JOVIAN DAM OBSERVATION REPORT

Log Entry 793

08 Nov 2016 B

Weak Io-B.

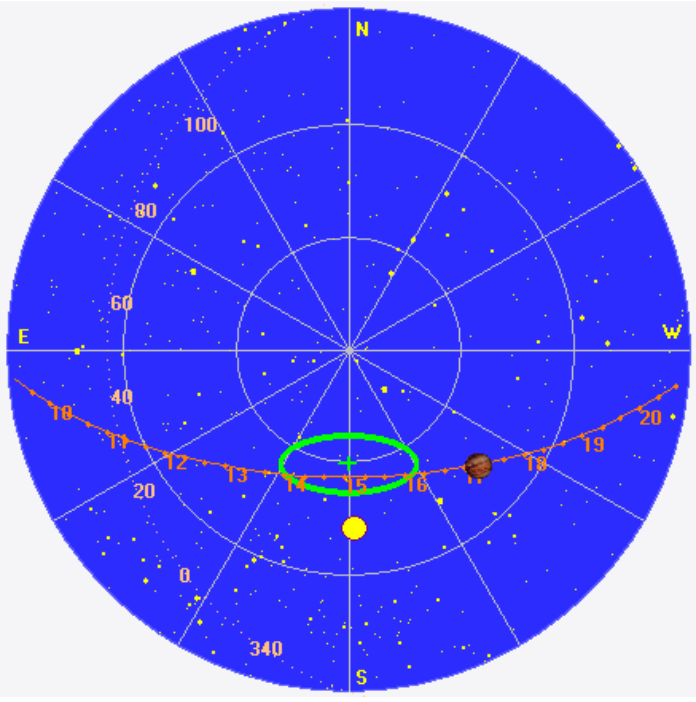
RCP dominant L bursting 1706–1719 UTC from 18 to 31 MHz, vertex early arc.

Note apparent polarization shift with frequency; this is thought to be an artifact of the antenna array, beam steering, and off axis angle. Effect seems to get worse as Jupiter's transit elevation decreases.

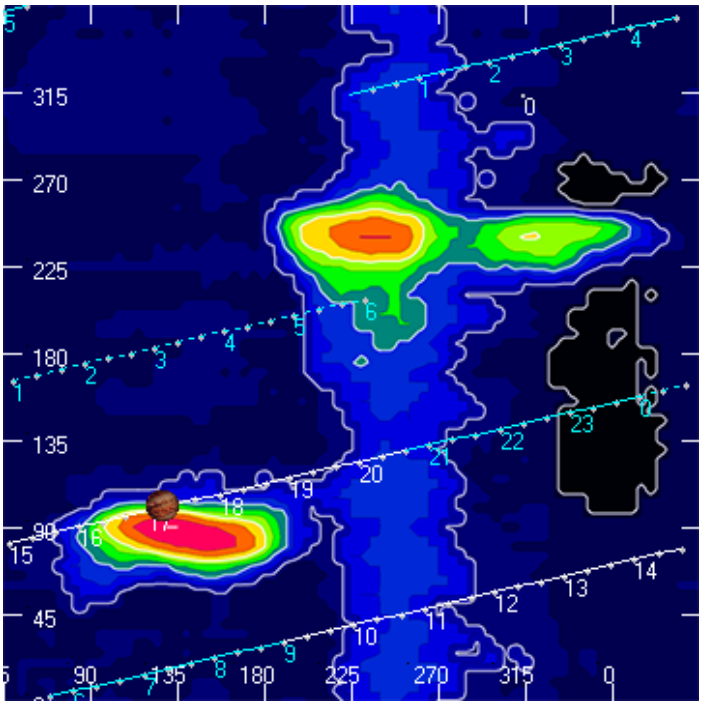
Jupiter was +30° to +34° off axis.

Jupiter was leading the Sun by 34°.

