JOVIAN DAM OBSERVATION REPORT

Log Entry 820–822

04 Jan 2017 D/nC

Some brief, nearly invisible RCP L bursting from prox 0820 to 0900 UTC, but too far out of the beam to see. (Io-B)

LCP dominant L bursting 0922–1024 UTC from 16 to 23 MHz, vertex late arc. (Io-D)

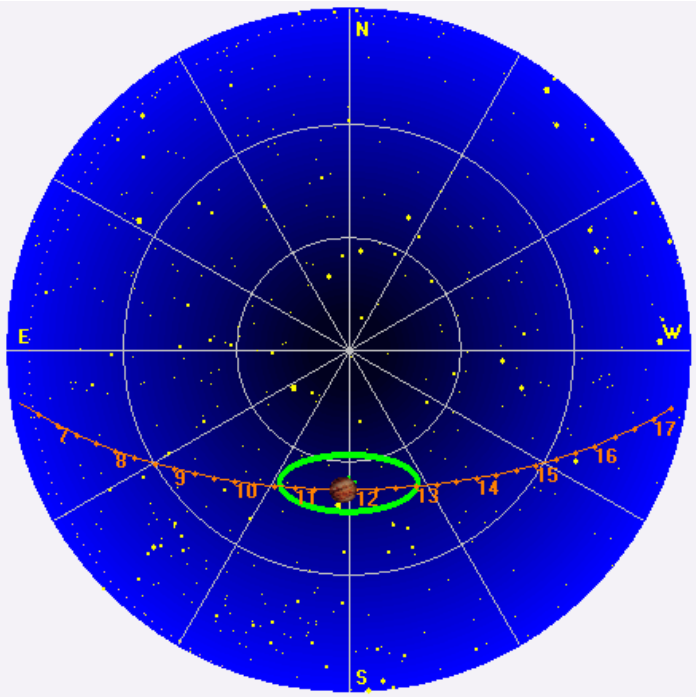
LCP dominant L bursting 1045–1138 UTC from 16 to 19 MHz, zero frequency drift emission envelope. (Io-D ?)

LCP dominant L bursting 1402–1417 UTC from 16 to 17 MHz, negative frequency drift emission envelope. (non-Io-C)

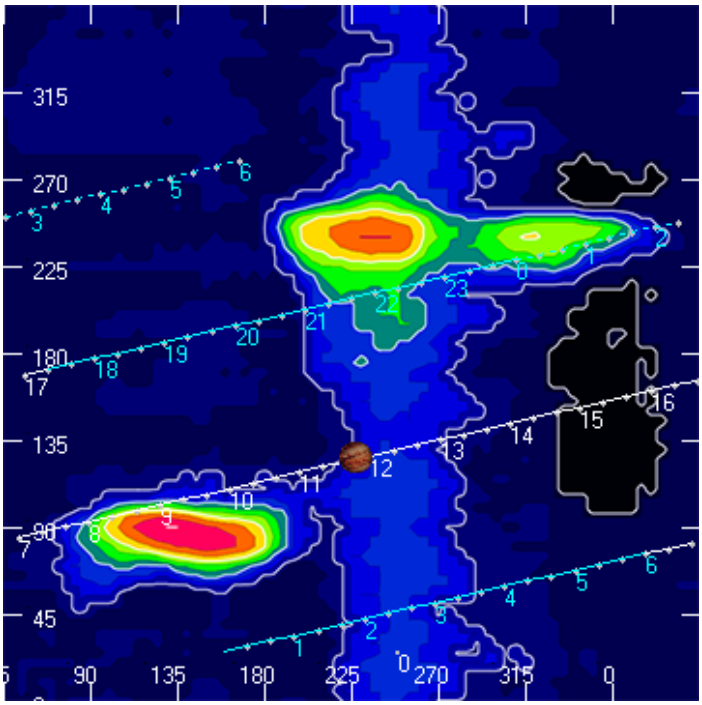
Jupiter was -40° to +38° off axis.

Jupiter was leading the Sun by 83°.

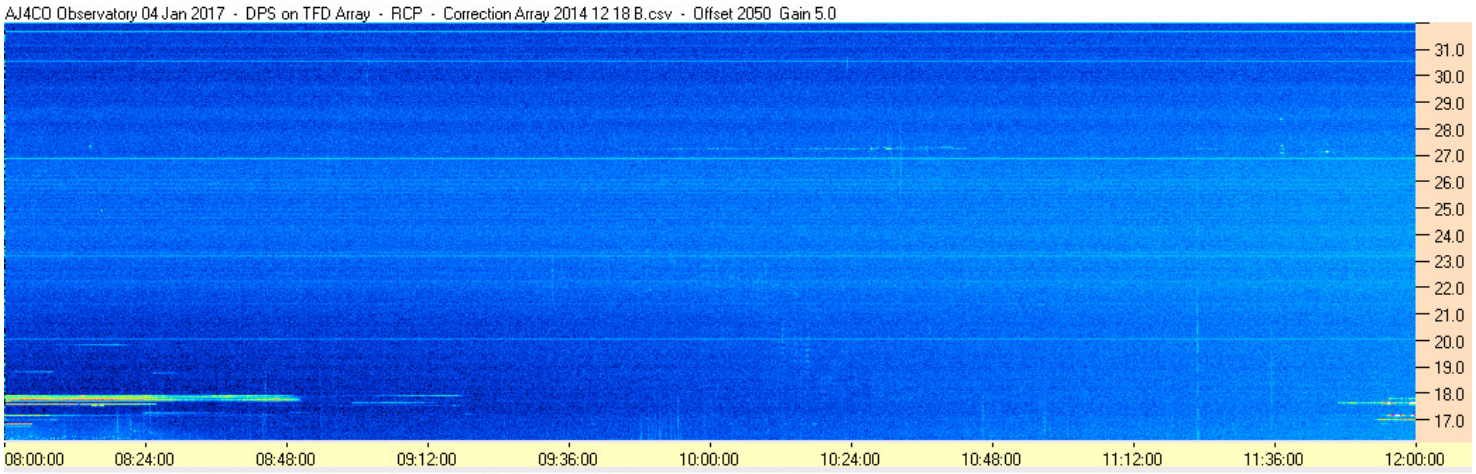
Jupiter's location at midpoint of observed emission (1149 UTC)



Sky map with array HPBW in green.



CML–Io phase plane.


