JOVIAN DAM OBSERVATION REPORT

Log Entry 909–911

13 Mar 2017 nB/A/nC

Some non-Io-B, Io-A, and non-Io-C.

RCP dominant L bursts 0500–0552 UTC from 16 to 18 MHz, positive frequency drift emission envelopes. (non-Io-B)

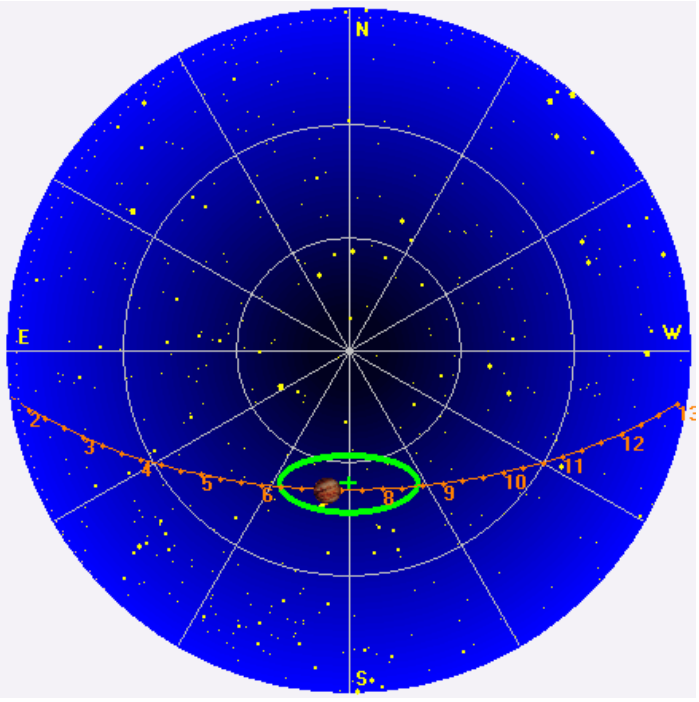
RCP dominant L bursts 0506–0906 UTC from 16 to 28 MHz, vertex late arcs. (Io-A)

LCP dominant L bursts 0841–0905 UTC from 17 to 19 MHz, zero frequency drift emission envelopes. (non-Io-C)

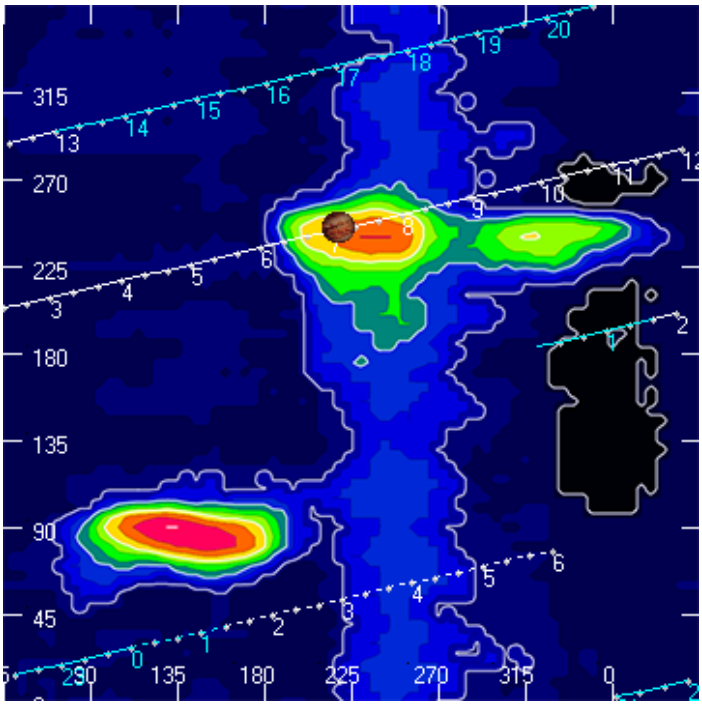
Jupiter was -36° to +25° off axis.

Jupiter was leading the Sun by 152°.

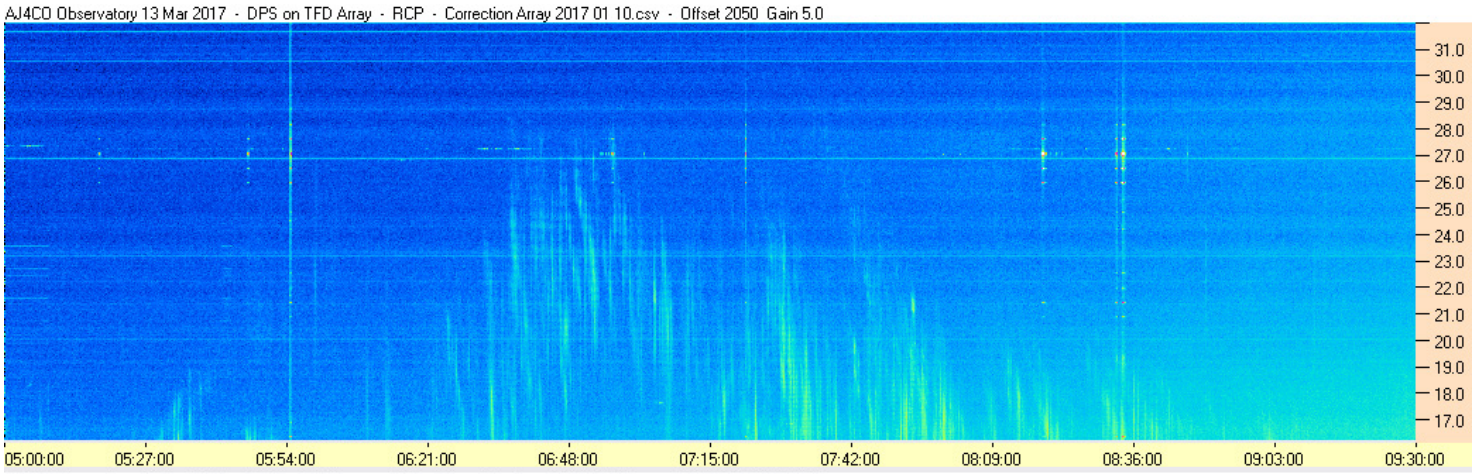
Jupiter's location at midpoint of observed emission (0706 UTC)



Sky map with array HPBW in green.



