5:00:00	0.6	39	0.86	44	5.8	52	336	65	1.7	6	-3	0.97	ICME
2013.01.25	17:00:00	1.3	17	1.02	18	16.5	4	502	18	4.3	32	-26	4.14	ICME(+HSS)
2013.01.26	14:00:00	1.1	28	1.18	46	14	2	531	9	4	27	-51	3.72	HSS(+ICME)
2013.01.31	14:00:00	0.6	6	0.76	13	6.6	12	338	21	2	7	-9	1.12	ICME(+HSS)
2013.02.01	15:00:00	0.8	24	1.13	45	11.1	14	485	25	3.3	18	-18	2.69	HSS(+ICME)
2013.02.06	18:00:00	0.4	14	0.65	2	9.3	13	367	23	3	15	-25	1.71	ICME(+HSS)
2013.02.07	22:00:00	0.7	8	0.69	11	10.1	6	457	18	3	15	-22	2.31	HSS(+ICME)
2013.02.16	12:09:00	1.8	14	1.34	11	11.6	2	407	4	4	27	-21	2.36	ICME1
2013.02.17	11:00:00	0.7	13	1.18	23	7.2	3	365	2	3.3	18	-40	1.31	ICME2
2013.02.23	11:00:00	0.6	12	1.41	25	5.6	-1	381	4	2.3	9	-24	1.07	ICME1
2013.02.25	5:00:00	1	32	1.4	45	8	10	353	16	2	7	-16	1.41	ICME2
2013.03.06	6:00:00	0.5	17	1.17	30	5.3	21	343	32	2.3	9	-11	0.91	ICME
2013.03.08	19:00:00	0.5	27	1.03	8	5.7	4	354	25	2.3	9	-1	1.01	HSS
2013.03.15	5:26:00	1.7	41	1.58	17	12.2	4	475	28	3.7	22	-25	2.9	ICME1
2013.03.17	5:59:00	4.3	38	1.72	1	17.8	4	725	8	6.7	111	-132	6.45	ICME2
2013.03.20	11:00:00	0.6	-2	0.97	4	10.4	6	601	8	4.3	32	-54	3.13	ICME1
2013.03.22	4:00:00	0.6	0	1.12	5	6.9	3	458	-1	2.7	12	-32	1.58	ICME2
2013.04.09	22:00:00	1.3	47	0.93	1	7.3	30	487	45	2.3	9	-7	1.78	ICME
2013.04.20	1:00:00	0.7	-1	1.14	41	6.4	35	317	11	2	7	-3	1.01	ICME
2013.04.30	9:49:00	2.3	13	1.84	-1	10.5	8	426	5	3	15	-30	2.24	ICME(+HSS)
2013.05.01	8:00:00	1	10	1.98	2	11.1	0	484	29	5.7	67	-72	2.69	HSS(+ICME)
2013.05.24	18:10:00	1.2	11	1.31	1	11.6	4	555	2	5.7	67	-59	3.22	ICME1
2013.05.25	9:48:00	2.4	18	1.51	31	12.1	13	777	68	5	48	-56	4.7	ICME2
2013.05.31	16:18:00	2.2	21	1.81	8	19.6	17	684	23	7	132	-124	6.7	ICME(+HSS)
2013.06.01	17:00:00	0.8	8	1.13	3	12.9	8	774	21	4	27	-68	4.99	HSS(+ICME)
2013.06.06	2:55:00	2.8	20	2.05	5	13.4	21	513	2	5.7	67	-78	3.44	ICME1
2013.06.07	20:00:00	0.7	5	0.91	15	9.7	2	457	16	3	15	-34	2.22	ICME2
2013.06.27	14:38:00	2.8	18	2.12	13	12.5	30	453	2	5.7	67	-100	2.83	ICME(+HSS)
2013.06.29	5:00:00	0.5	2	1.48	7	13	8	560	37	6.3	94	-102	3.64	HSS(+ICME)
2013.07.02	18:00:00	1	41	1.81	40	5.3	43	428	1	1.7	6	-19	1.13	ICME1
2013.07.04	18:00:00	2	47	1.8	12	12.8	33	386	3	4.7	39	-87	2.47	ICME2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2013.07.12	17:14:00	2.7	15	2.09	13	16.3	22	509	7	4.3	32	-65	4.15	ICME
2013.09.12	14:00:00	0.3	4	0.71	4	9.4	9	523	16	3	15	-10	2.46	HSS1
2013.09.13	14:00:00	0.4	9	0.78	15	9.5	3	576	15	3.7	22	-7	2.74	HSS2
2013.09.24	3:00:00	0.8	5	1.17	14	10.5	9	440	22	4.3	32	-23	2.31	HSS
2013.09.29	19:00:00	0.9	47	1.02	22	8.7	46	374	54	2	7	2	1.63	ICME
2013.10.02	1:55:00	3.7	5	1.24	16	22.2	5	629	4	7.7	179	-72	6.98	ICME
2013.10.12	12:00:00	0.7	29	0.68	5	5.8	13	396	11	2.3	9	-15	1.15	ICME(+HSS)
2013.10.14	7:00:00	2.1	47	0.76	33	10.4	18	546	36	4.3	32	-49	2.84	HSS(+ICME)
2013.11.08	18:00:00	1.5	13	0.87	12	14.1	13	466	15	5	48	-80	3.29	ICME(+HSS)
2013.11.09	10:00:00	0.7	38	1.01	36	12.4	0	611	7	4.3	32	-73	3.79	HSS(+ICME)
2013.11.22	22:00:00	0.8	7	2.26	4	9.4	10	357	9	3.3	18	-27	1.68	ICME1
2013.11.23	14:00:00	0.6	1	1.28	46	10	2	372	1	2	7	-20	1.86	ICME2
2014.01.07	15:12:00	1.5	16	1.5	5	8.1	43	440	39	3.3	18	-22	1.78	ICME
2014.01.09	20:08:00	2.3	42	2.36	3	11.2	4	436	4	2.7	12	-8	2.44	ICME(+HSS)
