

Table 1 lists isolated Type III radio bursts observed by e-CALLISTO network within the period from January 2010 to December 2017. Similarly, Table 2 presents group of Type III bursts observed by same network in the same study period. For each event, the time (year, month and day) is indicated (column 2), the start of the burst (column 3), its end (column 4), the upper frequency (F_u) of the burst (column 5), lower frequency (F_l) (column 6), station id (column 7), the onset of the flare (column 8), its end (column 9) the peak time of the flare (column 10), the H_α position or location of the flare (column 11), the class of the flare (column 12), onset of the CME (column 13), the linear speed of CME (column 14), and CME width; respectively.

Table 1: Isolated Type III burst events observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
1	2010/03/30	03:07:55	03:08:05	190	18	SSRT	....	....	....	....	....	02:54	265	81
2	2010/05/08	04:57:50	04:58:25	450	170	BLEN7M	04:51	05:04	04:59	N38W65	C9.3	05:30	622	33
3	2010/08/01	11:46:50	11:47:00	360	170	BLEN7M	....	....	....	....	....	....	....	....
4	2010/11/12	03:53:25	03:54:05	170	45	OOTY	03:44	04:08	03:53	....	C1.0	04:48	247	80
5	2010/11/12	11:53:25	11:54:00	460	170	BLEN7M	11:43	12:05	11:57	....	B2.2	....	....	....
6	2010/11/13	10:26:45	10:27:25	300	170	BLEN7M	10:24	10:34	10:29	....	B4:3	10:48	365	118
7	2011/02/14	09:36:50	09:37:30	350	170	BLEN7M	....	....	....	....	....	....	....	....
8	2011/02/14	15:00:10	15:00:50	140	45	HUMAIN	....	....	....	....	....	....	....	....
9	2011/02/15	04:29:00	04:29:50	330	40	OOTY	04:27	04:37	04:32	S20W08	C4.8	....	....	....
10	2011/02/15	07:57:30	07:58:05	370	170	BLEN7M	....	....	....	....	....	....	....	....
11	2011/02/15	08:58:00	08:58:50	400	170	BLEN7M	....	....	....	....	....	....	....	....
12	2011/02/15	12:26:45	12:27:00	450	170	BLEN7M	....	....	....	....	....	....	....	....
13	2011/03/21	11:46:25	11:46:47	450	170	BLEN7M	11:45	11:50	11:47	N20W87	C2.6	12:24	279	17
14	2011/03/22	10:16:35	10:17:25	380	170	BLEN7M	....	....	....	....	....	....	....	....
15	2011/03/24	15:34:15	15:34:45	560	170	BLEN7M	15:31	15:42	15:37	S14E41	C1.6	....	....	....
16	2011/03/27	13:59:30	14:00:25	380	170	BLEN7M	13:57	14:03	14:00	S15E02	B5.9	....	....	....
17	2011/09/19	15:38:20	15:39:00	370	170	BLEN7M	15:35	15:47	15:41	N23E67	C6.9	16:00	316	73
18	2011/09/20	12:29:10	12:30:00	320	170	BLEN7M	12:28	12:38	12:34	N23E55	C1.7	13:25	286	53
19	2011/09/20	12:53:00	12:53:45	65	20	BIR	12:44	14:22	13:53	N19E79	C2.5	13:25	286	53
20	2011/09/20	15:45:40	15:46:00	340	170	BLEN7M	15:45	16:57	16:33	N14E88	C1.5	....	....	....
21	2011/09/24	15:30:00	15:30:30	400	170	BLEN7M	....	....	....	....	....	....	....	....
22	2011/09/29	10:21:35	10:22:25	380	170	BLEN7M	10:19	10:25	10:23	N14E21	C1.3	....	....	....
23	2011/10/05	11:20:15	11:21:10	860	250	BLEN7M	10:43	11:37	11:22	S15E81	C6.1	....	....	....
24	2011/10/13	14:50:00	14:50:45	870	560	BLEN7M	14:49	14:55	14:53	N25E23	B8.6	15:24	472	45
25	2011/11/09	13:11:35	13:12:00	185	115	BIR	13:04	14:12	13:35	N24E35	M1.1	13:36	907	360
26	2011/11/17	07:22:30	07:23:20	300	45	OOTY	07:16	07:30	07:27	S19E08	C6.0	07:48	458	97
27	2011/12/19	13:40:00	13:40:40	390	170	BLEN7M	....	....	....	....	....	12:36	1092	154
28	2011/12/21	11:01:00	11:01:25	450	150	OSRA	11:02	11:07	11:05	S19W01	C2.1	....	....	....
29	2011/12/27	09:06:00	09:06:35	340	245	KRIM	....	....	....	....	....	12:36	1092	154
30	2012/01/11	14:50:55	14:51:25	120	45	HUMAIN	....	....	....	....	....	12:36	1092	154
31	2012/01/20	10:52:10	10:53:00	380	45	OOTY	....	....	....	....	....	12:36	1092	154
32	2012/03/11	06:39:55	06:44:35	170	45	HUMAIN	06:38	06:46	06:44	N20W28	C1.2	....	....	....
33	2012/04/05	16:22:05	16:22:55	560	250	BLEN7M	17:20	17:30	17:26	N13E56	C7:4			
34	2012/04/24	11:59:50	12:00:00	380	170	BLEN7M	11:39	12:02	11:51	S23W88	C1.1			

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		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
35	2012/05/07	11:06:50	11:07:45	870	200	BLEN7M	11:02	11:11	11:08	N13E60	C7.9	....	....	....
36	2012/05/07	17:25:25	17:24:15	870	400	BLEN7M	17:20	17:30	17:26	N13E56	C7.4	....	....	....
37	2012/05/10	00:10:00	00:10:15	360	45	SSRT	00:10	00:16	00:14	N07E14	C1.4	....	....	....
38	2012/05/10	04:18:50	04:19:00	160	50	GAURI	04:11	04:23	04:18	N12E22	M5.7	....	....	....
39	2012/05/10	07:10:00	07:10:30	130	45	GAURI	....	....	....	....	....	....	....	....
40	2012/05/10	15:30:10	15:31:00	350	45	HUMAIN	....	....	....	....	....	....	....	....
41	2012/05/14	09:39:20	09:40:00	140	45	GAURI	09:35	09:46	09:39	N07W45	C2.5	10:12	551	48
42	2012/05/18	04:48:10	04:49:00	270	45	OOTY	04:45	04:55	04:51	N13W10	B7.7	....	....	....
43	2012/05/19	08:07:25	08:08:00	345	250	KRIM	....	....	....	....	....	07:24	201	27
44	2012/05/26	05:41:00	05:41:50	170	45	GAURI	05:39	05:44	05:42	S13E75	B5.7	....	....	....
45	2012/06/06	04:22:00	04:22:15	140	45	GAURI	....	....	....	....	....	....	....	....
46	2012/07/01	06:38:00	06:38:10	260	45	OOTY	....	....	....	....	....	06:12	423	181
47	2012/07/01	18:10:30	18:10:37	865	170	BLEN7M	18:07	18:15	18:12	S17E14	C2.7	....	....	....
48	2012/07/02	14:45:55	14:46:45	865	170	BLEN7M	14:32	14:52	14:46	S16E05	C1.7	14:44	581	133
49	2012/07/02	16:39:05	16:39:20	360	170	BLEN7M	16:37	16:52	16:44	S17E03	C2.0	....	....	....
50	2012/07/03	04:16:00	04:16:25	340	250	KRIM	04:14	04:20	04:18	S17W03	C2.4	....	....	....
51	2012/07/04	04:30:50	04:31:05	400	170	BLEN7M	04:28	04:45	04:37	S17W18	M2.3	05:12	381	110
52	2012/07/14	05:15:20	05:15:50	180	45	SSRT	....	....	....	....	....	04:48	293	10
53	2012/07/14	07:32:20	07:33:00	220	45	HUMAIN	07:31	07:37	07:34	S12W16	C2.0	08:24	126	101
54	2012/07/31	15:12:00	15:12:25	320	230	TRIEST	15:10	15:22	15:15	S25E24	C1.7	....	....	....
55	2012/08/04	09:31:40	09:32:00	70	18	BIR	....	....	....	....	....	....	....	....
56	2012/08/06	08:13:30	08:14:10	345	250	KRIM	08:10	08:21	08:17	N32W13	C6.3	08:36	242	56
57	2012/08/06	08:45:30	08:46:15	90	30	BIR	08:44	08:51	08:48	N13W78	B9.3	....	....	....
58	2012/08/08	07:28:00	07:28:45	450	170	BLEN7M	07:26	07:35	07:31	S16E56	C1.3	....	....	....
59	2012/09/02	07:25:20	07:25:50	410	45	GAURI	....	....	....	....	....	....	....	....
60	2012/09/03	07:27:30	07:28:00	410	45	GAURI	....	....	....	....	....	....	....	....
61	2012/09/12	04:18:40	04:19:20	410	45	GAURI	....	....	....	....	....	....	....	....
62	2012/09/12	07:24:30	07:25:20	410	45	GAURI	....	....	....	....	....	....	....	....
63	2012/09/13	07:14:35	07:14:45	800	160	BLEN7M	07:10	07:20	07:16	....	C1.8	07:48	341	174
64	2012/09/24	15:40:50	15:41:30	400	150	BLEN7M	15:39	15:45	15:42	N20E20	C1.6	....	....	....
65	2012/10/10	10:46:30	10:47:00	400	110	BLEN7M	10:44	10:52	10:49	S17W34	B8.4	11:48	330	12
66	2012/10/10	14:27:00	14:27:25	420	180	BLEN7M	14:25	14:34	14:31	S20W35	C2.1	....	....	....
67	2012/10/26	14:11:00	14:11:50	90	20	BIR								
68	2012/10/27	08:09:50	08:10:40	172	45	GAURI	07:25	08:14	07:48	S25W87	B7.2			