CML–Io phase plane.


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
31.0
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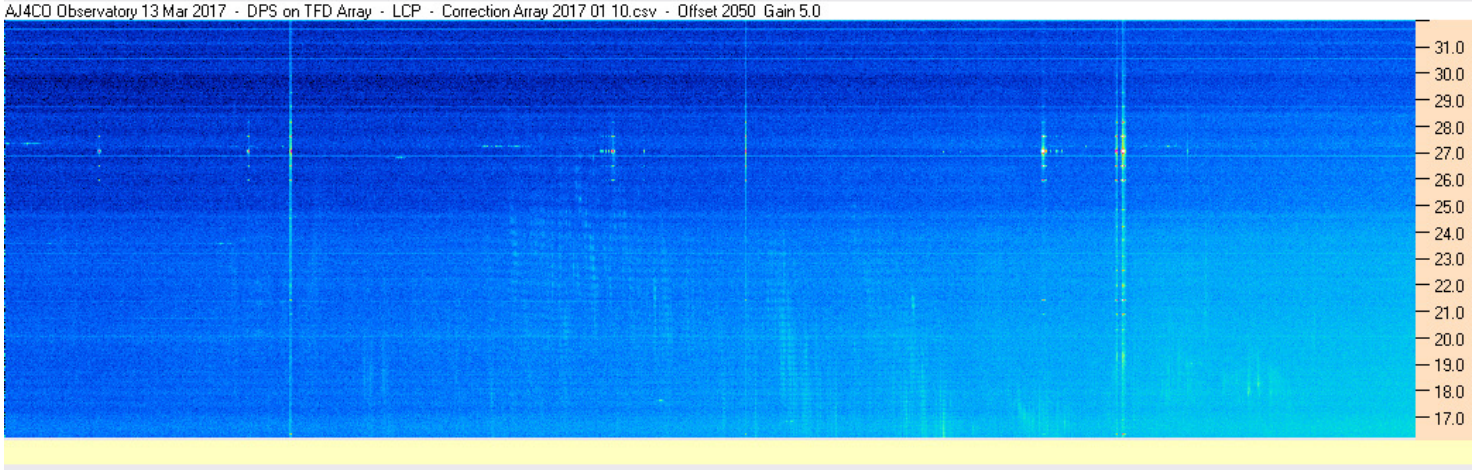
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
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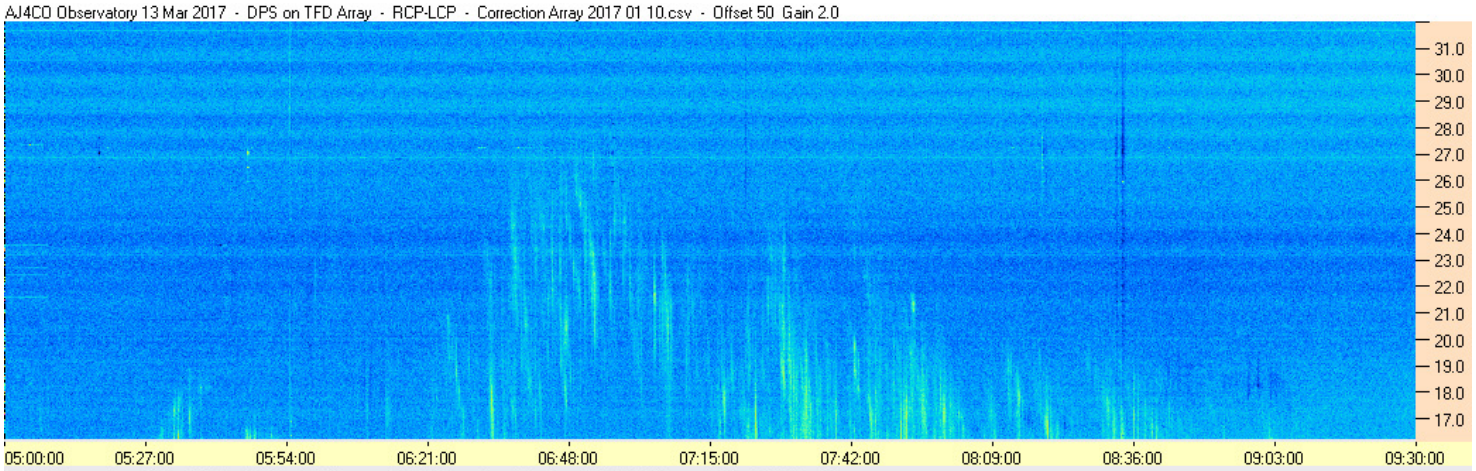
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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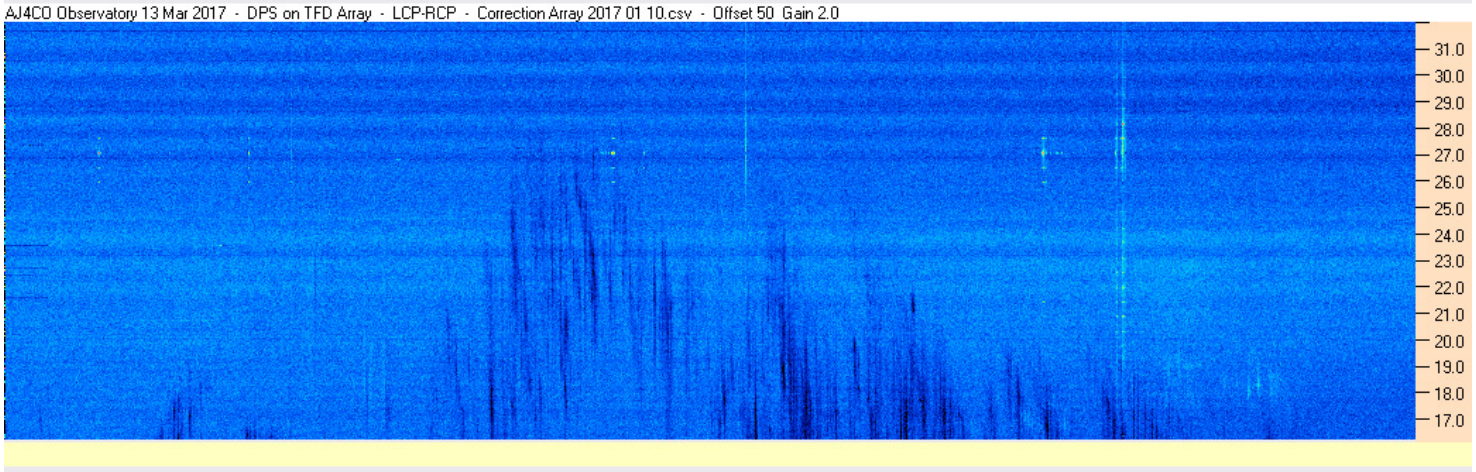
08:36:00
09:03:00
09:30:00