AJ4CO Observatory 04 Jan 2017 - DPS on TFD Array - RCP - Correction Array 2014 12 18 B.csv - Offset 2050 Gain 5.0
31.0
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08:48:00
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09:36:00
10:00:00
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10:48:00
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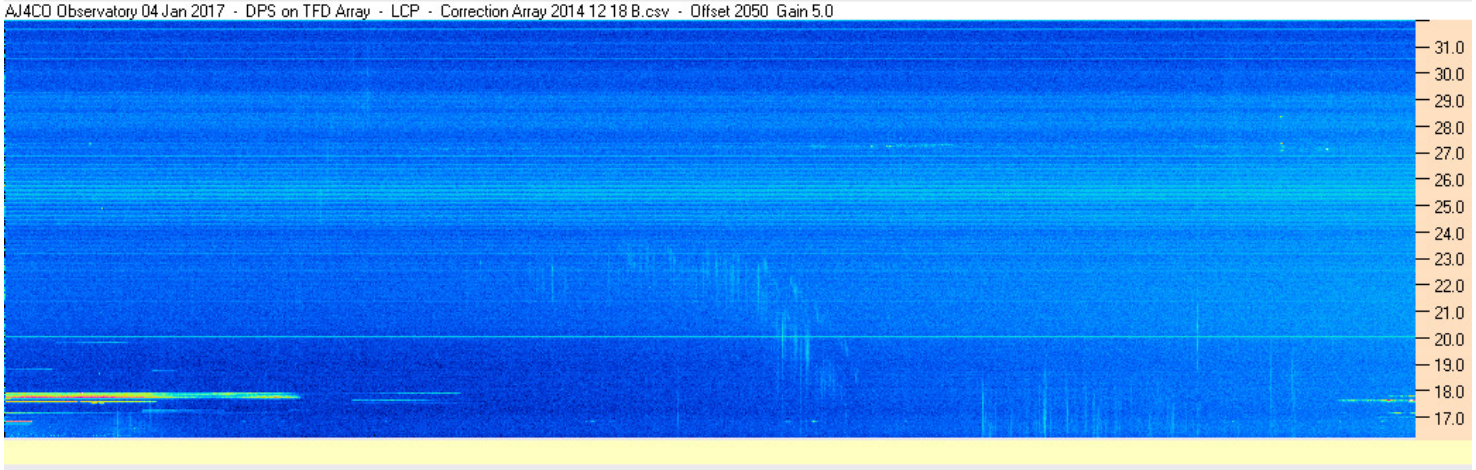
11:36:00
12:00:00


