

SMM C/P 1980 Coronal Mass Ejections page 1 of 29

Date	DOY	Time [UT]	Ctrl PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual		
											First continuous observations Mar 07, 1980.
Mar 07	067	14:31-21:04	106	—	—	—	—	—	0	No clear front	Irregularly-shaped tongue superposed on fan (or streamer). Tongue is pinched at base to form concave-outward, 'V'-shape.
											DATA GAP: Mar 08 03:22 to 21:01
Mar 08/09	068/069	21:04-01:35	230	034	Mar 08 21:04:54-21:06:29	879 ₁ *	230	2	7	Cavity	Flattened loop/cavity superposed on streamer. Deflections.
											DATA GAPS: Mar 08 21:06 to Mar 09 01:32 Mar 09 01:36 to 16:11. Mar 09 16:16 to 23:51 Mar 09 23:56 to Mar 10 14:27 Mar 10 14:33 to 19:18 Mar 10 19:24 to 22:08 Mar 10 22:14 to Mar 11 16:10
Mar 11	071	<16:10<20:26	000	030	—	—	—	—	0	Front at 16:10 only	Loop(?)/cavity in 16:10 image only. Legs of loop are superposed on streamers. Deflections.
											DATA GAPS: Mar 11 16:16 to 20:26. Mar 11 22:14 to Mar 13 15:36. Mar 13 15:57 to Mar 14 15:36 Mar 14 15:56 to 18:47. Mar 14 23:53 to Mar 15 02:45. Mar 15 03:05 to 15:34.
Mar 15/16	075/076	<15:36~10:46	~120	~053	Mar 15 15:36-19:31	033 ₁ *	116	6	6	Cavity	Cavity rises slowly in fan. Fuzzy loop becomes visible around cavity. Brighter tongue-shaped core follows cavity. Base of core is concave-outward, 'U'-shaped by early Mar 16. Archetypal (pardon the expression) disconnection from ~06:05 until 10:46 on Mar 16. Fan is partially blown out. Deflections.
					Mar 15 15:36-19:31	035 ₁ *	116	7	7	Core	
					Mar 16 06:04-09:10	102 ₁ 190 ₂ *	122	6	7	Concave-outward U-shape	

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											DATA GAP: Mar 18 14:38 to Mar 19 15:28.
Mar 20	080	09:11-10:41	013	050	Mar 20 09:11-09:53	608 ₁ *	005	2	3	Loop	Fuzzy loop/cavity superposed on streamer (or fan). Deflections.
					Mar 20 09:11-09:53	138 ₁ *	005	2	2	Cavity	
Mar 20	080	14:45-18:41	130	005	—	—	—	—	0	No obvious front	Blob 'N Ray.
Mar 20	080	18:43-22:10	228	055	Mar 20 18:43-20:38	282 ₁ 380 ₂ *	235	19	9	Loop	Thin loop/cavity with structured (prominence?) core superposed on streamer (or fan). Deflections.
					Mar 20 18:43-20:38	292 ₁ 414 ₂ *	235	19	9	Cavity	
											DATA GAPS: Mar 21 12:16 to 17:01. Mar 21 18:45 to 23:28.
Mar 22	082	04:23~06:19	185?	030?	—	—	—	—	0	Front visible for five minutes only. No apparent motion while visible.	Loop(?)/cavity with structured core(?) between streamers (or rays). Loop is obscured by pylon shadow and artifact.
Mar 23	083	01:00~09:09	230	035	Mar 23 04:46-06:06	162 ₁ * 186 ₂	235	5	3	Outer loop	Outward motion of jet from 01:00 until ~02:54 at 236° followed by a low contrast, broader cavity from ~02:49 until 09:09. Loop becomes visible around cavity. Well-defined, multiple loops/cavities appear beneath first cavity from 04:46 until ~09:09. Event is superposed on streamer. Streamer is disrupted. Deflections.
					Mar 23 04:14-06:06	101 ₁ * 140 ₂	235	6	3	Outer cavity	
					Mar 23 04:49-06:06	096 ₁ * 139 ₂	230	6	8	Inner cavity	
Mar 23	083	02:41-22:25?	~020	~008	—	—	—	—	0	No obvious front	Could be three events: 1. Narrow jet east of polar streamer. Possible brightening south of jet. Deflections. 2. Jet (or tongue) east of polar streamer. Deflections. 3. Fuzzy, faint loop/cavity superposed on polar streamer. Deflections.
		02:41-04:23			—	—	—	—	0	No obvious front	
		06:33-12:55			—	—	—	—	0	No obvious front	
		13:50-22:25?	015	046	Mar 23 13:50-14:21	143 ₁ *	017†	2	3	Loop	

† Position of feature was measured along a non-radial line.

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Mar 24	084	09:37-11:13?	315	—	—	—	—	—	1	Cloud	Very faint cloud superposed on rays.
Mar 24	084	10:51~17:49	232	031	Mar 24 10:51-11:26	217 ₁ * 304 ₂	230	5	3	Loop	Thick, structured loop/cavity superposed on streamer. Deflections. Streamer is disrupted.
Mar 24	084	18:37-20:13	~314	~057	—	—	—	—	0	Too faint	Very faint cloud superposed on faint rays. Deflections.
Mar 25	085	02:35-07:38	234	015	Mar 25 04:53-05:06	682 ₁ * 816 ₂	238	6	4	Tongue	Could be two events: 1. Tongue superposed on rays. 2. Elongated loop/cavity superposed on streamer. Deflections.
			152?	036?	—	—	—	—	1	Very little motion while visible	
Mar 26	086	01:03~05:52	098	051	—	—	—	—	1	Mound	Complex, structured mound (or loop/cavity) with structured core and concave-outward 'U'-shaped material all superposed on existing structures. Deflections.
Mar 26	086	13:56-20:24	212	033	Mar 26 13:56-14:24	126 ₁ *	208	2	5	Outer loop	Multiple, concentric loops/cavities superposed on rays. Deflections.
					Mar 26 14:24-18:59	067 ₁ * 059 ₂	215	8	6	Inner cavity	
Mar 27	087	04:41-07:22	225 <204	016 >038	—	—	—	—	0	No obvious front	Two part event, edge in pylon shadow: 1. Bright, irregular tongue superposed on rays. 2. Thin loop/cavity with fuzzy, internal loop/cavity(?) at north edge of outer loop. Northern leg of outer loop is superposed on rays from part one. Deflections. Loop is visible in southwest polaroid sequence.
		04:41-07:22 05:02-05:56			Mar 27 05:02-05:56	366 ₁ *	210	4	7	Outer loop	
Mar 27	087	06:31<14:07	~301	~028	—	—	—	—	0	No obvious front	Cloud superposed on rays and streamers. Could be wider.
											DATA GAP: Mar 27 07:22 to 13:46.
Mar 27	087	13:54-18:47	082	047	—	—	—	—	1	Front in 13:58 image. Edge visible at 13:54.	Loop(?)/cavity superposed on streamer. Rays at event boundary are bent. Big deflections. Region is disrupted.

