

Ooty Callisto Solar Events Year : 2013

* Table 01 : Ooty E-Callisto Events list

* Table 02 : Ooty E-Callisto Type II Events list

* Acknowledgement

* References

Table 01 : Ooty E-Callisto Events list 2013

S.No	Date	FIT_File Time (UT)	Type
01.	January 04	07:14:59	III
02.	January 11	02:45:00	III
03.	January 11	08:14:59	III
04.	January 11	09:14:58	III & II
05.	January 13	08:29:59	II & III
06.	January 14	06:14:59	III
07.	January 18	04:30:00	III
08.	February 05	07:59:59	V (III followed by V)
09.	February 24	09:59:58	V (III followed by V)
10.	March 30	05:29:59	V (III followed by V)
11.	April 01	05:29:59	III
12.	April 03	07:44:59	III
13.	April 28	07:44:59	III
14.	May 02	05:00:00	II
15.	May 05	11:44:58	III
16.	May 07	07:14:59	III
17.	May 07	08:14:58	III
18.	May 09	05:14:59	III
19.	May 10	06:14:59	III
20.	May 10	08:59:58	III
21.	May 25	05:59:59	V (III followed by V)
22.	July 03	06:59:59	II
23.	July 03	07:14:59	II & III
24.	July 04	03:59:59	III
25.	July 04	07:59:59	III

26.	July 04	08:14:58	III
27.	July 05	02:45:00	III
28.	July 05	06:14:59	III
29.	July 05	06:44:59	III
30.	July 05	06:59:59	III
31.	July 05	07:59:59	III
32.	July 05	09:29:58	III
33.	July 06	02:30:00	III
34.	July 07	05:44:59	III
35.	July 17	05:58:23	III
36.	July 17	09:13:22	III
37.	July 21	03:59:59	III
38.	July 21	08:29:58	III
39.	July 25	08:44:58	III
40.	August 31	09:14:59	III
41.	September 02	05:29:59	III
42.	September 02	05:59:59	III
43.	September 08	08:29:59	III
44.	September 25	05:14:59	III
45.	October 03	07:14:57	III
46.	October 05	06:38:14	U burst
47.	October 05	06:53:30	II
48.	October 09	06:15:00	III
49.	October 09	06:30:00	III
50.	October 09	07:59:59	III
51.	October 11	06:59:59	II
52.	October 18	04:14:59	III
53.	October 18	07:00:04	III
54.	October 18	07:15:04	III
55.	October 19	04:14:59	III
56.	October 19	05:29:59	III
57.	October 19	05:59:59	III

58.	October 19	06:14:59	III
59.	October 20	07:14:59	III
60.	October 20	08:29:58	III
61.	October 20	08:44:58	III
62.	October 21	02:45:00	III
63.	October 21	08:29:58	III
64.	October 21	09:14:58	III
65.	October 23	03:45:00	III
66.	October 23	04:59:59	III
67.	October 23	06:59:59	III
68.	October 23	07:44:58	III
69.	October 23	10:44:58	U burst 96.37 Mhz 10:51:11
70.	October 23	10:59:57	III
71.	October 24	04:44:59	III
72.	October 25	02:45:00	II
73.	October 25	03:00:00	II
74.	October 25	07:44:58	II & III
75.	October 25	07:59:58	II
76.	October 26	02:30:00	III
77.	October 26	03:15:00	III & zebra patern
78.	October 26	05:15:00	III & zebra patern
79.	October 26	09:14:59	III
80.	October 27	09:00:01	III
81.	October 28	04:30:02	III
82.	October 28	05:00:02	III
83.	October 28	05:15:02	III
84.	October 28	09:15:03	V (III followed by V)
85.	October 29	04:14:59	V (III followed by V)
86.	November 02	04:29:59	III & II
87.	November 02	04:44:59	II
88.	November 04	11:00:00	III
89.	November 04	11:30:00	III