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		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
69	2012/11/12	10:19:07	10:20:00	380	110	BLEN7M	10:17	10:25	10:22	S23W01	C2.9	10:24	494	54
70	2012/12/18	12:35:05	12:35:50	80	45	GLASGOW	....	....	....	....	....	....	....	....
71	2013/01/04	07:27:55	07:28:05	345	250	KRIM	....	....	....	....	....	07:12	163	41
72	2013/01/11	09:05:00	09:05:30	870	250	BLEN7M	08:43	09:17	09:11	N05E36	M1.2	....	....	....
73	2013/01/13	08:36:25	08:36:55	460	135	BLEN7M	08:35	08:40	08:38	N17W22	M1.7	08:48	696	46
74	2013/02/04	14:56:00	14:56:30	400	150	BLEN7M	14:53	15:03	14:59	N09E71	C2.0	15:36	176	29
75	2013/02/05	08:14:00	08:14:50	450	250	BLEN7M	08:12	08:22	08:19	N09E63	C6.3	08:36	444	66
76	2013/02/06	00:09:30	00:10:10	170	100	KASI	00:04	00:41	00:21	N22E19	C8.8	00:24	1867	271
77	2013/02/17	15:47:05	15:47:35	870	140	BLEN7M	15:45	15:52	15:50	N12E22	M1.9	....	....	....
78	2013/03/16	13:31:30	13:32:20	80	45	GLASGOW	....	....	....	....	....	....	....	....
79	2013/03/31	12:32:50	12:33:20	80	45	GLASGOW	....	....	....	....	....	11:36	402	29
80	2013/04/06	06:47:00	06:47:35	170	45	GAURI	06:39	06:51	06:46	N20E43	C1.0	07:12	192	40
81	2013/04/21	05:59:50	06:00:10	180	45	MRT1	05:57	06:02	06:00	N14W11	C2.7	....	....	....
82	2013/04/21	12:42:00	12:42:20	80	45	GLASGOW	....	....	....	....	....	....	....	....
83	2013/04/21	16:03:00	16:03:15	200	110	BIR	16:00	16:06	16:03	N13W18	C2.9	16:00	857	130
84	2013/04/22	00:56:15	00:56:35	180	80	SSRT	00:54	01:01	00:58	N11W23	B9.5	....	....	....
85	2013/04/22	04:51:30	04:52:00	180	45	GAURI	04:43	04:51	04:46	N14W22	B6.2	05:00	398	18
86	2013/04/22	10:28:00	10:28:20	450	120	BLEN7M	10:22	10:31	10:29	N13W24	M1.0	11:12	402	74
87	2013/04/23	04:20:20	04:21:00	180	45	GAURI	04:19	04:23	04:21	N12W41	C1.1	04:12	435	90
88	2013/04/23	11:41:10	11:42:00	80	45	GLASGOW	11:38	11:44	11:41	N13W36	B8.8	11:48	450	41
89	2013/04/23	15:16:50	15:17:00	80	45	GLASGOW	15:15	15:20	15:18	N15W40	C2.5	16:13	548	57
90	2013/05/07	08:18:25	08:19:00	870	120	BLEN7M	08:16	08:33	08:23	S18W28	C1.6	....	....	....
91	2013/05/09	05:19:30	05:19:50	420	200	BLEN7M	05:16	05:31	05:23	S16W54	C3.4	....	....	....
92	2013/06/24	11:30:45	11:31:25	370	120	BLEN7M	11:27	11:36	11:32	S17E54	C9.9	12:24	182	75
93	2013/07/03	20:02:10	20:02:50	285	105	BIR	19:59	20:08	20:04	S06E52	C6.0	....	....	....
94	2013/07/05	10:07:50	10:08:05	80	45	GLASGOW	....	....	....	....	....	....	....	....
95	2013/07/05	14:49:20	14:50:00	87	15	BIR	....	....	....	....	....	....	....	....
96	2013/07/05	21:33:00	21:33:40	350	120	KASI	21:30	21:39	21:35	S07E21	C3.5	21:36	117	27
97	2013/07/06	02:08:15	02:09:00	170	45	SSRT	....	....	....	....	....	....	....	....
98	2013/07/07	05:46:45	05:47:30	140	45	GAURI	....	....	....	....	....	....	....	....
99	2013/07/09	12:47:00	12:47:50	80	45	GLASGOW	....	....	....	....	....	12:00	652	37
100	2013/07/17	09:15:05	09:15:55	80	45	GLASGOW	09:12	09:19	09:16	N20W76	C1.6	09:36	169	74
101	2013/09/02	06:10:30	06:10:50	350	250	KRIM								
102	2013/10/09	13:39:50	13:40:25	80	45	GLASGOW								

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		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
103	2013/10/18	10:53:20	10:54:00	230	110	BIR	10:51	10:56	10:54	N05E74	C4.7	....	....	....
104	2013/10/19	15:54:50	15:55:10	350	107	BIR	....	....	....	....	....	....	....	....
105	2013/10/21	09:21:35	09:22:00	380	170	BLEN7M	09:19	09:25	09:22	N07E26	C1.0	....	....	....
106	2013/10/21	14:35:15	14:36:00	80	45	GLASGOW	14:33	15:36	14:44	N09E24	C1.1	....	....	....
107	2013/10/22	13:27:35	13:28:00	385	112	BIR	13:25	13:36	13:30	N06E04	C1.8	....	....	....
108	2013/10/25	12:03:45	12:04:00	370	110	BIR	....	....	....	....	....	....	....	....
109	2013/10/27	12:33:00	12:33:15	240	113	BIR	12:36	12:52	12:48	S09E71	M3.5	....	....	....
110	2013/11/06	08:48:30	08:49:10	700	250	BLEN7M	08:45	08:55	08:51	S13E39	C8.6	09:24	306	29
111	2013/12/15	10:29:20	10:30:00	110	45	GAURI	10:22	10:31	10:28	S25W53	C1.3	11:24	140	47
112	2013/12/18	12:55:45	12:56:05	80	45	GLASGOW	....	....	....	....	....	....	....	....
113	2014/01/05	11:37:50	11:38:20	380	170	BLEN7M	....	....	....	....	....	....	....	....
114	2014/01/28	07:28:00	07:28:30	150	50	HUMAIN	07:25	07:34	07:31	S10E75	M3.6	07:48	493	97
115	2014/01/28	11:36:45	11:37:10	800	240	BLEN7M	11:34	11:41	11:38	S10E72	M1.4	11:48	656	55
116	2014/01/29	07:29:00	07:29:20	120	45	GAURI	06:53	07:34	07:19	S12E65	C3.5	07:24	435	42
117	2014/02/10	11:23:45	11:24:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
118	2014/02/10	16:30:55	16:31:05	80	45	GLASGOW	....	....	....	....	....	....	....	....
119	2014/02/14	16:51:30	16:52:00	80	45	GLASGOW	16:49	16:59	16:52	S11W73	C3.6	17:24	283	64
120	2014/02/23	20:08:50	20:09:00	80	45	ROSWELL-NM	....	....	....	....	....	....	....	....
121	2014/03/03	15:57:50	15:58:40	870	180	BLEN7M	15:54	16:01	15:58	N05W36	M1.3	....	....	....
122	2014/03/20	12:16:55	12:17:00	350	250	KRIM	....	....	....	....	....	....	....	....
123	2014/03/28	21:01:00	21:01:05	73	45	ROSWELL-NM	20:57	21:08	21:00	S15W64	C1.0	21:24	424	57
124	2014/03/30	11:49:00	11:49:50	800	240	BLEN7M	11:48	12:02	11:55	N10W42	M2.1	12:24	487	192
125	2014/04/02	06:13:20	06:14:00	320	45	ALMATY	05:57	06:17	06:08	S10E45	C3.5	07:00	312	74
126	2014/04/08	05:45:20	05:46:00	78	24	ESSEN	....	....	....	....	....	....	....	....
127	2014/04/13	19:24:55	19:25:15	77	45	ROSWELL-NM	....	....	....	....	....	....	....	....
128	2014/04/15	09:19:20	09:20:00	420	210	BLEN7M	09:15	09:25	09:23	S14E25	C8.6	....	....	....
129	2014/04/15	12:37:00	12:37:35	450	200	BLEN7M	12:34	12:48	12:46	S15E23	C3.6	....	....	....
130	2014/04/16	07:17:00	07:17:30	170	45	GAURI	07:17	07:26	07:22	N03W01	C3.0	....	....	....
131	2014/04/17	14:36:30	14:37:00	450	170	BLEN7M	....	....	....	....	....	....	....	....
132	2014/04/18	12:34:15	12:35:00	80	45	GLASGOW	12:31	13:20	13:03	S20W34	M7.3	13:25	1203	360
133	2014/04/30	14:47:55	14:48:05	80	45	GLASGOW	14:45	14:51	14:49	S15E02	B6.0	14:48	46	39
134	2014/04/30	14:49:30	14:49:45	80	45	GLASGOW	14:45	14:51	14:49	S15E02	B6.0	14:48	46	39
135	2014/04/30	20:56:30	20:57:00	80	45	ROSWELL-NM								
136	2014/05/01	03:21:10	03:22:00	80	45	GAURI						03:24	216	80

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137	2014/05/06	03:58:35	03:59:10	170	45	OOTY								
138	2014/05/06	10:41:20	10:41:55	180	45	ROZTOKY								
139	2014/06/09	07:22:50	07:23:15	680	230	BLEN7M	07:20	07:29	07:25	S12W18	C2.2	07:36	405	29
140	2014/06/10	08:20:00	08:20:10	80	45	GLASGOW	08:17	08:32	08:25	S18E84	C3.9	08:36	416	55
141	2014/06/10	11:39:45	11:40:20	870	170	BLEN7M	11:36	11:44	11:42	S15E80	X2.2	11:48	925	111
142	2014/06/11	09:04:20	09:05:00	80	45	eC71	08:59	09:10	09:06	S18E65	X1.0	09:24	829	30
143	2014/06/11	11:38:20	11:39:00	77	45	eC71	11:37	11:47	11:42	S12E62	C2.3	....	....	....
144	2014/06/11	15:15:55	15:16:10	78	45	GLASGOW	15:15	15:23	15:19	S18E64	C1.7	15:48	176	37
145	2014/06/12	04:16:35	04:17:00	70	18	ESSEN	04:14	04:26	04:21	S16E55	M2.0	04:36	609	72
146	2014/06/13	15:21:25	15:22:00	80	45	GLASGOW	15:21	15:27	15:24	S17E37	C2.4	15:36	329	15
147	2014/06/13	18:15:45	18:16:00	80	45	GLASGOW	....	....	....	....	....	18:00	371	22
148	2014/06/20	13:04:30	13:05:20	80	45	GLASGOW	....	....	....	....	....	....	....	....
149	2014/06/20	14:44:00	14:44:20	80	45	GLASGOW	....	....	....	....	....	....	....	....
150	2014/07/01	03:54:00	03:54:30	73	18	ESSEN	03:51	04:00	03:55	S07E52	C1.5	04:12	364	21
151	2014/08/01	14:47:00	14:47:45	780	230	BLEN7M	14:43	14:57	14:48	S09E35	M2.0	....	....	....
152	2014/08/22	10:14:30	10:15:20	80	18	BLENSW	10:13	10:46	10:27	N12E72	C2.2	11:12	600	360
153	2014/09/24	16:09:45	16:10:00	400	230	BLEN7M	16:01	16:14	16:11	S12E25	C1.8	....	....	....
154	2014/10/16	13:01:30	13:02:10	450	210	BLEN7M	12:58	13:05	13:03	S13E88	M4.3	13:26	777	33
155	2014/10/21	16:57:00	16:57:30	80	30	ROSWELL-NM	....	....	....	....	....	16:24	158	32
156	2014/10/21	17:04:20	17:05:00	80	30	ROSWELL-NM	....	....	....	....	....	16:24	158	32
157	2014/10/29	14:59:00	14:59:20	260	115	BIR	....	....	....	....	....	....	....	....
158	2014/10/30	13:08:30	13:09:00	80	45	GLASGOW	13:04	13:17	13:12	S04E70	C6.9	13:36	285	112
159	2014/11/03	13:42:30	13:43:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
160	2014/12/07	13:33:40	13:34:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
161	2014/12/13	10:06:30	10:07:10	350	170	BLEN7M	10:03	10:16	10:10	S06W67	C4.0	10:24	198	74
162	2014/12/14	04:28:25	04:28:00	130	45	PERTH	04:17	04:41	04:33	S11E74	C8.6	05:00	743	18
163	2015/01/06	13:24:50	13:25:40	80	45	GLASGOW	13:25	13:36	13:30	N06E17	C1.4	....	....	....
164	2015/01/26	16:32:45	16:33:10	200	110	BIR	....	....	....	....	....	16:12	369	16
165	2015/02/01	19:25:45	19:26:30	55	20	ROSWELL-NM	19:25	19:32	19:30	N06E12	C1.5	19:36	261	5
166	2015/02/04	10:05:15	10:05:50	460	250	BLEN7M	10:03	10:09	10:07	N03W22	C2.2	....	....	....
167	2015/03/10	07:25:45	07:26:15	440	230	BLEN7M	07:18	07:29	07:27	S15E37	C2.7	....	....	....
168	2015/03/10	13:06:30	13:07:15	450	220	BLEN7M	13:05	13:14	13:10	S16E36	C1.0	....	....	....
169	2015/03/13	07:35:00	07:35:25	720	230	BLEN7M	07:32	07:40	07:37	S16W01	C6.9	....	....	....
170	2015/04/10	08:12:45	08:13:00	80	20	BLENSW	07:57	08:06	08:03	S15W28	C7.9	08:48	181	64