AJ4CO Observatory 04 Jan 2017 - DPS on TFD Array - LCP - Correction Array 2014 12 18 B.csv - Offset 2050 Gain 5.0
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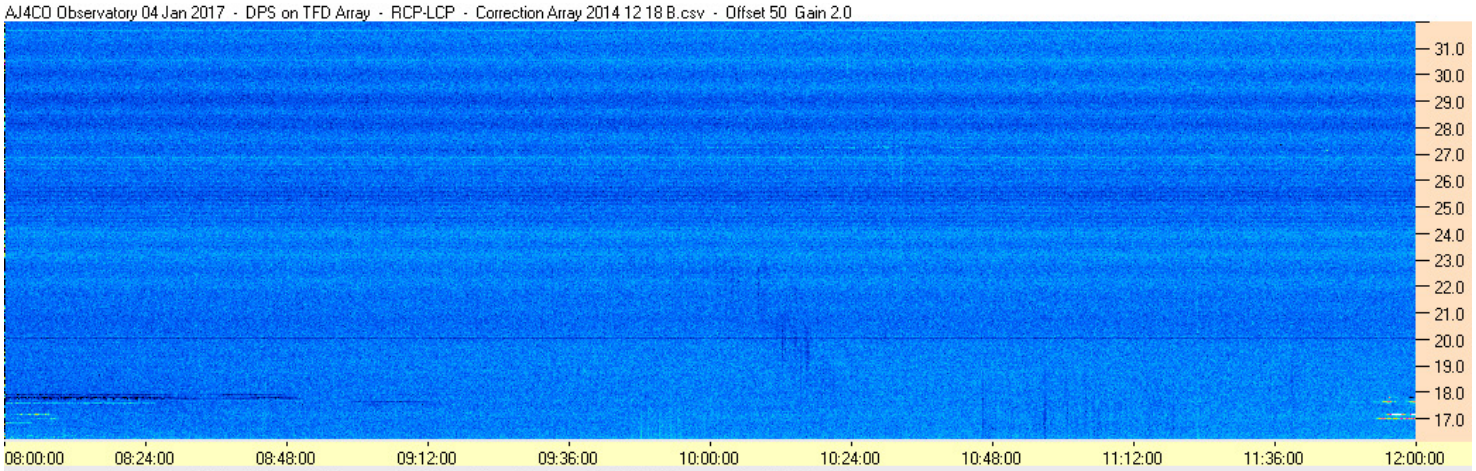
AJ4CO Observatory 04 Jan 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2014 12 18 B.csv - Offset 50 Gain 2.0
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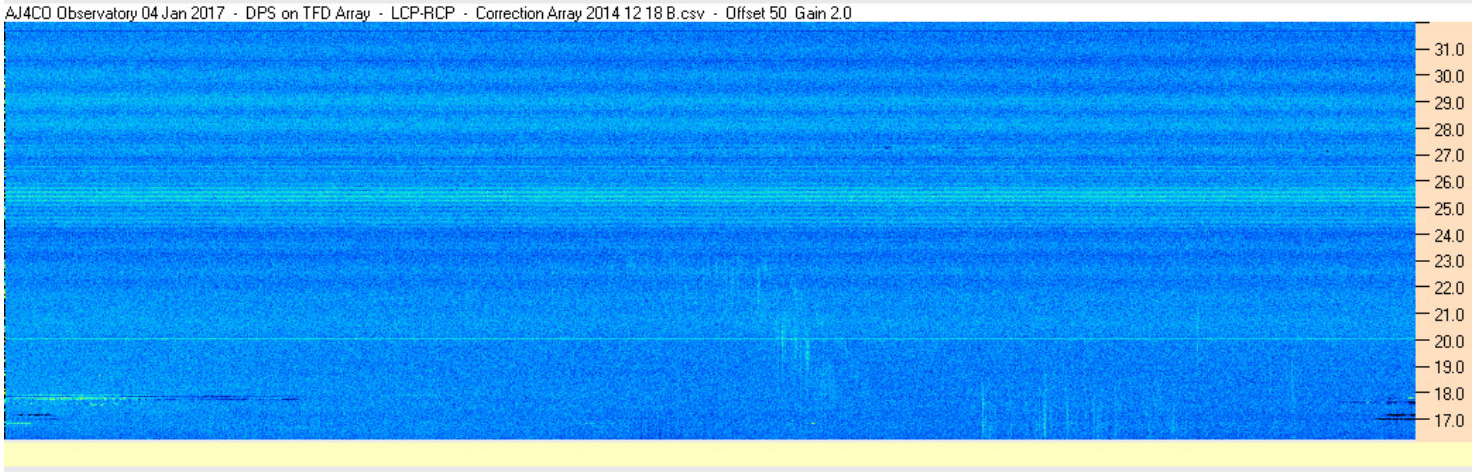
11:36:00
12:00:00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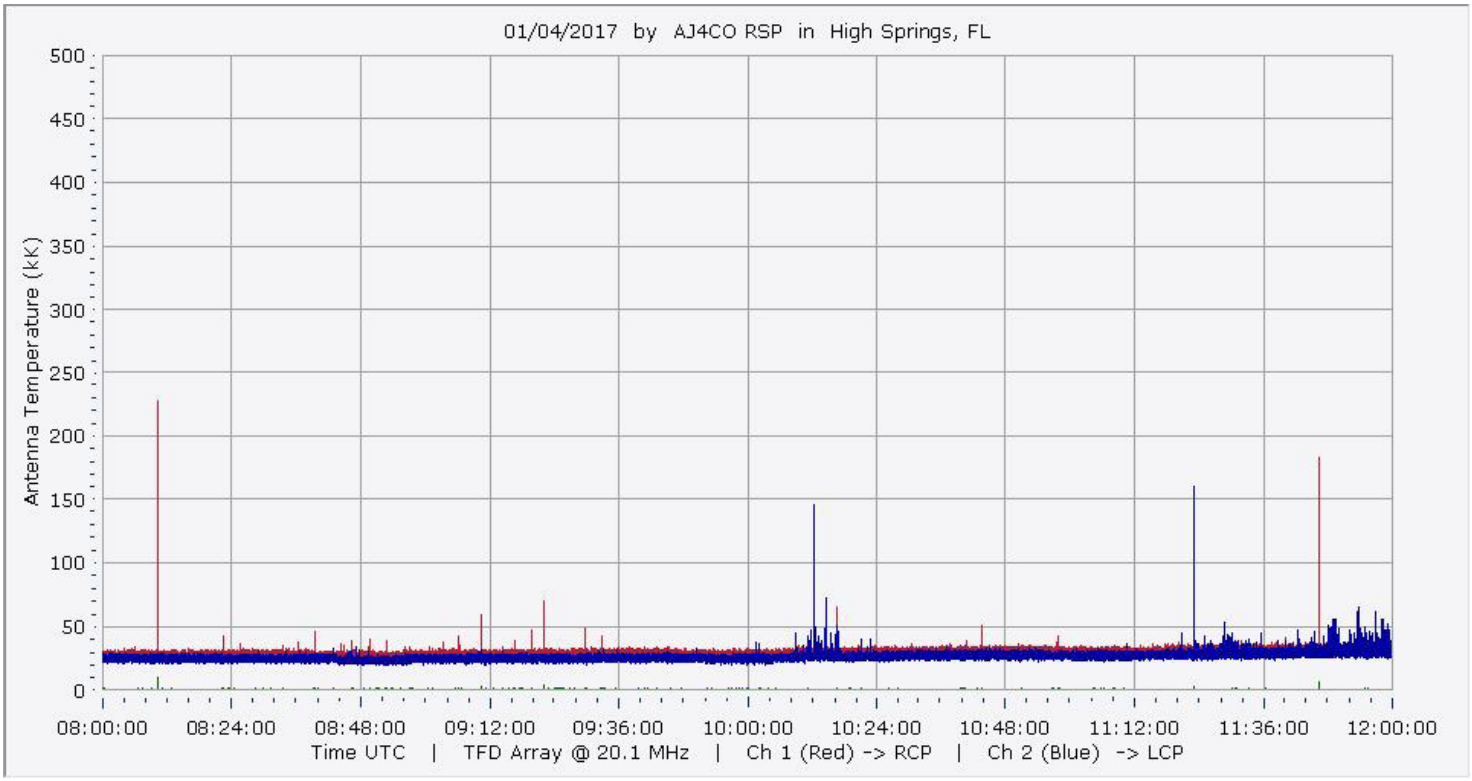
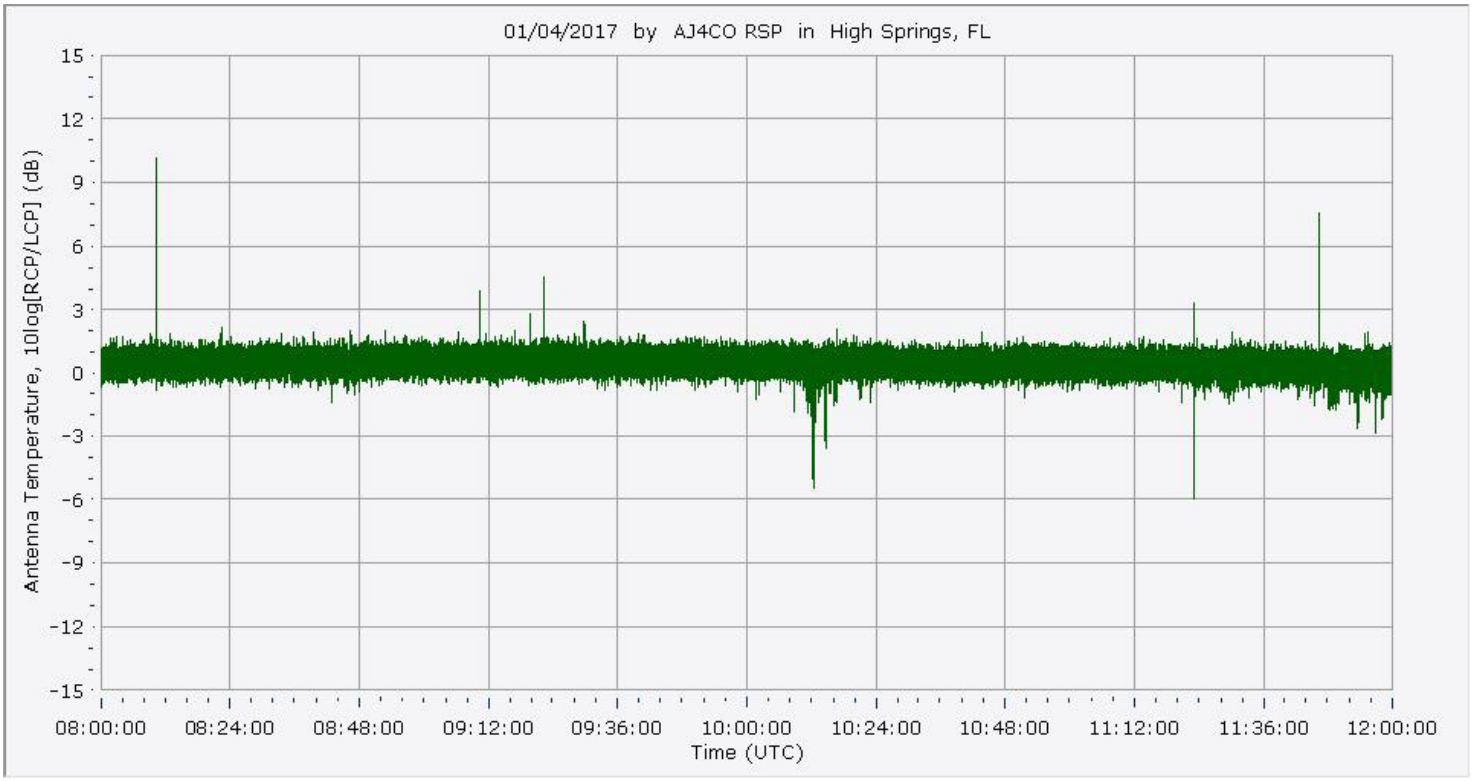