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Mar 27	087	18:51-20:30?	246?	072?	—	—	—	—	1	Front visible for three minutes only. Very little motion.	Faint, thin loop/cavity superposed on rays and streamers. Deflections.
Mar 28	088	07:35-11:24?	225	021	Mar 28 09:10-10:50	127 ₁ * 151 ₂	225	5	5	Tongue	Irregularly-shaped tongue superposed on rays. Could be concave-outward, 'V'-shaped. Deflections.
Mar 28	088	10:35-13:51	~084	~024	—	—	—	—	0	Front visible for five minutes only. No apparent motion.	Fuzzy mound (or thick loop/cavity) superposed on rays. Deflections. Could extend as far south as 110°.
Mar 28	088	17:07-18:51	152	115	—	—	—	—	0	Front at 17:09 only	Wide loop/cavity superposed on wide fan (or streamer). Deflections.
Mar 28/29	088/089	22:13~01:02	222	024	—	—	—	—	0	No clear front	Irregularly-shaped tongue superposed on rays. DATA GAP: Mar 29 01:31 to 04:51.
Mar 29	089	05:50-07:26	~228	~010	—	—	—	—	0	Front visible for ninety seconds only. No apparent motion.	Loop(?)/cavity superposed on rays. Deflections. Could extend as far north as 262°.
Mar 29	089	06:01-10:34?	~352	~032	—	—	—	—	0	Missed front?	Irregular material with cavity and core superposed on rays. Probably missed the front between 00:57 and 06:01 images. (See previous DATA GAP). Core is visible in north images. Region is disrupted. Deflections.
Mar 29	089	09:01-12:11	~040	~030	—	—	—	—	0	No clear front	Fuzzy tongue superposed on streamer. Big deflections.
Mar 29	089	10:49?-13:51?	238	032	Mar 29 10:49-11:00	616 ₁ * 1035 ₂	230	4	4	Loop	Irregular loop/cavity just south of faint rays (or fan). Deflections. Motion in region at 09:05.
Mar 29	089	13:49-20:13	142	026	Mar 29 15:23-17:12	022 ₁ *	142	4	3	Cavity	Loop/cavity superposed on streamer (or fan). Region is disrupted. Deflections.

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					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual			
Mar 29/30	089/090	15:26~04:24	236	041	—	—	—	—	0	Too fuzzy	Mound superposed on rays. Front of mound evolves and fades.	
Mar 29/30	089/090	22:00-02:37	177	050	Mar 29/30 22:00-01:01	117 ₁ * 127 ₂	190	3	5	Cavity	Loop(?)/cavity. Front of loop obscured by pylon shadow. Deflections.	
Mar 30	090	10:33-12:09	327	020	—	—	—	—	0	No obvious front	Faint fan (or jets). Best seen in 10:33 image.	
Mar 30	090	13:47-15:25	~062	~039	Mar 30 13:47-14:25	257 ₁ * 381 ₂	055	6	6	Cavity	Thin loop/cavity superposed on rays and streamers. Could extend as far south as 096°.	
Mar 31	091	15:40-21:54	136	052	Mar 31 15:40-17:02	188 ₁ 302 ₂ *	135	5	7	Outer loop	Multiple, concentric loops/cavities with highly structured, arrowhead-shaped (prominence) core superposed on fan (or streamers). Core is bright in 18:50 h α image. Deflections. Region is disrupted.	
					Mar 31 15:40-17:02	177 ₁ 316 ₂ *	135	5	7	Outer cavity		
					Mar 31 17:00-18:43	216 ₁ * 283 ₂	139	6	5	Back of 'arrowhead'-shaped core (prominence)		
Apr 01/02	092/093	12:08-02:38?	240	042	—	—	—	—	0	No obvious front	DATA GAP: Apr 01 04:24 to 11:05. Slow rising loop(?)/cavity (or mound) superposed on streamer. Front evolves. Region is disrupted. Deflections.	
											DATA GAPS: Apr 02 02:40 to 10:42. Apr 02 11:10 to 15:38. Apr 03 01:52 to Apr 04 17:11.	
Apr 04/05	095/096	20:15<07:33	100	020	—	—	—	—	0	No obvious front	Fuzzy mound superposed on rays (or streamer). Deflections.	
											DATA GAP: Apr 04 21:02 to Apr 05 07:28.	

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Apr 05	096	07:28<20:07	343	044	Apr 05 07:55-09:33	047 ₁ * 069 ₂	337	3	4	Loop	Two part event: 1. Loop/cavity superposed on streamer. Surrounding rays move toward streamer during event. 2. Concave-outward, 'U'-shaped blob in 15:45 and 15:47 images at 343° 4R _☉ superposed on streamer. Material is ejected until ~21:49.
		07:28-12:07									
Apr 05	096	09:10-14:01	250	030	—	—	—	—	0	No obvious front	Small, fuzzy cloud with blobs superposed on rays. Deflections.
Apr 05/06	096/097	12:11~02:41	097	046	—	—	—	—	0	Front at 12:11 only	(Multiple?) loop(?)/cavity superposed on streamer. Front is asymmetric. Concave-outward, 'U'-shaped material follows loop. Loop is visible at edge of field of view in 12:11 image. Gone from field of view by 12:45. Blobs (or clouds) ejected until ~02:41. Streamer is blown out. Deflections.
					Apr 05 12:11-13:52	234 ₁ * 197 ₂	090	3	5	Concave-outward material	
Apr 06	097	02:46-18:38	~220	~042	—	—	—	—	1	Loop	Fuzzy loop/cavity superposed on rays. Deflections. Evolves and fades by ~06:01. Fuzzy, concave-outward(?), 'U'-shaped material ejected from ~10:45 until ~18:38. Blob ejected north of 'U'-shaped material from 17:00 until ~18:38.
		17:00~18:38	233	010	Apr 06 10:45-14:06	026 ₁ * 023 ₂	210†	5	4	Concave-outward 'U'-shape	
Apr 06	097	04:43-10:37	~052	~052	Apr 06 17:02-17:32	541 ₁ * 482 ₂	237†	5	4	Blob	
Apr 06	097	08:54-10:41	086	020	—	—	—	—	1	Mound	Fuzzy mound superposed on streamer. Deflections.
Apr 06	097	08:54-10:41	086	020	—	—	—	—	1	Greenline images only	Structured mound superposed on streamer in greenline images. Deflections.

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** Event was detected in the narrow bandwidth 5300-5306Å 'green line' of Fe XIV.

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Apr 06	097	~16:58~20:25	068?	043?	—	—	—	—	0	Front at 18:34 only	Streamer at 065° swells slowly from ~16:58 until 17:29. Flattened loop/cavity appears in following frame at 18:34 just south of streamer. Streamer is disrupted. Deflections. Narrow material may have been ejected along ray at 062° from 15:20 until 15:34.
Apr 06/07	097/098	21:48<09:10	060	041	Apr 06/07 23:22-00:58	022 ₁ ★ 018 ₂	060	5	5	Loop	Fuzzy, concave-outward(?) 'U'-shaped material at 21:48 superposed on streamer (or fan). Loop/cavity follows material from 23:20 until ~03:10. Loop fades. Region is disrupted. Deflections. Fuzzy, concave-outward, 'wishbone'-shaped material ejected late in event. No east sector images between 04:17 and 09:10. Material gone by 09:10.
					Apr 06/07 23:22-00:58	023 ₁ ★ 007 ₂	060	5	5	Cavity	
Apr 07	098	04:05-07:45	320	081	Apr 07 04:05-04:46	708 ₁ ★ 717 ₂	295	5	7	Loop	Bright loop/cavity with structured core superposed on rays. Deflections. Rays are blown out.
					Apr 07 04:05-04:46	709 ₁ ★ 662 ₂	295	5	7	Cavity	
Apr 07	098	14:01-15:25	~035	~040	—	—	—	—	0	Front visible for eleven minutes only. No apparent motion.	Very faint cloud (with cavity?) superposed on faint rays. Deflections.
Apr 08	099	14:28~19:12	~272	~040	Apr 08 15:21-17:01	105 ₁ ★ 094 ₂	280	3	4	Mound	Irregular mound (or cloud) superposed on rays. Deflections. Region is disrupted.
Apr 09	100	04:21<09:00	218	009	—	—	—	—	0	No obvious front	Narrow tongue ejected just north of streamer. Deflections.
											DATA GAP: Apr 09 04:53 to 07:15.