Table 1: Isolated Type III burst events observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
171	2015/04/11	09:44:00	09:44:08	80	15	BLENSW	09:41	09:46	09:44	N16E46	B8.7	10:24	327	72
172	2015/04/13	11:33:50	11:34:45	80	20	BLENSW	11:28	11:39	11:35	N13E59	C2.3	12:00	475	61
173	2015/05/05	07:58:30	07:59:20	171	45	GAURI	07:57	08:05	08:02	N14E82	C4.3	08:24	156	52
174	2015/05/06	06:51:00	06:51:10	80	22	BLENSW	06:50	06:57	06:54	N16E73	C2.4	07:48	402	14
175	2015/05/07	04:28:00	04:28:30	90	45	GAURI	04:27	04:40	04:33	N11E62	C1.2	....	....	....
176	2015/05/09	05:41:25	05:42:00	80	22	BLENSW	....	....	....	....	....	....	....	....
177	2015/05/13	06:50:20	06:51:10	90	20	BLENSW	....	....	....	....	....	06:48	250	38
178	2015/05/14	10:17:45	10:18:00	80	25	BLENSW	....	....	....	....	....	09:36	328	13
179	2015/05/14	12:07:10	12:08:00	200	110	BIR	....	....	....	....	....	11:48	299	14
180	2015/06/15	02:48:00	02:48:30	80	45	INDONESIA	....	....	....	....	....	02:48	133	94
181	2015/06/30	12:40:30	12:41:05	330	112	ALMATY	12:22	12:59	12:43	N17E70	C1.4	13:25	158	98
182	2015/07/02	12:44:00	12:44:30	78	30	BIR	....	....	....	....	....	....	....	....
183	2015/07/12	13:49:50	13:50:00	80	22	BLENSW	....	....	....	....	....	....	....	....
184	2015/07/14	09:22:00	09:22:25	80	18	BLENSW	09:20	09:27	09:25	N15W59	C1.0	09:36	158	144
185	2015/08/23	09:56:20	09:57:00	165	45	ALMATY	09:53	09:58	09:56	S16E08	B9.7	....	....	....
186	2015/08/24	06:20:10	06:21:00	300	45	ALMATY	06:11	06:24	06:15	S16W02	C3.2	....	....	....
187	2015/09/15	02:21:55	02:22:10	165	45	ALMATY	02:17	02:22	02:20	S21E23	C1.0	....	....	....
188	2015/09/15	06:22:50	06:23:00	80	18	BLENSW	....	....	....	....	....	....	....	....
189	2015/09/15	06:59:30	06:59:47	80	18	BLENSW	....	....	....	....	....	....	....	....
190	2015/09/30	03:27:35	03:28:10	120	44	GAURI	....	....	....	....	....	....	....	....
191	2015/10/17	04:16:00	04:16:40	320	110	ALMATY	04:13	04:22	04:17	S15E75	C2.9	05:00	218	70
192	2015/10/21	11:55:20	11:55:50	390	115	BIR	11:51	12:07	12:00	N06E20	C2.6	....	....	....
193	2015/10/21	18:18:15	18:19:00	85	20	ROSWELL-NM	....	....	....	....	....	....	....	....
194	2015/10/27	08:37:00	08:37:45	300	45	GAURI	....	....	....	....	....	....	....	....
195	2015/10/27	15:48:35	15:48:50	250	105	BIR	15:40	15:52	15:49	S14W69	C2.3	....	....	....
196	2015/12/12	19:13:00	19:13:50	85	45	ROSWELL-NM	19:11	19:16	19:14	S17E44	B6.2	....	....	....
197	2015/12/27	12:00:30	12:01:20	80	45	GLASGOW	11:58	12:04	12:01	S23W05	B9.7	....	....	....
198	2016/04/28	06:00:10	06:01:00	80	22	BLENSW	05:57	06:05	06:02	N05E25	C1.8	....	....	....
199	2016/04/28	08:00:55	08:01:15	70	20	BLENSW	....	....	....	....	....	....	....	....
200	2016/05/04	22:47:45	22:48:40	85	18	ROSWELL-NM	22:43	22:51	22:48	N12E73	C1.7	23:12	170	93
201	2016/05/14	11:33:25	11:33:40	300	110	KRIM	11:28	11:37	11:34	S06W56	C7.4	12:24	144	18
202	2016/05/16	19:21:00	19:21:50	100	15	GREENLAND	....	....	....	....	....	....	....	....
203	2016/05/22	21:45:55	21:46:45	85	18	ROSWELL-NM	....	....	....	....	....	....	....	....
204	2016/05/24	06:37:00	06:38:00	80	30	BLENSW	....	....	....	....	....	....	....	....

Table 1: Isolated Type III burst events observed by e-CALLISTO and their association with solar transients.

N ^o	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
205	2016/05/24	08:21:00	08:21:25	100	18	GREENLAN	08:19	08:28	08:24	S14W57	B5.3	09:12	184	66
206	2016/05/25	12:51:40	12:52:20	80	20	BLENSW	....	....	....	....	....	....	....	....
207	2016/06/13	17:02:00	17:02:30	100	20	GREENLAND	....	....	....	....	....	....	....	....
208	2016/07/19	13:30:50	13:31:30	80	18	BLENSW	....	....	....	....	....	....	....	....
209	2016/07/21	07:09:20	07:10:00	80	20	BLENSW	....	....	....	....	....	....	....	....
210	2016/10/09	09:10:00	09:10:20	80	22	BLENSW	....	....	....	....	....	08:36	227	171
211	2016/10/09	10:55:40	10:55:50	80	22	BLENSW	....	....	....	....	....	....	....	....
212	2017/04/01	10:43:25	10:44:00	80	18	BLENSW	....	....	....	....	....	....	....	....
213	2017/04/21	14:02:45	14:03:00	100	15	GREENLAND	....	....	....	....	....	13:25	372	17
214	2017/06/02	19:50:50	19:51:30	240	110	BIR	19:49	20:02	19:56	N05E62	B6.9	....	....	....
215	2017/06/03	09:37:50	09:38:40	80	22	BLENSW	09:37	10:05	09:57	N06E55	C2.1	....	....	....
216	2017/06/03	19:30:50	19:31:45	95	20	GREENLAND	19:21	19:41	19:34	N06E50	C2.5	....	....	....
217	2017/07/11	13:00:25	13:00:50	75	18	GREENLAND	12:57	13:10	13:04	S06E11	B8.5	....	....	....
218	2017/09/04	17:19:45	17:20:20	100	20	GREENLAND	17:20	17:48	17:39	S08W10	C6.0	....	....	....
219	2017/09/07	09:53:00	09:53:30	390	110	BIR	09:49	09:58	09:54	S07W46	M1.4	10:24	470	32
220	2017/09/08	06:36:10	06:36:40	80	15	BLENSW	06:35	06:41	06:38	S82E10	C1.7	07:36	500	31
221	2017/09/08	10:54:00	10:54:40	250	110	BIR	....	....	....	....	....	....	....	....