01/04/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
500
450
400
350
300
250
200
150
100
50
0
08:00:00
08:24:00
08:48:00
09:12:00
09:36:00
10:00:00
10:24:00
10:48:00
11:12:00
11:36:00
12:00:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


01/04/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
08:00:00
08:24:00
08:48:00
09:12:00
09:36:00
10:00:00
10:24:00
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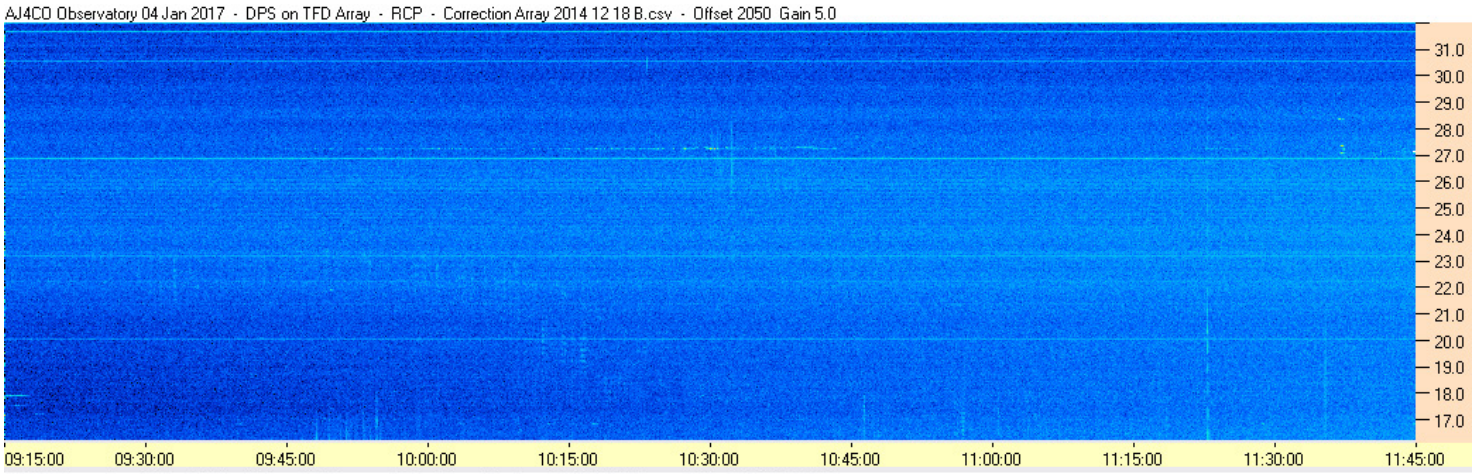
11:12:00
11:36:00
12:00:00
Time (UTC)


AJ4CO Observatory 04 Jan 2017 - DPS on TFD Array - RCP - Correction Array 2014 12 18 B.csv - Offset 2050 Gain 5.0
31.0
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25.0
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23.0
22.0
21.0
20.0
19.0
18.0
17.0
09:15:00
09:30:00
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11:15:00
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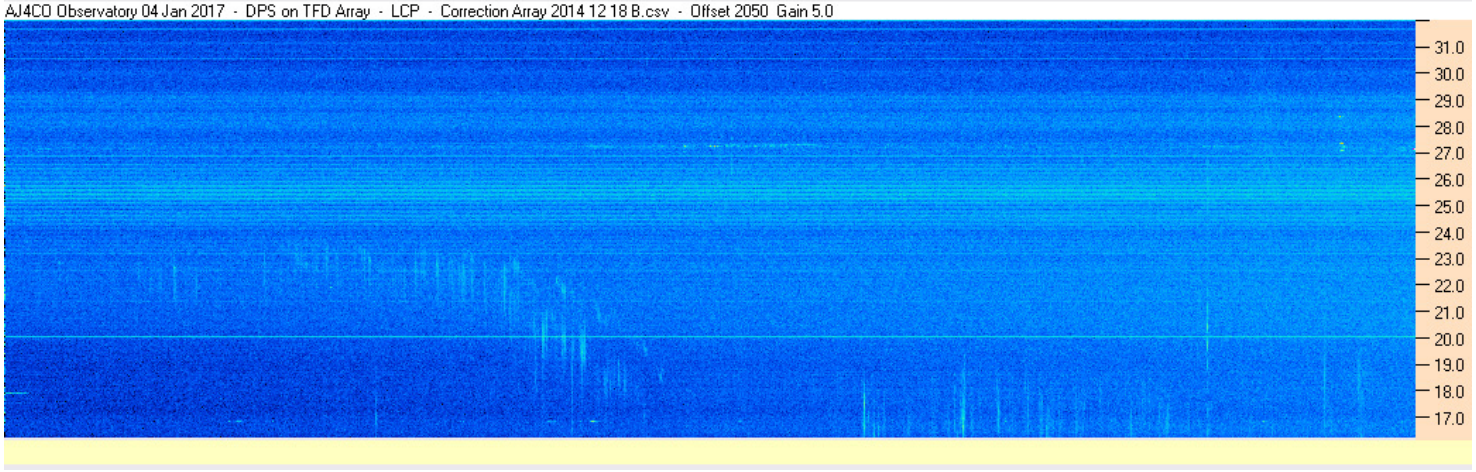
11:45:00