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Apr 09	100	12:43~15:40	282	075	—	—	—	—	1	Mound	Irregularly-shaped mound with some internal structure (and cavity?) superposed on rays (or streamers). Deflections.
Apr 09/10	100/101	21:37~02:35	262	065	Apr 09 23:16-23:59	329 ₁ * 435 ₂	265	12	5	Inner cavity	Multiple(?) loop/cavity and complex, (multiple?) loop-shaped core superposed on rays. Region is partially blown out. Deflections. Blobs ejected late along southern leg of event.
Apr 11	102	04:00>04:41 04:00>04:41 04:21>04:41	255 — ~288	023 —	— — —	— — —	— — —	— — —	0 0	Greenline only Greenline** only	Could be two events: 1. Concave-outward(?), 'U'-shaped cloud (or blob) superposed on fan and ray. 2. Blob 'N Ray.
Apr 11	102	07:56-09:33	288	082	Apr 11 07:56-09:09	509 ₁ * 512 ₂	260	4	5	Southern cavity	Faint, multiple, adjacent loops/cavities (or single, broad, irregularly-shaped loop/cavity) superposed on existing structures. Southern loop/cavity is visible until ~09:12. Northern loop/cavity evolves into a broad cloud with concave-outward(?), structured core after 07:58. Deflections.
					Apr 11 08:58-09:12	282 ₁ * 384 ₂	280	4	3	Concave-outward shaped core	
Apr 11	102	14:10~20:44	280	029	—	—	—	—	1	Loop	Small loop/cavity with small, bright, structured (prominence?) core superposed on rays. Deflections.
					—	—	—	—	1	Core (prominence?)	
Apr 11	102	18:26-20:23	013	027	—	—	—	—	0	Visible in one image only	Mound superposed on rays in one image only.
DATA GAP: Apr 11 21:37 to Apr 12 00:57.											
Apr 12	103	04:04>18:27 04:04>18:27	077	035	—	—	—	—	0	Too fuzzy	Could be two events: 1. Cavity(?) in streamer. Streamer swells and disrupts. Appears to collide with material in part two. 2. Irregularly-shaped, structured mound. Northern part is superposed on streamer and fan. Southern part of mound is concave-outward, 'wishbone'(?)-shaped. Deflections.
		07:16-10:32	112	034	—	—	—	—	0	Too fuzzy	

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Apr 12	103	07:20~23:42	253	010	—	—	—	—	0	No obvious front	Two part: 1. Narrow tongue superposed on ray. Ray fades. Deflections. 2. Small cavity appears in streamer and moves outward. Deflections. Streamer is disrupted.
		07:20~14:13		018	—	—	—	—	0	No obvious front	
		12:13~23:42	279		—	—	—	—	0	No obvious front	
Apr 12	103	<15:13>18:25	~003	—	—	—	—	—	1	Material	Faint material superposed on ray. Deflections. Could have missed the front between 13:56 and 15:13 images. No north images between Apr 12 18:25 and Apr 13 00:49. Ends during north sector data gap.
Apr 12	103	15:15-17:24	~117	~055	—	—	—	—	0	Front visible for ninety seconds only. No apparent motion.	Mound (or loop/cavity) in 15:15 and 15:17 images. Northern edge is well defined; southern edge is very fuzzy. Event is superposed on streamer and surrounding rays. Deflections.
Apr 12/13	103/104	21:33~05:42	253	035	Apr 12 21:33-22:21	398 ₁ * 335 ₂	250	4	6	Tongue	Tongue (or loop/cavity) with (prominence?) core superposed on streamer and rays. Deflections. Hint of h α emission in core in 23:23 h α image.
Apr 13	104	07:12-12:02	~008	~015	—	—	—	—	0	No obvious front	Faint fan of material at 07:12 superposed on faint rays. Second fan appears in same location at 10:24. Motion in northwest region throughout event. Event may be wider.