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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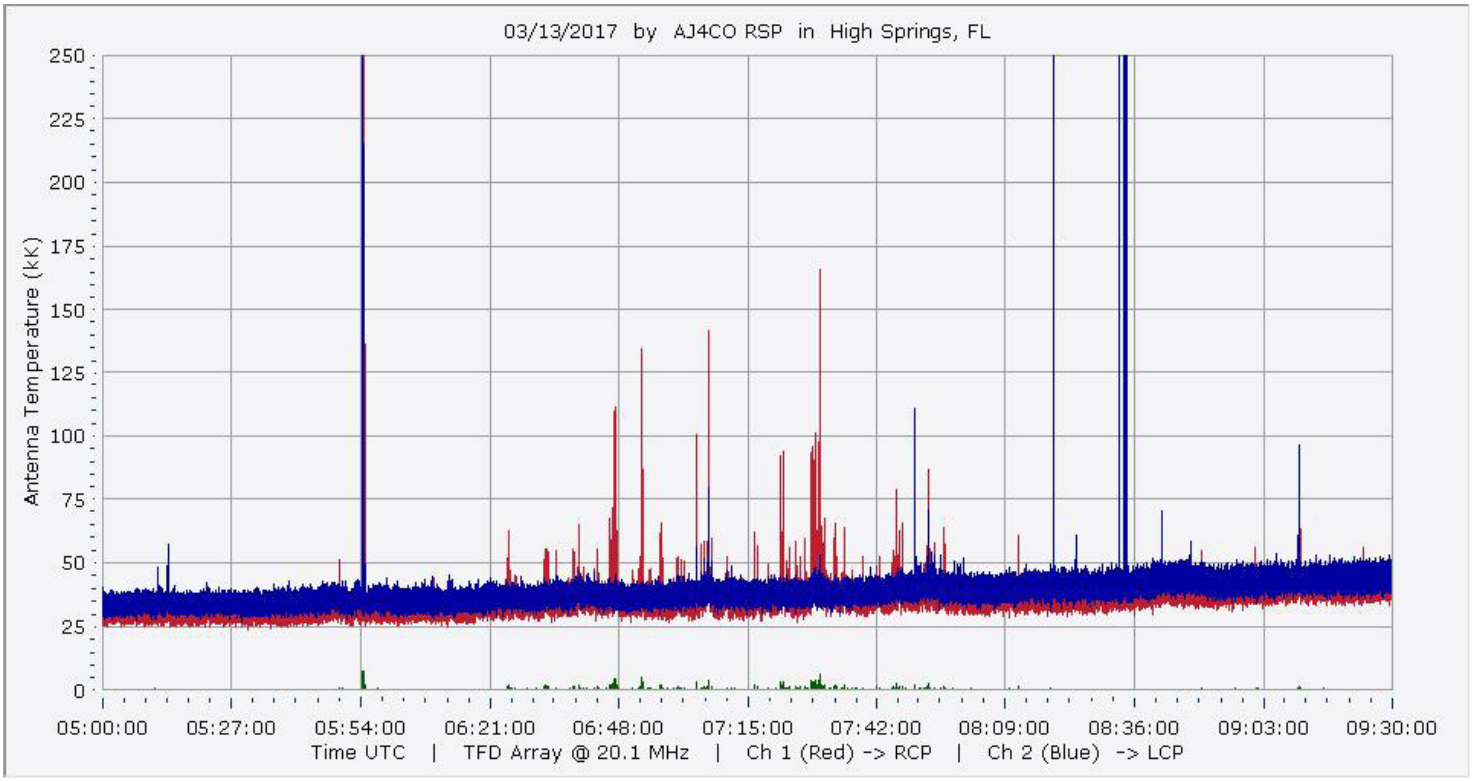
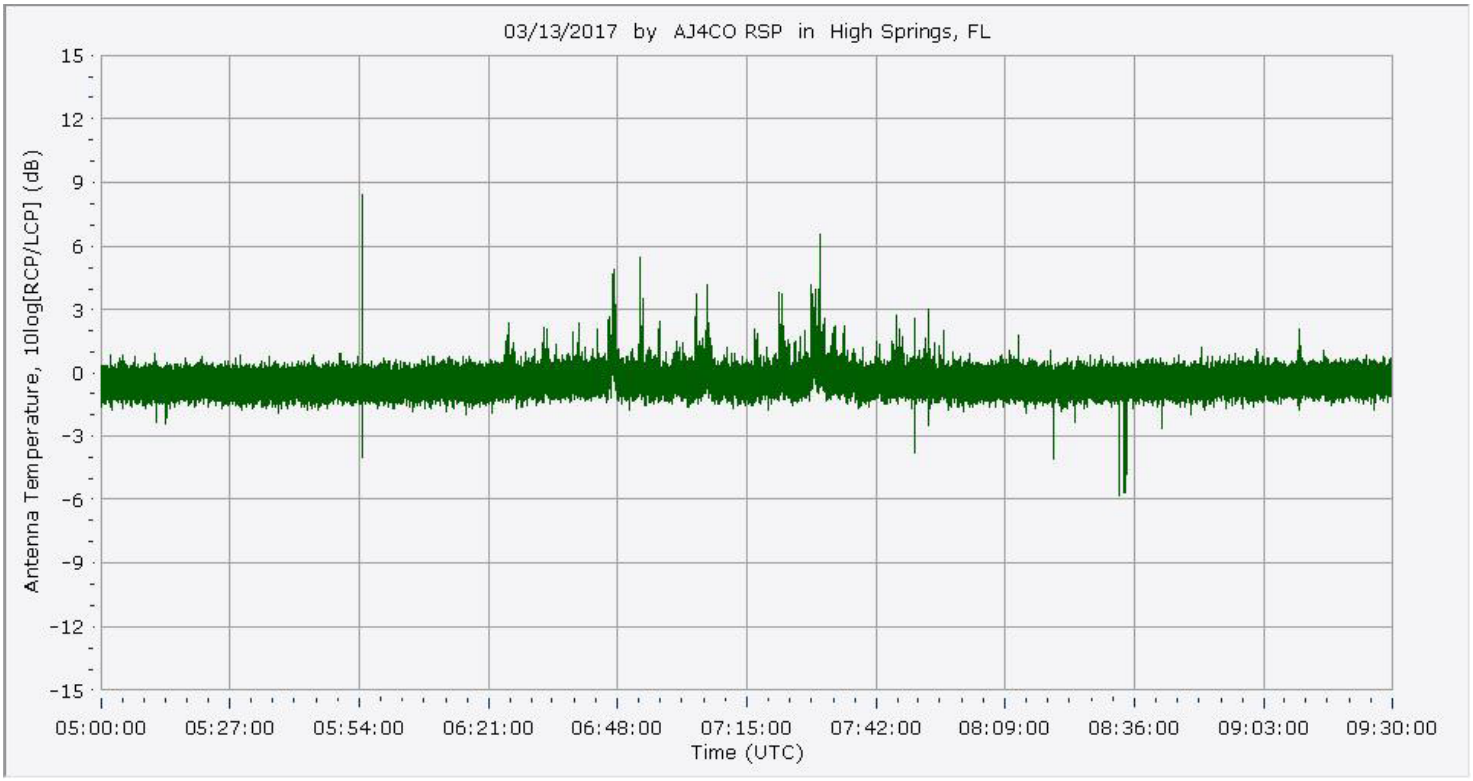