AJ4CO Observatory 04 Jan 2017 - DPS on TFD Array - LCP - Correction Array 2014 12 18 B.csv - Offset 2050 Gain 5.0
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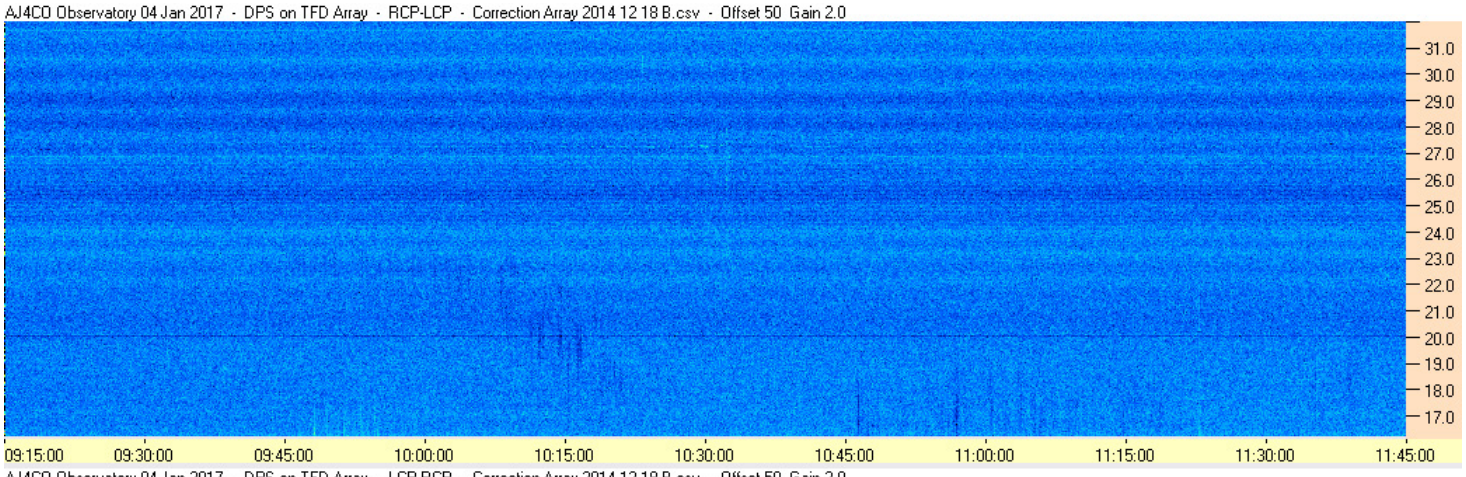
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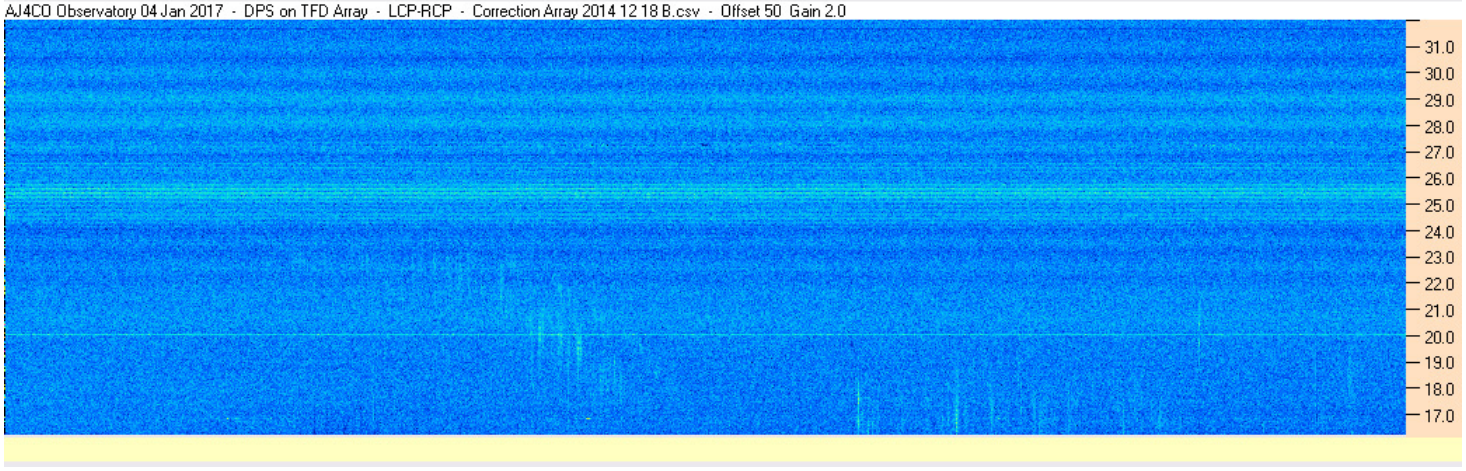
11:45:00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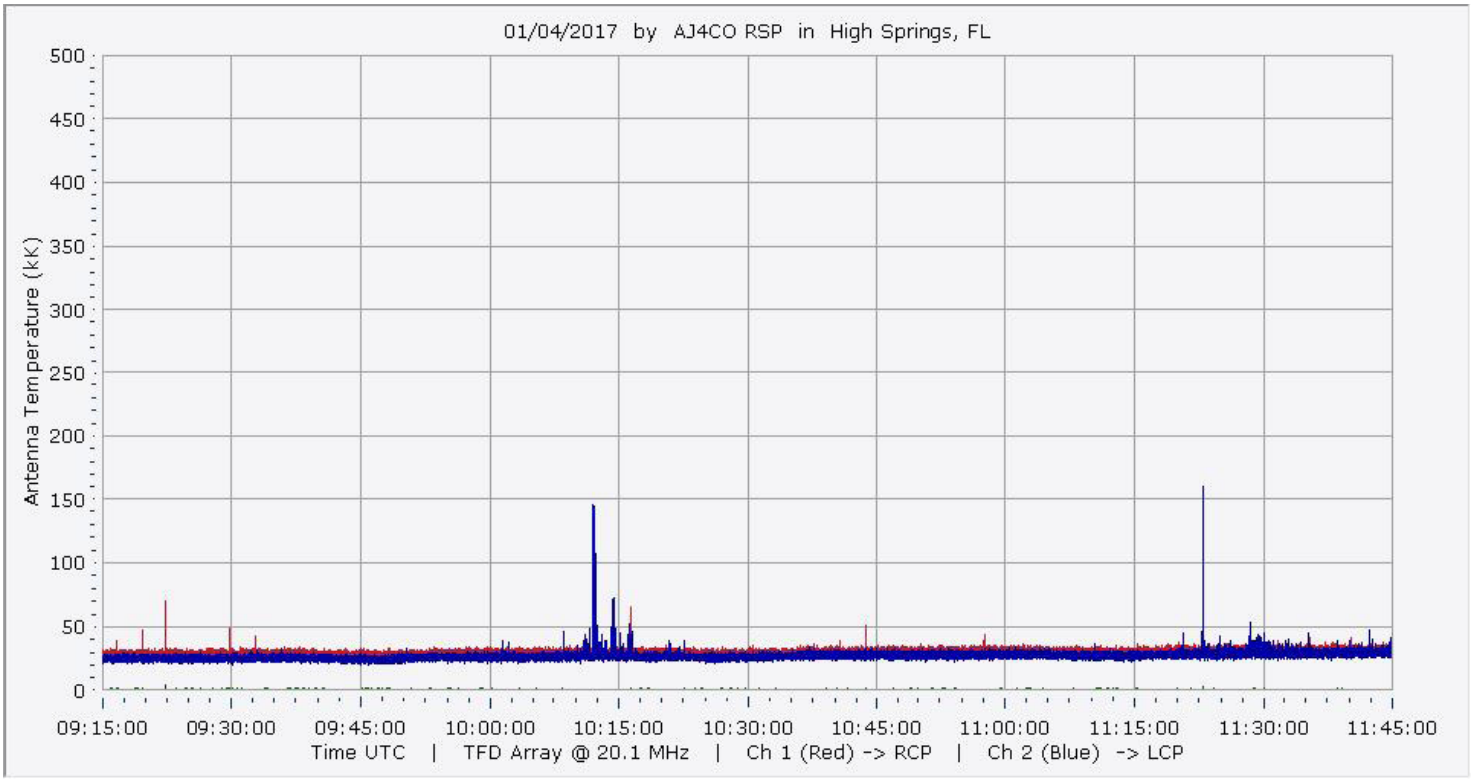
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Antenna Temperature (kK)
500
450
400
350
300
250
200
150
100
50
0