2014.01.11	19:00:00	0.8	-2	1.69	8	11.6	40	907	37	3.3	18	-20	5.26	HSS(+ICME)
2014.02.15	13:16:00	3.6	24	1.96	1	16.2	17	450	2	5	48	-31	3.64	ICME
2014.02.27	16:50:00	4.9	23	2.35	15	16.6	3	483	4	5.3	56	-97	4.01	ICME
2014.03.25	20:03:00	1.5	45	1.14	14	8.6	17	516	2	3.7	22	-24	2.22	ICME
2014.03.29	12:00:00	0.4	-3	0.86	28	4.7	7	455	19	2.7	12	-9	1.07	ICME(+HSS)
2014.03.31	12:00:00	0.6	10	1.1	47	6.8	8	450	45	2.7	12	-15	1.53	HSS(+ICME)
2014.04.10	14:00:00	0.3	7	1.04	9	5.1	10	410	0	1	4	-9	1.05	ICME1
2014.04.11	6:00:00	0.9	24	1.17	8	11.5	34	396	64	4.7	39	-87	2.28	ICME2
2014.04.29	20:26:00	1.5	9	1.08	18	9.9	17	309	19	4	27	-67	1.53	ICME1
2014.04.30	16:00:00	0.9	-2	1.52	18	10.4	5	383	30	3.3	18	-56	1.99	ICME2
2014.05.15	20:00:00	1.2	41	0.85	1	7.8	13	353	16	2	7	-7	1.38	ICME
2014.06.22	19:00:00	0.7	1	0.66	5	4	2	396	2	3	15	-15	0.79	ICME1
2014.06.23	23:08:00	0.4	0	0.98	10	7.8	4	361	4	3	15	-9	1.41	ICME2
2014.07.03	0:42:00	0.4	6	0.82	6	7.2	11	347	5	2	7	-15	1.25	ICME1
2014.07.04	10:00:00	0.4	26	0.99	10	4.7	0	327	7	2	7	-8	0.77	ICME2
2014.07.13	9:00:00	1.1	27	2.37	9	11.1	21	358	6	3.3	18	-6	1.99	ICME1
2014.07.14	14:31:00	1.5	10	1.08	7	14.9	8	489	29	3.3	18	-9	3.64	ICME2
2014.07.26	2:00:00	0.6	19	1.04	22	7.5	15	384	12	2	7	-19	1.44	HSS
2014.07.31	2:00:00	0.3	22	0.84	22	5.7	24	340	5	2	7	-2	0.97	ICME(+HSS)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2014.08.01	3:00:00	0.9	46	1.16	6	10.8	10	446	36	3.3	18	-18	2.41	HSS(+ICME)
2014.08.19	6:57:00	1.4	17	1.15	9	20.7	31	419	11	5.3	56	-30	4.34	ICME
2014.11.03	22:00:00	2	47	1.21	48	12.9	16	550	47	4.7	39	-44	3.55	ICME
2015.02.05	4:00:00	0.7	-3	1.02	19	8.5	63	450	31	3.3	18	-15	1.91	ICME
2015.03.11	5:00:00	1.7	32	1	18	9.6	4	429	2	3.3	18	-14	2.06	ICME1
2015.03.13	3:00:00	0.5	0	1.34	4	8.7	12	435	10	3.3	18	-8	1.89	ICME2
2015.03.17	4:45:00	5.6	17	1.9	29	31.5	11	609	8	7.7	179	-223	9.59	ICME1
2015.03.18	13:00:00	1	-2	2.01	1	12.1	-1	683	9	5.3	56	-88	4.13	ICME2
2015.03.21	20:54:00	0.9	17	1.09	1	11.2	4	706	14	6.3	94	-43	3.95	ICME(+HSS)
2015.03.23	4:00:00	1.1	0	1.7	12	8.8	1	643	7	4.3	32	-39	2.83	HSS(+ICME)
2015.03.28	0:00:00	1.2	34	1.56	32	15.4	26	424	20	4	27	-35	3.26	ICME
2015.03.31	8:32:00	2.7	14	2.07	16	15.9	7	434	34	3	15	-4	3.45	ICME(+HSS)
2015.04.02	7:00:00	1.1	13	1.6	24	12.7	23	565	29	4.7	39	-22	3.59	HSS(+ICME)
2015.04.09	2:13:00	1.9	19	1.98	13	13.3	18	385	18	3	15	-7	2.56	ICME1
2015.04.10	0:00:00	1.6	31	1.6	6	19.9	9	448	3	5.3	56	-75	4.46	ICME2
2015.04.22	20:00:00	0.5	3	0.79	5	5.5	4	509	4	3.3	18	-20	1.4	ICME
2015.05.06	1:42:00	2.6	30	1.88	1	17.5	7	479	6	5.3	56	-28	4.19	ICME
2015.05.22	11:00:00	0.7	16	1.49	13	6.3	21	424	2	1.3	5	-4	1.34	ICME(+HSS)
2015.05.23	16:00:00	0.4	-1	1.02	40	5.4	-1	349	36	1.7	6	-7	0.94	HSS(+ICME)
2015.06.12	13:06:00	1.1	32	1.4	35	8.3	9	530	11	4	27	-21	2.2	ICME1
2015.06.14	8:00:00	2.2	17	1.43	4	10.8	7	599	30	4.3	32	-34	3.23	ICME2
2015.07.13	1:38:00	3	20	1.88	13	9.9	6	644	3	5.7	67	-61	3.19	ICME(+HSS)
2015.07.14	22:00:00	0.6	2	1.32	47	10	0	557	4	3	15	-24	2.78	HSS(+ICME)
2015.07.26	16:00:00	1	11	1.02	14	7.2	11	500	16	3	15	-24	1.8	HSS1
2015.07.30	15:37:00	1.3	30	0.87	23	14.7	8	613	67	4.3	32	-29	4.51	HSS2
2015.08.18	21:00:00	0.8	3	1.16	17	8.8	17	517	39	4	27	-50	2.27	HSS