90.	November 05	03:45:00	III
91.	November 07	03:30:00	II
92.	November 07	04:30:01	III
93.	November 08	04:14:59	II & III
94.	November 08	04:29:59	II
95.	November 09	05:14:59	III
96.	November 10	05:00:03	II
97.	November 10	05:15:03	II
98.	November 12	08:00:00	III
99.	November 12	08:45:01	III
100.	November 12	11:00:00	III
101.	November 13	04:00:00	III
102.	November 13	04:30:01	III
103.	November 13	05:15:00	III
104.	November 13	06:15:03	III
105.	November 13	06:45:02	III
106.	November 13	07:00:02	III
107.	November 13	08:45:02	III
108.	November 13	09:00:02	III
109.	November 13	10:30:01	III
110.	November 14	06:14:59	III
111.	November 14	08:00:01	III
112.	November 16	08:00:01	III
113.	November 19	02:30:00	III
114.	November 19	06:14:59	III
115.	November 19	10:14:58	II
116.	November 19	10:29:58	II
117.	November 20	05:44:59	III
118.	November 22	11:00:04	III
119.	November 24	06:00:00	III
120.	December 04	04:59:59	III
121.	December 05	06:29:59	III

122.	December 07	07:15:01	II
123.	December 07	07:30:01	II
124.	December 11	07:15:05	III
125.	December 13	09:15:00	III
126.	December 14	04:29:59	III
127.	December 14	06:14:59	III
128.	December 15	04:15:01	III
129.	December 15	08:14:59	III
130.	December 15	10:30:02	III
131.	December 15	11:15:02	III
132.	December 17	05:59:59	III
133.	December 18	06:44:59	III
134.	December 18	08:15:01	III
135.	December 19	06:45:01	III
136.	December 20	05:15:03	III
137.	December 22	09:15:01	III
138.	December 22	09:59:59	III
139.	December 24	06:29:59	III
140.	December 26	04:59:59	III
141.	December 26	06:29:59	III
142.	December 26	06:44:59	III
143.	December 29	07:45:00	III
144.	December 30	07:44:58	III

Table 01 : Ooty E-Callisto Type II Events list 2013

S.No	Date	FIT_File Time (UT)	Type
01.	January 11	09:14:58	III & II
02.	January 13	08:29:59	II & III
03.	May 02	05:00:00	II
04.	July 03	06:59:59	II
05.	July 03	07:14:59	II & III
06.	October 05	06:53:30	II

07.	October 11	06:59:59	II
08.	October 25	02:45:00	II
09.	October 25	03:00:00	II
10.	October 25	07:44:58	II & III
11.	October 25	07:59:58	II
12.	November 02	04:29:59	III & II
13.	November 02	04:44:59	II
14.	November 07	03:30:00	II
15.	November 08	04:14:59	II & III
16.	November 08	04:29:59	II
17.	November 10	05:00:03	II
18.	November 10	05:15:03	II
19.	November 19	10:14:58	II
20.	November 19	10:29:58	II
21.	December 07	07:15:01	II
22.	December 07	07:30:01	II

Acknowledgements

We would like to thank e-Callisto groups at Institute for Astronomy, **ETH** Zurich and **FHNW** Brugg/Windisch, Switzerland and **NCRA – TIFR** for their support. This work has made use of SunPy, an open-source and free community-developed solar data analysis package written in Python (<http://sunpy.org/>).

References:

- * "CALLISTO - A New Concept for Solar Radio Spectrometers", A. O. Benz, C. Monstein & H.Meyer, Solar Phys.226,143–151(2005)
- * "A World-Wide Net of Solar Radio Spectrometers e-CALLISTO", A. O. Benz, C. Monstein, H. Meyer, P. K. Manoharan, R. Ramesh, A. Altyntsev, A. Lara, J. Paez, K.-S. Cho, Earth Moon Planet, DOI: 10.1007/s11038-008-9267-6.
- * "Catalog of dynamic electromagnetic spectra observed with Callisto, Phoenix-3 and ARGOS", Christian Monstein, Updated 15.12.2013. Journal of the Society of Amateur Radio Astronomers January-February 2013, Vol.8,p.25-41.
- * "Callisto spectrum measurements in Ootacamund" Chr. Monstein, P. K. Manoharan and D.Nandagopal, Astronomy and Astrophysics, doi=10.1.1.210.4678.
- * The event list is prepared and verified by Sudhagar S, Mahalakshmi K, Induja M S, Arun Prasath M, and Krishnakumar M A.