

Part III

Table I

Flux Emergence Time and Location 2006

“Rising R Limb”, -developed center-to-limb and electron-rich spots

“E Limb”, - brought into view in basic phase of formation.

“Escort T.” -emergence of the temporal escort flux that is associated with filament,

No.	Date	Spots NOAA number	Birth time UT	Location on solar disk
1	06.01.03	xxx	3:15 4:56	N17.5 E31.6
2	06.01.04	xxx	9:39 11:12	N2.8 E66.5
3	06.01.04	xxx	14:24 16:00	N24.8 W29
4	06.01.05	xxx	12:48 14:24	S19.2 W11.7
5	07.01.06	0845	Developed stage Rising limb	N18.8 E80.1
6	306.01.1	0846	20:51 22:24	N4.7 E6.9
7	06.01.14	0847	14:24 16:00	S7.1 E15.4
8	06.01.17	0848	20:51 22:24	S18.4 E64.8
9	06.01.20 main 06.01.20 escort	0849	Eastern limb Escort 1:35 3:15	S1.8 E84.8 S5.1 W5.3
10	06.01.21	0850	19:12 20:48	N5.6 E35.3
11	06.01.27	0851	00:00 1:36	S14.4 W60.2
12	06.01.28	xxx	17:36 19:15	S12.2 w25.6
13	06.02.02	xxx	6:24 8:00	S11.5 E41.8
14	06.02.02	xxx	8:00 9:39	S35.5 E9.6
15	06.02.06	0852	19:15 20:51	S10.1 E41.4
16	06.02.08	0853	8:03 9:39	S9.5 W37.5
17	.02.1106	xxx	00:00 1:39	S0.2 E35
18	06.02.12 0854	0854	17:36 19:15	S7.9 E78
19	06.02.16	0855	4:48 6:24	N5.4 E54
20	06.02.17 06.02.17	Xxx xxx	1:39 3:15 1:39 3:15	N2.7 E20.1 N3.9 E71
21	06.02.26 06.02.25 escort	0856	Eastern limb 22:27 00:00	S9.6 E79.4 S9.2 W67
22	06.03.04	0857	1:39 3:15	N8.2 E76.4
23	06.03.04	xxx	9:39 11:15	S16.9 E62.8
24	06.03.11	0858	12:51 14:27	N16.2 E42.8

52	06.03.10 06.03.12	0859 0860	4:51 9:09 Eastern limb	S7.2 W36.8 S5.7 E82.8
26	06.03.13 .03.1406	0861	miss 12H 8:04 8:03 data e.limb	S10.9 E68.8
27	06.03.19	xxx	4:51 6:27	N5.6 W23.9
28	06.03.20	0862	17:39 19:15	S15.4 W20.2
29	06.03.22	0863	17:35 19:11	S12.6 W56.5
30	06.03.23	xxx	9:35 11:11	S4.9 W51.7
31	06.03.25	0864	00:00 1:45	S8.9 W72.7
32	06.03.27 06.03.26 escort	0865	Eastern limb 1:35 3:11	S11.9 E81.4 S15.7 E7.9
33	03.2806. escort 06.03.28	0866	R.limb developed 1:35 3:11	S6.4 E82.1 S4.5 W26.6
34	06.03.31	0867	1:35 3:11	S16.4 E65.8
35	06.04.03	0868	12:47 14:23	S7.3 E37
36	06.04.05	0869	1:35 3:11	S13.2 E63.1
37	06.04.10	0870	4:47 6:24	N3.3 E27.5
38	06.04.08	0871	Developed stage Rising limb	S4.1 E84.2
39	06.04.09	xxx	14:23 15:59	S8.2 E48.7
40	06.04.11 06.04.10 escort	0872	Eastern limb 23:59 1:35	S8.3 E82.5 S10.4 E4.2
41	06.04.09	0873	Eastern limb	S3 E83.8
42	06.04.14 06.04.13 escort	0874	Eastern limb 17:35 19:11	S0.4 E82.8 S1.7 W71.7
43	20.04.20	xxx	1:35 3:11	S15.8 E76
44	06.04.23	0875	Developed stage Rising limb	S13.1 E79
45	06.04.24	0876	Developed stage Rising limb	S14.7 E80.8
46	06.04.24	0877	Eastern limb 15:59 17:35	S5.3 E82
47	06.04.28	xxx	15:59 14:23	N6.9 E59
48	06.04.29	0878	Eastern limb	N14.3 E78
49	06.04.30	0879	20:51 22:24	N15.5 E46.9
50	06.05.01	xxx	1:35 3:11	N15.2 E44.2
51	06.05.03	0880	Eastern limb	S8.9 E82.9
52	06.05.05	0881	Eastern limb	S11.4 E82.8
53	06.05.02	0882	22:23 23:59	S10.7 E49.6
54	.05.0606	0883	1:35 3:11 e.limb	S6.8 E80.8
55	06.05.07	xxx	3:15 4:51	N2.4 E35
56	06.05.15	xxx	17:35 19:11	N34.4 W12.4
57	06.05.17	0884	4:47 6:22 e.limb	S13.3 E75.7
58	06.05.18 06.05.18 escort	0885 e.limb	Eastern limb 11:11 12:47	S7.6 E81.4 S11.2 E1.9
59	06.05.20	xxx	15:59 17:35	N17.4 W23.6
60	06.05.22	0886	3:11 4:47	N7.5 E76.7
61	06.05.25	0887	Eastern limb	S12.5 E78.6