2015.08.21	19:00:00	0.4	8	0.77	23	10.3	18	446	-1	3.3	18	-21	2.3	ICME(+HSS)
2015.08.23	3:00:00	0.6	4	1.13	47	13.2	6	582	16	5.3	56	-43	3.84	HSS(+ICME)
2015.08.25	9:00:00	0.5	6	1.54	2	5.6	10	403	1	2.7	12	-20	1.13	ICME1
2015.08.25	23:00:00	3.5	30	2.04	4	13.4	49	417	1	6.3	94	-92	2.79	ICME2
2015.09.13	7:00:00	0.4	1	0.98	19	7.3	25	483	6	3.7	22	-38	1.76	ICME(+HSS)
2015.09.14	9:00:00	0.8	2	1.2	26	9	2	523	27	4.7	39	-41	2.35	HSS(+ICME)
2015.09.17	12:00:00	1.3	0	0.89	47	9.4	45	462	4	4.7	39	-33	2.17	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2015.10.06	18:00:00	0.9	15	1.27	7	19.1	16	460	14	6	80	-93	4.39	ICME(+HSS)
2015.10.07	15:00:00	1	5	0.98	21	20.4	1	775	7	7.3	154	-124	7.9	HSS(+ICME)
2015.10.12	10:00:00	0.6	35	0.99	-1	8	7	581	21	5	48	-46	2.32	HSS
2015.11.06	18:18:00	3.1	13	2.23	27	19.4	26	677	10	6	80	-89	6.57	ICME
2015.11.13	9:00:00	1	13	1.4	37	9.9	7	482	17	3.7	22	-32	2.39	ICME1
2015.11.15	10:00:00	1.1	18	1.98	37	9.1	8	417	8	3.3	18	-39	1.9	ICME2
2015.11.18	8:00:00	1	20	0.86	10	12.7	14	489	16	5	48	-36	3.11	ICME1
2015.11.20	1:00:00	1	22	1.76	27	9.3	21	409	25	2.3	9	-15	1.9	ICME2
2015.11.26	14:00:00	1.2	18	0.88	20	12.5	39	362	62	3	15	-14	2.26	ICME
2015.12.09	23:00:00	0.6	44	0.89	30	10.4	9	662	39	5	48	-15	3.44	HSS
2016.01.18	21:57:00	2	27	1.48	15	16.9	33	383	17	4.7	39	-93	3.24	ICME
2016.01.24	9:00:00	1.2	-3	1.04	45	7.6	10	502	10	4	27	-13	1.91	ICME
2016.01.26	21:00:00	1.2	32	1.3	24	8.9	15	382	18	2.3	9	3	1.7	ICME(+HSS)
2016.01.28	9:00:00	0.9	14	1.82	42	8.5	1	363	-1	2.3	9	-21	1.54	HSS(+ICME)
2016.01.30	14:00:00	0.7	9	2.18	21	8.7	22	286	18	2.3	9	-23	1.24	ICME1
2016.01.31	15:00:00	1.2	22	1.86	35	10.4	9	316	8	3.7	22	-48	1.64	ICME2
2016.02.06	17:00:00	0.3	3	0.97	1	6.2	19	450	2	3.7	22	-19	1.4	ICME(+HSS)
2016.02.07	22:00:00	0.7	7	0.86	6	10.3	9	451	12	5	48	-39	2.32	HSS(+ICME)
2016.03.05	10:00:00	1.1	22	0.68	15	17.6	28	388	30	5	48	-4	3.41	ICME(+HSS)
2016.03.06	17:00:00	1.8	10	1.05	6	20.1	1	588	20	6.3	94	-98	5.91	HSS(+ICME)
2016.03.26	15:00:00	0.7	20	1.26	9	11.9	19	425	18	3.3	18	-7	2.53	ICME(+HSS)
2016.03.28	1:00:00	0.9	-2	1.18	31	10.8	-1	557	50	3.7	22	-16	3.01	HSS(+ICME)
2016.04.07	12:00:00	1.2	12	1.13	17	12.1	8	390	1	5.7	67	-60	2.36	ICME
2016.04.10	4:00:00	1.2	30	1.84	43	10.1	38	398	18	3	15	-13	2.01	ICME
2016.04.30	4:24:00	1	30	0.65	12	9.1	30	401	24	3	15	-12	1.82	ICME(+HSS)
2016.05.01	13:00:00	0.9	32	1.05	17	11	3	578	42	5.7	67	-37	3.18	HSS(+ICME)
2016.05.26	16:00:00	0.3	6	0.86	3	8.2	16	432	20	2.3	9	-4	1.77	ICME(+HSS)
2016.05.27	13:00:00	1	9	0.78	32	12.5	5	515	19	4	27	-16	3.22	HSS(+ICME)
2016.06.22	4:00:00	2.1	31	1.57	-1	13.1	18	425	24	4.7	39	-10	2.78	ICME1
2016.06.23	14:00:00	0.9	23	1.03	9	9.3	0	529	35	3.7	22	-30	2.46	ICME2
2016.06.30	12:00:00	0.6	19	0.93	17	8.1	5	406	24	3.3	18	-4	1.64	HSS
2016.07.14	21:00:00	0.4	4	0.83	11	7	0	677	7	3	15	-17	2.37	HSS
2016.07.19	23:51:00	2.8	31	2.03	6	27.3	3	576	9	5	48	-23	7.86	ICME

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2016.07.22	15:00:00	0.7	-3	0.87	35	8.7	-1	458	4	3	15	-19	1.99	ICME1
2016.07.24	15:25:00	1	12	1.59	10	11.3	4	456	23	4.7	39	-34	2.58	ICME2
2016.07.28	19:00:00	0.5	9	0.81	11	16.4	10	626	15	4	27	-30	5.13	HSS
2016.08.02	7:00:00	2.3	22	1.51	10	24.6	20	445	12	5	48	-42	5.47	ICME(+HSS)