09:15:00
09:30:00
09:45:00
10:00:00
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10:30:00
10:45:00
11:00:00
11:15:00
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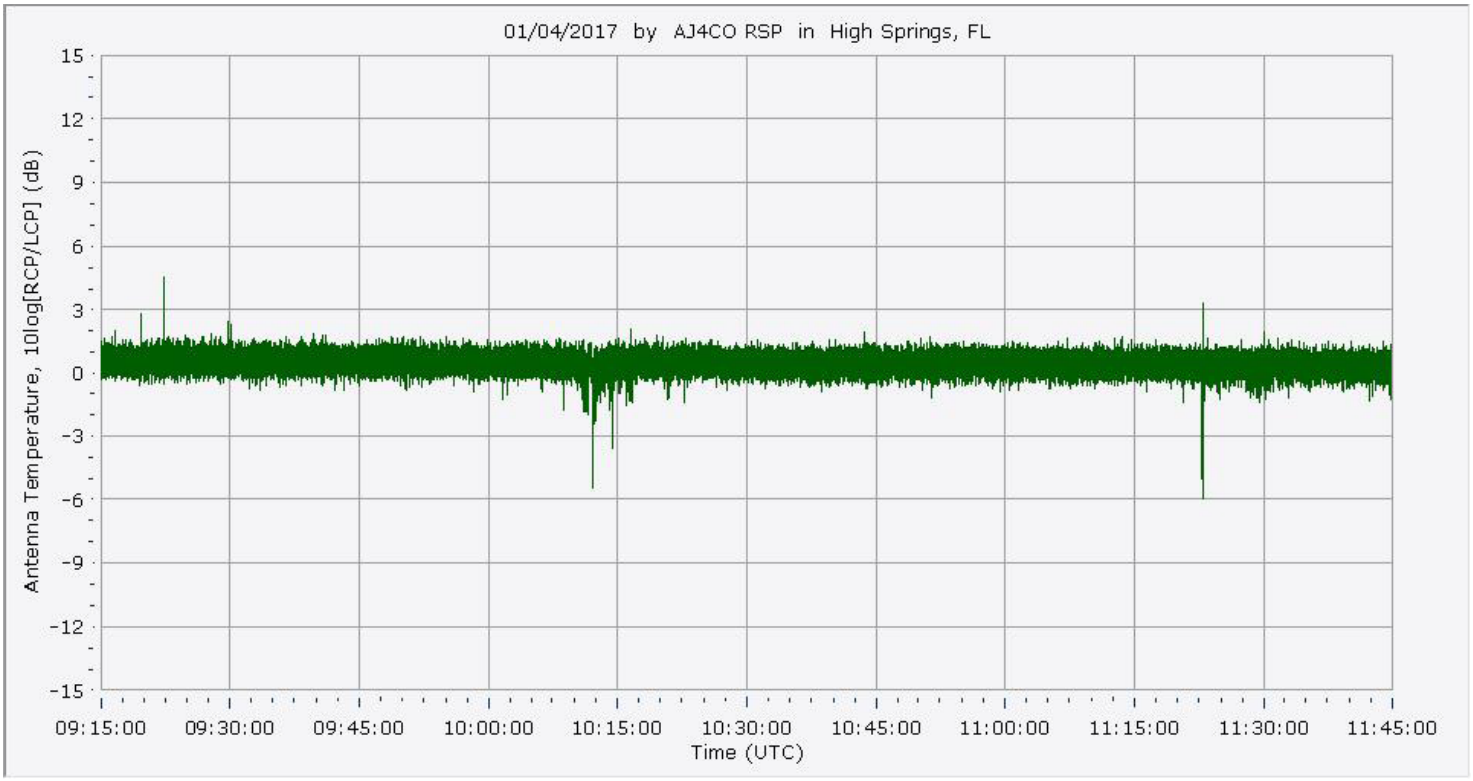
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Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
09:15:00
09:30:00
09:45:00
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10:45:00
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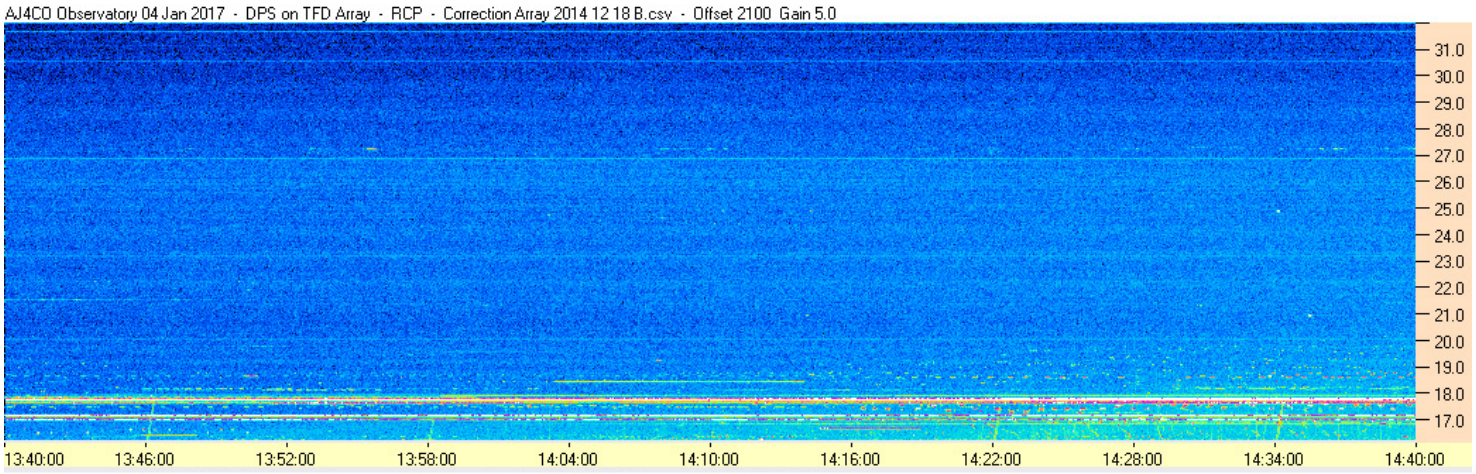
Time (UTC)