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
1	2010/01/18	09:31:20	09:33:30	650	170	BLEN7M	....	....	....	....	....	....	....	....
2	2010/01/19	09:41:00	09:42:15	430	150	BLEN7M	....	....	....	....	....	....	....	....
3	2010/02/07	07:39:50	07:42:45	870	170	BLEN7M	....	....	....	....	....	....	....	....
4	2010/02/07	09:12:00	09:13:00	870	200	BLEN7M	....	....	....	....	....	....	....	....
5	2010/02/08	07:39:00	07:41:00	440	110	GAURI	07:36	07:46	07:43	N26E05	M4.0	....	....	....
6	2010/02/12	07:23:00	07:24:00	420	180	BLEN7M	07:18	07:28	07:25	N24E13	C7.9	....	....	....
7	2010/02/12	09:40:30	09:42:00	700	170	BLEN7M	09:38	09:45	09:42	N22E07	B9.6	....	....	....
8	2010/02/12	11:25:25	11:28:00	870	100	BLEN7M	11:19	11:28	11:26	N26E11	M8.3	....	....	....
9	2010/02/12	11:30:00	11:32:00	460	170	BLEN7M	11:19	11:28	11:26	N26E11	M8.3	....	....	....
10	2010/03/04	13:30:00	13:31:40	450	110	BLEN7M	13:28	13:33	13:31	S16W60	B6.0	....	....	....
11	2010/07/29	14:11:00	14:12:00	300	170	BLEN7M	....	....	....	....	....	....	....	....
12	2010/08/03	05:04:00	05:05:00	120	45	HUMAIN	....	....	....	....	....	....	....	....
13	2010/11/10	14:13:00	14:15:00	100	45	HUMAIN	14:11	14:23	14:16	S21E22	B6.0	....	....	....
14	2010/10/17	08:56:00	08:57:00	61	20	BLENSW	08:52	09:08	08:59	S19W31	C1.7	09:36	304	54
15	2010/10/18	12:26:00	12:27:15	400	170	BLEN7M	....	....	....	....	....	....	....	....
16	2010/11/11	07:20:00	07:21:00	120	45	HUMAIN	07:15	07:28	07:24	S27E14	C4.7	08:24	256	74
17	2010/11/11	07:32:05	07:33:30	380	200	BLEN7M	....	....	....	....	....	....	....	....
18	2010/11/11	13:02:00	13:03:00	420	170	BLEN7M	12:58	13:12	13:07	....	C2.2	14:00	266	111
19	2010/11/12	08:01:00	08:02:15	870	400	BLEN7M	07:59	08:20	08:11	S22W00	C1.5	08:36	482	149
20	2010/11/12	08:04:00	08:05:20	870	450	BLEN7M	07:59	08:20	08:11	S22W00	C1.5	08:36	482	149
21	2010/11/13	11:31:00	11:34:00	400	170	BLEN7M	11:28	11:49	11:39	S23W16	C1.3	....	....	....
22	2010/11/15	14:38:00	14:39:30	380	170	BLEN7M	14:36	14:48	14:42	....	B7.6	15:48	250	64
23	2011/02/14	08:02:00	08:03:00	170	45	HUMAIN	....	....	....	....	....	08:12	303	57
24	2011/02/15	01:55:10	01:59:00	140	50	SSRT	01:44	02:06	01:56	S20W10	X2.2	02:24	669	360
25	2011/02/15	15:43:00	15:44:00	170	45	BIR	....	....	....	....	....	....	....	....
26	2011/02/24	07:32:00	07:34:00	870	320	BLEN7M	07:23	07:42	07:35	N15E87	M3.5	07:48	1186	158
27	2011/03/03	14:19:00	14:20:00	630	170	BLEN7M	14:12	14:31	14:20	N22E01	C5.4	14:12	233	9
28	2011/03/06	15:24:00	15:25:00	630	170	BLEN7M	15:21	15:30	15:27	N06E36	C3.9	....	....	....
29	2011/03/09	06:29:00	06:30:30	260	45	GAURI	....	....	....	....	....	06:00	559	26
30	2011/03/09	10:38:00	10:39:30	450	170	BLEN7M	10:35	11:21	11:07	N08W11	M1.7	12:12	315	13
31	2011/03/09	17:03:00	17:04:00	170	33	BIR	....	....	....	....	....	....	....	....
32	2011/03/10	06:40:00	06:42:00	250	45	GURI	....	....	....	....	....	06:24	239	11
33	2011/03/10	12:14:00	12:14:00	170	45	HUMAIN	....	....	....	....	....	....	....	....
34	2011/03/12	16:28:00	16:29:25	870	450	BLEN7M	16:26	16:45	16:37	N06W41	C1.6	16:48	503	16

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
35	2011/03/18	08:16:00	08:17:00	160	45	GAURI	....	....	....	....	....	....	....	....
36	2011/03/24	12:04:00	12:05:45	460	170	BLEN7M	12:01	12:11	12:07	S15E43	M1.0	12:48	540	191
37	2011/03/25	06:08:25	06:10:00	170	45	GAURI	....	....	....	....	....	....	....	....
38	2011/03/26	14:43:45	14:45:00	360	170	BLEN7M	14:42	14:47	14:45	S17E23	B6.6	....	....	....
39	2011/03/28	13:13:30	13:15:00	170	45	HUMAIN	....	....	....	....	....	....	....	....
40	2011/03/29	11:03:00	11:05:00	300	170	BLEN7M	....	....	....	....	....	....	....	....
41	2011/04/01	03:52:00	03:53:30	170	45	SSRT	03:48	03:59	03:54	S18W48	C3.1	04:17	483	37
42	2011/04/20	05:44:00	05:45:00	140	45	GAURI	....	....	....	....	....	05:12	345	36
43	2011/05/30	06:01:45	06:03:00	870	460	BLEN7M	05:59	06:07	06:05	S20E70	C7.0	05:48	611	72
44	2011/07/30	12:15:45	12:17:40	450	170	BLEN7M	12:11	12:27	12:17	N18W33	C1.3	13:25	375	59
45	2011/08/03	13:33:00	13:35:00	870	460	BLEN7M	13:17	14:10	13:48	N17W30	M6.0	14:00	610	360
46	2011/08/03	13:45:00	13:48:00	870	400	BLEN7M	13:17	14:10	13:48	N17W30	M6.0	14:00	610	360
47	2011/08/04	03:55:00	03:56:00	300	50	OOTY	03:41	04:04	03:57	N16W38	M9.3	04:12	1315	360
48	2011/08/08	16:05:00	16:06:00	150	45	BIR	....	....	....	....	....	16:00	757	33
49	2011/08/09	08:01:30	08:04:00	870	170	BLEN7M	07:48	08:08	08:05	N14W69	X6.9	08:12	1610	360
50	2011/08/09	08:17:44	08:19:00	870	170	BLEN7M	....	....	....	....	....	08:12	1610	360
51	2011/08/11	10:12:20	10:16:00	140	50	GAURI	09:34	10:36	10:23	N15W88	C6.2	10:36	1160	167
52	2011/09/07	22:38:00	22:39:00	420	270	ALASKA	22:32	22:44	22:38	N14W31	X1.8	23:05	792	167
53	2011/09/08	15:42:30	15:44:00	870	380	BLEN7M	15:32	15:52	15:46	N14W41	M6.7	16:36	214	37
54	2011/09/13	08:05:20	08:07:00	120	45	GAURI	....	....	....	....	....	....	....	....
55	2011/09/19	07:43:35	07:44:45	87	18	BIR	07:19	09:14	07:37	N23W01	C6.2	08:12	382	57
56	2011/09/19	13:22:00	13:23:45	75	20	BIR	....	....	....	....	....	....	....	....
57	2011/09/20	06:48:00	06:49:00	140	45	GAURI	06:44	07:00	06:56	S44E82	C2.0	07:24	343	54
58	2011/09/22	10:36:00	10:38:00	870	580	BLEN7M	10:29	11:44	11:01	N09E89	X1.4	10:48	1905	360
59	2011/09/24	09:37:30	09:40:00	450	170	BLEN7M	09:21	09:48	09:40	N13E61	X1.9	09:48	1936	145
60	2011/09/24	12:59:00	13:00:00	870	440	BLEN7M	12:33	14:10	13:20	N15E59	M7.1	12:48	1915	360
61	2011/09/25	10:11:20	10:12:40	870	270	BLEN7M	....	....	....	....	....	....	....	....
62	2011/09/25	15:26:00	15:28:30	850	260	BLEN7M	15:26	15:38	15:33	N11E44	M3.7	16:00	676	67
63	2011/09/25	15:30:00	15:32:00	870	200	BLEN7M	15:26	15:38	15:33	N11E44	M3.7	16:00	676	67
64	2011/09/26	14:41:00	14:42:00	870	330	BLEN7M	14:37	15:02	14:46	N12E30	M2.6	15:12	240	31
65	2011/09/30	13:45:00	13:46:00	450	170	BLEN7M	13:42	14:03	13:49	N09W29	B7.6	....	....	....
66	2011/10/01	12:38:30	12:40:00	85	25	BIR	12:35	12:42	12:39	N09W06	C1.0	....	....	....
67	2011/10/13	07:15:00	07:16:00	450	170	BLEN7M	07:07	07:14	07:11	N23E30	C1.2	....	....	....
68	2011/10/17	14:18:00	14:20:00	85	25	BIR	13:15	15:40	14:24	S10W18	C2.3	....	....	....

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
69	2011/10/23	11:30:00	11:31:00	70	30	BIR	....	....	....	....	....	11:12	137	32
70	2011/12/19	14:10:25	14:11:30	400	170	BLEN7M	14:05	14:15	14:13	N18W28	B8.1	....	....	....
71	2011/12/25	08:49:00	08:51:00	870	340	BLEN7M	08:49	09:01	08:55	S21W18	C5.5	08:48	224	61
72	2012/01/13	10:56:00	10:57:00	160	113	BIR	....	....	....	....	....	....	....	....
73	2012/01/13	11:00:00	11:01:00	230	45	OOTY	....	....	....	....	....	....	....	....
74	2012/02/18	05:11:00	05:13:00	240	45	OOTY	04:48	05:22	05:12	N17W35	B4.0	05:48	488	19
75	2012/02/29	14:57:00	15:01:00	440	170	BLEN7M	....	....	....	....	....	14:24	221	76
76	2012/03/07	00:56:50	00:58:00	320	90	SSRT	00:02	00:40	00:24	N17E27	X5.4	00:24	2684	360
77	2012/03/07	01:12:00	01:20:00	450	45	SSRT	01:05	01:23	01:14	N22E12	X1.3	01:30	1825	360
78	2012/03/07	01:58:30	02:01:00	440	180	SSRT	....	....	....	....	....	01:30	1825	360
79	2012/03/13	17:28:00	17:30:00	85	20	BIR	17:12	17:41	17:30	N17W66	M7.9	17:36	1884	360
80	2012/03/25	00:27:00	00:28:00	85	20	SSRT	00:15	00:38	00:28	N20E25	C3.0	00:48	736	133
81	2012/04/08	08:08:00	08:09:00	340	250	KRIM	....	....	....	....	....	....	....	....
82	2012/04/15	07:29:00	07:30:00	140	45	OOTY	....	....	....	....	....	....	....	....
83	2012/04/19	11:07:00	11:09:00	420	170	BLEN7M	11:05	11:44	11:26	N05W89	C7.0	12:12	298	60
84	2012/04/23	17:37:55	17:42:00	80	20	BIR	17:38	18:05	17:51	N14W17	C2.0	18:24	528	360
85	2012/05/07	03:21:00	03:22:00	300	45	SSRT	03:20	03:29	03:25	N13E68	C2.7	....	....	....
86	2012/05/09	14:06:00	14:08:00	370	170	BLEN7M	14:02	14:14	14:08	N06E22	M1.8	....	....	....
87	2012/05/11	03:36:50	03:38:10	270	45	SSRT	03:35	03:46	03:42	N15E11	C3.1	....	....	....
88	2012/05/11	09:51:00	09:52:07	140	45	GAURI	09:37	09:52	09:46	N06W03	C2.3	....	....	....
89	2012/05/14	09:41:55	09:43:00	135	45	GAURI	09:35	09:46	09:39	N07W45	C2.5	10:12	551	48
90	2012/05/17	01:32:00	01:35:00	180	45	SSRT	01:25	02:14	01:47	N11W76	M5.1	01:48	1582	360
91	2012/05/30	09:02:20	09:04:00	870	480	BLEN7M	08:36	09:07	08:50	N13E89	C1.0	08:36	128	57
92	2012/06/03	17:53:00	17:54:55	630	170	BLEN7M	17:48	17:57	17:55	N16E38	M3.3	18:12	605	180
93	2012/06/07	05:53:50	05:55:00	470	170	BLEN7M	05:51	06:10	05:56	S17W07	C1.5	....	....	....
94	2012/06/08	07:15:00	07:16:00	400	170	BLEN7M	07:11	07:18	07:16	N13W40	C4.8	07:24	329	9
95	2012/06/08	16:24:00	16:25:50	65	15	BIR	....	....	....	....	....	....	....	....
96	2012/06/13	18:53:00	18:54:00	200	115	BIR	18:47	18:57	18:52	S16E15	C2.7	....	....	....
97	2012/06/28	02:12:00	02:13:00	300	45	SSRT	02:10	02:16	02:14	N16E55	C2.6	02:12	600	41
98	2012/06/28	11:15:00	11:17:00	90	15	BIR	11:12	11:18	11:16	N17E62	B7.2	11:48	266	107
99	2012/06/28	16:10:55	16:12:15	540	170	BLEN7M	16:07	16:15	16:12	N16E45	M2.4	16:36	714	104
100	2012/06/29	04:13:00	04:14:00	380	45	OOTY	04:09	04:16	04:14	S18E61	C4.6	04:00	509	120
101	2012/06/29	08:21:00	08:22:00	870	170	BLEN7M	08:19	08:24	08:22	S17E57	C2.9	....	....	....
102	2012/06/29	09:18:00	09:20:30	300	45	HUMAIN	09:13	09:22	09:20	N40E16	M2.2	09:36	904	49

