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

NOVEMBER 2003

First C2 Appearance		Central Position	Width Angular	Linear Fit	—2nd order speed—			Accel	Measurement Position	Remarks
Date	Time UT	Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2003/11/01	12:30:05	263	68	246	204	289	437	6.2	257	
2003/11/01	14:54:05	274	55	334	77	589	478	9.3	276	
2003/11/01	21:30:08	318	>143	413	407	419	421	0.5	320	Partial Halo
2003/11/01	23:06:53	254	>93	899	1112	676	802	-26.3	224	
2003/11/02	09:30:05	Halo	360	2036	2284	1773	1966	-64.2	195	
2003/11/02	17:30:05	Halo	360	2598	2647	2554	2500	-32.4	265	Only 3 points
2003/11/03	01:59:24	304	65	827	1016	618	638	-28.3	324	
2003/11/03	10:06:05	293	104	1384	1386	1383	1383	-0.4	330	
2003/11/03	19:31:43	109	26	641	560	722	948	25.3	109	
2003/11/04	12:06:06	Halo	360	1208	1467	926	1090	-41.2	84	
2003/11/04	12:54:05	263	72	605	185	1027	1038	44.0	263	
2003/11/04	19:31:42	197	52	327	471	170	0	-146.2	187	Only 3 points/C2
2003/11/04	19:54:05	Halo	360	2657	2031	3284	3731	434.8	260	Only 3 points
2003/11/05	16:54:05	258	12	1075	1117	1038	802	-26.9	256	
2003/11/06	03:54:05	127	12	532	----	----	----	------	131	Only 2 points/C2
2003/11/06	04:06:05	247	23	643	799	490	0	-74.6	252	
2003/11/06	04:30:05	310	21	301	323	281	0	-5.0	311	
2003/11/06	07:31:40	122	11	749	694	804	849	11.1	120	
2003/11/06	17:30:05	Halo	360	1523	1822	1205	1413	-59.5	100	
2003/11/07	15:54:05	Halo	360	2237	2460	2022	2028	-87.4	302	
2003/11/08	06:54:05	70	71	656	719	596	471	-12.4	82	
2003/11/08	09:30:10	223	44	703	798	612	0	-58.1	229	Only 3 points
2003/11/09	02:30:05	232	35	75	0	150	192	1.6	231	
2003/11/09	06:30:05	Halo	360	2008	2420	1579	1788	-128.6	112	
2003/11/09	17:06:05	290	15	639	532	741	1083	37.6	294	
2003/11/10	16:54:05	55	43	478	494	461	454	-1.9	49	
2003/11/11	00:06:29	235	40	553	639	464	330	-13.2	245	
2003/11/11	02:30:07	Halo	360	1359	1472	1242	1322	-20.0	203	
2003/11/11	05:54:05	118	>52	1445	1387	1503	1660	40.3	104	Only 3 points
2003/11/11	13:54:05	Halo	360	1315	1535	1090	1223	-36.6	251	
2003/11/11	15:54:05	87	128	1785	1723	1843	1873	23.9	100	Partial Halo
2003/11/12	10:54:06	Halo	360	1197	1170	1225	1223	5.5	42	
2003/11/12	18:30:05	246	88	891	998	778	697	-21.9	249	
2003/11/13	05:30:05	103	62	598	629	570	512	-5.9	120	
2003/11/13	06:54:05	202	18	444	430	458	514	3.3	206	
2003/11/13	09:30:05	49	217	1141	1109	1175	1155	4.3	58	Partial Halo
2003/11/13	22:30:05	130	113	554	654	457	304	-14.1	142	
2003/11/14	10:54:05	282	57	683	817	535	0	-28.1	281	
2003/11/15	17:50:05	245	148	1375	1276	1465	1513	28.1	267	Partial Halo
2003/11/16	07:50:05	255	18	979	1032	930	792	-18.8	251	

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First C2 Appearance		Central Width							Measurement	
		Position	Angular	Linear Fit	—2nd order speed—			Accel	Position	Remarks
Date	Time UT	Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2003/11/17	08:50:05	255	6	----	----	----	----	------	252	Only 1 point/C2
2003/11/17	09:26:05	72	>242	1061	1079	1041	1051	-2.7	151	Partial Halo
2003/11/17	13:50:05	257	86	139	78	199	401	6.4	250	
2003/11/17	23:50:05	257	4	----	----	----	----	------	255	Only 1 points/C2
2003/11/18	05:26:06	109	32	267	188	351	1294	68.1	107	Only 3 points/C2
2003/11/18	08:06:05	144	>104	1223	974	1469	1348	37.8	168	
2003/11/18	08:50:05	Halo	360	1660	1674	1645	1656	-3.3	206	
2003/11/18	09:50:05	95	>197	1824	1532	2133	1941	59.6	87	Partial Halo
2003/11/19	09:26:05	307	84	422	261	581	628	13.7	334	
2003/11/19	15:06:05	206	48	606	409	806	1164	49.8	209	
2003/11/20	02:50:05	221	63	364	459	261	0	-11.1	213	
2003/11/20	08:06:05	242	47	890	991	797	0	-44.7	243	
2003/11/20	08:06:05	Halo	360	669	830	504	385	-23.8	219	
2003/11/20	10:06:05	73	63	396	494	304	0	-12.2	65	
2003/11/20	20:26:23	82	53	174	94	255	1046	45.0	77	Only 3 points/C2
2003/11/21	00:26:05	245	52	494	514	473	433	-3.3	237	
2003/11/21	17:50:05	292	15	554	607	508	423	-8.1	290	
2003/11/21	19:27:16	106	82	737	905	568	147	-32.9	107	
2003/11/22	01:50:05	249	18	675	801	549	0	-80.6	246	
2003/11/22	05:26:05	305	46	285	145	435	1633	120.8	301	Only 3 points/C2
2003/11/22	10:06:05	88	20	316	355	276	0	-13.2	90	Only C2
2003/11/22	12:50:05	242	18	729	781	675	391	-20.1	242	Only 3 points
2003/11/22	19:27:13	267	9	777	----	----	----	------	267	Only 3 points
2003/11/22	22:06:05	254	28	850	779	920	1067	23.2	255	
2003/11/23	09:06:05	56	23	734	963	529	0	-75.7	59	
2003/11/23	09:18:05	358	55	283	----	----	----	------	357	Only C3
2003/11/24	10:50:06	51	18	440	489	388	202	-8.2	55	
2003/11/25	04:06:05	63	43	791	789	793	794	0.3	75	
2003/11/27	09:26:05	228	106	402	382	424	461	2.8	230	
2003/11/27	15:26:05	50	73	618	561	673	725	9.3	56	
2003/11/28	02:26:05	238	15	365	347	384	406	2.0	237	
2003/11/28	10:06:05	146	93	248	73	433	396	7.2	126	
2003/11/28	11:26:07	230	23	422	354	489	660	12.9	227	
2003/11/30	12:26:05	287	13	495	110	864	1615	109.3	282	

If you use data from this catalog, please acknowledge as follows:
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CME heights are measured at the fastest segment of the leading edge
PA= Postion 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.