AJ4CO Observatory 04 Jan 2017 - DPS on TFD Array - RCP - Correction Array 2014 12 18 B.csv - Offset 2100 Gain 5.0
31.0
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26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
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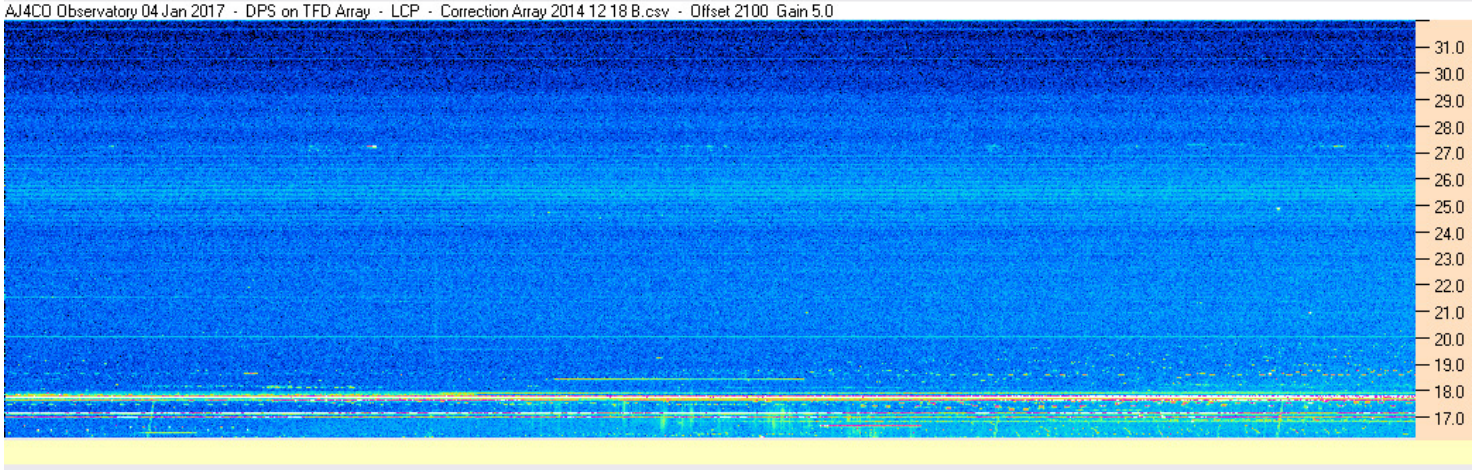
14:22:00
14:28:00
14:34:00
14:40:00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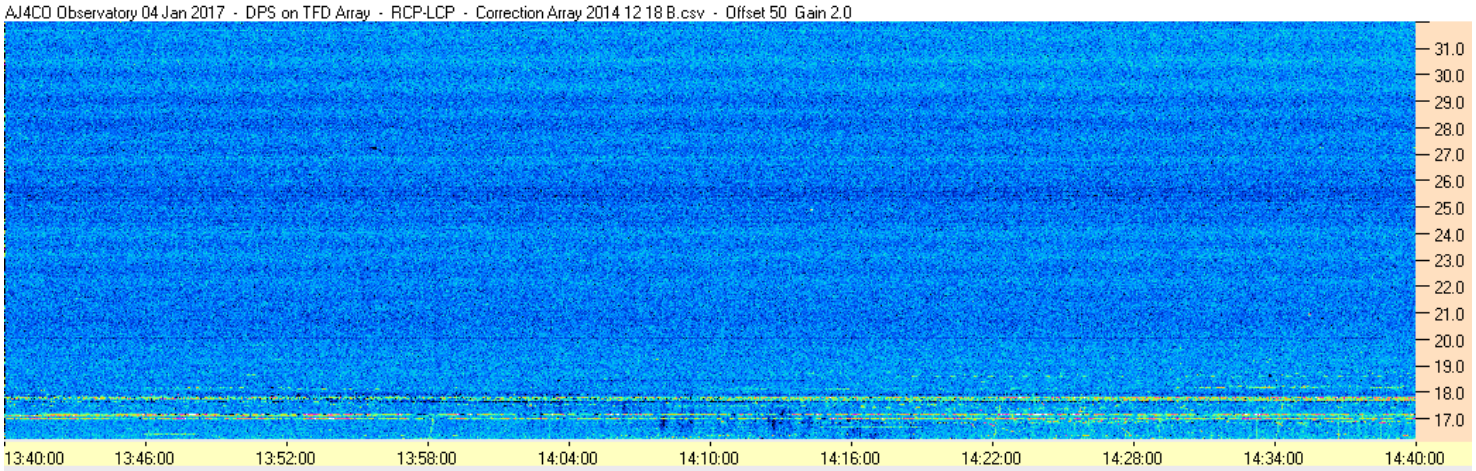