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
103	2012/06/29	17:16:30	17:16:30	450	200	BLEN7M	....	....	....	....	....	....	....	....
104	2012/06/29	17:59:00	18:00:00	80	20	BIR	....	....	....	....	....	17:36	196	59
105	2012/06/30	07:54:55	07:57:00	180	45	GAURI	....	....	....	....	....	07:48	317	86
106	2012/06/30	12:48:10	12:50:00	850	280	BLEN7M	12:48	12:54	12:52	N17E21	M1.0	....	....	....
107	2012/06/30	18:26:00	18:32:00	90	20	BIR	18:26	18:34	18:32	N14E18	M1.6	18:48	247	33
108	2012/07/01	09:05:00	09:07:00	90	15	BIR	....	....	....	....	....	....	....	....
109	2012/07/02	05:05:00	05:06:00	420	170	BLEN7M	05:01	05:14	05:08	S17E10	C3.5	06:00	251	90
110	2012/07/02	10:47:00	10:48:30	640	170	BLEN7M	10:43	10:57	10:52	S22E02	M5.6	11:24	313	125
111	2012/07/02	17:46:00	17:47:00	340	170	BLEN7M	17:42	17:54	17:50	S17E03	C3.7	....	....	....
112	2012/07/02	18:05:00	18:07:00	865	170	BLEN7M	18:03	18:22	18:12	N14W09	C4.5	....	....	....
113	2012/07/03	03:38:50	03:39:50	170	45	GAURI	03:36	03:48	03:42	S17E05	C9.9	....	....	....
114	2012/07/03	20:38:00	20:39:00	260	25	BIR	20:36	20:51	20:45	N14W22	C9.3	21:25	294	72
115	2012/07/04	12:21:00	12:22:30	370	170	BLEN7M	12:07	12:32	12:24	S20W18	M2.3	12:48	551	111
116	2012/07/04	14:41:00	16:44:00	870	645	BLEN7M	14:35	14:42	14:40	S18W18	M1.3	....	....	....
117	2012/07/04	16:36:00	16:38:00	870	170	BLEN7M	16:33	16:48	16:39	N12W35	M1.8	17:24	662	360
118	2012/07/06	13:29:00	13:30:00	330	170	BLEN7M	13:26	13:32	13:30	N12W57	M1.2	....	....	....
119	2012/07/08	16:24:00	16:27:00	390	230	TRIST	16:23	16:42	16:32	S14W83	M6.9	16:36	1572	157
120	2012/07/08	16:26:00	16:28:00	400	170	BLEN7M	16:23	16:42	16:32	S14W83	M6.9	16:36	1572	157
121	2012/07/27	03:59:00	04:03:00	180	45	SSRT	03:58	04:04	04:02	N17E22	C5.0	....	....	....
122	2012/07/27	07:53:10	07:55:00	220	45	GAURI	....	....	....	....	....	....	....	....
123	2012/07/27	07:59:30	08:03:00	180	45	GAURI	....	....	....	....	....	....	....	....
124	2012/07/27	11:46:00	11:47:55	140	45	OOTY	11:44	11:53	11:49	N16E17	C2.5	....	....	....
125	2012/07/27	17:20:00	17:22:30	90	20	BIR	17:17	17:32	17:26	S22E71	M2.8	17:48	393	114
126	2012/07/28	09:16:30	09:18:40	450	250	OSRA	....	....	....	....	....	....	....	....
127	2012/07/30	08:22:30	08:24:00	180	45	GAURI	08:21	08:31	08:26	N15W20	C2.1	....	....	....
128	2012/07/31	17:24:00	05:25:30	380	170	BLEN7M	17:10	17:32	17:27	S25E77	C4.0	18:00	224	21
129	2012/08/06	04:35:50	04:36:50	350	250	KRIM	04:33	04:41	04:38	N33W12	M1.6	05:12	198	46
130	2012/08/09	19:19:00	19:20:00	170	110	BIR	19:18	19:24	19:21	S20W28	C1.4	....	....	....
131	2012/08/10	03:19:00	03:20:00	200	45	SSRT	....	....	....	....	....	....	....	....
132	2012/08/13	12:36:00	12:39:00	870	100	BLEN7M	12:33	12:49	12:40	N22W03	C2.8	13:25	435	360
133	2012/08/17	08:32:00	08:34:00	410	45	GAURI	08:29	08:44	08:37	....	C4.7	08:48	950	59
134	2012/08/18	16:06:00	16:08:00	90	20	BIR	16:02	16:09	16:07	N22E80	M2.0	16:24	734	126
135	2012/08/27	06:06:00	06:08:00	110	45	GAURI	06:05	06:22	06:12	N17W17	B7.8	06:12	326	9
136	2012/09/02	07:28:00	07:29:20	410	45	GAURI	....	....	....	....	....	....	....	....

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
137	2012/09/02	09:22:30	09:24:20	90	20	BIR	....	....	....	....	....	....	....	....
138	2012/09/12	04:35:30	04:36:30	410	45	GAURI	04:33	04:38	04:36	....	B6.4	05:00	221	72
139	2012/09/12	05:45:00	05:46:40	410	45	GAURI	....	....	....	....	....	....	....	....
140	2012/09/12	07:18:50	07:20:00	410	45	GAURI	....	....	....	....	....	....	....	....
141	2012/09/14	13:13:00	13:15:00	400	100	BLEN7M	....	....	....	....	....	12:24	664	25
142	2012/09/14	13:20:00	13:21:00	400	100	BLEN7M	....	....	....	....	....	12:24	664	25
143	2012/10/11	10:19:00	10:20:00	350	250	KRIM	10:16	10:22	10:20	S19W46	C1.3	....	....	....
144	2012/10/25	06:53:50	06:55:00	400	45	GAURI	....	....	....	....	....	....	....	....
145	2012/10/26	13:06:50	13:08:00	450	150	BLEN7M	12:48	13:21	13:04	S26W87	C1.6	....	....	....
146	2012/10/28	03:23:50	03:26:30	170	45	GAURI	....	....	....	....	....	....	....	....
147	2012/11/13	02:01:50	02:03:00	330	50	SSRT	01:58	02:06	02:04	S25E46	M6.0	02:24	851	141
148	2012/11/13	05:46:00	05:48:00	160	50	GAURI	05:42	05:54	05:50	S26E44	M2.5	06:00	797	119
149	2012/11/13	06:55:00	06:56:00	180	45	SSRT	06:51	07:02	06:56	S26E42	C3.4	....	....	....
150	2012/11/15	14:26:00	14:27:00	90	30	BIR	14:23	14:35	14:30	S25E07	C2.1	15:12	608	121
151	2012/11/16	12:42:00	12:43:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
152	2012/11/18	04:03:00	04:04:00	280	45	SSRT	03:55	04:15	04:07	N08W07	C5.7	....	....	....
153	2012/11/20	12:39:00	12:40:00	80	45	GLASGOW	12:36	12:46	12:41	N06E20	M1.7	12:00	619	360
154	2012/11/24	13:35:50	13:37:15	800	120	BLEN7M	13:33	13:44	13:40	N06W28	C3.3	....	....	....
155	2012/11/24	13:43:00	13:44:00	73	45	GLASGOW	13:33	13:44	13:40	N06W28	C3.3	....	....	....
156	2012/12/12	07:24:30	07:25:50	350	250	KRIM	07:22	07:30	07:27	N11W16	C5.7	07:48	228	80
157	2012/12/21	06:10:00	06:11:25	180	45	GAURI	06:07	06:18	06:13	N14E52	B6.8	07:12	237	25
158	2013/01/11	02:45:20	02:46:20	175	45	SSRT	02:43	02:54	02:49	N04E39	C4.3	....	....	....
159	2013/01/11	08:15:50	08:17:00	171	45	GAURI	08:13	08:18	08:16	N07E34	C1.5	08:48	412	10
160	2013/03/02	11:49:00	11:51:25	80	45	GLASGOW	11:48	12:14	11:52	....	B6.0	12:24	550	23
161	2013/03/05	07:53:00	07:55:00	700	300	BLEN7M	07:47	07:59	07:54	S15W54	M1.2	....	....	....
162	2012/03/15	06:39:00	06:46:00	450	330	MRT	05:46	08:35	06:58	N07E07	M1.1	07:12	1063	360
163	2012/03/15	06:54:00	06:57:00	450	300	MRT	05:46	08:35	06:58	N07E07	M1.1	07:12	1063	360
164	2012/03/15	07:13:00	07:18:00	450	270	MRT	05:46	08:35	06:58	N07E07	M1.1	07:12	1063	360
165	2013/03/15	13:13:00	13:14:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
166	2013/03/16	08:55:00	08:56:00	300	45	SSRT	....	....	....	....	....	....	....	....
167	2013/03/17	12:46:00	12:47:00	80	45	GLASGOW	....	....	....	....	....	12:24	472	48
168	2013/03/30	05:30:00	05:31:00	140	45	OOTY	....	....	....	....	....	....	....	....
169	2013/03/30	11:12:00	11:13:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
170	2013/04/03	04:31:35	04:33:00	175	45	GAURI	04:30	04:48	04:39	N11E00	C1.1	....	....	....