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Apr 13	104	09:10-10:32	~302 304?	— 056?	—	—	—	—	0	Jets	Narrow jets ejected at 277° and 302°. Jet at 302° is brighter. Motion in ray at 333°. Very faint cloud ejected(?) from 277° to 333°.
					—	—	—	—	0	Cloud	
Apr 14	105	04:49-08:47	005	051	Apr 14 04:49-06:10	285 ₁ 409 ₂ *	005	3	9	Outer loop	Archetypal loop/cavity with structured, interior (prominence) loop/cavity. Inner loop emitting in line of h α at 07:18 and 07:21. Event is superposed on rays. Western leg is superposed on streamer. Loop front flattens as it moves out through field of view. Region is blown out. Deflections.
					Apr 14 04:49-06:10	292 ₁ 374 ₂ *	005	3	9	Outer cavity	
			006	030	Apr 14 05:44-07:21	266 ₁ 365 ₂ *	005	5	9	Inner loop (prominence)	
					Apr 14 05:44-07:21	275 ₁ 353 ₂ *	005	5	9	Inner cavity	
Apr 14/15	105/106	08:47~23:19	313	038	Apr 14/15 09:09-04:23	019 ₁ * 017 ₂	305	23	5	Outer loop	Multiple, concentric(?) loops/cavities with amorphous core in streamer just west of previous 04:49 event. Streamer is disrupted. Large deflections.
Apr 14	105	~08:55-16:49?	126	028	—	—	—	—	0	No obvious front	Irregularly-shaped material superposed on system of rays. Deflections.
Apr 14	105	15:35?-23:13?	~238	~042	—	—	—	—	0	No obvious front	Fuzzy material superposed on rays. Blob 'N Ray at 218° late in event from 21:37 until ~23:13. Deflections. Could be related to previous southeast event at 08:55.
Apr 14/15	105/106	23:09<04:01	020	060	—	—	—	—	0	Front in one image only	Structured mound (or loop/cavity) with core superposed on rays (or streamers). Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Apr 15	106	~10:33~18:20	~075	~020	—	—	—	—	0	Front visible for eight minutes only. No apparent motion.	Two piece event: 1. Fuzzy mound superposed on streamer. 2. Fuzzy cloud (or mound) with structured interior. Event is superposed on streamers. Entire region is disrupted. Large deflections. Northern part of cloud is in same location as mound in part one. Are these the same feature?
		10:33-10:46									
Apr 15/17	106/108	~22:05~07:52	282	035	Apr 15/16 23:13-04:02	041 ₁ * 002 ₂	282	4	3	Cloud	Structured cloud superposed on rays. Evolves and fades. Fainter tongue (or jets) ejected just south of cloud. Irregularly-shaped cavity becomes visible in streamer by 15:44 on Apr 16. Cavity rises slowly in fan and rays. Deflections. Region is blown out.
	106/107	22:12~01:22	~250	~020	—	—	—	—	0	Tongue	
	107/108	15:44~07:52	292	028	—	—	—	—	1	Cavity	
Apr 15/16	106/107	23:07~02:19	049	034	Apr 15/16 23:07-00:40	227 ₁ * 224 ₂	050	7	5	Loop	Thick loop/cavity with highly structured, loop-shaped (prominence) core. Core is visible in the emission line of H α from 23:27 until 23:57. Event is superposed on streamer. Deflections.
			053	018	Apr 15 23:07-23:37	174 ₁ * 011 ₂	050	4	4	Cavity	
			~050	—	Apr 15 23:07-23:57	108 ₁ * 103 ₂	050	8	5	Core (prominence)	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual			
Apr 16/17	107/108	~04:00-23:46	~126	~057	Apr 16 15:37-19:59	015 ₁ * 019 ₂	120	5	3	First cloud	Corona brightens and swells. Succession of clouds ejected in same location. First cloud visible from Apr 16 15:37 until Apr 17 02:22; second cloud seen from Apr 17 05:34 until 07:10; third cloud visible from Apr 17 13:34 until end of day. All superposed on wide fan. Fan is disrupted. Deflections.	
Apr 17	108	01:12-02:20	071	037	Apr 17 01:12-01:24	206 ₁ *	075	2	9	Mound	Faint mound superposed on rays.	
Apr 17	108	05:32-06:02	113	045	—	—	—	—	1	Front visible for ninety seconds only. No apparent motion.	Thick, complex loop/cavity and core superposed on broad fan. Deflections.	
Apr 17	108	08:42~10:40	~310	—	—	—	—	—	0	Missed front?	Broad cloud (or loop/cavity) with several interior features and structured (prominence?) material in northern leg. Northern leg is bright in h α image at 09:30. Event is superposed on streamers and rays. Streamers are disrupted. Deflections. We probably missed the front of the event between 07:54 and 08:42.	
Apr 17	108	13:30~19:53	020	070	Apr 17 13:30-15:09	135 ₁ *	358	2	4	Cloud	Broad, faint cloud with possible embedded loop/cavity all superposed on streamers. Streamers are disrupted. Deflections.	
Apr 17/18	108/109	22:06~08:48	303	—	—	—	—	—	0	No obvious front	Could be up to three events: 1. Small, bright jet. 2. Irregular loop/cavity with possible core superposed on fan (or streamer). Deflections. 3. Jet (or narrow, elongated loop/cavity).	
		22:06-23:11		—	—	—	—	0	No obvious front			
		23:05-00:42		035	Apr 17 23:05-23:25	937 ₁ * 709 ₂	310	5	6	Loop		
		03:50~08:48	302	014	—	—	—	—	0	No obvious front		
Apr 18	109	~04:03~21:43	100	029	Apr 18 04:03-13:31	025 ₁ * 036 ₂	105	9	4	Mound	Broad mound (or loop/cavity) superposed on series of rays (or streamers). Possible concave-outward material forms later in event. Region is disrupted.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Apr 19	110	00:42~07:48	~105	~036	—	—	—	—	1	Mound	Two part event: 1. Faint mound (or loop/cavity) superposed on fan. Deflections. 2. Bright jets.
		00:42-04:00									
04:00~07:48	095	015	—	—	—	0	No obvious front				
Apr 19	110	02:20~16:46	225	050	Apr 19 04:07-10:40	025 ₁ 047 ₂ *	223	16	6	Cavity	Fuzzy loop/cavity and structured core superposed on streamer. Rays above loop front are disrupted. Base of core has concave-outward 'U'-shape from ~13:36 until end of event. Streamer is blown out.
			226	024							
Apr 19	110	~03:52~07:54	~323	—	—	—	—	—	1	Jet	
Apr 19	110	~07:54-09:06	301?	053?	Apr 19 07:54-08:36	655 ₁ *	306	2	4	Loop	Faint loop/cavity and structured core ejected between two streamers. Northernmost streamer is blown out. Large deflections. Event may extend as far south as 260°.
Apr 20	111	08:42~11:53	081?	080?	—	—	—	—	0	Too fuzzy	Flattened(?), complex mound (or cloud) with possible loop/cavity at southern edge all superposed on existing structures. Deflections.
Apr 20	111	15:34-20:00	316	042	Apr 20 15:34-17:03	222 ₁ *	310	3	3	Loop	Irregularly-shaped loop/cavity and structured core superposed on fan. Faint cloud may precede loop front. Deflections.
DATA GAP: Apr 20 23:50 to Apr 21 03:50.											
Apr 21/22	112/113	~10:29~22:13	240	040	—	—	—	—	0	No obvious front	Faint, small loop/cavity with core superposed on rays. Region is disrupted. Deflections.
			241	017							
Apr 21	112	12:21-16:56	~191	~046	—	—	—	—	0	Front at 12:21 only	
Concentric(?) loops/cavities(?) largely obscured by pylon shadow. Loops are superposed on rays (or streamer). Deflections.											

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Apr 21/22	112/113	14:59~16:47	046	053	Apr 21/22 15:10-01:17	021 ₁ * 009 ₂	050	15	7	Cavity	Loop/cavity superposed on rays. Material appears late in event. Deflections.
Apr 22	113	17:29~19:47	111 107	—	—	—	—	—	1	Loop	Fuzzy, irregularly-shaped loop/cavity and small, bright core superposed on streamer (or fan). Region is disrupted.
					—	—	—	—	0	Core	
											DATA GAPS: Apr 23 07:44 to 10:14. Apr 23 22:01 to Apr 24 00:35.
Apr 24	115	10:22~12:37	~137	~057	Apr 24 10:24-11:05	750 ₁ * 980 ₂	139	6	7	Loop	Fuzzy, structured loop/cavity with structured (prominence?) core superposed on rays. Deflections.
					Apr 24 11:51-12:17	368 ₁ * 152 ₂	136†	5	5	Core (prominence?)	
Apr 24	115	~10:28~23:14	251	043	Apr 24 10:28-16:50	023 ₁ * 026 ₂	254†	13	6	Cavity	Cavity rises slowly in streamer. Loop becomes visible around cavity. Cavity has well-defined concave-outward, back edge (detached?) after ~13:30. Streamer is disrupted.
Apr 25/26	116/117	15:05~13:33	027	057	Apr 25 15:05-20:37	021 ₁ *	013	2	5	Cavity	Loop/cavity in streamer. Motion in streamer began on previous day. Streamer is disrupted. Deflections. Wider, faint cloud visible on Apr 26 from 00:36 until ~13:33.
Apr 25	116	~15:13~15:39	142	055	—	—	—	—	0	Front at 15:20 only	Faint cloud superposed on rays. Deflections.
											DATA GAP: Apr 25 15:54 to 18:10.
Apr 26	117	~07:06~18:41	252	033	—	—	—	—	0	Too faint	Faint mound (or cloud) superposed on rays (or streamers). Deflections.
Apr 27	118	02:12~07:03	091	038	—	—	—	—	0		Could be more than one event: 1. Fan (or jet) superposed on streamer. 2. Loop/cavity superposed on streamer overtakes fan (from part one). Deflections. Region is disrupted. 3. Structured cloud. Southern edge is brighter. Deflections.
		02:12~02:51 02:46-03:48			Apr 27 02:46-02:58	596 ₁ * 212 ₂	095	5	5	Loop	
		05:38-07:03			—	—	—	—	0	Too fuzzy	