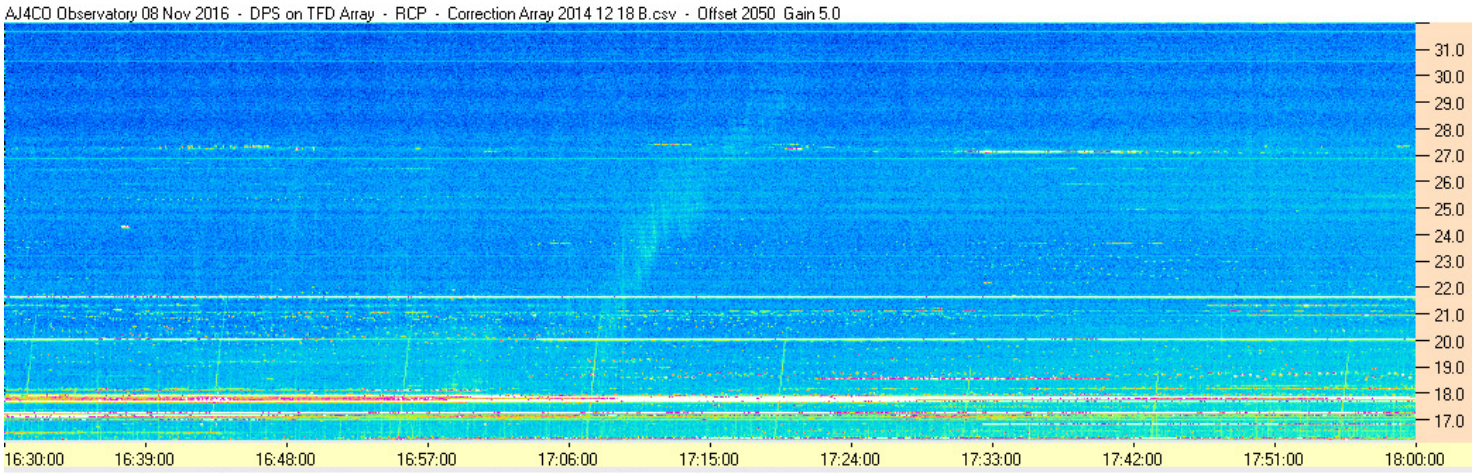
Jupiter's location at midpoint of observed emission (1712 UTC)

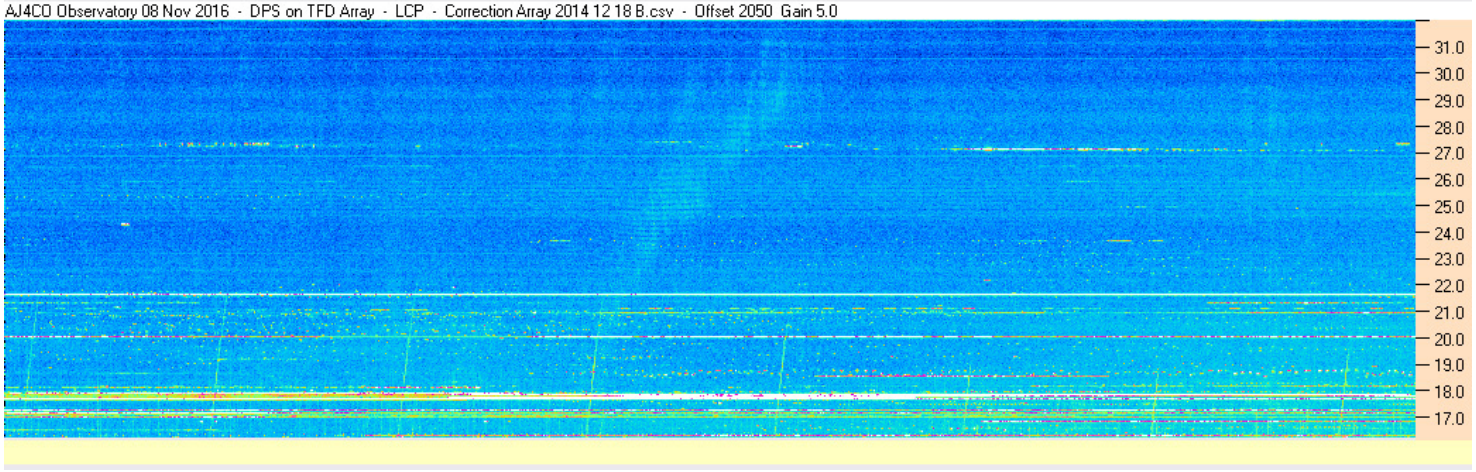


Sky map with array HPBW in green.



CML–Io phase plane.