62	06.05.25	0888	1:39 3:11	N3.9 W51
63	06.05.27	0889	3:11 4:47	S1.3 E15
64	06.05.28	0890	4:51 6:23	S13.5 W27
65	06.05.28	0891	12:51 14:47	S12 E63.8
66	06.05.31	xxx	00:00 1:35	N2.0 W1.9
67	06.06.03	xxx	16:03 17:39	N6.5 E27.6
68	06.06.03	0892	Developed stage Rising limb	S4.9 E80.1
69	06.06.04	0893	Eastern limb No time data	S0.9 E82
70	06.06.06	xxx	8:03 No time 16:03 data	S18.5 E12.6
71	06.06.08	0894	1:39 3:11	S3.5 E80.1
72	06.06.10 06.06.11	xxx	22:23 00:03	N6.8 W42.5
73	06.06.15	0895	4:47 6:27	N0.7 E59.4
74	06.06.16 06.06.16 escort	0896	1:35 3:11	S18.3 E75.3 S17.8 W12.4
75	06.06.16	xxx	11:11 12:47	N10.8 E72.6
76	06.06.21	xxx	17:35 19:15	S8.9 E63.5
77	.06.2206	xxx	1:39 3:15	S3.3 W15.8
78	06.06.25	0897	Developed stage Rising limb	N6.5 E80.8
79	06.06.27	0898	Eastern limb	S4.5 E79.8
80	06.07.02	xxx	17:30 19:12	N7.2 E75.3
81	06.07.04	0899	Eastern limb	S4.2 E79.7
82	.07.0506	xxx	17:35 19:11	S25.5 W22.9
83	06.07.07	xxx	4:47 6:23	N19.8 E54
84	06.07.13	0900	6:24 8:00	S4.3 E75.7
85	06.07.15	xxx	00:00 1:36	S3.8 E63.5
86	06.07.17	0901	Developed stage Rising limb	N6.2 E81.1
87	06.07.21	xxx	1:35 3:12	S11.7 W12.1
88	06.07.21 06.07.22	xxx	23:59 1:35	S1.4 E6.2
89	06.07.25	xxx	6:23 7:42	S14.8 W28
90	06.07.29	0902	1:39 3:15	S8.9 W7.3
91	06.07.30	xxx	9:36 11:12	S12.7 W59.2
92	06.08.03	0903	Eastern limb	S4.7 E82.1
93	06.08.03	xxx	00:00 01:36	S8.5 W8.3
94	06.08.04	xxx	00:00 01:39	N13.7 E71.3
95	.08.0906	0904	Eastern limb	S11.6 E80.1
96	06.08.12	xxx	14:27 16:03	N16.6 E60.4
97	06.08.14 06.08.14 escort	xxx	Eastern limb 8:03 9:36	N7.2 E81.4 N11.8 W27