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
171	2013/04/03	11:12:20	11:16:50	80	45	GLASGOW	11:11	11:18	11:16	S17E35	B6.0	....	....	....
172	2013/04/11	07:10:00	07:13:00	90	20	BIR	06:55	07:29	07:16	N09E12	M6.5	07:24	861	360
173	2013/04/20	08:03:00	08:05:00	340	250	KRIM	07:54	08:10	08:02	N14W01	C1.4	....	....	....
174	2013/04/21	05:13:00	05:14:00	75	18	DARO	05:04	05:18	05:14	N13W11	C1.4	....	....	....
175	2013/04/22	10:26:50	10:29:00	90	15	BIR	10:22	10:31	10:29	N13W24	M1.0	11:12	402	74
176	2013/04/23	14:13:00	14:14:00	170	45	HUMAIN	14:05	14:16	14:14	N15W39	C8.2	14:48	499	48
177	2013/04/23	15:06:00	15:07:00	80	20	BIR	15:04	15:09	15:07	N14W42	C1.5	....	....	....
178	2013/04/24	12:15:00	12:17:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
179	2013/04/28	07:45:30	07:47:00	170	45	GAURI	....	....	....	....	....	....	....	....
180	2013/04/29	04:56:20	04:58:00	170	45	ALMATY	....	....	....	....	....	04:00	325	35
181	2013/04/30	18:56:50	18:58:00	90	25	BIR	....	....	....	....	....	....	....	....
182	2013/05/07	11:19:00	11:20:40	80	45	GLASGOW	11:16	11:35	11:22	S18W30	B9.0	....	....	....
183	2013/05/12	07:48:00	07:50:00	150	45	GAURI	....	....	....	....	....	....	....	....
184	2013/05/20	15:02:50	15:04:00	170	115	BIR	14:59	15:10	15:06	N13W08	C9.7	—	....	....
185	2013/05/25	06:03:00	06:04:00	170	45	GAURI	....	....	....	....	....	....	....	....
186	2013/05/27	00:31:00	00:32:00	170	45	SSRT	....	....	....	....	....	00:24	224	94
187	2013/05/30	12:59:00	13:00:00	80	45	GLASGOW	12:58	13:08	13:03	S10E07	B9.5	13:36	493	117
188	2013/06/03	17:24:00	17:25:00	870	580	BLEN7M	16:47	18:01	17:44	S32W27	C1.8	....	....	....
189	2013/06/19	07:22:15	07:26:00	870	260	BLEN7M	07:20	07:37	07:29	S26E30	C3.5	....	....	....
190	2013/07/03	07:21:00	07:22:00	870	150	BLEN7M	07:00	07:18	07:08	S11E82	M1.5	07:24	807	267
191	2013/07/04	04:11:00	04:12:00	250	45	SSRT	....	....	....	....	....	04:12	195	66
192	2013/07/05	02:49:00	02:50:00	440	45	SSRT	....	....	....	....	....	....	....	....
193	2013/07/05	06:57:00	06:59:00	180	45	GAURI	....	....	....	....	....	06:36	465	22
194	2013/07/05	08:47:00	08:48:00	80	18	BIR	08:44	08:55	08:48	S15E54	C1.5	08:48	324	29
195	2013/07/05	09:37:00	09:39:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
196	2013/07/05	10:21:00	10:22:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
197	2013/07/05	10:54:00	10:55:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
198	2013/07/05	11:33:00	11:34:00	90	15	BIR	....	....	....	....	....	....	....	....
199	2013/07/05	11:56:20	11:58:50	80	45	GLASGOW	....	....	....	....	....	....	....	....
200	2013/07/05	14:08:00	14:10:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
201	2013/07/05	15:37:00	15:39:00	80	18	BIR	....	....	....	....	....	....	....	....
202	2013/07/05	18:02:00	18:03:00	87	20	BIR	....	....	....	....	....	....	....	....
203	2013/07/06	16:21:00	16:22:00	90	15	BIR	....	....	....	....	....	....	....	....
204	2013/10/15	08:40:00	08:41:20	870	370	BLEN7M	08:26	08:48	08:38	S22W13	M1.8	09:36	223	26

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
205	2013/10/16	09:13:20	09:14:45	870	440	BLEN7M	09:10	09:30	09:20	S10W42	C1.9	....	....	....
206	2013/10/23	11:15:00	11:17:00	380	170	BLEN7M	11:11	11:21	11:17	N05W04	C6.5	11:36	340	97
207	2013/10/25	07:58:00	08:00:00	550	200	BLEN7M	07:53	08:09	08:01	S08E73	X1.7	08:12	587	360
208	2013/10/28	04:38:00	04:39:00	160	45	GAURI	04:32	04:46	04:41	S11W46	M5.1	04:48	1201	156
209	2013/10/28	14:02:00	14:03:00	870	480	BLEN7M	14:00	14:12	14:05	N06W75	M2.8	14:12	1073	93
210	2013/10/28	15:10:50	15:17:00	300	110	BIR	15:07	15:21	15:15	S08E28	M4.4	15:36	812	360
211	2013/11/04	10:59:50	11:01:30	80	45	GLASGOW	10:58	11:35	11:14	S16W31	C2.6	11:24	308	47
212	2013/11/05	22:11:00	22:12:00	420	220	ALASKA	22:07	22:15	22:12	S13E44	X3.3	22:36	562	195
213	2013/11/06	13:43:00	13:44:00	870	200	BLEN7M	13:39	13:53	13:46	S13E36	M3.8	14:24	347	122
214	2013/11/07	14:17:15	14:20:00	730	240	BLEN7M	14:15	14:31	14:25	S14E23	M2.4	15:12	411	360
215	2013/11/08	04:24:00	04:26:00	870	50	PERTH	04:20	04:29	04:26	S14E15	X1.1	....	....	....
216	2013/11/08	09:30:00	09:31:45	870	450	BLEN7M	09:22	09:31	09:28	S17W28	M2.3	....	....	....
217	2013/11/10	05:13:30	05:15:00	430	100	OOTY	05:08	05:18	05:14	S14W13	X1.1	05:36	682	262
218	2013/11/13	04:41:00	04:42:00	170	45	GAURI	04:33	04:45	04:42	S11W64	C2.6	05:12	349	40
219	2013/11/13	13:11:30	13:13:00	440	200	BLEN7M	13:12	13:21	13:17	S11W70	C2.6	14:00	199	47
220	2013/12/07	07:22:00	07:24:00	250	45	GAURI	07:17	07:49	07:29	S16W49	M1.2	07:36	1085	360
221	2013/12/15	08:16:00	08:17:00	170	45	MRT1	08:14	08:28	08:19	N08W02	C1.3	08:24	272	58
222	2013/12/29	07:53:00	07:54:00	340	250	KRIM	07:49	08:00	07:56	S17W00	M3.1	....	....	....
223	2014/01/26	10:07:30	10:09:00	380	200	BLEN7M	10:05	10:19	10:13	S15W24	C6.1	....	....	....
224	2014/01/28	07:25:00	07:26:00	130	45	OOTY	07:25	07:34	07:31	S10E75	M3.6	07:48	493	97
225	2014/01/28	15:25:00	15:28:00	80	45	GLASGOW	15:24	15:30	15:24	S13E88	M3.5	15:36	543	112
226	2014/01/30	07:56:00	07:57:00	68	30	GAURI	07:54	08:41	08:11	S12E52	M1.1	08:24	458	360
227	2014/02/11	03:27:00	03:28:00	450	50	SSRT	03:22	03:39	03:31	S12E17	M1.7	04:24	169	22
228	2014/02/11	13:25:00	13:26:00	620	170	BLEN7M	13:15	14:15	13:57	S11E11	C8.4	13:48	330	208
229	2014/02/12	16:01:40	16:03:00	80	45	GLASGOW	15:41	16:15	15:51	S10W04	M2.1	16:36	533	360
230	2014/02/14	10:30:00	10:33:00	350	250	KRIM	....	....	....	....	....	....	....	....
231	2014/02/14	16:35:30	16:38:00	80	45	GLASGOW	16:33	16:42	16:39	S13W32	M1.0	....	....	....
232	2014/02/16	09:24:00	09:30:00	780	230	BLEN7M	09:20	09:29	09:26	S11E01	M1.2	10:00	634	360
233	2014/02/16	13:50:25	13:52:00	780	235	BLEN7M	13:48	14:05	14:00	S10W01	C3.4	....	....	....
234	2014/02/24	12:03:00	12:04:20	400	200	BLEN7M	12:00	12:10	12:05	S12W18	M1.3	....	....	....
235	2014/02/24	14:46:00	14:47:00	720	240	BLEN7M	14:44	14:57	14:49	S11E63	C5.0	....	....	....
236	2014/02/27	12:51:30	12:53:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
237	2014/03/03	07:47:20	07:48:30	170	45	GAURI	....	....	....	....	....	....	....	....
238	2014/03/03	11:40:00	11:41:00	80	45	GLASGOW	....	....	....	....	....	....	....	....