AJ4CO Observatory 08 Nov 2016 - DPS on TFD Array - RCP - Correction Array 2014 12 18 B.csv - Offset 2050 Gain 5.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
16:30:00
16:39:00
16:48:00
16:57:00
17:06:00
17:15:00
17:24:00
17:33:00
17:42:00
17:51:00
18:00:00


AJ4CO Observatory 08 Nov 2016 - DPS on TFD Array - LCP - Correction Array 2014 12 18 B.csv - Offset 2050 Gain 5.0
31.0
30.0
29.0
28.0
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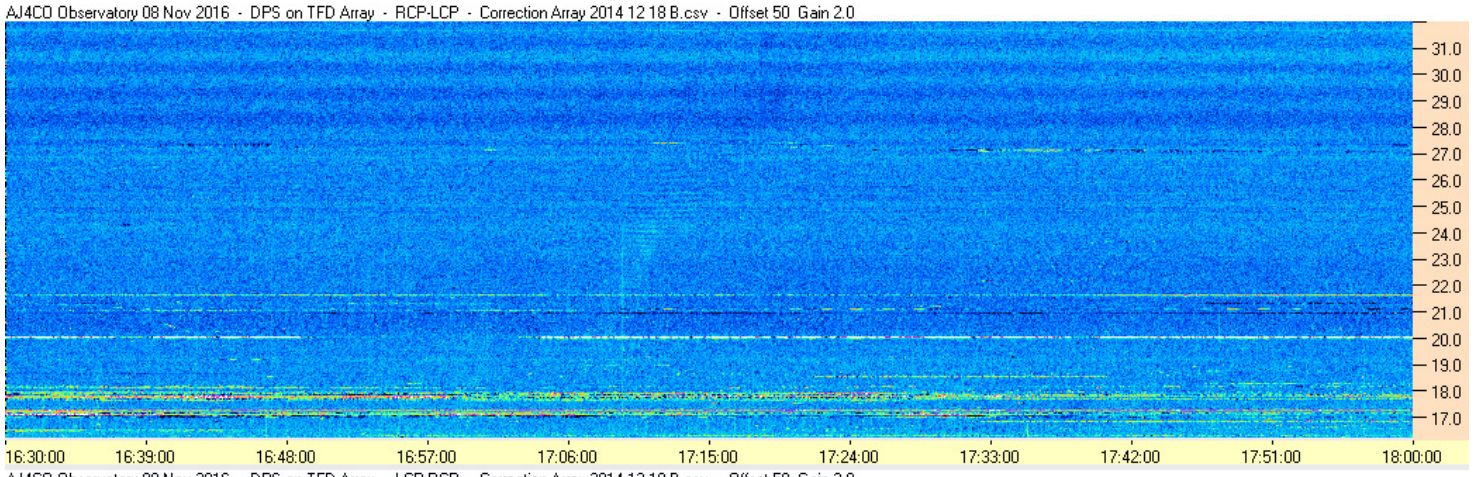
22.0
21.0
20.0
19.0
18.0
17.0


AJ4CO Observatory 08 Nov 2016 - DPS on TFD Array - RCP-LCP - Correction Array 2014 12 18 B.csv - Offset 50 Gain 2.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
16:30:00
16:39:00
16:48:00
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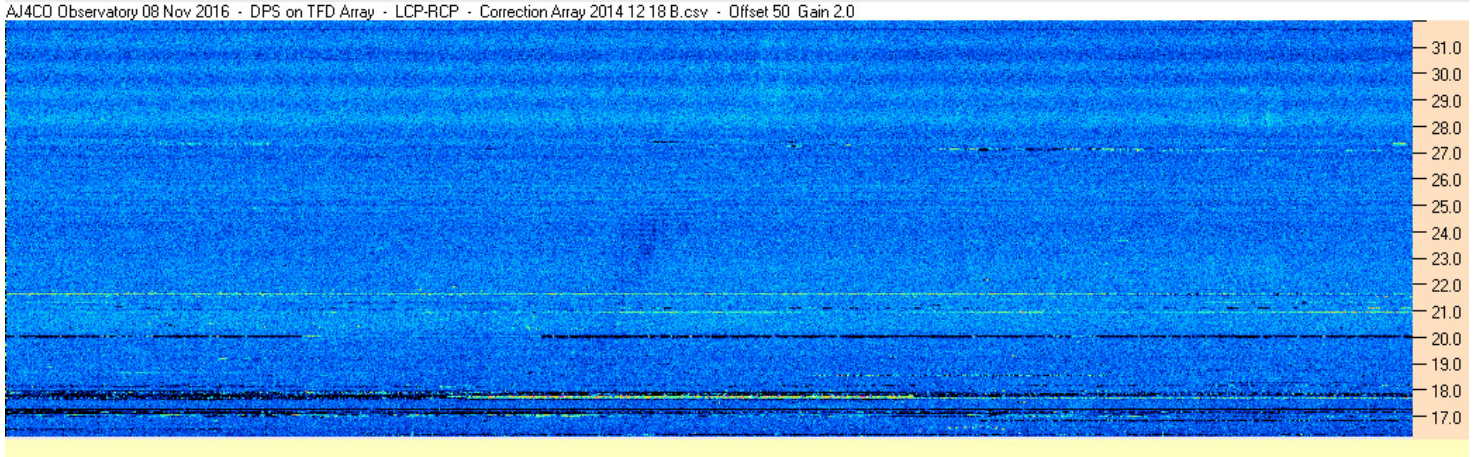
17:33:00
17:42:00
17:51:00
18:00:00