03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
05:00:00
05:27:00
05:54:00
06:21:00
06:48:00
07:15:00
07:42:00
08:09:00
08:36:00
09:03:00
09:30:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
05:00:00
05:27:00
05:54:00
06:21:00
06:48:00
07:15:00
07:42:00
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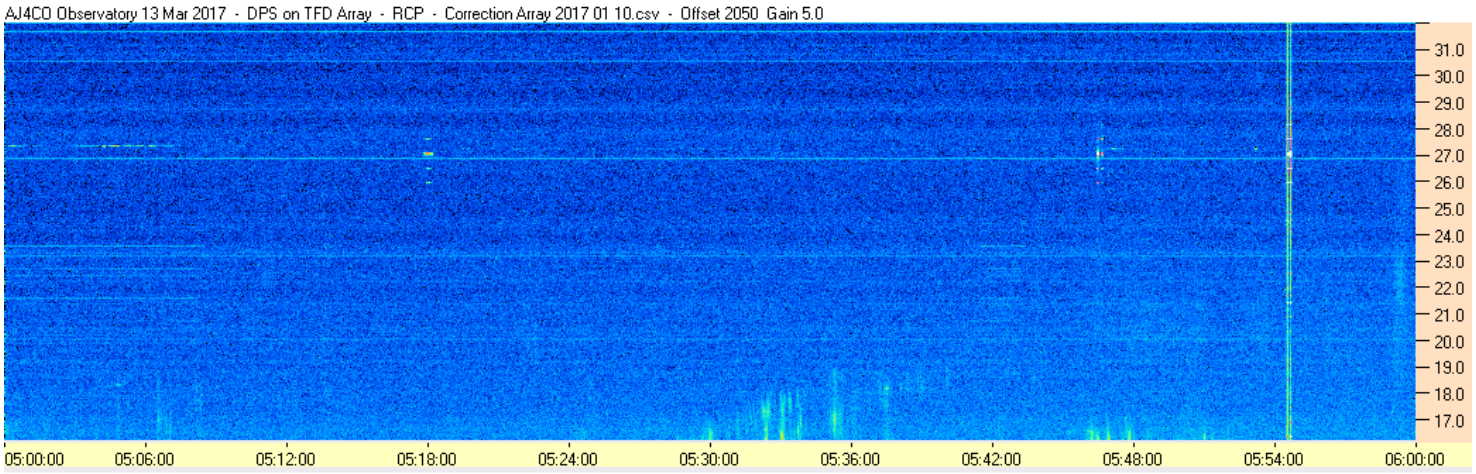
08:36:00
09:03:00
09:30:00
Time (UTC)