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
239	2014/03/16	13:38:30	13:39:45	80	45	GLASGOW	....	....	....	....	....	....	....	....
240	2014/03/19	06:29:00	06:30:00	150	45	HUMAIN	06:27	07:16	06:52	S13E50	C1.7	06:24	286	44
241	2014/03/29	17:46:00	17:48:00	80	45	GLASGOW	17:35	17:54	17:48	N11W32	X1.0	18:12	528	360
242	2014/04/04	13:42:00	13:44:00	800	200	BLEN7M	13:34	13:56	13:48	S15W20	C8.3	14:12	467	96
243	2014/04/11	11:20:00	11:21:00	870	280	BLEN7M	11:17	11:32	11:24	S18E84	C9.4	12:12	138	52
244	2014/04/13	20:15:00	20:17:00	77	45	ROSWELL-NM	20:12	20:22	20:17	S10E32	C1.9	....	....	....
245	2014/04/15	20:53:00	20:54:00	80	45	ROSWELL-NM	....	....	....	....	....	....	....	....
246	2014/04/22	14:49:00	14:50:00	74	45	GLASGOW	....	....	....	....	....	14:00	565	119
247	2014/04/30	23:39:00	23:40:00	81	45	ROSWELL-NM	....	....	....	....	....	23:24	413	32
248	2014/05/09	16:33:15	16:34:20	80	45	GLASGOW	....	....	....	....	....	....	....	....
249	2014/06/06	19:30:00	19:31:20	80	20	BIR	19:26	19:33	19:31	S12E25	M1.4	....	....	....
250	2014/06/11	05:34:00	05:35:00	450	260	OSRA	05:30	05:36	05:34	S12W35	M1.8	....	....	....
251	2014/06/12	10:17:30	10:18:40	450	200	BLEN7M	10:14	10:27	10:21	S20E52	M2.7	10:36	397	8
252	2014/06/12	10:49:00	10:50:10	78	18	BLENSW	....	....	....	....	....	10:48	472	54
253	2014/06/13	00:33:00	00:34:00	60	37	ROSWELL-NM	00:30	00:41	00:34	S18E44	C8.5	....	....	....
254	2014/06/20	11:06:00	11:10:00	780	200	BLEN7M	10:49	11:42	11:20	S09E15	C5.0	12:12	147	89
255	2014/06/29	10:26:00	10:27:10	80	18	BLENSW	10:25	10:41	10:31	S11E70	C1.1	11:12	230	18
256	2014/07/07	10:50:00	10:51:00	80	25	BLENSW	....	....	....	....	....	....	....	....
257	2014/07/28	14:01:30	14:07:00	870	420	BLEN7M	13:56	14:33	14:10	S08E51	C2.4	14:30	1110	127
258	2014/08/14	09:27:00	09:28:00	75	20	BLENSW	....	....	....	....	....	....	....	....
259	2014/08/21	08:47:30	08:49:00	80	20	BIR	08:41	09:01	08:55	N14E16	B8.8	....	....	....
260	2014/09/18	07:07:00	07:08:00	500	210	BLEN7M	07:02	07:12	07:09	N05E70	C6.4	07:13	307	54
261	2014/09/18	08:39:30	08:41:00	620	170	TRIEST	08:37	08:53	08:41	N04E69	M1.2	09:37	285	50
262	2014/09/18	17:28:00	17:29:00	45	20	ROSWELL-NM	17:25	17:32	17:30	N04E63	C3.4	18:13	263	30
263	2014/10/04	14:24:00	14:25:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
264	2014/10/19	11:16:00	11:17:15	210	112	BIR	11:05	11:25	11:19	S09E59	C4.2	....	....	....
265	2014/10/21	04:08:00	04:09:00	150	45	MRT1	....	....	....	....	....	04:00	235	30
266	2014/10/21	10:48:30	10:49:50	440	210	BLEN7M	10:46	11:13	10:58	N08E89	C6.3	11:00	236	23
267	2014/10/21	12:26:55	12:28:20	80	25	BLENSW	12:25	12:30	12:28	S18E36	C4.5	12:48	260	142
268	2014/10/21	13:36:25	13:38:00	400	170	BLEN7M	13:35	13:40	13:38	S14E35	M1.2	....	....	....
269	2014/10/22	16:55:00	16:57:00	85	30	ROSWELL-NM	16:52	17:03	16:59	S14E13	C5.8	17:24	201	170
270	2014/10/22	17:32:30	17:33:45	85	30	ROSWELL-NM	....	....	....	....	....	17:24	201	170
271	2014/10/24	07:39:30	07:42:00	230	340	BLEN7M	07:37	07:53	07:48	S19W05	M4.0	08:00	677	96
272	2014/10/29	14:21:00	14:22:00	200	110	BIR	14:24	14:51	14:33	S16W81	M1.4	15:12	192	101

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
273	2014/10/30	10:00:55	10:02:00	80	45	GLASGOW	....	....	....	....	....	....	....	....
274	2014/10/30	13:07:50	13:09:00	360	170	BLEN7M	13:04	13:17	13:12	S04E70	C6.9	13:36	285	112
275	2014/10/30	15:07:00	15:08:00	870	240	BLEN7M	15:06	15:14	15:09	S04E71	C2.3	15:36	369	90
276	2014/10/31	08:23:00	08:24:05	80	45	RWANDA	08:21	08:29	08:25	S05E59	C2.3	08:24	252	101
277	2014/10/31	09:21:00	09:22:50	65	45	RWANDA	09:19	09:27	09:23	S02E59	C2.0	09:12	490	180
278	2014/11/02	17:01:00	17:02:40	58	20	ROSWELL-NM	16:58	17:06	17:03	S02E28	C3.5	17:00	291	30
279	2014/11/03	12:27:55	12:30:00	345	250	KRIM	....	....	....	....	....	12:00	447	196
280	2014/11/07	12:04:00	12:05:00	400	210	BLEN7M	12:03	12:08	12:06	N13E37	C3.9	....	....	....
281	2014/11/07	13:23:00	13:24:00	80	45	GLASGOW	13:19	13:31	13:24	N17E42	C1.3	....	....	....
282	2014/11/07	16:36:30	16:38:00	50	15	ROSWELL-NM	16:10	16:45	16:39	N17E40	C7.0	17:12	469	87
283	2015/01/12	10:32:00	10:33:00	230	115	BIR	....	....	....	....	....	....	....	....
284	2015/01/14	06:49:20	06:51:30	75	45	RWANDA	06:46	06:57	06:51	S14W02	C2.3	....	....	....
285	2015/01/14	10:38:00	10:40:00	437	45	HUMAIN	10:38	10:51	10:42	S15W03	C1.9	....	....	....
286	2015/01/20	09:47:20	09:48:30	62	45	RWANDA	09:46	09:51	09:49	S14W84	B8.2	10:36	425	32
287	2015/03/07	20:36:00	20:37:00	65	30	ROSWELL-NM	....	....	....	....	....	....	....	....
288	2015/03/09	10:05:00	10:06:30	80	45	GLASGOW	10:02	10:16	10:08	S14E49	C4.0	10:24	552	127
289	2015/03/10	03:21:00	03:22:20	140	45	OOTY	03:19	03:28	03:24	S15E40	M5.1	03:36	1040	360
290	2015/03/12	04:44:00	04:45:00	350	250	KRIM	04:41	04:50	04:46	S15E11	M3.2	04:00	282	47
291	2015/03/12	14:04:00	14:06:00	450	200	BLEN7M	13:50	14:13	14:08	S15E06	M4.2	....	....	....
292	2015/04/10	08:01:00	08:02:00	80	20	BLENSW	07:57	08:06	08:03	S15W28	C7.9	08:48	181	64
293	2015/05/07	18:20:00	18:21:00	90	22	BIR	....	....	....	....	....	18:12	354	82
294	2015/05/07	19:53:00	19:54:40	280	200	BIR	19:47	20:09	20:00	N15E51	C5.0	20:24	226	8
295	2015/05/09	16:34:00	16:35:00	200	110	BIR	16:32	16:37	16:35	N13E35	C1.0	16:00	817	65
296	2015/05/12	11:47:00	11:49:00	240	115	BIR	11:45	11:56	11:51	N06W05	C3.0	11:48	229	19
297	2015/05/13	06:02:00	06:03:10	87	38	BIR	05:47	06:17	05:59	N16E23	C3.5	06:48	250	38
298	2015/05/13	11:05:25	11:06:45	387	215	BIR	11:04	11:14	11:11	N07W35	C3.2	....	....	....
299	2015/05/14	12:54:00	12:55:00	90	18	BLENSW	....	....	....	....	....	....	....	....
300	2015/05/15	05:23:30	05:25:00	350	250	KRIM	05:22	05:28	05:25	N09W53	C1.1	....	....	....
301	2015/06/01	13:32:00	13:34:00	330	145	BIR	....	....	....	....	....	13:48	748	360
302	2015/07/14	09:20:27	09:23:00	80	18	BLENSW	09:20	09:27	09:25	N15W59	C1.0	09:36	158	144
303	2015/07/14	09:24:00	09:26:00	80	18	BLENSW	09:20	09:27	09:25	N15W59	C1.0	09:36	158	144
304	2015/08/01	17:50:00	17:51:00	72	25	ROSWELL-NM	17:47	17:56	17:51	N17E55	B8.0	17:36	472	67
305	2015/08/02	11:56:00	11:57:00	80	20	BLENSW	11:55	12:03	11:59	N10E84	B4.0	12:24	246	60
306	2015/08/24	07:22:00	07:23:00	165	45	ALMATY	....	....	....	....	....	....	....	....

