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

DECEMBER 2004

First C2 Appearance		Central Position	Width	Linear Fit	—2nd order speed—			Accel	Measurement Position	Remarks
Date	Time UT	Angle degree	Angular Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2004/12/01	07:31:46	0	>198	834	896	772	802	-6.6	39	Partial Halo
2004/12/01	18:54:00	331	56	608	414	791	795	19.5	331	
2004/12/02	07:50:05	8	28	466	542	386	0	-15.7	10	
2004/12/02	08:50:05	38	3	483	430	534	966	33.7	39	
2004/12/03	00:26:05	Halo	360	1216	1314	1108	1136	-19.8	333	
2004/12/03	19:27:20	86	17	222	139	302	890	31.7	86	Only C2
2004/12/07	01:50:05	58	6	521	529	514	429	-3.9	60	Only C2
2004/12/07	15:06:05	112	27	150	77	219	649	17.0	115	Only C2
2004/12/08	05:26:06	163	7	561	498	628	1227	54.1	161	Only C2/3 points
2004/12/08	20:26:05	Halo	360	611	773	459	0	-87.2	310	Only C2/3 points
2004/12/11	15:40:20	94	34	521	592	449	180	-16.6	89	
2004/12/11	21:24:05	279	3	394	379	409	439	2.1	277	
2004/12/11	22:36:05	311	38	243	188	305	1005	40.3	313	Only C2/3 points
2004/12/12	02:00:05	218	5	476	341	625	1279	64.2	221	
2004/12/12	09:00:05	86	22	1036	1246	842	0	-84.5	80	
2004/12/12	14:12:05	131	24	813	880	745	725	-10.5	122	
2004/12/12	21:24:05	312	79	682	702	664	620	-4.5	296	
2004/12/13	23:12:05	91	10	247	----	----	----	------	91	Only C2/3 points
2004/12/14	00:48:06	59	39	412	289	554	517	7.5	58	
2004/12/15	08:24:05	280	15	753	680	826	1099	30.8	276	
2004/12/15	10:12:06	144	75	514	481	549	563	3.5	134	
2004/12/15	17:36:05	Halo	360	621	704	537	502	-11.1	1	
2004/12/15	23:48:05	263	16	537	476	604	619	6.6	261	
2004/12/16	04:24:05	138	24	725	804	645	0	-56.0	132	Only C2
2004/12/17	14:48:05	340	5	648	----	----	----	------	341	Only C2/2 points
2004/12/18	09:36:05	57	61	311	212	409	744	27.9	56	
2004/12/18	10:24:05	272	72	499	515	483	446	-2.7	279	
2004/12/19	08:36:05	133	49	532	498	566	639	7.5	123	
2004/12/19	10:48:06	40	70	275	0	483	1319	71.8	48	
2004/12/20	00:36:05	324	5	441	382	499	1193	53.3	321	Only C2
2004/12/20	01:12:06	108	15	455	823	86	0	-511.8	104	Only C2/3 points
2004/12/20	14:36:05	108	75	886	793	986	1252	53.7	118	Only 3 points
2004/12/24	05:24:05	120	86	312	316	308	271	-1.2	113	
2004/12/24	05:36:05	291	92	779	614	961	1336	58.0	302	
2004/12/24	16:24:05	248	33	181	86	277	427	8.9	249	
2004/12/25	07:24:06	74	101	256	230	281	626	13.8	58	Only C2
2004/12/25	20:57:13	157	7	307	300	314	327	0.7	159	
2004/12/25	22:12:05	333	40	113	176	58	0	-32.6	328	Only C2
2004/12/26	00:24:05	283	77	703	653	760	742	5.2	297	
2004/12/26	11:48:05	88	9	703	328	1063	2794	328.0	86	Only C2

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Date	Time UT	Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2004/12/26	13:12:05	240	61	199	194	204	362	3.8	248	Only C2
2004/12/26	17:00:05	134	5	677	771	582	0	-131.6	132	Only C2/3 points
2004/12/26	19:12:05	117	24	837	768	913	903	9.7	121	
2004/12/26	23:36:37	67	93	213	194	231	464	7.3	81	Only C2
2004/12/27	07:12:05	232	13	713	544	883	1361	64.5	239	
2004/12/27	14:24:05	255	23	414	495	325	0	-25.0	260	
2004/12/27	21:12:08	249	34	326	400	252	0	-41.2	255	Only C2
2004/12/27	23:12:05	236	45	322	323	320	301	-0.6	246	Only C2
2004/12/28	00:36:06	224	70	358	444	264	0	-15.9	234	
2004/12/28	01:48:05	228	66	360	432	282	0	-17.0	238	
2004/12/28	02:48:05	102	44	757	740	774	816	4.9	99	
2004/12/28	03:48:05	247	23	487	434	543	827	20.7	249	
2004/12/28	06:36:05	235	56	414	502	312	0	-10.7	238	
2004/12/28	09:48:05	226	65	487	585	391	251	-11.8	233	
2004/12/28	13:12:05	235	57	600	720	483	0	-43.2	240	
2004/12/28	16:12:05	227	73	553	572	533	523	-2.3	235	
2004/12/28	18:12:05	75	110	350	207	486	452	6.5	92	
2004/12/28	21:04:13	242	58	498	493	503	501	0.4	243	
2004/12/29	01:57:05	235	7	640	597	680	838	14.7	233	
2004/12/29	03:21:06	222	34	579	762	382	0	-24.7	232	
2004/12/29	06:21:07	227	41	553	592	514	518	-3.7	233	
2004/12/29	07:45:06	103	24	305	189	419	1149	53.2	102	Only C2
2004/12/29	09:21:05	105	36	345	293	399	440	4.6	103	
2004/12/29	10:57:05	227	32	649	788	515	0	-28.7	233	
2004/12/29	16:45:05	239	12	607	726	479	440	-15.2	243	
2004/12/29	16:45:05	71	140	774	938	602	703	-17.2	79	Partial Halo
2004/12/29	19:45:05	244	30	550	580	520	485	-4.3	241	
2004/12/30	00:45:05	238	27	398	531	264	0	-41.2	239	
2004/12/30	07:57:05	266	8	579	----	----	----	------	266	
2004/12/30	10:57:06	72	>176	1247	1154	1334	1312	15.7	91	Partial Halo
2004/12/30	17:45:05	87	54	231	180	282	489	8.4	92	
2004/12/30	22:30:05	Halo	360	1035	1039	1031	1032	-0.6	82	
2004/12/31	15:30:05	61	143	802	868	735	752	-7.8	87	Partial Halo
2004/12/31	17:06:05	277	116	293	313	273	0	-4.3	279	
2004/12/31	22:30:05	228	28	511	565	457	0	-26.0	231	

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.