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
31.0
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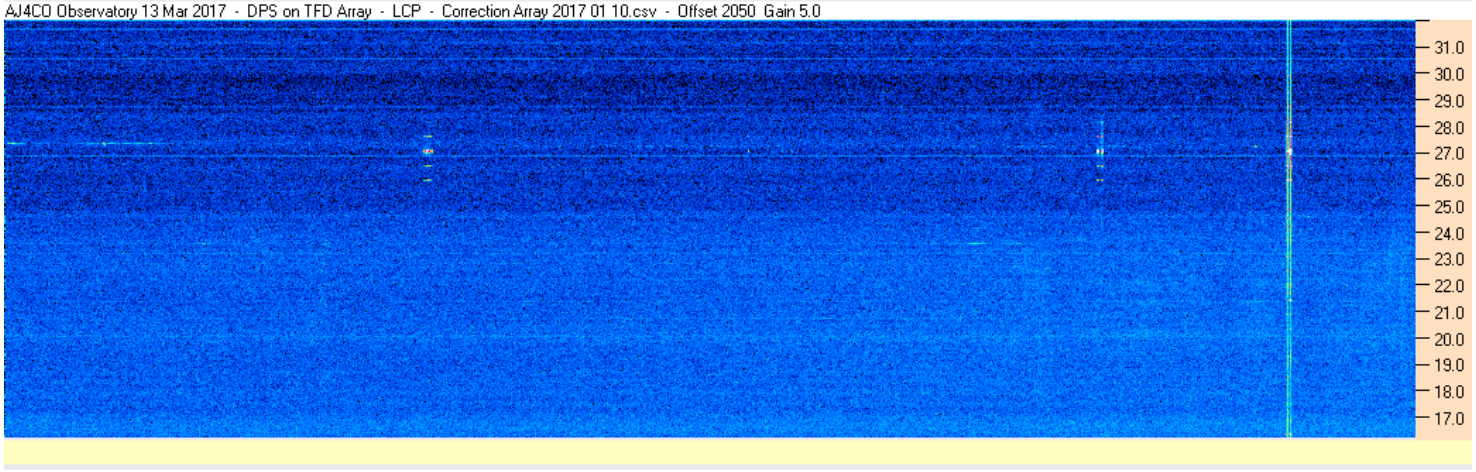
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
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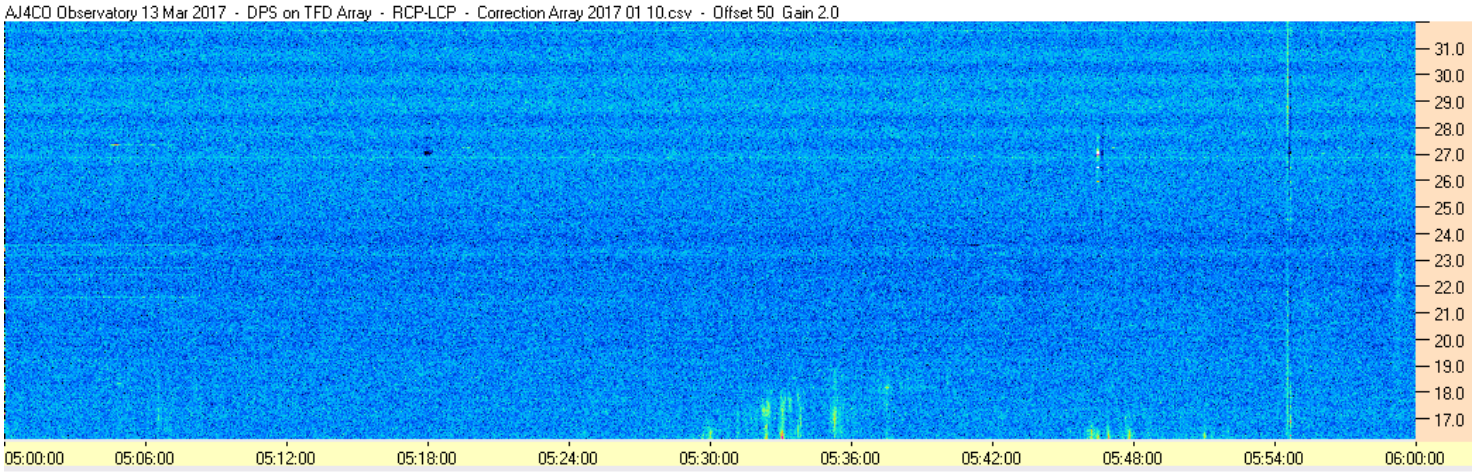
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
31.0
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26.0
25.0
24.0
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05:00:00
05:06:00
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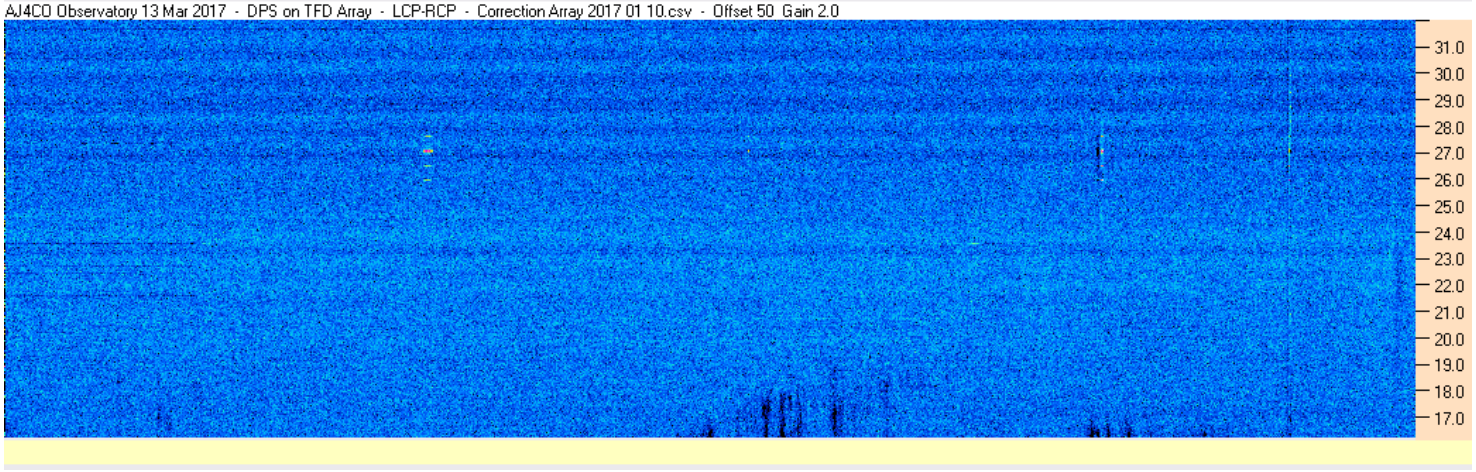
05:54:00
06:00:00