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
307	2015/08/24	07:30:00	07:34:00	300	45	GAURI	07:26	07:35	07:33	S15W04	M5.6	....	....	....
308	2015/08/24	10:16:00	10:19:50	80	18	BLENSW	10:15	10:21	10:19	S15W05	C1.7	....	....	....
309	2015/08/24	12:02:00	12:05:00	80	20	BLENSW	11:59	12:09	12:06	S14W07	C2.5	....	....	....
310	2015/08/24	22:08:00	22:09:00	85	22	ROSWELL-NM	22:06	22:15	22:11	S14W11	C1.4	21:56	604	99
311	2015/08/25	02:38:00	02:39:00	165	45	ALMATY	02:35	02:47	02:42	S16W09	C3.6	....	....	....
312	2015/08/25	10:27:00	10:28:00	240	18	ALMATY	10:23	10:41	10:34	S16W15	C1.7	11:24	394	62
313	2015/08/25	15:25:00	15:27:00	80	20	BLENSW	....	....	....	....	....	....	....	....
314	2015/08/26	08:15:00	08:16:00	80	20	BLENSW	....	....	....	....	....	....	....	....
315	2015/08/27	12:00:00	12:01:00	80	20	BLENSW	....	....	....	....	....	12:00	303	55
316	2015/09/15	06:05:00	06:06:00	70	22	BLENSW	05:56	06:03	06:00	S21E21	B6.0	....	....	....
317	2015/09/17	11:29:50	11:31:00	80	18	BLENSW	....	....	....	....	....	....	....	....
318	2015/09/17	22:35:50	22:37:00	85	18	ROSWELL-NM	22:33	22:40	22:37	S17W15	B8.0	....	....	....
319	2015/09/25	18:06:00	18:07:45	85	20	ROSWELL-NM	....	....	....	....	....	....	....	....
320	2015/09/29	19:23:00	19:25:00	85	18	ROSWELL-NM	19:20	19:27	19:24	S20W36	M1.2	20:00	523	90
321	2015/10/16	06:13:00	06:14:00	350	250	KRIM	06:11	06:20	06:16	S11E46	M1.1	....	....	....
322	2015/10/21	04:31:00	04:33:00	250	45	ALMATY	04:29	04:36	04:34	N07E35	C6.3	....	....	....
323	2015/10/21	13:56:25	13:58:10	105	300	BIR	13:52	14:04	13:58	N07E30	C1.7	....	....	....
324	2015/10/23	05:33:30	05:35:00	170	45	GAURI	....	....	....	....	....	....	....	....
325	2015/10/23	14:41:00	14:42:00	87	30	BIR	14:28	14:42	14:35	N05W05	B9.0	....	....	....
326	2015/10/27	08:44:00	08:45:00	80	30	BLENSW	....	....	....	....	....	....	....	....
327	2015/10/28	06:23:00	06:24:10	80	45	RWANDA	05:53	06:23	06:06	S17W53	C1.2	05:36	609	16
328	2016/02/04	18:19:00	18:20:00	85	18	ROSWELL-NM	18:15	18:28	18:22	S12E14	C5.2	....	....	....
329	2016/03/06	05:08:20	05:11:30	250	45	OOTY	04:58	05:19	05:12	N11W19	B7.2	05:48	445	157
330	2016/03/06	06:24:00	06:25:00	150	45	MRT1	06:23	06:30	06:27	N11W19	B2.8	06:24	535	76
331	2016/03/06	09:34:10	09:37:55	80	27	BLENSW	....	....	....	....	....	....	....	....
332	2016/03/16	08:00:00	08:01:00	85	18	BLENSW	....	....	....	....	....	07:00	592	154
333	2016/03/16	16:05:40	16:07:00	100	18	GREENLAND	....	....	....	....	....	....	....	....
334	2016/03/19	15:31:00	15:32:00	100	22	GREENLAND	....	....	....	....	....	....	....	....
335	2016/04/14	13:25:00	13:27:00	100	18	GREENLAND	13:21	13:44	13:32	N11W14	C1.8	....	....	....
336	2016/04/16	05:07:35	05:09:00	340	250	KRIM	05:06	05:38	05:13	N09W35	B7.0	....	....	....
337	2016/04/18	00:25:00	00:26:20	60	20	ROSWELL-NM	00:14	00:39	00:29	N12W62	M6.7	00:48	1084	162
338	2016/04/28	02:16:00	02:17:00	250	45	ALMATY	....	....	....	....	....	....	....	....
339	2016/04/28	09:29:00	09:30:00	80	22	BLENSW	09:27	09:37	09:32	N08E24	B6.2			
340	2016/04/29	16:59:00	17:01:00	100	18	GREENLAND	16:57	17:03	17:01	N07E05	B5.4			

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N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
341	2016/05/02	19:42:00	19:43:00	85	20	ROSWELL-NM	....	....	....	....	....	....	....	....
342	2016/05/04	20:16:00	20:17:00	100	30	GREENLAND	....	....	....	....	....	....	....	....
343	2016/05/05	10:29:00	10:30:00	100	25	GREENLAND	....	....	....	....	....	10:12	195	59
344	2016/05/05	12:38:00	12:41:00	100	18	GREENLAND	....	....	....	....	....	....	....	....
345	2016/05/16	12:29:00	12:30:00	100	15	GREENLAND	....	....	....	....	....	....	....	....
346	2016/05/16	13:55:00	13:56:00	100	10	GREENLAND	....	....	....	....	....	....	....	....
347	2016/05/20	17:02:00	17:03:00	100	30	GREENLAND	....	....	....	....	....	....	....	....
348	2016/05/21	13:57:00	14:00:00	100	15	GREENLAND	13:55	14:07	14:00	S08W17	C1.0	....	....	....
349	2016/05/22	09:12:00	09:15:00	100	15	GREENLAND	09:12	09:28	09:21	S10W30	B5.9	10:00	34	34
350	2016/05/23	18:44:00	18:45:00	100	30	GREENLAND	....	....	....	....	....	18:42	307	17
351	2016/05/24	08:50:20	08:51:30	80	22	BLENSW	....	....	....	....	....	....	....	....
352	2016/05/24	17:03:00	17:04:30	100	18	GREENLAND	17:02	17:12	17:05	S04W55	B4.0	17:24	161	28
353	2016/05/24	18:20:00	18:21:00	100	18	GREENLAND	....	....	....	....	....	17:24	161	28
354	2016/05/24	21:03:00	21:04:00	100	22	GREENLAND	20:49	21:10	21:07	S08W62	B9.5	21:16	246	64
355	2016/05/26	13:46:45	13:48:00	100	18	BLENSW	13:45	13:57	13:51	N14W31	C1.0	14:12	316	81
356	2016/06/04	12:53:00	12:55:00	100	20	GREENLAND	....	....	....	....	....	....	....	....
357	2016/06/07	10:11:00	10:12:00	100	18	GREENLAND	....	....	....	....	....	....	....	....
358	2016/07/18	08:11:00	08:13:30	100	18	GREENLAND	08:09	08:32	08:23	N06W07	C4.4	....	....	....
359	2016/07/18	08:58:00	09:00:00	100	20	GREENLAND	....	....	....	....	....	....	....	....
360	2016/07/18	18:34:00	18:36:00	85	20	BIR	18:34	18:45	18:39	N07W14	B5.6	....	....	....
361	2016/07/18	18:35:00	18:38:00	100	20	GREENLAND	18:34	18:45	18:39	N07W14	B5.6	....	....	....
362	2016/07/19	13:23:50	13:25:30	320	110	BIR	....	....	....	....	....	....	....	....
363	2016/07/19	13:24:00	13:26:00	90	10	BIR	....	....	....	....	....	....	....	....
364	2016/07/19	13:25:00	13:27:00	80	15	BLENSW	....	....	....	....	....	....	....	....
365	2016/07/19	13:26:00	13:28:00	80	45	HEITERSWIL-CH	....	....	....	....	....	....	....	....
366	2016/07/19	13:27:00	13:29:00	85	45	DENMARK	....	....	....	....	....	....	....	....
367	2016/07/20	11:36:00	11:38:00	100	10	GREENLAND	....	....	....	....	....	....	....	....
368	2016/07/20	22:05:00	22:07:30	100	20	GREENLAND	22:03	22:54	22:17	N05W41	C4.6	....	....	....
369	2016/07/21	12:52:30	12:55:00	100	18	GREENLAND	12:47	13:03	12:55	N01W49	C9.2	....	....	....
370	2016/07/22	11:19:00	11:24:00	95	22	GREENLAND	11:14	11:45	11:31	N05W61	B9.0	11:00	383	44
371	2016/07/23	05:10:00	05:11:00	130	45	OOTY	05:00	05:24	05:16	N02W74	M7.6	05:24	835	117
372	2016/08/09	07:38:30	07:40:00	80	20	BLENSW	07:39	07:45	07:42	N05E59	B3.5	....	....	....
373	2016/10/08	15:04:45	15:06:00	100	30	GREENLAND	....	....	....	....	....	....	....	....
374	2017/04/01	10:34:00	10:36:00	100	18	GREENLAND	10:31	10:39	10:36	N14W23	B9.7	11:12	294	64

Table 2: Group of Type III bursts observed by e-CALLISTO and their association with solar transients.

N ⁰	Date of burst (yyyy/mm/dd)	Type III burst					Soft X-ray flare					CME		
		Begin (UT)	End (UT)	F_u (MHz)	F_l (MHz)	Station	Start (UT)	End (UT)	Peak (UT)	Location position	Class	Onset (UT)	Speed (Km/s)	Width (degree)
375	2017/04/02	07:54:00	07:55:00	80	20	BLENSW	07:50	08:13	08:02	N12W59	M5.3	08:24	562	87
376	2017/04/17	14:41:00	14:42:30	100	20	GREENLAND	14:40	14:50	14:46	N08E88	B3.6	15:24	282	43
377	2017/04/18	09:36:00	09:38:00	100	18	GREENLAND	09:29	09:55	09:41	N09E84	C3.3	10:00	597	101
378	2017/04/18	09:41:00	09:43:00	97	60	DENMARK	09:29	09:55	09:41	N09E84	C3.3	10:00	597	101
379	2017/06/03	14:50:00	14:52:00	100	18	GREENLAND	14:47	15:00	14:56	N06E52	C2.5	....	....	....
380	2017/07/11	17:00:00	17:02:00	100	15	GREENLAND	16:55	17:03	16:58	S04E00	B2.8	....	....	....
381	2017/07/12	14:59:00	15:01:00	100	15	GREENLAND	....	....	....	....	....	....	....	....
382	2017/08/18	21:03:00	21:04:00	100	20	GREENLAND	21:01	21:10	21:04	N11E20	C2.9	....	....	....
383	2017/08/22	11:11:00	11:12:00	350	250	KRIM	11:09	11:16	11:13	N08W33	C1.0	....	....	....
384	2017/09/02	12:27:55	12:29:00	100	18	GREENLAND	11:48	12:32	12:05	N15E35	B8.5	....	....	....
385	2017/09/06	11:59:00	12:02:00	100	22	GREENLAND	11:53	12:10	12:02	S09W34	X9.3	12:24	1571	360
386	2017/09/08	05:46:00	05:49:00	180	45	GAURI	05:31	05:53	05:48	S12W57	C8.3	....	....	....
387	2017/09/08	12:12:00	12:14:00	100	15	GREENLAND	12:09	12:15	12:13	S07W60	C5.9	....	....	....
388	2017/09/08	14:01:00	14:04:00	100	12	GREENLAND	....	....	....	....	....	....	....	....
389	2017/09/08	15:36:50	15:38:00	100	15	GREENLAND	15:09	16:04	15:47	S09W63	M2.9	....	....	....
390	2017/09/08	18:06:00	18:09:00	100	20	GREENLAND	....	....	....	....	....	....	....	....
391	2017/09/08	20:13:00	20:14:00	100	25	GREENLAND	20:10	20:16	20:14	S07W65	C1.7	....	....	....
392	2017/09/09	06:54:00	06:56:00	80	18	BLENSW	06:51	06:58	06:56	S07W68	C1.7	....	....	....
393	2017/09/09	11:16:00	11:17:20	100	20	GREENLAND	10:50	11:42	11:04	S08W74	M3.7	....	....	....
394	2017/09/10	15:55:00	16:05:00	80	18	GLASGOW	15:35	16:31	16:06	S08W88	X8.2	16:00	3163	360
395	2017/09/12	15:31:00	15:32:20	100	18	GREENLAND	15:28	15:39	15:35	N10E44	B3.5	....	....	....
396	2017/09/25	17:11:00	17:12:00	100	25	GREENLAND	17:09	17:14	17:12	N12E77	B2.9	18:00	148	25
397	2017/09/26	02:33:00	02:34:00	260	45	ALMATY	02:29	02:38	02:34	N13E71	C1.8	03:12	100	20
398	2017/10/11	14:49:20	14:51:00	100	20	GREENLAND	....	....	....	....	....	....	....	....