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		Feature
											DATA GAPS: Apr 27 11:49 to Apr 28 21:24. Apr 29 10:41 to 13:18.
Apr 29	120	13:20~14:54	121	048	Apr 29 13:20:06-13:21:50	1338 ₁ *	120	2	6	Loop	Thin loop/cavity with highly structured, multi-featured core superposed on rays. Second, more narrow, cavity follows core. Large deflections. Region is disrupted.
			121	033						Cavity	
Apr 29/30	120/121	13:34-13:28	257	030	Apr 29 13:34-19:51	038 ₁ * 049 ₂	250	6	2	Mound	Structured mound (or loop/cavity) superposed on streamer. Front appears to stall between 15:35 and 18:16 on Apr 29. Acceleration(?) after 18:16. Front may be evolving or more than one structure may be present. Deflections. Region is blown out. Additional material is ejected from ~11:56 until 13:28 on Apr 30.
Apr 30	121	03:54<08:36	~116	~046	Apr 30 03:54-04:04	602 ₁ * 393 ₂	125	6	5	Southern edge of material	Complex, structured material (with cavities?) (or two adjacent, overlapping loops/cavities) superposed on faint fan and north edge of rays (or streamer). Southern edge leads northern edge. Deflections.
											DATA GAP: Apr 30 04:31 to 06:54.
Apr 30	121	11:50~13:24	066	042	Apr 30 11:52-12:08	803 ₁ * 783 ₂	080	4	6	Cloud	Structured cloud with embedded cavity superposed on fan.
					Apr 30 11:52-12:29	439 ₁ * 558 ₂	072	10	5	Interior cavity	
											DATA GAPS: Apr 30 13:40 to 15:38. Apr 30 15:46 to 18:06.
Apr 30/ May 01	121/122	19:45<00:50?	040	055	Apr 30 19:45-21:26	182 ₁ 252 ₂ *	030	4	9	Outer cavity	Multiple, concentric loops/cavities with structured (prominence?) core on and north of streamer. 'Light-bulb'-shaped by 21:21. Large deflections. Streamer is blown out. Ends during data gap.
			039	014						Core (prominence?)	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
											DATA GAP: Apr 30 21:51 to May 01 00:46.
May 01	122	08:38-16:31	240	037	May 01 08:38-16:31	038 ₁ * 011 ₂	245	6	6	Loop	Loop/cavity superposed on fan and rays. Faint material may precede loop front. Fan is disrupted.
May 01	122	16:53~20:28	~102	~075	May 01 16:55-17:14	368 ₁ * 515 ₂	110	3	5	Material	Could be more than one event: 1. Faint, irregularly-shaped material with multiple blobs and jets superposed on existing coronal structures. 2. Cloud with structured loop/cavity. Arc-shaped blob at northern edge. Event is superposed on and between streamers. Small embedded cavity is visible in southern part of cloud in 20:28 image. Deflections.
		16:53-18:25									
											DATA GAP: May 02 08:38 to May 04 14:56.
May 04	125	15:04~22:05	124	042	—	—	—	—	1	Cloud	Structured cloud with possible cavity superposed on streamer. Streamer is disrupted. Deflections.
											DATA GAP: May 05 05:54 to 08:26.
May 05	126	08:31~13:22	207?	045?	—	—	—	—	0	Front at 08:31 only	Two part event: 1. Cloud partly obscured by pylon shadow. Could extend as far east as 100°. Deflections. 2. Small bright arc of structured (prominence?) material superposed on rays.
		08:31-10:24									

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
May 05	126	10:34~15:19	299	109	May 05 10:34-11:38	516 ₁ 625 ₂ *	300	7	7	Outer loop	Bright loop/cavity with highly structured, (multiple?) inner (prominence) loop/cavity. Northern leg of inner loop contains complex, coiled structures and is extremely bright in $h\alpha$ filter. Outer loop flattens as it moves out. Event is superposed on streamers and rays. Region is partially blown out. Big deflections.
					May 05 10:41-11:38	540 ₁ 297 ₂ *	300	5	7	Outer cavity	
					May 05 10:47-12:01	487 ₁ * 483 ₂	295	8	7	Inner loop (prominence)	
May 06	127	00:30-02:08	238	030	—	—	—	—	1	Loop	Faint loop/cavity and concave-outward(?), 'U'-shaped core superposed on streamer. 'U'-shape is visible from 01:00 to 01:11. Deflections.
May 06	127	10:17~13:57	~281	~070	May 06 10:24-10:45	233 ₁ * 420 ₂	275	7	5	Outer loop	Thick, fuzzy loop/cavity with complex, structured, interior (prominence) loop/cavity superposed on rays between streamers. Inner loop contains bright knots visible in $h\alpha$ filter from 10:34 until 12:17. Region is partially blown out. Large deflections.
					May 06 10:24-11:53	258 ₁ 430 ₂ *	275	11	7	Outer cavity	
			279	022	May 06 10:43-12:10	250 ₁ * 306 ₂	282	12	7	Inner loop (prominence)	
May 06	127	21:09~23:18	225	010	—	—	—	—	0	No obvious front	Two part event: 1. Narrow fan. 2. Cloud superposed on streamers (or rays).
		22:02~23:18			181	057	May 06 22:02-23:18	291 ₁ 564 ₂ *	190	5	
											DATA GAP: May 07 04:23 to 13:22.
May 07/08	128/129	<16:26~14:54	094	059	—	—	—	—	1	Loop	Slowly rising loop/cavity superposed on streamer. Evolves and fades. Region is blown out. Deflections.
											DATA GAPS: May 08 15:07 to 18:32. May 08 21:36 to May 09 06:45. May 09 10:30 to 13:24.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
May 09/10	130/131	~13:24~02:40	313	037	—	—	—	—	1	Mound	Mound (or cloud) in streamer. 'Light-bulb'-shaped by 18:02. Streamer is blown out. Deflections.
May 09/10	130/131	<13:48~01:55	~029	~093	—	—	—	—	0	Too faint	Very faint cloud (or mound) superposed on background structures. Region is blown out. Deflections.
											DATA GAP: May 09 15:31 to 17:56.
May 09/10	130/131	22:53-01:57	113?	070?	—	—	—	—	0	Too faint	Faint cloud superposed on streamers and rays. Deflections.
											DATA GAPS: May 10 10:44 to Jun 03 13:58. Jun 03 21:12 to Jun 18 12:23. Jun 18 17:31 to 20:07.
Jun 18/19	170/171	20:07~05:43	064	077	Jun 18 20:07-22:07	194 ₁ 305 ₂ *	070	11	5	Outer loop	Thick, wide loop/cavity with thick, flat-topped inner (prominence?) loop/cavity in streamer. Streamer is blown out. Big deflections.
					Jun 18 20:07-22:07	130 ₁ 262 ₂ *	070	17	5	Outer cavity	
					Jun 18 21:40-22:07	242 ₁ *	050	8	5	Inner loop (prominence?)	
										Inner cavity	
Jun 19	171	~12:20~23:28	040	040	Jun 19 12:20-17:03	065 ₁ 127 ₂ *	038	5	5	Cavity	Cavity and core superposed on streamer and rays. Loop becomes visible around cavity. Region is disrupted. Deflections.
Jun 19/20	171/172	23:41-04:20	~207	~045	Jun 19/20 23:41-01:21	126 ₁ *	215	11	8	Loop	Loop/cavity and core superposed on streamer (or fan). Deflections. Region is blown out.
					Jun 19/20 23:41-01:21	139 ₁ *	207	9	8	Cavity	
					Jun 20 00:58-02:57	178 ₁ *	207	6	6	Core	