2016.08.03	8:00:00	0.6	7	1.29	2	17.7	2	607	29	5	48	-52	5.37	HSS(+ICME)
2016.08.05	4:00:00	1.2	42	0.84	15	7.1	5	676	18	4.3	32	-28	2.4	HSS1
2016.08.08	21:00:00	1	34	0.64	12	7.8	2	662	37	3.7	22	-29	2.58	HSS2
2016.08.15	15:00:00	0.5	14	0.53	17	7.3	23	326	0	1.7	6	-6	1.19	ICME1
2016.08.16	19:00:00	1.3	32	1.72	40	9.4	3	412	30	3.3	18	-24	1.94	ICME2
2016.10.04	10:00:00	0.6	-2	0.63	11	9.7	3	552	2	4	27	-44	2.68	HSS
2016.10.10	12:00:00	1.4	45	1.91	42	7.2	4	411	22	3	15	-19	1.48	ICME
2016.10.12	22:12:00	1.8	21	3.01	2	24.1	25	440	5	6.3	94	-104	5.3	ICME(+HSS)
2016.10.14	17:00:00	1.5	13	1.96	6	14	-1	545	30	3	15	-31	3.82	HSS(+ICME)
2016.11.20	11:00:00	0.4	26	0.43	15	6.8	2	360	11	1.7	6	-5	1.22	ICME(+HSS)
2016.11.21	17:00:00	2.8	33	0.96	8	12.6	22	499	35	4.3	32	-28	3.14	HSS(+ICME)
2016.11.24	5:00:00	0.8	23	0.93	24	10.9	8	670	53	5.3	56	-46	3.65	HSS1
2016.11.28	18:00:00	0.7	6	0.45	21	6.3	5	472	7	2.7	12	-18	1.49	HSS2
2017.01.03	3:00:00	0.5	-3	1.51	1	10.5	7	523	14	3.7	22	-27	2.75	HSS1
2017.01.04	5:00:00	1.6	42	1.47	42	13.9	2	744	48	4	27	-33	5.17	HSS2
2017.01.17	15:00:00	1.2	10	1.27	6	15.9	19	611	43	3.7	22	-33	4.86	HSS
2017.01.24	23:00:00	0.6	28	0.67	17	7.3	4	352	4	3	15	-10	1.28	ICME(+HSS)
2017.01.26	8:15:00	0.8	19	0.84	31	14.1	17	636	23	4.3	32	-28	4.48	HSS(+ICME)
2017.01.30	3:00:00	0.4	-3	0.86	7	8.9	13	539	17	2.7	12	-8	2.4	ICME(+HSS)
2017.01.31	3:00:00	1.3	44	1.08	8	16.8	10	753	18	5	48	-45	6.33	HSS(+ICME)
2017.02.05	4:00:00	0.6	8	0.95	11	7.6	6	640	14	3.7	22	-23	2.43	HSS
2017.02.15	21:00:00	0.5	3	1.53	2	9.8	14	385	20	3.3	18	-10	1.89	ICME(+HSS)
2017.02.16	19:00:00	1.2	29	1.13	19	10.2	8	586	58	4.3	32	-27	2.99	HSS(+ICME)
2017.02.21	12:00:00	0.6	8	0.65	13	7.8	27	441	18	3.7	22	-21	1.72	ICME(+HSS)
2017.02.22	19:00:00	1.1	36	1.04	35	11	32	649	38	4.7	39	-26	3.57	HSS(+ICME)
2017.02.27	10:00:00	0.3	3	0.82	15	8.5	24	411	24	3	15	-20	1.75	ICME(+HSS)
2017.02.28	19:00:00	1.7	18	1.14	18	17.4	18	714	43	5.7	67	-61	6.21	HSS(+ICME)
2017.03.08	4:00:00	0.6	23	0.52	41	6.3	51	555	21	3.7	22	-32	1.75	HSS1
2017.03.11	17:00:00	0.6	27	0.71	28	6.9	9	418	8	3.7	22	-22	1.44	HSS2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2017.03.15	0:00:00	0.8	25	1.05	8	9	14	408	27	3	15	-18	1.84	HSS1
2017.03.18	23:00:00	0.4	5	0.7	13	4.8	40	323	13	1	4	-3	0.78	HSS2
2017.03.20	23:00:00	1.3	30	1.08	20	15	10	687	41	5.3	56	-35	5.15	HSS
2017.03.25	17:00:00	0.5	-1	0.83	33	6.8	34	464	1	2.3	9	-10	1.58	ICME(+HSS)
2017.03.27	3:45:00	1	7	1.05	32	15.3	6	708	30	6.3	94	-74	5.42	HSS(+ICME)
2017.04.04	2:00:00	1.5	14	0.92	16	16.2	10	440	17	4.7	39	-44	3.56	ICME(+HSS)
2017.04.05	15:00:00	0.6	11	0.71	0	10.4	4	497	10	3.3	18	-17	2.58	HSS(+ICME)
2017.04.13	17:00:00	0.8	11	0.57	11	7.9	14	446	7	3.3	18	-25	1.76	ICME
2017.05.18	2:00:00	0.7	3	1.53	10	9.4	7	449	-1	3.7	22	-28	2.11	ICME(+HSS)
2017.05.19	3:00:00	1	39	1.06	35	12.4	28	733	32	4.3	32	-39	4.54	HSS(+ICME)
2017.05.27	15:34:00	2.9	15	1.25	48	22.8	9	401	9	7	132	-125	4.57	ICME
2017.06.03	8:00:00	0.6	11	0.72	17	12.1	6	480	13	3.7	22	-26	2.9	HSS
2017.06.16	3:00:00	1.1	26	0.85	17	13.7	8	623	17	5	48	-31	4.27	HSS1
2017.06.17	12:00:00	0.8	13	0.89	23	8.3	5	594	26	4	27	-26	2.47	HSS2
2017.07.20	9:00:00	1.9	45	1.01	5	10.3	9	715	28	4.3	32	-33	3.68	HSS1
