SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

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

MAY 2005

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	
2005/05/01	00:50:05	Halo	360	634	681	586	603	-4.3	124	
2005/05/01	09:50:05	124	141	440	306	571	1181	55.6*	132	C2 Partial Halo
2005/05/01	15:50:05	257	58	215	146	282	748	22.6*	258	Only C2
2005/05/01	19:27:20	305	66	157	59	256	434	7.8*	315	
2005/05/01	19:50:05	91	69	414	416	411	408	-0.3*	80	
2005/05/02	05:26:06	Halo	360	689	735	640	662	-4.5	74	
2005/05/02	12:50:05	70	28	510	524	495	494	-1.3	73	
2005/05/02	13:27:19	284	110	314	151	487	434	6.9	265	
2005/05/02	21:26:08	44	60	197	122	268	704	20.3*	48	Only C2
2005/05/02	22:26:22	105	148	955	674	1224	1151	35.7	137	Partial Halo
2005/05/03	14:26:05	102	19	367	462	264	33	-8.9*	106	
2005/05/03	17:26:05	41	190	632	561	712	666	5.3	60	Partial Halo
2005/05/04	03:29:58	277	17	278	247	313	402	4.3*	275	
2005/05/04	06:53:57	251	60	204	157	251	583	13.1*	251	Only C2
2005/05/04	13:54:20	108	86	634	633	635	635	0.1	109	
2005/05/04	16:27:34	35	22	426	568	292	0	-23.0*	41	
2005/05/04	22:30:05	251	70	266	205	329	441	6.4	243	
2005/05/05	05:54:05	86	56	248	234	263	415	5.0*	93	Only C2
2005/05/05	06:30:05	259	60	21	----	----	----	-------	259	Only C2
2005/05/05	20:30:05	Halo	360	1180	1193	1168	1174	-1.9	82	
2005/05/05	20:58:42	292	52	427	493	358	297	-6.8	277	
2005/05/06	02:30:05	290	15	578	----	----	----	-------	287	
2005/05/06	03:30:05	280	109	1120	1136	1101	1114	-2.2	298	
2005/05/06	10:30:19	255	74	244	296	194	0	-20.0	247	Only C2
2005/05/06	11:54:28	277	129	1144	1280	993	1086	-23.3	303	Partial Halo
2005/05/06	17:28:31	Halo	360	1128	1383	863	1067	-38.1	119	
2005/05/06	20:54:06	253	51	239	280	195	0	-6.8*	248	
2005/05/06	22:30:05	182	77	283	204	370	365	4.0*	184	
2005/05/06	23:30:05	256	62	525	753	276	0	-28.0	267	
2005/05/07	01:31:48	253	41	266	349	185	0	-47.0*	250	Only C2
2005/05/07	03:54:08	356	111	195	----	----	----	-------	346	
2005/05/07	08:30:05	255	87	901	1106	688	780	-27.9	276	
2005/05/08	06:30:05	253	59	297	334	259	257	-2.0*	245	
2005/05/08	09:54:06	107	7	427	99	784	2116	184.0*	108	3 points/Only C2
2005/05/08	15:54:05	252	84	892	999	788	760	-20.5	273	
2005/05/08	18:06:05	118	30	439	562	302	151	-13.7*	123	
2005/05/08	20:06:05	287	26	712	892	527	551	-21.0	285	
2005/05/09	01:31:46	285	20	704	894	507	0	-62.3	290	
2005/05/09	02:30:07	283	35	678	822	526	617	-12.8	290	
2005/05/09	05:30:05	285	24	526	451	596	704	12.1*	286	
2005/05/09	09:54:05	287	32	635	638	632	628	-0.6	283	
2005/05/09	13:31:46	284	53	433	516	350	0	-12.6*	286	
2005/05/09	13:54:05	91	108	566	511	630	598	4.1	92	
2005/05/10	00:54:05	90	19	399	478	318	0	-9.9*	96	
2005/05/10	03:54:06	276	12	576	691	460	0	-22.8*	270	
2005/05/10	06:06:05	222	47	324	332	316	297	-0.9*	217	
2005/05/10	08:06:05	285	16	614	602	627	683	4.4*	283	
2005/05/10	08:30:05	334	10	420	----	----	----	-------	332	Only C2