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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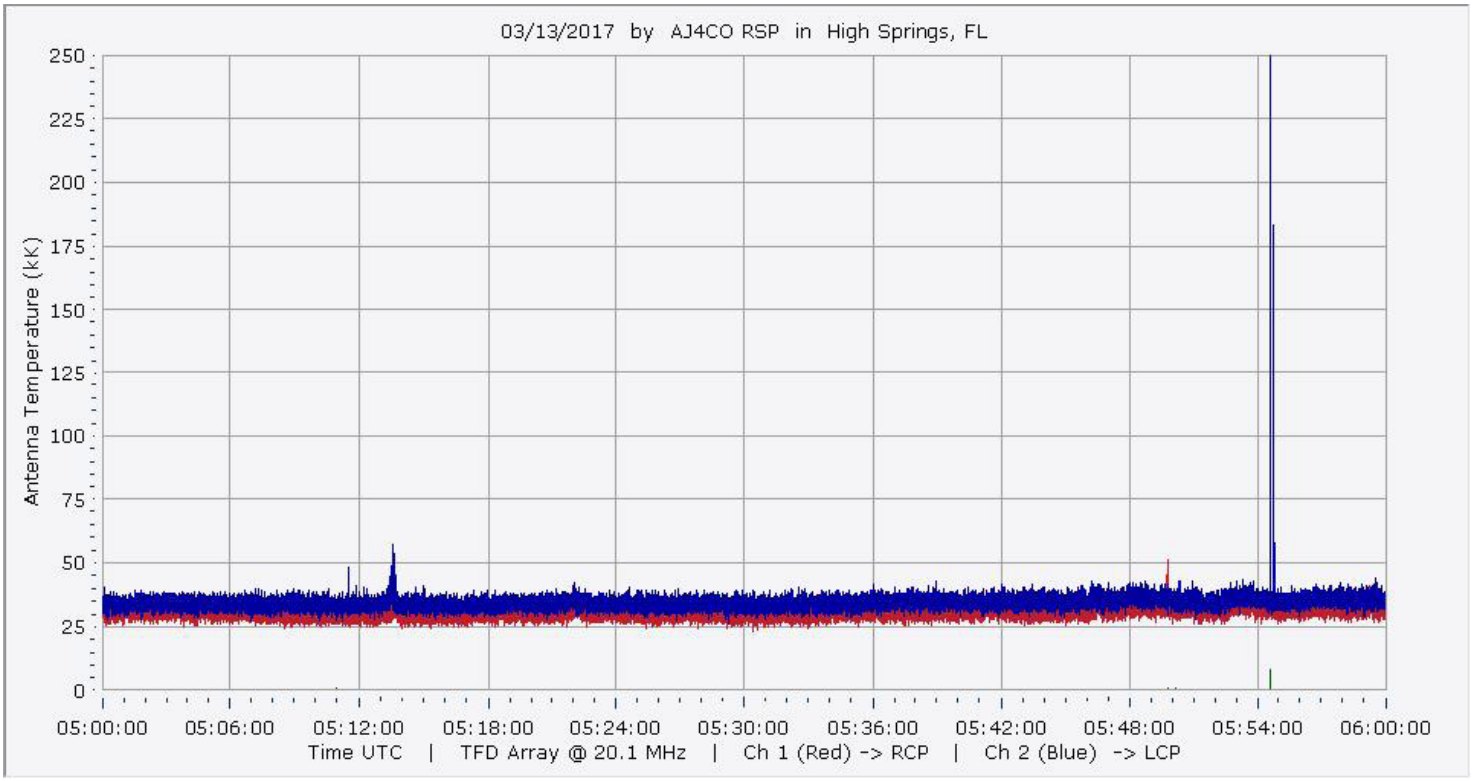
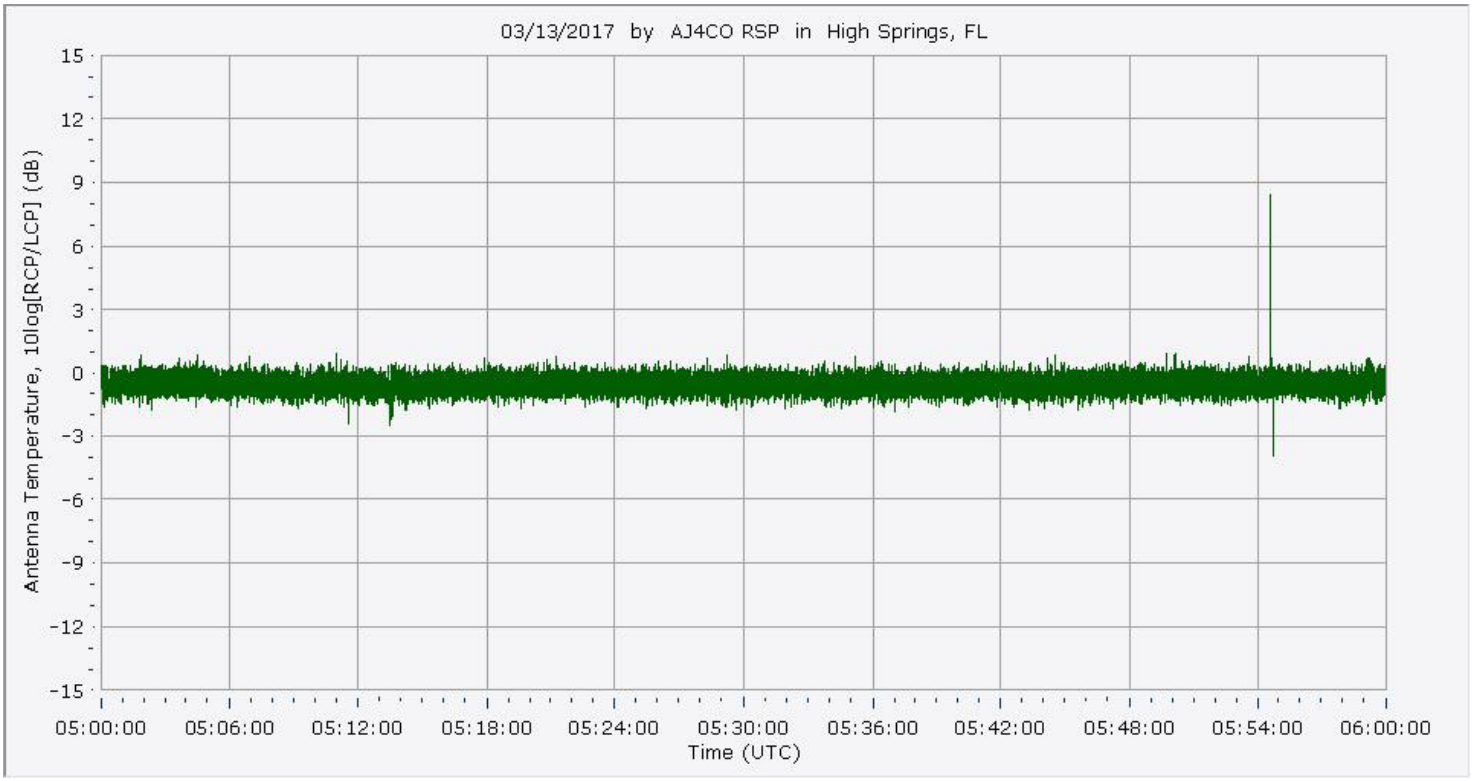