2017.07.23	13:00:00	0.7	32	1.11	20	7.9	0	702	34	4	27	-29	2.77	HSS2
2017.08.03	11:00:00	0.8	13	0.87	4	18.6	17	711	29	4.3	32	-30	6.61	HSS
2017.08.11	3:00:00	0.8	35	1.09	40	11.6	30	602	66	3.3	18	-9	3.49	HSS
2017.08.15	19:00:00	0.3	2	0.55	-1	5.6	14	386	-1	1.3	5	-1	1.08	ICME(+HSS)
2017.08.16	10:00:00	2	36	1.22	46	12.5	24	736	77	4.7	39	-24	4.6	HSS(+ICME)
2017.09.06	23:43:00	1.8	3	1.43	10	14.4	3	581	5	3.7	22	-3	4.18	ICME1
2017.09.07	23:00:00	7.7	13	3.29	10	27.3	2	817	10	8.3	236	-124	11.15	ICME2
2017.09.24	22:00:00	0.6	12	1.34	21	9.7	2	397	11	2.7	12	3	1.93	HSS1
2017.09.27	1:00:00	1.4	24	1.38	28	14.2	13	697	34	6.7	111	-55	4.95	HSS2
2017.10.05	1:00:00	0.9	46	1.24	48	8.8	18	448	34	3.3	18	-25	1.97	HSS1
2017.10.07	7:00:00	0.6	25	1.41	9	7.4	16	441	18	2	7	-9	1.63	HSS2
2017.10.09	19:00:00	0.3	-3	0.94	-1	4.2	26	352	-1	0.3	2	2	0.74	ICME(+HSS)
2017.10.10	22:00:00	0.9	45	0.83	18	11.6	25	559	42	5	48	-41	3.24	HSS(+ICME)
2017.10.13	13:00:00	0.8	8	1.1	46	8.9	4	713	17	5.7	67	-52	3.17	HSS
2017.10.19	4:00:00	0.5	38	0.77	24	9.6	13	470	19	3.7	22	-28	2.26	HSS
2017.10.24	8:00:00	1.1	19	0.85	31	13.4	5	614	29	4.7	39	-28	4.11	HSS
2017.11.01	10:00:00	1.9	37	1.17	25	12.6	27	422	76	3.3	18	-24	2.66	HSS
2017.11.07	4:00:00	1.5	46	0.9	-1	16.1	15	655	22	6.3	94	-74	5.27	HSS1

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2017.11.10	3:00:00	0.7	3	0.82	4	7.7	2	686	12	4	27	-46	2.64	HSS2
2017.11.14	2:00:00	0.9	21	0.75	1	8.6	9	404	21	3	15	-30	1.74	ICME(+HSS)
2017.11.15	10:00:00	0.9	22	0.93	31	14.2	8	504	18	4.3	32	-26	3.58	HSS(+ICME)
2017.11.18	20:00:00	0.5	-2	0.71	39	4.1	1	393	4	2.3	9	-9	0.81	ICME(+HSS)
2017.11.20	15:00:00	1.3	18	0.87	24	13.1	13	611	26	5	48	-43	4	HSS(+ICME)
2017.11.27	14:42:00	1	47	1.09	47	9.1	-1	480	2	3.3	18	-19	2.18	HSS
2017.12.04	16:13:00	1.5	41	1.05	43	12.2	2	622	37	5	48	-45	3.79	HSS
2017.12.11	3:00:00	0.8	46	0.91	33	10.9	15	517	30	4	27	-29	2.82	HSS1
2017.12.14	1:00:00	0.5	14	0.92	7	6.6	2	437	1	2.7	12	-7	1.44	HSS2
2017.12.16	22:00:00	0.5	14	0.84	33	11.7	13	643	19	4.7	39	-24	3.76	HSS
2017.12.31	16:00:00	0.9	10	0.88	35	11	13	472	25	3.7	22	-20	2.6	HSS
2018.01.12	6:00:00	0.5	19	0.94	0	5.8	13	347	2	1.3	5	-6	1.01	ICME(+HSS)
2018.01.13	8:00:00	0.9	-1	0.95	13	12	14	584	17	4.7	39	-21	3.5	HSS(+ICME)
2018.01.15	1:00:00	0.6	4	1.09	25	6.6	1	509	6	3.7	22	-19	1.68	HSS
2018.01.23	11:00:00	0.5	22	0.52	25	5.6	26	469	1	3	15	-12	1.31	ICME(+HSS)
2018.01.24	14:00:00	0.7	20	0.92	5	10.1	16	423	26	4	27	-23	2.14	HSS(+ICME)
2018.01.31	8:00:00	0.6	35	0.59	4	8.6	5	420	16	2.7	12	-16	1.81	HSS
2018.02.04	13:00:00	0.5	22	1.21	15	8.5	6	439	54	3	15	-14	1.87	HSS
2018.02.08	1:00:00	0.3	1	1.02	37	6.5	28	383	2	2.7	12	-7	1.24	ICME
2018.02.10	5:00:00	0.5	2	0.81	4	9.8	4	382	20	2.3	9	-11	1.87	ICME
2018.02.21	1:00:00	0.8	38	0.69	38	7.1	38	416	40	2.7	12	-15	1.48	ICME(+HSS)
2018.02.22	18:00:00	1.3	32	0.79	14	9.2	13	547	17	4.3	32	-31	2.52	HSS(+ICME)
2018.02.26	22:00:00	0.6	13	0.75	12	9.6	14	551	19	5.3	56	-30	2.64	HSS
2018.03.14	16:00:00	0.4	6	0.75	36	9.8	8	489	31	4.3	32	-35	2.4	HSS
2018.03.24	9:00:00	0.6	12	0.97	28	8.6	10	530	48	4	27	-27	2.28	HSS1
2018.03.26	23:00:00	0.6	-1	1.04	3	6.2	5	541	10	3	15	-19	1.68	HSS2
2018.03.29	16:00:00	0.4	30	0.88	26	7.7	2	428	9	2.7	12	-5	1.65	HSS1