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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	
2005/05/10	16:06:05	Halo	360	609	681	535	441	-11.1	275	
2005/05/10	19:31:44	286	38	442	569	310	0	-15.2*	291	
2005/05/10	20:58:43	87	41	403	387	420	423	1.2	95	
2005/05/11	01:31:47	282	32	320	361	277	271	-2.5*	281	
2005/05/11	04:30:05	215	60	295	282	307	391	3.0*	215	
2005/05/11	07:31:45	236	95	305	338	272	249	-2.2	238	
2005/05/11	20:13:08	Halo	360	550	603	495	495	-5.4	232	
2005/05/12	03:52:06	91	16	279	----	----	----	-------	89	Only C2
2005/05/12	04:52:05	290	10	387	436	337	0	-21.1*	287	
2005/05/12	14:22:06	230	39	139	135	142	183	0.6*	231	Only C2
2005/05/12	17:52:07	340	50	318	284	350	540	9.0*	334	Only C2
2005/05/12	21:52:05	348	9	621	----	----	----	-------	349	2 points/Only C2
2005/05/12	23:22:07	335	24	325	----	----	----	-------	332	Only C2
2005/05/12	23:22:07	87	65	188	142	234	519	10.6*	88	Only C2
2005/05/13	17:12:05	Halo	360	1689	----	----	----	-------	2	2 points/Only C3
2005/05/14	17:52:37	38	27	375	297	449	773	21.6*	35	Only C2
2005/05/14	20:56:52	261	115	786	750	821	1037	21.4*	250	3 points/Only C2
2005/05/15	10:50:05	231	13	280	----	----	----	-------	229	Only C2
2005/05/15	23:26:06	334	45	186	----	----	----	-------	326	
2005/05/16	03:06:07	108	15	201	----	----	----	-------	111	Only C2
2005/05/16	13:50:07	331	140	405	394	417	413	0.6	311	Partial Halo
2005/05/16	14:50:05	256	80	222	312	128	0	-18.7	249	Only C2
2005/05/16	20:54:25	324	42	320	----	----	----	-------	330	
2005/05/17	03:06:05	252	89	311	280	343	462	5.5*	246	
2005/05/17	04:06:06	320	7	505	----	----	----	-------	318	
2005/05/17	07:27:17	117	30	184	156	211	411	6.0*	112	Only C2
2005/05/17	12:06:05	281	39	226	----	----	----	-------	273	Only C2
2005/05/17	21:26:08	256	8	180	----	----	----	-------	256	Only C2
2005/05/17	21:26:08	102	18	327	----	----	----	-------	109	Only C2
2005/05/17	23:26:05	234	24	120	----	----	----	-------	233	Only C2
2005/05/18	00:26:05	144	83	336	305	366	419	3.5*	147	
2005/05/18	02:06:05	252	109	463	500	424	421	-3.0	251	
2005/05/19	04:50:06	282	40	221	202	242	378	4.2*	279	Only C2
2005/05/19	14:50:05	286	37	273	299	248	209	-2.1*	281	
2005/05/19	20:50:05	2	8	----	----	----	----	-------	4	1 points/Only C2
2005/05/19	22:06:05	283	39	633	582	687	773	11.3*	277	
2005/05/20	01:27:17	183	14	417	----	----	----	-------	188	Only C2
2005/05/20	02:26:05	111	28	145	91	195	404	6.6*	109	Only C2
2005/05/20	03:26:05	338	8	382	----	----	----	-------	336	2 points/Only C2
2005/05/20	03:26:05	183	11	288	----	----	----	-------	186	Only C2
2005/05/20	06:26:05	167	147	223	----	----	----	-------	154	Partial Halo
2005/05/20	22:26:06	274	65	389	322	458	449	4.1	275	
2005/05/20	23:06:05	55	69	150	0	281	297	3.8*	51	
2005/05/21	06:26:05	207	189	372	----	----	----	-------	170	Partial Halo
2005/05/21	13:27:18	233	160	308	299	317	320	0.6	219	Partial Halo