03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
05:00:00
05:06:00
05:12:00
05:18:00
05:24:00
05:30:00
05:36:00
05:42:00
05:48:00
05:54:00
06:00:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
05:00:00
05:06:00
05:12:00
05:18:00
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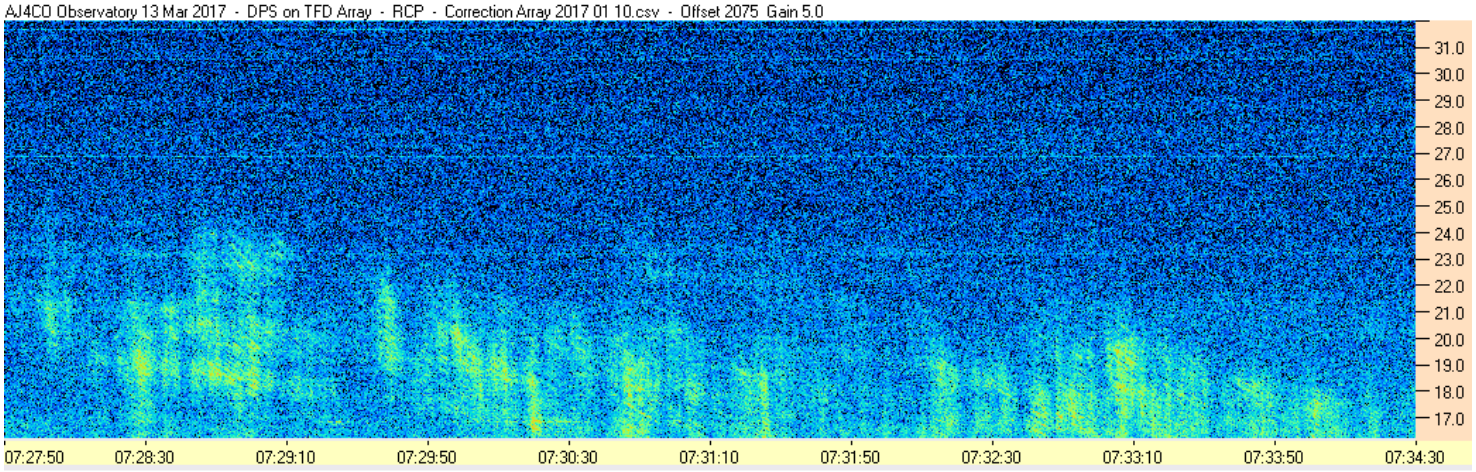
05:54:00
06:00:00
Time (UTC)