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					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Jun 20	172	~03:00>14:17	301 302?	071 049?	—	—	—	—	1	Top of streamer	Streamer swells slowly. Low contrast cavity appears in streamer and blows out from ~04:05 until 14:17. Inner loop(s?)/cavity visible from ~13:53 until 14:17. Big deflections. Region is blown out following data gap from 14:17 until 04:10.
					—	—	—	—	1	Cavity	
											DATA GAP: Jun 20 14:22 to Jun 21 04:03.
Jun 21/24	173/176 173	~09:10~22:09 ~09:10~15:41	~272	~015	—	—	—	—	0	Too fuzzy	Very slow. Could be more than one event: 1. Narrow cavity in streamer. Streamer is disrupted. Deflections. 2. Small, narrow mound (or cloud). Deflections. 3. Slow rising, cloud superposed on streamer and rays. Region is blown out. Deflections.
					Jun 21/22 21:59-09:24	014 ₁ * 018 ₂	250	5	5	Mound	
					173/174 20:20>09:24	260?	024?	—	—	—	
	175/176	04:26~22:09	~260	~035	—	—	—	—	0	Too faint	
Jun 21	173	12:27-15:41	309	006	—	—	—	—	0	No clear front	Small blob and jet superposed on fan. Deflections.
											DATA GAP: Jun 21 12:27 to 15:19.
Jun 21/22	173/174	23:10-02:39	~103	~025	Jun 21/22 23:10-01:05	192 ₁ * 177 ₂	105	10	7	Loop	Very faint, very thin loop(?)/cavity with possible core superposed on rays and streamers. Deflections.
											DATA GAPS: Jun 22 09:29 to 12:22. Jun 22 12:23 to 21:34. Jun 24 08:55 to 11:55. Jun 25 04:43 to 15:05. Jun 25 18:23 to Jun 26 02:15. Jun 26 07:47 to 11:52.

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					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Jun 26/27	178/179	~12:27~00:47	207	068	Jun 26 21:51-22:03	449 ₁ * 351 ₂	220	8	5	Outer loop	Slow rising mound superposed on streamer. Concentric loops/cavities with core in same streamer late in event from 21:51 until ~22:03. Flattened loop/cavity from 23:07 until ~00:47 on Jun 27. Deflections. Are inner loop in 21:51 image and flattened loop in 23:07 image the same structure? Velocities of the two loops have been listed separately.
					Jun 26 21:51-22:03	473 ₁ * 740 ₂	220	8	5	Inner loop	
	178/179	23:07-00:47	210	017					Core		
			216	015	Jun 26 23:07-23:40	359 ₁ * 333 ₂	220	6	5	Flattened loop	
					Jun 26 23:07-23:40	366 ₁ * 335 ₂	215	8	5	Cavity following flattened loop	
Jun 27/28	179/180	~02:10~19:57	~226	~042	Jun 27 02:10-10:28	019 ₁ * 029 ₂	227	15	4	Outer cavity	Slow rising cavity with complex, structured (prominence?) cores in streamer. Faint loop(?) /cavity superposed on and north of same streamer from Jun 27 03:46 until ~08:46. Cavities and cores blow out slowly over two days. Streamer is blown out. Deflections.
					Jun 27 03:46-13:31	016 ₁ * 010 ₂	227	23	4	Outer core (prominence?)	
					Jun 27 07:15-23:05	017 ₁ * 022 ₂	226†	27	4	Inner core (prominence?)	
										DATA GAP: Jun 27 13:45 to 16:37.	
Jun 27	179	16:59?~23:07	247	035	Jun 27 16:59-17:25	346 ₁ * 413 ₂	253	4	3	Loop	Fuzzy, 'light-bulb'-shaped loop/cavity with complex (loop-shaped?) core between streamers and just north of Jun 27 02:10 event. Core is pinched at base to form concave-outward, 'C'-shape. Deflections. Event may have started earlier.
					Jun 27 16:59-17:27	333 ₁ * 276 ₂	253	9	4	Cavity	
					Jun 27 16:59-18:14	227 ₁ * 143 ₂	253	13	6	'C'-shape in core	
										DATA GAP: Jun 28 15:23 to 17:03.	
Jun 29	181	02:44>21:53	240	025	Jun 29 02:44-02:59	690 ₁ * 653 ₂	250	7	7	Loop	Could be two events: 1. Loop/cavity with complex, structured core superposed on rays. 2. Irregularly-shaped material (loop/cavity?) ejected between rays.
		02:44~04:29			Jun 29 18:39-18:59	1172 ₁ * 825 ₂					
		18:39~21:53	244	025							

† Position of feature was measured along a non-radial line.