2018.03.31	2:00:00	0.7	19	0.92	4	6.5	0	460	42	2.7	12	-6	1.5	HSS2
2018.04.09	6:00:00	0.7	27	1.01	30	8.5	24	587	35	4.3	32	-30	2.49	HSS
2018.04.27	13:00:00	0.3	11	0.81	10	7.8	3	385	13	2.7	12	-3	1.5	HSS1
2018.04.30	1:00:00	0.6	21	1.26	18	6.3	5	403	24	2	7	-7	1.27	HSS2
2018.05.05	10:25:00	1	14	0.87	12	15.9	6	669	27	5.7	67	-56	5.32	HSS
2018.05.15	18:00:00	0.2	-2	0.52	9	5.2	24	361	1	1.3	5	-13	0.94	ICME1

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2018.05.16	19:00:00	1.5	27	0.72	2	9.6	17	448	46	3	15	-32	2.15	ICME2
2018.05.22	12:18:00	0.6	22	0.88	40	10.3	20	520	31	3.3	18	-8	2.68	HSS
2018.05.27	21:00:00	0.6	7	0.83	10	7	36	393	8	1.7	6	-4	1.38	HSS
2018.05.31	14:46:00	1	42	0.93	47	12.9	4	707	76	4.7	39	-39	4.56	HSS
2018.06.17	15:00:00	1.1	29	1.29	19	19.8	12	526	24	4	27	-35	5.21	HSS
2018.06.25	6:00:00	0.6	14	0.83	22	9	16	443	0	5	48	-48	1.99	ICME(+HSS)
2018.06.26	7:00:00	0.8	11	1.18	44	11.5	5	626	18	3.7	22	-40	3.6	HSS(+ICME)
2018.07.03	15:00:00	0.4	5	0.96	24	7	11	355	45	2.3	9	1	1.24	HSS
2018.07.10	1:00:00	1.1	37	0.89	39	11.1	14	396	9	2.7	12	0	2.2	ICME(+HSS)
2018.07.11	22:00:00	0.5	24	0.61	7	9.4	1	491	53	2.7	12	-5	2.31	HSS(+ICME)
2018.07.16	6:00:00	0.4	10	0.77	2	9.9	4	350	3	2.7	12	-14	1.73	ICME(+HSS)
2018.07.16	20:00:00	0.8	6	0.62	9	14.3	4	440	23	3	15	-23	3.15	HSS(+ICME)
2018.07.24	6:00:00	0.7	14	1.54	35	13	1	587	10	4	27	-18	3.82	HSS
2018.08.07	13:00:00	0.4	37	0.65	25	7.8	1	439	30	3	15	-11	1.71	HSS
2018.08.14	23:00:00	1.1	26	0.61	28	9.5	37	543	71	4	27	-34	2.58	HSS
2018.08.25	2:00:00	1.5	27	2.87	23	18.2	32	444	13	7.3	154	-174	4.04	ICME(+HSS)
2018.08.26	15:00:00	0.6	15	1.16	22	15.1	2	619	27	6	80	-86	4.67	HSS(+ICME)
2018.08.29	23:00:00	0.3	2	0.61	19	5.3	31	473	0	1.7	6	-33	1.25	ICME(+HSS)
2018.08.31	7:00:00	0.5	6	0.58	4	7.9	11	395	17	2.3	9	-23	1.56	HSS(+ICME)
2018.09.06	23:00:00	0.6	17	0.59	3	10.5	8	488	14	2.3	9	-7	2.56	HSS
2018.09.10	16:00:00	1.2	21	0.96	16	14.2	9	570	15	6	80	-60	4.05	HSS
2018.09.14	15:00:00	0.6	5	0.67	6	5.1	1	688	9	3	15	-22	1.75	ICME
2018.09.17	2:00:00	0.8	46	1.57	22	10.8	2	561	7	3.3	18	-15	3.03	HSS
2018.10.03	20:00:00	0.7	9	0.88	8	7.7	1	508	6	3	15	-9	1.96	HSS1
2018.10.07	8:00:00	1.5	14	0.71	47	16.6	6	614	53	5.3	56	-53	5.1	HSS2
2018.10.13	5:00:00	1	41	1.17	46	11.3	15	616	58	4.3	32	-38	3.48	HSS
2018.10.26	3:00:00	0.5	23	0.85	3	7.4	8	421	28	2.3	9	-13	1.56	HSS
2018.11.04	7:00:00	1.4	35	0.85	34	11.2	14	611	24	5.7	67	-53	3.42	HSS
2018.11.09	13:00:00	1.1	37	0.86	39	12.8	12	637	65	4.3	32	-42	4.08	HSS
2018.11.27	5:00:00	0.3	41	0.91	2	7.5	17	427	25	2.3	9	-4	1.6	HSS
2018.12.01	3:00:00	0.5	40	0.93	0	9.5	16	450	41	3.7	22	-15	2.14	HSS
2018.12.07	5:00:00	0.9	40	1.44	32	9.6	3	595	45	3.3	18	-21	2.86	HSS1
2018.12.09	11:00:00	0.5	8	0.97	0	10.1	1	661	15	3.7	22	-15	3.34	HSS2

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2018.12.16	21:00:00	0.6	23	0.91	23	10.6	11	447	54	2.7	12	-16	2.37	HSS1
2018.12.19	7:00:00	0.5	28	0.93	26	8.5	5	638	27	3	15	-14	2.71	HSS2
2018.12.27	23:00:00	0.4	22	0.66	43	12.1	8	604	23	4.3	32	-22	3.65	HSS
2019.01.04	12:00:00	1.4	40	1.01	19	11.4	17	554	54	5	48	-23	3.16	HSS
2019.01.13	1:00:00	0.4	10	0.84	-1	3.4	7	366	1	1	4	-4	0.62	ICME(+HSS)
2019.01.13	23:00:00	0.5	2	1.06	12	10.2	3	403	10	2.7	12	-2	2.06	HSS(+ICME)