98	06.08.18	xxx	00:03 1:36	S7.8 E9.9
99	2106.08.	0905	Developed stage Rising limb	S5.7 E79.6
100	06.08.29 06.08.30	xxx	16:00 missing 8:08 8H data	N12.1 E9.6
101	.08.3006	0906	8:03 missing 16:03 8H data	S8.5 W43.2
102	06.08.31	xxx	9:39 missing 14:27 7H data	N6.8 W65
103	06.09.01 06.09.02	xxx	1:10 missing 00:03 23H data	N2.4 E12.3
104	06.09.02	0909	Developed stage Rising limb	S3.7 E81.1
105	06.09.04	xxx	8:03 missing 16:03 8H data	N15.6 E50.3
106	06.09.05	xxx	8:03 missing 16:03 8H data	N4.2 E46.9
107	06.09.06	0907	Developed stage Rising limb	S10.8 E76.7
108	06.09.06	0908	Developed stage Rising limb	S10.1 E76.7
109	06.09.09	xxx	00:00 missing 14:27 14H data	S5.4 W44.9
110	06.09.14	xxx	01:25 missing 14:27 13H data	S2.5 E49.9
111	06.09.16	0910	Eastern limb	S8.4 E79.4
112	06.09.17	xxx	14:27 16:03	S11.8 E3.5
113	06.09.20	xxx	17:39 19:15	S4.2 E1.8
114	06.09.24	xxx	6:27 8:00	S10.4 W39.2
115	06.09.25	xxx	4:48 6:27	N4.0 E24.2
116	06.09.26 06.09.26 escort	0911	Eastern limb 16:03 17:36	N8.6 E81.4 N9.5 W60.2
117	06.09.28 06.09.28 escort	0912	Eastern limb 00:03 1:36	N4.1 E81.4 N7.1 W5.3
118	06.09.28	0913	Developed stage Rising limb	S16.4 E77.7
119	06.09.28	0914	Eastern limb	S8.5 E80.4
120	06.09.28	0915	20:48 22:24	S6.8 W43.3
121	06.09.30	xxx	7:59 9:35	S15.4 W64.6
122	06.10.01	xxx	3:11 4:47	N6.9 E42.5
123	06.10.03	xxx	19:15 20:51	S7.8 W6.3
124	.10.0406	xxx	12:51 14:27	N7.0 W45.6
125	06.10.05	xxx	Eastern limb	S6.3 E78.1
126	06.10.08	0916	14:24 16:00	S13.2 E33.3
127	06.10.08 06.10.09	xxx	22:27 00:03	S22.1 E3.5
128	06.10.09	xxx	00:03 01:36	N34.9 29.6
129	06.10.11	xxx	17:39 19:15	N40.8 W14.8
130	06.10.13	xxx	1:36 3:12	N2.0 W11.7
131	06.10.15	xxx	00:03 01:39	N7.2 E39.8
132	06.10.17	xxx	Eastern limb	S6.1 E82.1
133	06.10.17	xxx	09:39 11:13	N12.7 E77.7
134	06.10.18	0917	4:51	S5.9 E28.2

			6:24	
135	06.10.22	0918	16:03 17:39	S2.5 W68.3
136	06.10.23	xxx	4:48 6:24	S7.0 W13.4
137	06.10.24	xxx	4:48 6:27	S8.7 E75.7
138	06.10.25	xxx	4:51 6:27	S14.3 W22.9
139	06.10.26 06.10.27	0920	23:59 1:35	S4.7 W64.3
140	06.10.26 06.10.27	0919	23:59 01:35	S15.0 E12.0
141	06.10.27	xxx	1:36 3:12	S9.1 E38.7
142	06.10.29	0921	16:03 19:15	S5.0 E80.8
143	06.10.30	0922	Eastern limb	S11.5 E80.1
144	06.10.31	xxx	11:11 12:51	N9.5 W28
145	06.11.02	xxx	3:11 4:47	S11.5 E66.2
146	06.11.05 06.11.06	xxx	23:59 1:35	N9.7 E57
147	06.11.06	xxx	6:23 7:59	N9.5 E1.5
148	06.11.07	0923	Developed stage Rising limb	S3.0 E81.4
149	06.11.08	xxx	11:15 12:51	S7.3 E32
150	06.11.11	xxx	14:23 15:59	S16.7 W23.9
151	06.11.12	0924	17:35 19:11	S7.7 E78.1
152	06.11.12	0925	Eastern limb	S5.0 E81.1
153	06.11.16	xxx	14:27 16:03	S12.0 W60.2
154	06.11.23	xxx	4:47 6:27	S2.5 E63.5
155	.11.2506	xxx	16:03 17:39	S27.6 E40.8
156	06.11.26	0926	Eastern limb	S9.4 E81.4
157	06.11.26	xxx	1:35 3:11	N1.7 W12.8
158	06.11.26	xxx	19:15 20:47	S11.9 W53.4
159	06.11.26	0927	Eastern limb	N12.1 E78.4
160	06.11.28	0928	6:27 missing 22:27 16H data	S8.3 W5.3
161	06.12.04	0929	Eastern limb	N1.6 E81.8
162	06.12.05 06.12.04 escort	0930	Eastern limb 4:51 6:23	S3.7 E80.4 S4.1 E30.6
163	06.12.10	xxx	00:03 03:15	S7.2 E6.2
164	06.12.19	xxx	6:27 8:23	S32.7 E52.3
165	306.12.2	xxx	23:59 01:39	N12.0 E66.9
166	06.12.24	0931	Eastern limb	S8.5 E80.1
167	06.12.25	0932	3:12 4:51	S6.2 E58.4
168	06.12.28	xxx	14:23 15:59	S6.4 E3.8
169	06.12.30	0933	Developed stage Rising limb	S6.2 E81.1