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					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
											DATA GAPS: (due to premature closing of shutter) Jun 29 10:48 to 13:22. Jun 30 00:00 to 08:37.
Jul 01	183	01:01-02:44	255	—	—	—	—	—	0	No front	Small, narrow jet superposed on fan.
Jul 02	184	05:15~11:44	357	069	—	—	—	—	1	Faint	Faint cloud superposed on and between streamers. Deflections.
											DATA GAP: Jul 02 23:38 to Jul 03 03:34.
Jul 04	186	08:27-10:16	221	019	—	—	—	—	0	Front at 08:26 only	Fuzzy cloud superposed on pre-existing faint structures. Deflections.
Jul 05	187	06:45-13:18	355	076	—	—	—	—	0	No clear front	Could be more than one event: 1. Faint mound superposed on streamers. Deflections. 2. Narrow tongue (or loop/cavity).
		06:45~11:34			Jul 05 11:34-12:11	245 ₁ * 195 ₂	322 [†]	9	5	Tongue	
Jul 05	187	11:34~22:45	050? 045	050? 015	—	—	—	—	1	Mound	Mound superposed on streamers. Cavity embedded in north edge of mound superposed on northern streamer. Region of streamer in vicinity of cavity is blown out. Deflections.
Jul 05/06	187/188	11:36~22:47	084	068	Jul 06 00:21-08:20	025 ₁ 049 ₂ *	075	5	5	Loop (late in event)	Cavity rises slowly in broad diffuse streamer (or fan). Loop becomes visible around cavity Jun 06 at ~00:21. Bright core appears at 03:38 on Jun 06. Region is disrupted. Deflections.
Jul 05	187	~11:39~19:36	138	050	—	—	—	—	1	Loop	Fuzzy, faint loop/cavity with loop-shaped core superposed on streamer and rays. Deflections. Entire sector is brighter due to ongoing activity.
			134	025							
Jul 05/06	187/188	23:07~00:39	~305	~050	—	—	—	—	0	Too faint	Irregularly-shaped material superposed on fan.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		Feature
Jul 06	188	00:23~08:53	~263	~085	Jul 06 00:25-00:59	911 ₁ * 1005 ₂	270	16	7	Loop	Loop/cavity with amorphous core superposed on background fans. Region is disrupted. Big deflections.
					Jul 06 00:25-00:59	918 ₁ 1190 ₂ *	270	16	7	Cavity	
			249	045	Jul 06 00:32-00:58	832 ₁ * 863 ₂	250	8	5	Core	
											DATA GAP: Jul 06 09:00 to 11:39.
Jul 06/08	188/190	~17:54~05:47	300	033	—	—	—	—	0	Too fuzzy	Slow disruption of streamer. Deflections.
											DATA GAP: Jul 08 16:54 to 21:07.
Jul 09	191	00:11-02:08	292	026	Jul 09 00:11-00:52	484 ₁ * 388 ₂	300	9	7	Outer loop	Multiple, concentric loops/cavities with complex, structured (prominence?) core superposed on streamer. Loop front flattens as it moves outward. Loop becomes 'light-bulb'-shaped. Streamer is disrupted. Deflections.
					Jul 09 00:11-00:52	424 ₁ * 378 ₂	300	9	8	Inner cavity	
					Jul 09 00:11-00:57	409 ₁ * 408 ₂	300	10	7	Core (prominence?)	
Jul 09/10	191/192	01:50<08:16	077	037							Two part event. Poor coverage. Data dropouts and data gaps throughout both parts of event. 1. Cloud north of and superposed on streamer. 2. Elongated cloud. Could extend further south.
	191	01:50<22:43			—	—	—	—	0	No obvious front	
	192	~01:47<08:16			~064	~034	—	—	—	—	
											DATA GAPS: Jul 09 02:28 to 22:40. Jul 10 16:25 to 19:24. Jul 11 00:53 to Jul 12 16:03. Jul 12 16:43 to 20:55. Jul 13 03:40 to Jul 14 14:28.
Jul 15	197	05:29~11:10	090	014	—	—	—	—	0	No obvious front	Narrow, faint cloud superposed on streamers and rays.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Jul 16	198	17:35-23:57	226	057	Jul 16 17:35-19:13	091 ₁ *	225	4	3	Cavity	Faint, fuzzy, flattened loop/cavity with faint (loop-shaped?) core superposed on rays and streamers. Deflections.
											DATA GAP: Jul 16 19:27 to 22:17.
Jul 17	199	06:36~07:53	066?	034?	Jul 17 06:36:02-06:41:08	1054 ₁ *	068	4	5	Cavity	Could be two events. Same start/stop times for both parts. 1. Faint loop/cavity superposed on streamer.
			126?	046?	—	—	—	—	0	No clear front	2. Faint cloud superposed on streamers.
											DATA GAP: Jul 17 11:45 to 14:15.
Jul 17	199	<14:15~15:52	042	015	—	—	—	—	0	No obvious front	Faint mound (or loop/cavity) between streamers. Not visible in previous image at 11:14.
											DATA GAP: Jul 18 07:52 to 14:14.
Jul 19	201	06:15-11:05	358	075	—	—	—	—	1	Loop	Faint loop/cavity superposed on rays. Deflections. Region is disrupted.
											EAST DATA ONLY: Jul 19 18:57 to 22:48.
Jul 21	203	03:16~09:55	~255	~040	—	—	—	—	1	Mound	Mound superposed on streamer. Irregularly-shaped material seen in 06:12 image. Deflections. Event may be wider.
											DATA GAPS: Jul 21 03:35 to 06:06. Jul 21 06:52 to 09:18.
Jul 21/22	203/204	~21:21~09:45	~212	~045	—	—	—	—	0	Outer loop	Multiple loops/cavities superposed on streamer. Outer loop is very faint. Streamer is disrupted. Streamer began slow expansion and brightening early Jul 20.
					—	—	—	—	1	Inner loop	
Jul 22	204	<06:04~09:52	~315	~050	—	—	—	—	0	Missed front	Cloud superposed on fan. Missed front between 02:58 and 06:04 images. Deflections. Region is disrupted.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Jul 23	205	~03:05~07:53	260	050	—	—	—	—	0	No obvious front	Very faint cloud (or mound) south of streamer. Deflections.
											DATA GAPS: Jul 24 17:59 to 20:36. Jul 25 13:08 to 17:10.
Jul 27/28	209/210	20:37~07:52	230	020	—	—	—	—	1	Cavity	Cavity rises in streamer (or fan). Material rises above cavity. Region is disrupted. Deflections.
											DATA GAP: Jul 28 12:24 to 15:30.
Jul 29	211	05:06~17:53 05:06-07:51 10:54~17:53	278 ~292	024 ~055	Jul 29 05:06-06:09 —	455 ₁ * 560 ₂ —	275 —	5 —	5 0	Loop No obvious front	Could be two events: 1. Flattened, faint loop/cavity superposed on and north of streamer. Deflections. 2. Cloud (or irregularly-shaped material) superposed on rays and streamer. Region is disrupted.
											DATA GAPS: Jul 29 19:21 to Aug 01 23:35. Aug 02 01:53 to 15:23. Aug 02 22:30 to Aug 03 02:34. Aug 04 01:37 to 18:31. Aug 05 03:15 to 07:23. Aug 05 07:29 to 12:04.
Aug 05	218	19:16-23:22	075 070	041 014	Aug 05 20:00-20:50 Aug 05 19:16-20:50 Aug 05 20:00-22:05	386 ₁ * 417 ₂ 294 ₁ 424 ₂ * 193 ₁ * 222 ₂	060 070 070	11 12 22	4 5 6	Loop Cavity Core (prominence?)	Flattened loop/cavity with amorphous (prominence?) core superposed on streamer. North side of loop balloons outward. Streamer is partially blown out. Deflections.
											DATA GAP: Aug 06 11:04 to Aug 08 21:32.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments								
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual										
Aug 09	222	18:25~20:01	282	057	—	—	—	—	0	No apparent motion in 2 images 90 seconds apart.	Faint mound superposed on streamers.								
Aug 10	223	12:05~13:40	287	035	Aug 10 12:05-12:37	257 ₁ * 318 ₂	285	5	7	Loop	Faint, fuzzy loop/cavity with loop-shaped core superposed on faint fan.								
Aug 10/11	223/224	~21:28-02:30	107	034	Aug 10 21:28-21:50	367 ₁ * 349 ₂	105	4	3	Loop	Could be two events: 1. Fuzzy loop/cavity superposed on fan. 2. Bright, highly structured (prominence) material. Bright in h α filter at 01:11. Region is disrupted. Deflections.								
		224										01:11-02:30	~143	~040	Aug 10 02:11-02:30	394 ₁ * 442 ₂	151	8	7
											DATA GAP: Aug 11 02:30 to 04:33.								
Aug 11	224	07:03-08:37	052	035	Aug 11 07:05-07:20	325 ₁ * 394 ₂	051 \dagger	6	7	Back edge of loop	Complex, structured (prominence?) loop/cavity superposed on fan.								
Aug 11/12	224/225	~11:53-23:09	~226	~031	—	—	—	—	0	No obvious front	Three part event: 1. Faint mound (or cloud) superposed on and between streamers. 2. Cavity rises in faint streamer. Streamer is disrupted. 3. Fuzzy mound superposed on streamer.								
		224										~11:53~13:38	—	—	—	1	Cavity		
		224										~11:53~23:11	222	027	—	—	—	0	Too faint
		225										~11:54~23:09	~230	~030	—	—	—	—	0
Aug 12	225	07:02~08:33	104	025	—	—	—	—	1	Mound	Irregularly-shaped mound superposed on streamer and rays. Deflections.								
Aug 13	226	00:34-03:46	055	026	—	—	—	—	0		Mound (or loop/cavity) superposed on fan. Deflections. Artifact obscures front.								
Aug 13	226	13:21-15:16	134	080	Aug 13 13:21-13:48	634 ₁ 1340 ₂ *	100	7	6	Outer loop	Complex, structured, irregularly-shaped loop/cavity with structured core including interior, narrow loop/cavity in southern half of core. Event is superposed on pre-existing structures. Deflections.								
					Aug 13 13:23-13:48	376 ₁ * 531 ₂						165	7	4	Inner loop				
					Aug 13 13:23-13:50	328 ₁ * 667 ₂						165	7	3	Inner cavity				