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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	
2005/05/21	20:06:05	203	90	273	305	238	206	-2.1*	199	
2005/05/23	12:50:05	237	3	331	----	----	----	-------	239	2 points/Only C2
2005/05/23	17:26:05	241	17	211	----	----	----	-------	244	Only C2
2005/05/24	01:27:18	106	28	168	----	----	----	-------	104	Only C2
2005/05/24	05:50:05	107	40	147	104	188	418	6.8*	105	Only C2
2005/05/24	08:50:05	104	44	104	96	111	213	1.5*	103	Only C2
2005/05/24	12:50:05	108	121	162	0	371	319	4.5*	104	Partial Halo
2005/05/24	14:06:05	311	56	297	311	283	160	-3.0*	314	
2005/05/25	06:26:05	349	7	357	----	----	----	-------	343	Only C2
2005/05/25	14:26:06	31	11	302	379	225	0	-30.7*	30	Only C2
2005/05/25	20:00:42	244	32	226	----	----	----	-------	248	
2005/05/26	13:27:19	233	44	717	764	668	675	-5.7	243	
2005/05/26	15:06:05	Halo	360	586	606	565	575	-1.6	275	
2005/05/26	21:26:10	144	199	420	441	401	392	-1.8	61	Partial Halo
2005/05/26	22:26:05	236	36	401	279	522	489	6.9*	239	
2005/05/27	00:26:05	210	139	263	120	408	512	10.3	208	Partial Halo
2005/05/27	06:26:27	112	56	293	310	277	266	-1.1	106	
2005/05/27	08:26:05	104	26	503	599	413	0	-22.4*	107	
2005/05/27	08:26:05	304	29	294	224	366	394	4.5	297	
2005/05/27	09:50:05	105	23	786	962	614	0	-96.6*	109	Only C2
2005/05/27	09:50:05	231	26	447	513	379	269	-8.0*	231	
2005/05/27	11:50:05	118	48	555	532	577	593	3.2*	107	
2005/05/27	16:06:05	301	38	256	----	----	----	-------	296	Only C2
2005/05/27	17:50:05	107	31	314	396	225	0	-12.7*	106	
2005/05/27	21:26:08	107	30	516	680	368	0	-40.7	111	
2005/05/28	01:32:08	294	45	404	306	506	488	7.3	305	
2005/05/28	09:32:08	82	31	275	138	410	935	35.9*	78	Only 3 points
2005/05/28	14:32:08	301	28	388	266	512	486	7.6*	293	
2005/05/28	15:32:11	114	51	486	585	387	0	-18.1*	121	
2005/05/28	18:32:10	79	22	151	130	172	290	2.9*	79	
2005/05/29	00:32:09	120	31	462	467	458	451	-0.6*	122	
2005/05/29	11:32:08	321	30	150	----	----	----	-------	317	
2005/05/29	12:32:09	84	41	322	292	350	354	1.8*	87	
2005/05/29	16:32:10	82	52	375	468	270	236	-7.8	87	
2005/05/30	00:32:09	81	67	301	308	294	229	-1.9*	83	
2005/05/30	09:38:12	276	94	305	256	354	324	2.4	278	Only C3
2005/05/30	13:32:08	8	258	191	176	209	207	0.5	59	Partial Halo
2005/05/30	19:32:08	285	19	199	----	----	----	-------	286	
2005/05/30	20:32:08	111	38	186	165	205	215	0.8	113	
2005/05/31	04:32:09	264	58	58	----	----	----	-------	271	
2005/05/31	11:32:08	42	16	422	----	----	----	-------	44	3 points/Only C2
2005/05/31	15:32:10	289	134	313	357	269	245	-2.9	327	Partial Halo
2005/05/31	19:32:08	61	35	155	138	171	305	3.1*	56	Only C2
2005/05/31	19:32:08	114	38	203	198	207	230	0.6*	115	