2019.01.15	11:00:00	0.4	15	1.06	24	7.7	1	417	12	1.7	6	-7	1.61	HSS1
2019.01.16	19:00:00	0.4	-2	1.1	26	9.9	20	503	24	2.7	12	-20	2.49	HSS2
2019.01.22	15:00:00	1.1	45	0.82	41	9.3	58	634	50	4	27	-17	2.95	HSS
2019.01.31	5:00:00	0.6	-1	0.73	8	15	10	404	12	3.3	18	-8	3.03	ICME(+HSS)
2019.01.31	18:00:00	0.9	30	1.08	26	15.7	2	627	17	5.3	56	-34	4.92	HSS(+ICME)
2019.02.27	8:00:00	1.1	46	0.82	26	11.6	16	595	61	4.7	39	-41	3.45	HSS
2019.03.11	11:00:00	1.1	45	0.66	7	9.2	21	396	21	2.7	12	-24	1.82	ICME
2019.03.13	19:00:00	0.3	-3	0.78	26	6.4	30	363	1	3	15	-11	1.16	ICME(+HSS)
2019.03.15	2:00:00	0.5	21	0.83	36	7.5	5	443	37	3	15	-24	1.66	HSS(+ICME)
2019.03.19	4:00:00	0.5	12	1.07	39	7.1	13	410	28	2.7	12	-13	1.46	HSS
2019.03.31	3:00:00	0.7	19	1.2	28	7.2	75	421	30	3.7	22	-28	1.52	HSS1
2019.04.03	13:00:00	0.7	24	0.98	15	9.4	23	527	62	3.7	22	-33	2.48	HSS2
2019.04.07	18:00:00	0.8	11	0.93	5	8.6	12	458	20	3.3	18	-27	1.97	HSS
2019.04.23	18:00:00	0.3	9	0.47	-1	10.4	3	425	10	3.3	18	-15	2.21	HSS1
2019.04.24	22:00:00	0.4	42	0.73	8	6.9	8	418	21	1.7	6	-8	1.44	HSS2
2019.05.09	6:00:00	0.5	21	0.62	34	7.1	6	379	15	2.3	9	-8	1.35	HSS
2019.05.14	0:00:00	0.9	7	1.18	24	14.3	7	556	9	6.3	94	-65	3.98	ICME1
2019.05.15	18:00:00	1	40	1.1	4	9.8	3	480	32	3	15	-10	2.35	ICME2
2019.05.19	19:00:00	0.6	17	0.98	6	8.2	12	414	42	3.3	18	-10	1.7	ICME
2019.05.26	22:14:00	1.1	14	0.94	16	11.8	12	372	10	3.3	18	-16	2.19	ICME(+HSS)
2019.05.28	15:00:00	0.5	27	0.73	47	8.2	2	562	30	3.7	22	-28	2.3	HSS(+ICME)
2019.06.12	6:00:00	0.7	25	1.08	19	7.4	21	447	25	2.3	9	-1	1.65	ICME(+HSS)
2019.06.13	15:00:00	0.8	12	0.82	13	7.8	6	477	8	4	27	-12	1.86	HSS(+ICME)
2019.06.25	20:00:00	0.6	37	0.66	37	6	11	402	23	1.7	6	-6	1.21	HSS
2019.07.04	18:00:00	0.4	11	0.7	5	7.1	10	441	22	2.3	9	-6	1.57	HSS
2019.07.19	21:00:00	0.3	15	0.75	35	5.1	34	349	37	1.7	6	-4	0.89	ICME(+HSS)
2019.07.21	18:00:00	0.5	17	0.69	23	9.3	10	424	53	3.7	22	-18	1.97	HSS(+ICME)

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2019.07.30	11:00:00	1	32	0.9	35	10.7	13	553	44	3.3	18	-6	2.96	HSS
2019.08.11	15:00:00	0.2	-3	0.8	13	6	2	462	1	2.3	9	-16	1.39	ICME(+HSS)
2019.08.12	6:00:00	0.6	26	0.74	13	6.8	21	491	37	2	7	-18	1.67	HSS(+ICME)
2019.08.25	10:00:00	0.4	10	0.67	3	5.5	15	331	24	2	7	-7	0.91	ICME(+HSS)
2019.08.26	18:00:00	0.8	25	0.93	12	9.6	9	514	17	3	15	-16	2.47	HSS(+ICME)
2019.08.30	6:00:00	1.2	35	0.85	29	10.5	10	752	45	5.7	67	-52	3.95	HSS1
2019.09.01	13:00:00	0.8	10	1	36	7.5	3	728	11	5.3	56	-51	2.73	HSS2
2019.09.24	9:00:00	0.4	1	0.94	1	14.7	9	499	15	3.7	22	-24	3.67	HSS
2019.09.26	16:00:00	0.4	3	0.89	13	2.8	-1	386	-1	1.3	5	-3	0.54	ICME(+HSS)
2019.09.27	7:00:00	0.8	20	0.95	24	13	7	695	18	5.3	56	-49	4.52	HSS(+ICME)
2019.10.12	19:00:00	0.6	40	1.3	16	5.2	42	382	0	1.7	6	-9	0.99	ICME(+HSS)
2019.10.14	14:00:00	0.8	29	1.29	16	8	9	427	64	2.3	9	-9	1.71	HSS(+ICME)
2019.10.23	12:00:00	0.4	17	0.86	11	4	19	355	19	1.3	5	1	0.71	ICME(+HSS)
2019.10.24	8:00:00	0.8	29	0.8	25	11.7	8	650	33	5.3	56	-46	3.8	HSS(+ICME)
2019.10.26	5:00:00	0.6	32	0.76	28	8.2	8	650	13	4.7	39	-41	2.66	HSS
2019.11.02	22:00:00	0.4	5	1.32	6	6.4	4	349	-1	1	4	-4	1.12	ICME(+HSS)
2019.11.04	7:00:00	0.6	2	0.69	16	7.3	8	416	30	2	7	-13	1.52	HSS(+ICME)
2019.11.10	6:00:00	0.4	11	0.73	4	4.5	8	319	5	1.3	5	-8	0.72	ICME1