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
											DATA GAPS: Aug 13 18:33 to 22:52. Aug 14 14:58 to 18:13. Aug 15 11:52 to 16:26.
Aug 15/17	228/230	~21:22~02:33	~095 055 ~058	— 029 ~018	—	—	—	—	0		Two part event: 1. Fan ejected. 2. Material in streamer slowly expands and elongates. Cavity and core become visible in streamer late in event on Aug 16 ~19:36. Thick loop(?) becomes visible around cavity. Core is pinched at base to form concave-outward 'V'-shaped structure. Streamer is blown out. 'Light-bulb' shaped event.
	228/229	~21:22-11:47			—	—	—	—	0	No clear front	
	228/230	22:52?~02:33			Aug 16/17 19:36-01:06	069 ₁ 113 ₂ *	060	28	5	Cavity (late in event)	
											DATA GAPS: Aug 16 05:39 to 11:40. Aug 16 11:47 to 16:53. Aug 17 07:14 to 13:10.
Aug 18	231	11:43-16:19	113	048	Aug 18 11:43-12:15	408 ₁ 594 ₂ *	113	10	7	Loop	Cavity and highly structured (prominence) core rise in streamer. Streamer deforms into frontal loop around cavity. Loop front flattens and sharpens as it moves outward. Core is extremely bright in h α filter from 11:50 until 15:26. Streamer is blown out. Big deflections.
					Aug 18 11:43-12:15	499 ₁ 616 ₂ *	113	11	9	Cavity	
					Aug 18 11:43-13:10	502 ₁ 729 ₂ *	118	10	9	Core (prominence)	
Aug 18/19	231/232	~16:16~11:39	070	034	—	—	—	—	1	Top of streamer	Cavity rises slowly within streamer. Streamer expands and blows out by Aug 19 07:18. Jets ejected until ~11:39 on Aug 19.
											DATA GAPS: Aug 19 14:52 to 17:51. Aug 19 18:15 to 20:12. Aug 19 20:16 to Aug 21 01:49. Aug 21 03:27 to 06:37.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Aug 21/22	234/235	09:58?~06:46	~250	~020	—	—	—	—	0	No obvious front	Material in streamer expands laterally (northward) and outward. Deflections. Region is disrupted. Material may extend as far south as 210°.
Aug 22/23	235/236	05:42-03:57	069	042	—	—	—	—	1	Mound	Mound (or cloud) superposed on streamer. Big deflections. Region is disrupted following data gap from Aug 22 08:25 until 16:12. Jets (or fan) are ejected in region after data gap until ~03:57 on Aug 23.
											DATA GAP: Aug 22 08:54 to 16:10.
Aug 22	235	18:30-21:36	281	023	Aug 22 18:30-20:08	298 ₁ * 292 ₂	288†	23	7	Material (prominence)	Highly structured, complex (prominence) material superposed on fan (or streamer). Material is bright in h α filter from 18:30 until 19:49. Could have missed front of event between 16:51 and 18:30 images. Region is blown out. Deflections.
											DATA GAPS: Aug 23 04:02 to 07:16. Aug 24 04:03 to 08:08. Aug 25 03:48 to 08:26. Aug 25 12:47 to 17:49.
Aug 25/26	238/239	17:52~08:24	~267	~035	—	—	—	—	0	No obvious front	Cloud superposed on streamer. Deflections.
Aug 25/26	238/239	18:15~11:30	088	028	Aug 26 06:28-09:40	048 ₁ * 054 ₂	075†	3	4	Concave-outward structure	Narrow jet emerges along ray. Blob ejected along same ray at 19:18. Blob is pinched at base at 22:36. By 06:28 event is concave-outward, 'U'-shaped. Gone from field-of-view by 11:30. Deflections. Ray is blown out. Motion in region south of event.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
											DATA GAPS: Aug 27 13:26 to 17:34. Aug 28 10:08 to 14:39. Aug 28 21:32 to Aug 29 03:39. Aug 29 13:20 to Aug 30 03:04. Aug 30 05:26 to 09:29. Aug 30 10:14 to 12:38.
Aug 30	243	14:32~19:06	180	049	Aug 30 14:32-18:12	059 ₁ * 047 ₂	175	3	5	Cavity	Loop/cavity superposed(?) on streamer. Spans pylon shadow. Deflections.
Aug 30/31	243/244	20:38~01:26	143	095	Aug 30 20:38-21:09	780 ₁ 1097 ₂ *	145	7	9	Loop	Thin loop/cavity with highly structured (prominence) core superposed on rays. Core is bright in h α filter from 20:56 until 22:38. Loop spreads laterally and outward. Big deflections. Region is disrupted. Small blobs ejected until ~01:26 on Aug 31.
					Aug 30 20:38-20:56	705 ₁ * 611 ₂	145	5	9	Cavity	
					Aug 30 20:38-21:17	663 ₁ * 692 ₂	154 \dagger	8	7	Core (prominence)	
Aug 31	244	03:01~07:56	051	058	—	—	—	—	1	Mound	Mound (or loop/cavity) with structured, interior, loop-shaped (prominence?) core superposed on streamer (or fan). Region is disrupted.
Aug 31	244	~03:09~11:07	098	025	—	—	—	—	0	No obvious front	Mound (or cloud) with possible cavity superposed on streamer. Deflections.
Aug 31	244	~06:17>23:54	240	040	—	—	—	—	1	Very little motion while visible	Faint loop/cavity (or mound) and core superposed on and south of streamer. Deflections. Data gap occurs during event.
											DATA GAP: Aug 31 13:20 to 20:35.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Sep 01	245	06:11-07:46	297	055	Sep 01 06:18-06:27	810 ₁ * 629 ₂	280	6	7	Outer loop	Multiple, concentric loops/cavities with highly complex, multi-featured (prominence?) core superposed on streamer. Loop front is flattened. Streamer is blown out. Big deflections.
					Sep 01 06:18-06:27	642 ₁ * 517 ₂	285	7	6	Outer cavity	
			297	023	Sep 01 06:18-06:27	626 ₁ * 683 ₂	290	7	7	'Mushroom-shape' (prominence?) core	
Sep 01	245	11:31-14:20	085	029	—	—	—	—	0	Front in one image only	Loop/cavity (or mound) superposed on streamer. Streamer is disrupted. Deflections.
Sep 06	250	~02:46>14:02	320	020	Sep 06 03:08-09:10	018 ₁ * 011 ₂	322	6	5	Northern cavity	Multiple adjacent loops/cavities: 1. Northern loop/cavity superposed on streamer. Moves more slowly than southern loop. Ends after data gap. 2. Southern loop/cavity superposed on streamer. Loop and streamer are blown out by 06:04. Deflections.
		~02:46>14:02									
											DATA GAPS: Sep 01 16:35 to Sep 05 20:22.
											DATA GAPS: Sep 06 16:07 to Sep 07 21:53. Sep 08 01:51 to Sep 10 15:32.
											Due to large data gaps we will list times when DATA IS AVAILABLE: Sep 10 15:32 to 17:26. Sep 12 16:52 to 17:29. Sep 12 23:16 to 23:20. Sep 20 19:42 to Sep 21 20:24 Sep 22 16:47 to Sep 23 02:40.
Sep 22/23	266/267	~17:00>02:40	068	044	Sep 22/23 17:00-02:35	011 ₁ * 017 ₂	065	16	3	Mound	Faint mound (or cloud) between streamers. Observations end during event.
											DATA ENDS: Sep 23, 1980.
											Continuous operations resume Jun 07, 1984.

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