

Tables from Ontiveros & Vourlidas (2008, ApJ, submitted)

Table 1. All high speed CMEs ($V > 1500 \text{ km s}^{-1}$) between 1997-1999

Event	CME date (yyymmdd)	1st appearance (C2 UT)	linear speed (km s^{-1})	AW (deg)	PA (deg)	Type II (DH)
1	971106	12:10:00	1556	360	262	yes
2	980331	6:12:00	1992	360	177	no
3	980420	10:07:00	1863	165	278	yes
4	980423	5:27:00	1618	360	116	yes
5	980509	3:35:58	2331	178	262	yes
6	980604	2:04:00	1802	360	314	no
7	981124	2:30:00	1798	360	226	no
8	981126	6:18:05	1505	360	198	no
9	981218	18:21:00	1749	360	36	yes
10	990503	6:06:00	1584	360	88	yes
11	990527	11:06:00	1691	360	341	yes
12	990601	19:37:00	1772	360	359	yes
13	990604	7:26:54	2230	150	289	yes
14	990611	11:26:00	1569	181	38	yes
15	990911	21:54:00	1680	120	13	no

	Image	Density Profile
Group 1	Well-defined front	Clear density jump
Group 2	Well-defined front	Unclear density jump
Group 3	Indication of front	No measurable jump
Group 4	No front	No jump

Table 2. Results

event	group	shock time (UT)	shock height ($R_{\odot}$)	shock PA (deg)	γ	mass ($\text{gr} \times 10^{15}$)	kinetic energy ($\text{erg} \times 10^{31}$)	momentum ($\text{gr cm s}^{-1} \times 10^{18}$)
1	1	12:41:05	7.9	321	1.6	5.48	6.63	8.52
2	1	7:29:37	19.6	158	2.4	15.74	31.23	31.35
3	3	12:42:05	23.7	233	...	23.52	40.82	43.82
4	1	5:55:22	4.4	114	1.2	5.51	7.21	8.91
5	4	...	...	...	...	...	...	...
6	2	3:41:14	9.8	302	1.4	5.3	8.6	9.55
7	1	4:42:05	11.7	201	2.8	14.62	22.23	25.5
8	1	6:18:05	9	217	1.6	10.98	13.21	17.03
9	1	19:41:42	13.6	73	1.8	7.43	11.32	12.97
10	2	8:18:05	6	75	2.2	10.44	13.1	16.54
11	2	13:38:17	4.4	298	1.7	3.7	5.28	6.25
12	2	21:18:07	11.8	1	1.8	11.09	17.41	19.65
13	4	...	...	...	...	...	...	...
14	2	14:18:05	10.4	19	1.9	11.42	14.06	17.92
15	3	23:42:05	17.9	14	...	2.6	3.67	4.37