2019.11.10	21:00:00	1	47	1.15	44	12.2	25	374	18	2.7	12	-23	2.28	ICME2
2020.01.28	19:00:00	0.7	35	0.8	20	8	4	456	13	3.3	18	-20	1.82	ICME(+HSS)
2020.01.30	17:00:00	0.6	5	0.71	9	7.3	8	517	24	3.7	22	-23	1.89	HSS(+ICME)
2020.02.06	3:00:00	0.9	16	0.8	38	9.5	6	639	25	4	27	-21	3.04	HSS
2020.02.17	19:00:00	0.9	25	1.25	13	12.2	20	395	20	3.7	22	-52	2.41	ICME(+HSS)
2020.02.19	1:00:00	0.6	8	1.39	3	9.8	0	498	10	4	27	-33	2.44	HSS(+ICME)
2020.03.30	13:00:00	0.8	9	0.89	4	7	19	531	27	4	27	-41	1.86	HSS
2020.04.11	14:00:00	0.5	19	0.47	16	7.5	67	448	20	3.3	18	-21	1.68	HSS
2020.04.20	2:33:00	0.9	10	0.96	18	15.9	13	371	7	4.7	39	-59	2.95	ICME(+HSS)
2020.04.21	8:00:00	0.6	10	1.06	9	11	-1	490	19	3.3	18	-28	2.7	HSS(+ICME)
2020.04.29	8:00:00	0.8	23	0.79	7	4.1	35	360	8	1	4	-6	0.74	ICME1
2020.04.30	20:00:00	1	44	0.66	32	7.2	16	340	48	2	7	-20	1.22	ICME2
2020.05.03	19:00:00	0.4	5	0.7	1	8.5	4	335	30	2.7	12	-12	1.42	ICME(+HSS)
2020.05.05	13:00:00	0.4	29	0.59	2	7.5	12	347	70	3.3	18	-25	1.3	HSS(+ICME)
2020.05.10	16:00:00	0.6	-1	0.65	15	5.5	6	348	15	2.3	9	-15	0.96	HSS

Date	Time	*AF*, %	t_{min}, h	Axy_{max}, %	t_{Axymax}, h	B_{max}, nT	t_{Bmax}, h	V_{max}, km/s	t_{Vmax}, h	Kp_{max}	Ap_{max}	Dst_{min}, nT	*VmBm*	Type of interplanetary disturbance
2020.06.13	2:00:00	1.2	42	0.69	0	5.5	81	338	10	1.3	5	-5	0.93	ICME
2020.06.26	18:00:00	0.3	0	0.56	5	8.5	4	338	5	2.7	12	-8	1.44	ICME(+HSS)
2020.06.27	11:00:00	0.6	29	0.65	9	9	1	422	9	2.3	9	-14	1.9	HSS(+ICME)
2020.06.30	3:00:00	0.7	10	0.76	-1	5.9	21	373	2	1.7	6	-34	1.1	ICME1
2020.07.01	1:00:00	0.8	28	0.93	0	9	79	433	81	2.3	9	-12	1.95	ICME2
2020.07.04	16:00:00	0.5	20	0.78	16	9.6	10	514	20	3.3	18	-16	2.47	HSS1
2020.07.05	22:00:00	0.4	24	0.74	2	6.3	1	516	6	2.7	12	-13	1.63	HSS2
2020.08.02	5:00:00	0.8	39	0.95	25	10.9	8	701	47	3.3	18	-22	3.82	HSS1
2020.08.05	22:00:00	0.5	3	0.5	26	4.8	38	495	17	2.3	9	-7	1.19	HSS2
2020.08.21	7:00:00	0.7	39	0.73	24	7.4	28	358	44	2.3	9	-37	1.32	ICME(+HSS)
2020.08.23	4:00:00	0.4	5	0.77	3	7.8	11	403	24	2.7	12	-36	1.57	HSS(+ICME)
2020.10.05	9:00:00	1.1	10	1.68	18	10.6	19	366	8	4.3	32	-40	1.94	ICME(+HSS)
2020.10.07	7:00:00	0.6	30	1.22	22	9.5	8	396	18	2.3	9	-13	1.88	HSS(+ICME)
2020.10.12	12:00:00	0.6	39	0.91	31	7.7	15	309	28	1.3	5	-2	1.19	ICME
2020.10.15	18:00:00	0.6	-2	0.93	7	8.7	44	347	81	2	7	-16	1.51	ICME
2020.10.30	22:00:00	0.7	10	0.85	11	6.2	13	414	11	2.3	9	-35	1.28	ICME1
2020.11.01	11:00:00	0.5	5	0.75	33	8.6	18	397	0	3	15	-28	1.71	ICME2
2020.11.05	18:00:00	1.1	39	1.23	26	9.5	11	502	16	2.7	12	-9	2.38	HSS
2020.11.08	14:00:00	0.7	-3	1.47	17	5.2	4	448	6	1.3	5	-8	1.16	ICME1
2020.11.09	19:00:00	0.4	3	0.82	7	5.4	4	351	8	0.3	2	0	0.95	ICME2
2020.11.21	12:00:00	0.7	31	1.1	16	10.6	11	635	31	4.7	39	-38	3.37	HSS
2020.11.28	20:00:00	0.4	21	0.79	1	7.9	10	423	2	3	15	-10	1.67	ICME(+HSS)
2020.11.30	6:00:00	0.6	47	0.84	29	8.5	3	503	6	3.3	18	-13	2.14	HSS(+ICME)
2020.12.05	7:00:00	0.6	5	0.79	14	7.2	4	402	7	2.7	12	-4	1.45	ICME
2020.12.09	3:00:00	0.4	17	0.74	7	9	13	439	22	3.3	18	-8	1.98	HSS
2020.12.10	2:00:00	1	27	1.61	11	12.2	2	568	2	3.3	18	-10	3.46	HSS
2020.12.16	22:00:00	0.6	40	0.88	46	6.5	2	298	58	0.7	3	-1	0.97	ICME
2020.12.29	18:00:00	0.6	16	0.98	17	6.8	3	509	20	2.7	12	-15	1.73	HSS