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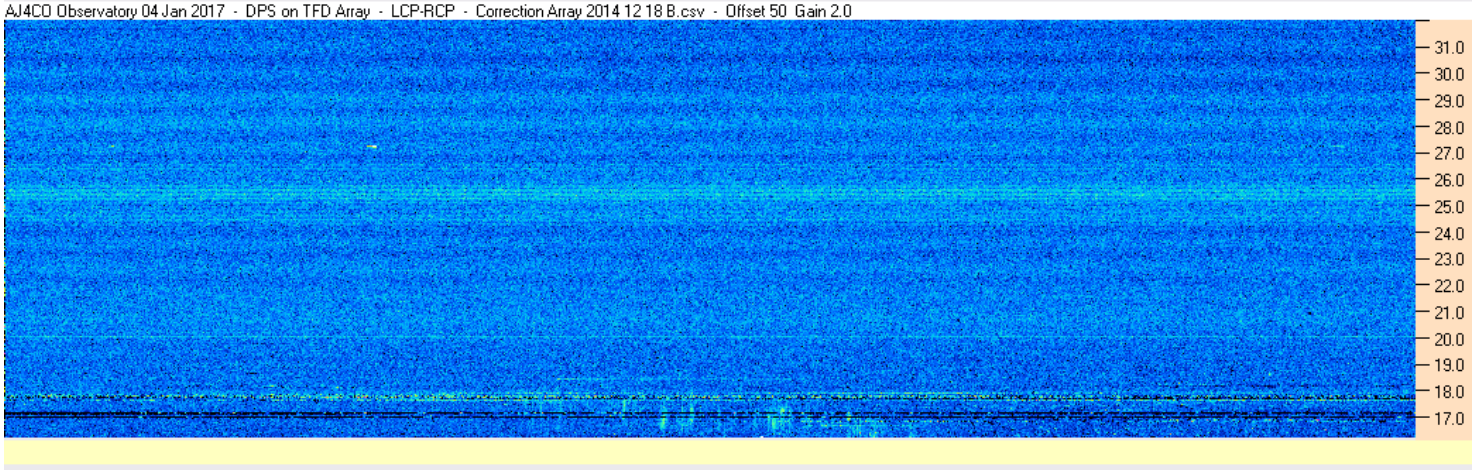
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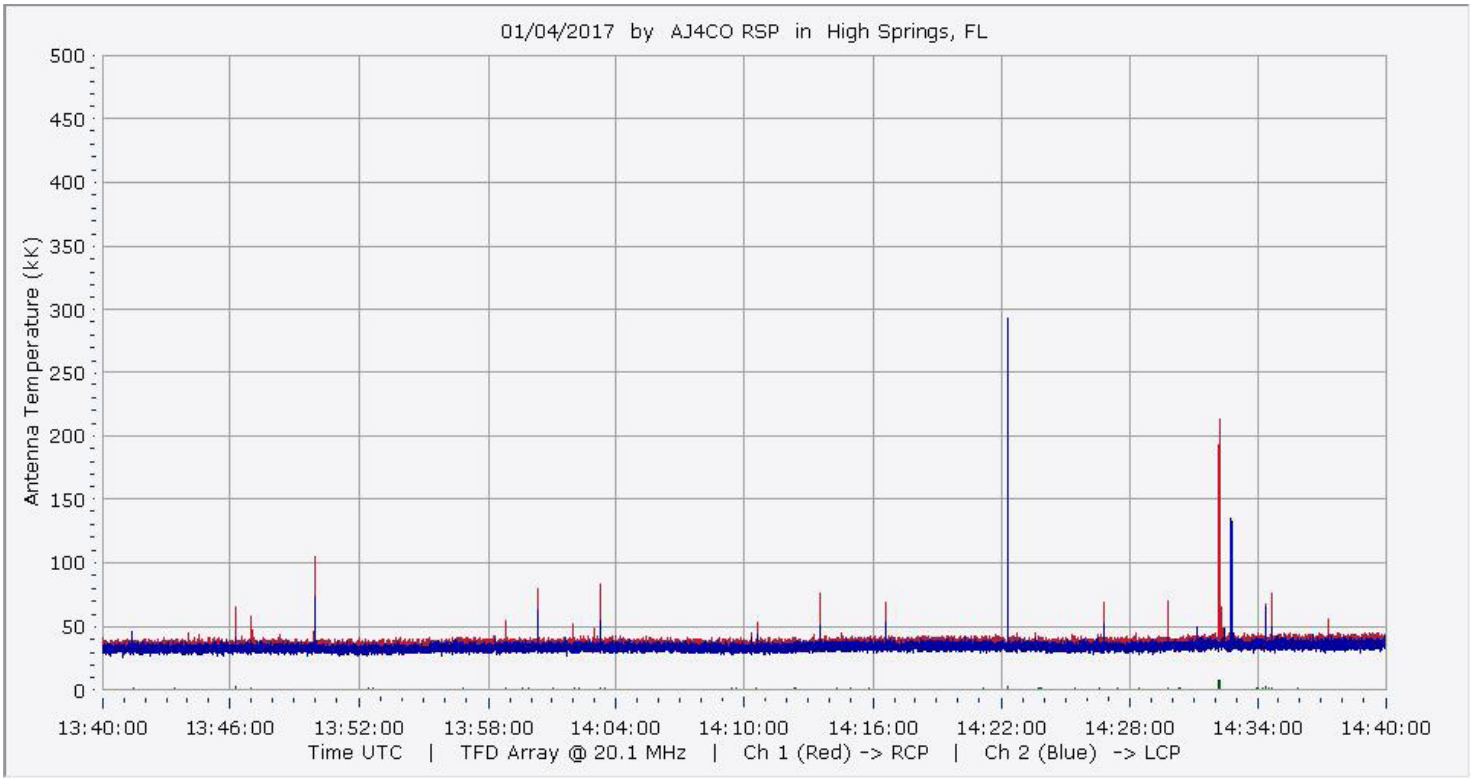
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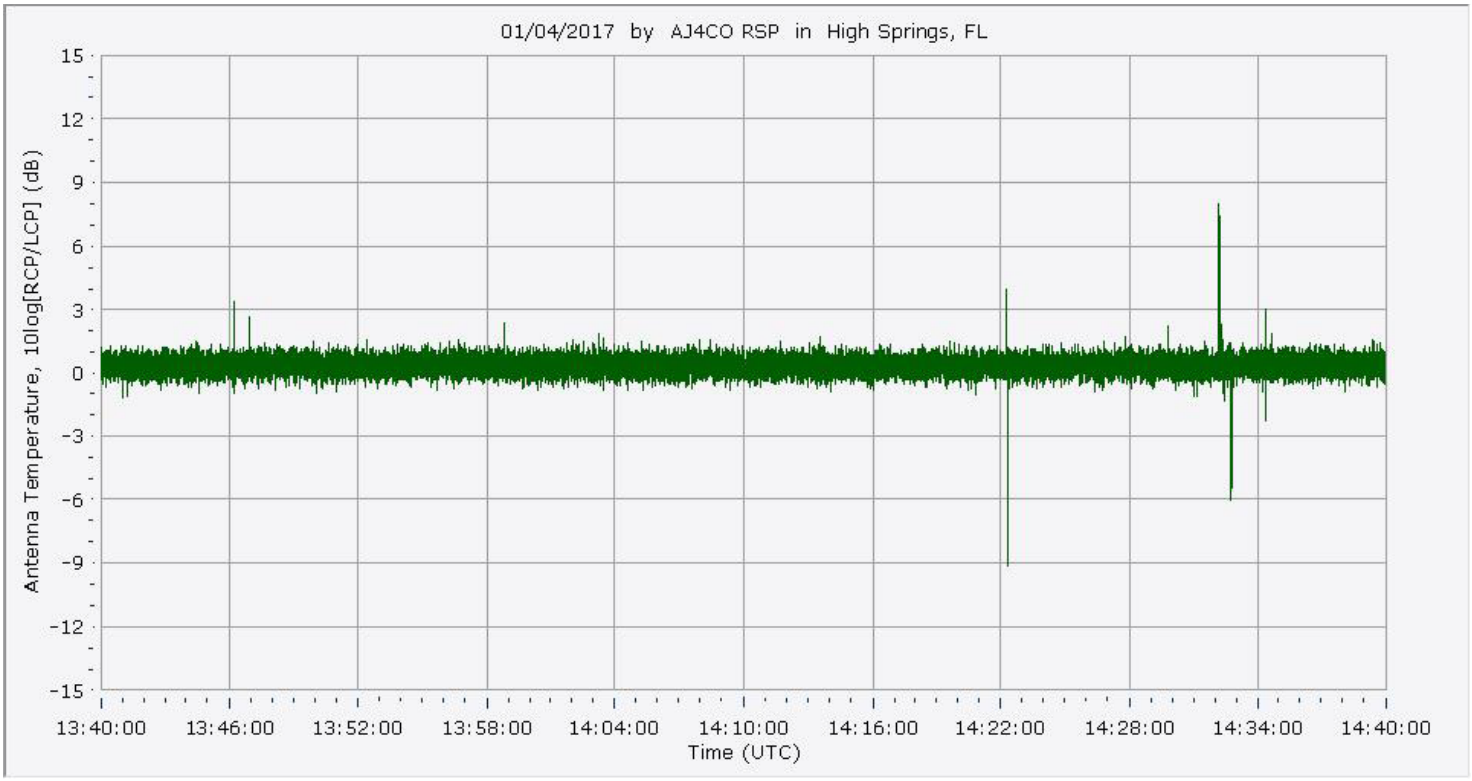
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-12
-15
13:40:00
13:46:00
13:52:00
13:58:00
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Time (UTC)