AJ4CO Observatory 08 Nov 2016 - DPS on TFD Array - LCP-RCP - Correction Array 2014 12 18 B.csv - Offset 50 Gain 2.0
31.0
30.0
29.0
28.0
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22.0
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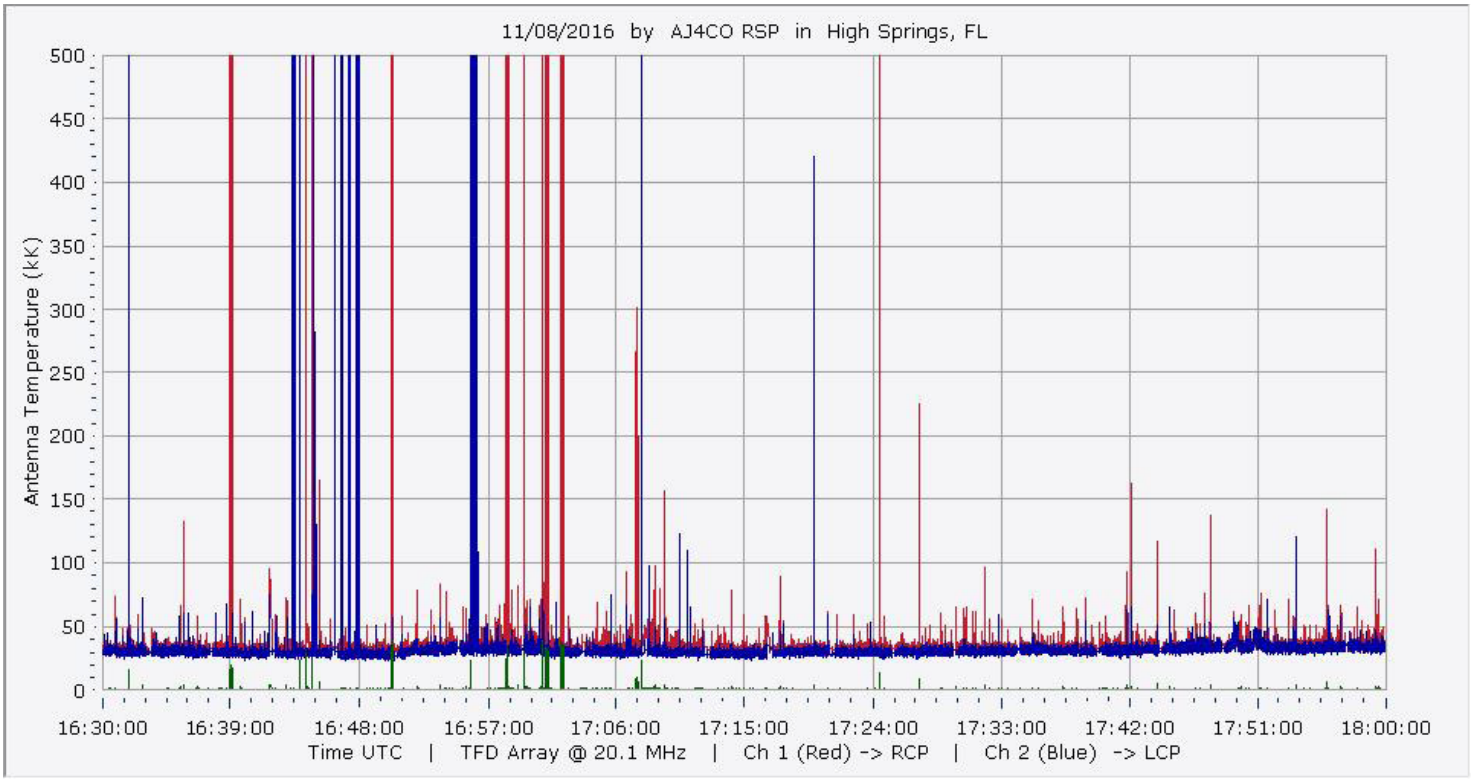
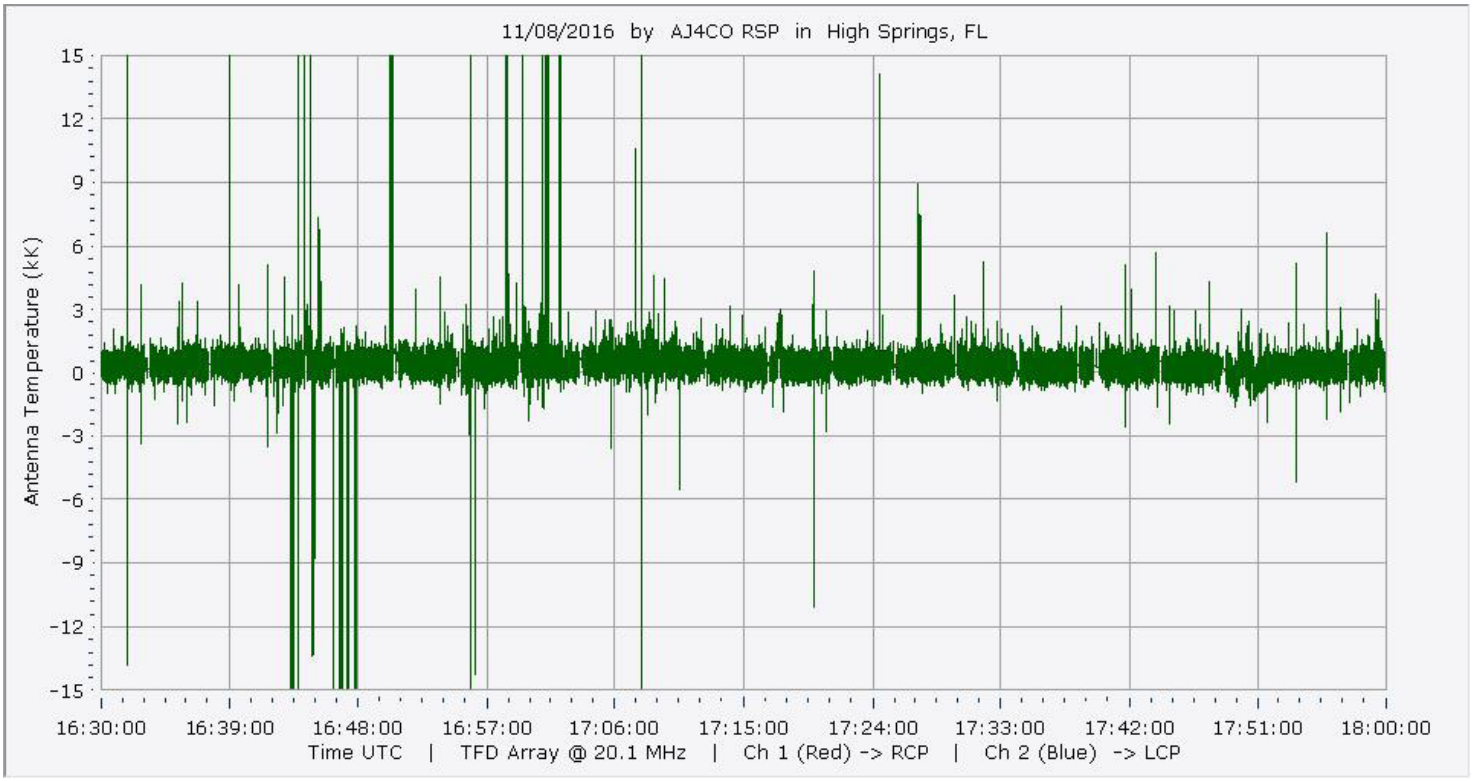

11/08/2016 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
500
450
400
350
300
250
200
150
100
50
0
16:30:00
16:39:00
16:48:00
16:57:00
17:06:00
17:15:00
17:24:00
17:33:00
17:42:00
17:51:00
18:00:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


11/08/2016 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
15
12
9
6
3
0
-3
-6
-9
-12
-15
16:30:00
16:39:00
16:48:00
16:57:00
17:06:00
17:15:00
17:24:00
17:33:00
17:42:00
17:51:00
18:00:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP