

SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

<http://cdaw.gsfc.nasa.gov/>

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
JANUARY 2004

First C2 Appearance		Central Width				Linear Fit ----2nd order speed----			Accel	Measurement	
Date	Time UT	Position Angle degree	Angular Width degree	Linear Fit Speed km/s	Initial km/s	Final km/s	20R km/s	m/s ²	Position Angle degree	Remarks	
2004/01/01	20:40:05	277	38	748	851	648	0	-32.9	278		
2004/01/02	10:20:06	283	7	513	522	505	466	-2.3	283	Only 3 points	
2004/01/02	13:00:05	111	54	757	576	965	912	22.0	95		
2004/01/02	16:20:05	105	74	924	776	1074	987	23.8	80	Only C3	
2004/01/03	09:25:06	208	60	158	209	106	0	-2.4	220	Only C3	
2004/01/04	01:40:07	241	52	----	----	----	----	-----	258	Only 1 points/C3	
2004/01/04	11:20:05	290	10	716	775	658	0	-30.3	290		
2004/01/05	09:40:05	124	46	795	885	709	0	-39.8	117		
2004/01/05	18:00:06	105	80	550	550	550	550	-0.0	93		
2004/01/05	21:17:49	122	51	1233	1412	1048	0	-172.6	115		
2004/01/06	08:53:06	298	33	673	----	----	----	-----	298	Only 2 points/C3	
2004/01/06	08:53:06	88	166	1469	----	----	----	-----	88	Only 2 points, Only C3, Partial Halo	
2004/01/06	20:00:05	292	12	644	761	528	0	-46.7	295		
2004/01/07	02:30:05	274	15	594	295	894	2228	208.1	271	Only 3 points	
2004/01/07	04:06:07	78	171	1581	1861	1293	1427	-60.4	116	Partial Halo	
2004/01/07	05:54:05	242	13	709	722	697	574	-8.3	245		
2004/01/07	10:30:29	81	182	1822	2153	1472	1638	-85.0	81	Partial Halo	
2004/01/07	16:54:05	169	132	428	313	549	548	8.8	197	Partial Halo	
2004/01/07	19:54:05	70	10	459	404	513	604	8.7	63		
2004/01/08	05:06:05	83	144	1713	1781	1643	1680	-14.6	113	Partial Halo	
2004/01/08	14:54:05	97	127	147	0	344	505	11.3	63	Partial Halo	
2004/01/08	17:06:05	60	15	676	802	558	385	-21.2	63		
2004/01/09	02:06:05	135	51	1217	1146	1292	1276	12.9	126		
2004/01/09	05:30:07	71	10	504	602	406	0	-19.5	67		
2004/01/10	05:30:05	77	38	307	419	195	0	-14.5	80		
2004/01/10	22:30:29	70	42	431	461	401	415	-1.6	74		
2004/01/11	11:30:05	296	14	645	476	800	960	30.6	303		
2004/01/11	18:30:05	92	25	458	508	411	0	-23.0	86		
2004/01/11	20:30:05	152	150	406	366	452	427	2.0	125	Partial Halo	
2004/01/12	06:30:05	75	26	510	483	534	757	13.9	79	Only 3 points/C2	
2004/01/12	12:54:30	234	5	----	----	----	----	-----	235	Unable to measure	
2004/01/12	13:31:38	331	96	187	0	443	538	12.3	347		
2004/01/12	15:30:05	109	82	244	207	280	352	3.3	102		
2004/01/12	23:06:05	84	43	566	----	----	----	-----	80	Only 3 points	
2004/01/13	06:54:05	105	24	657	704	612	593	-7.0	111		
2004/01/13	11:30:05	177	88	538	364	735	819	22.6	185		
2004/01/14	08:06:05	87	35	272	254	288	410	4.2	97		
2004/01/15	03:30:05	49	6	----	----	----	----	-----	51	Only 1 points/C2	
2004/01/15	07:31:44	139	83	506	455	562	558	4.6	122		
2004/01/15	08:06:05	234	5	651	758	541	0	-26.5	237		
2004/01/15	11:06:05	265	24	376	516	239	0	-29.5	265		

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Date	Time UT	Position Angle degree	Angular Width degree	Linear Fit Speed km/s	Initial km/s	Final km/s	20R km/s	m/s ²	Position Angle degree		
2004/01/15	18:06:05	47	4	775	1139	375	0	-353.5	49	Only 3 points	
2004/01/16	04:30:05	56	24	352	379	324	209	-4.1	55		
2004/01/16	05:06:06	239	119	587	463	717	702	11.5	258		
2004/01/16	16:30:05	208	86	107	72	144	178	1.2	204		
2004/01/17	09:06:19	276	29	184	288	84	0	-38.5	283	Only C2	
2004/01/17	10:34:02	264	67	339	63	645	2608	299.0	265	Only 3 points/C2	
2004/01/17	17:06:05	187	113	477	451	505	522	3.0	207		
2004/01/18	03:54:05	77	58	462	397	529	816	20.9	92		
2004/01/18	11:54:05	252	44	536	639	428	367	-11.3	242		
2004/01/18	19:31:48	268	10	913	----	----	----	-----	271	Only 3 points	
2004/01/18	19:54:05	268	40	1394	1392	1396	1395	0.4	258		
2004/01/19	01:31:44	89	10	322	393	254	0	-22.1	94		
2004/01/19	19:31:43	279	52	160	228	96	0	-28.6	274	Only C2	
2004/01/20	00:06:05	Halo	360	965	859	1074	1072	17.2	224		
2004/01/20	08:30:05	186	96	590	----	----	----	-----	193	Only 2 points/C2	
2004/01/20	12:30:05	275	18	510	747	294	0	-104.7	273	Only 3 points	
2004/01/20	13:54:06	95	5	321	337	304	0	-4.9	96		
2004/01/20	18:54:26	265	34	510	----	----	----	-----	252	Only 2 points/C2	
2004/01/20	19:54:06	266	56	656	743	570	471	-13.9	253		
2004/01/20	23:54:05	267	53	502	599	394	292	-11.6	260		
2004/01/21	00:54:07	85	11	436	323	549	1066	44.4	81		
2004/01/21	04:54:05	Halo	360	762	856	667	650	-13.7	78		
2004/01/21	12:30:05	129	111	727	556	906	843	16.4	137		
2004/01/21	15:30:05	91	10	597	547	645	776	12.7	90		
2004/01/21	21:54:05	295	60	705	353	1094	980	34.1	289		
2004/01/22	02:54:06	257	10	1011	1012	1011	1010	-0.1	254		
2004/01/23	13:32:16	108	86	254	169	335	732	20.9	115		
2004/01/23	16:54:05	137	5	607	644	570	490	-7.2	137		
2004/01/23	22:30:29	123	5	600	----	----	----	-----	121	Only 2 points/C2	
2004/01/24	04:30:05	304	9	303	----	----	----	-----	301	Only 2 points/C2	
2004/01/24	05:30:07	195	36	208	203	212	230	0.5	190		
2004/01/24	20:06:05	284	8	522	----	----	----	-----	280	Only 2 points/C2	
2004/01/25	19:54:05	316	22	604	547	658	975	27.6	316	Only C2	
2004/01/26	13:54:06	102	20	357	232	475	1277	65.3	104	Only C2	
2004/01/26	15:30:05	Halo	360	879	880	879	879	-0.1	156		
2004/01/27	20:30:06	100	25	488	438	539	550	4.7	97		
2004/01/28	02:30:05	219	65	331	159	522	465	8.9	228		
2004/01/28	18:54:05	262	7	522	----	----	----	-----	262	Only 2 points/C2	
2004/01/28	23:54:05	72	49	136	182	92	0	-15.4	77	Only C2	
2004/01/29	17:54:07	90	28	367	331	404	783	21.1	96	Only C2	

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Date	Time UT	Position Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s		m/s ²	Position Angle degree		
2004/01/30	00:30:05	252	59	465	400	532	498		3.7	250		
2004/01/30	04:54:05	250	63	310	318	301	259		-1.4	243		
2004/01/30	20:54:05	66	30	308	372	240	0		-15.6	71		
2004/01/31	09:54:05	324	12	438	----	----	----		-----	326	Only 2 points/C2	
2004/01/31	10:56:13	121	10	502	490	515	548		2.6	117		

If you use data from this catalog, please acknowledge as follows:

"This CME catalog is generated and maintained by the Center for Solar Physics and Space Weather, The Catholic University of America in cooperation with the Naval Research Laboratory and NASA. SOHO is a project of international cooperation between ESA and NASA."

CME heights are measured at the fastest segment of the leading edge

PA= Position Angle measured from Solar North in degrees (Counter clockwise)

ONLINE -- Click on date to view java script movies

ONLINE -- Click on time to see height-time digital files

ONLINE -- Click on speed to view height-time plot

Numbers in 2nd order fit columns correspond to the speed at the last height of measurement and at a distance of 20 solar radii.