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2075 Gain 5.0
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25.0
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23.0
22.0
21.0
20.0
19.0
18.0
17.0
07:27:50
07:28:30
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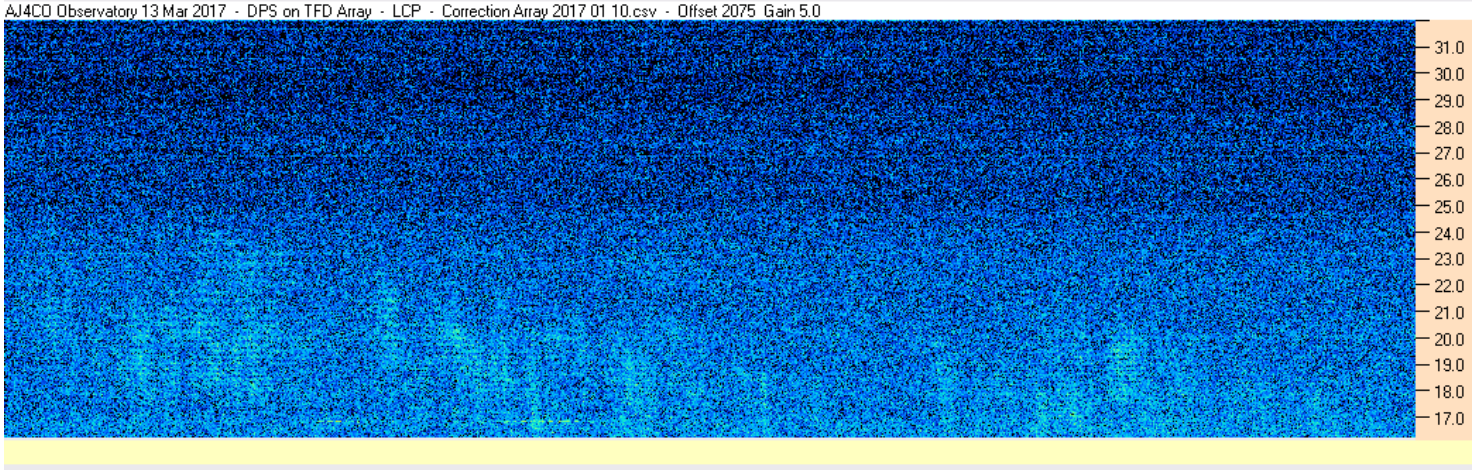
07:32:30
07:33:10
07:33:50
07:34:30


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2075 Gain 5.0
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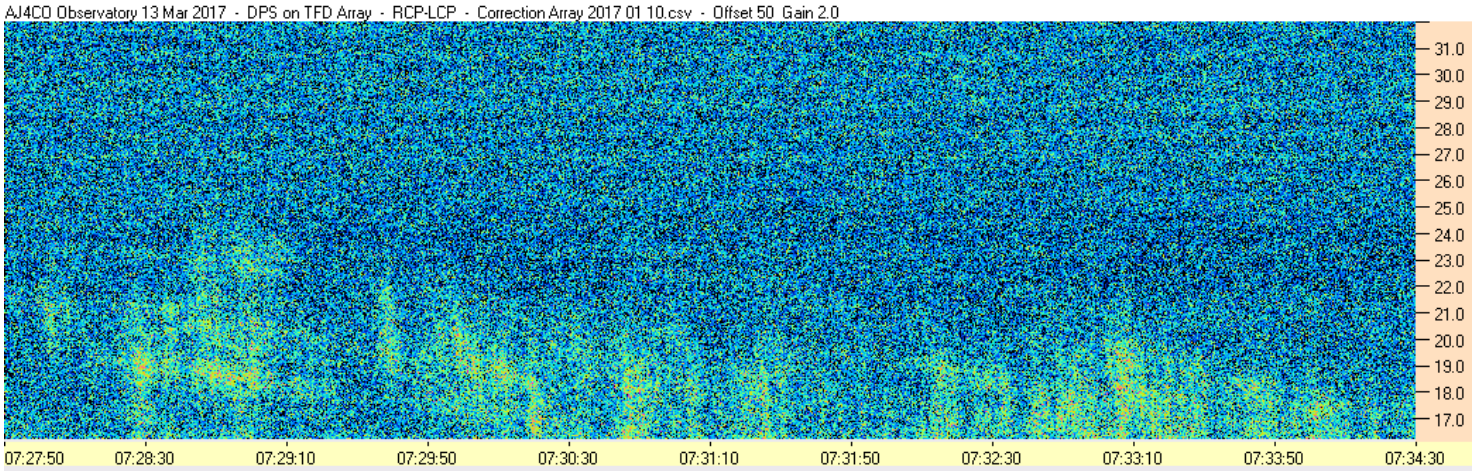
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
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07:27:50
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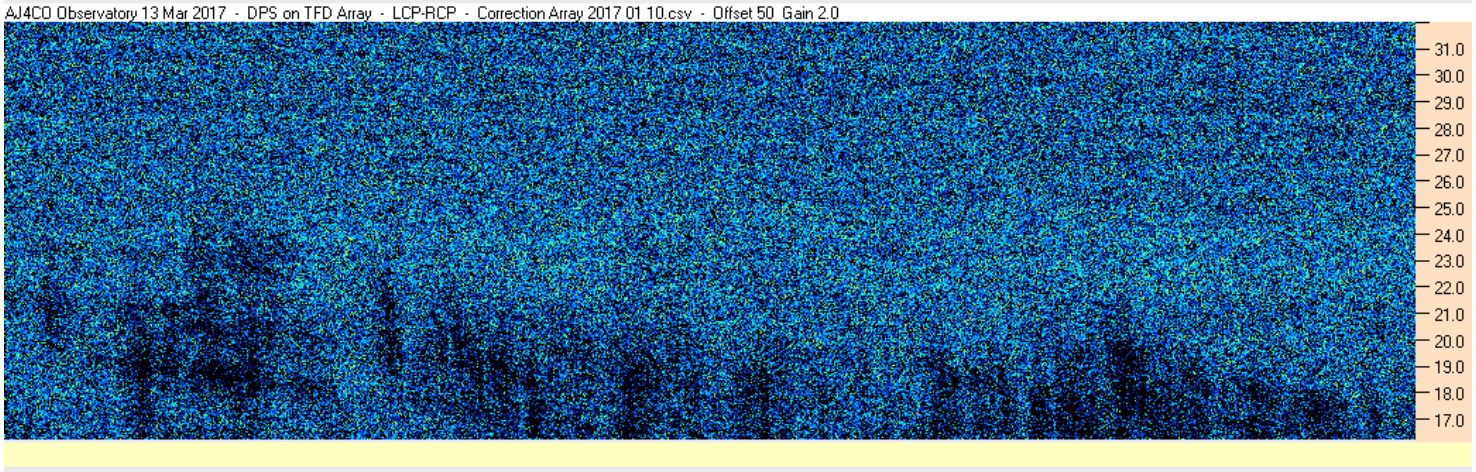
07:33:10
07:33:50
07:34:30


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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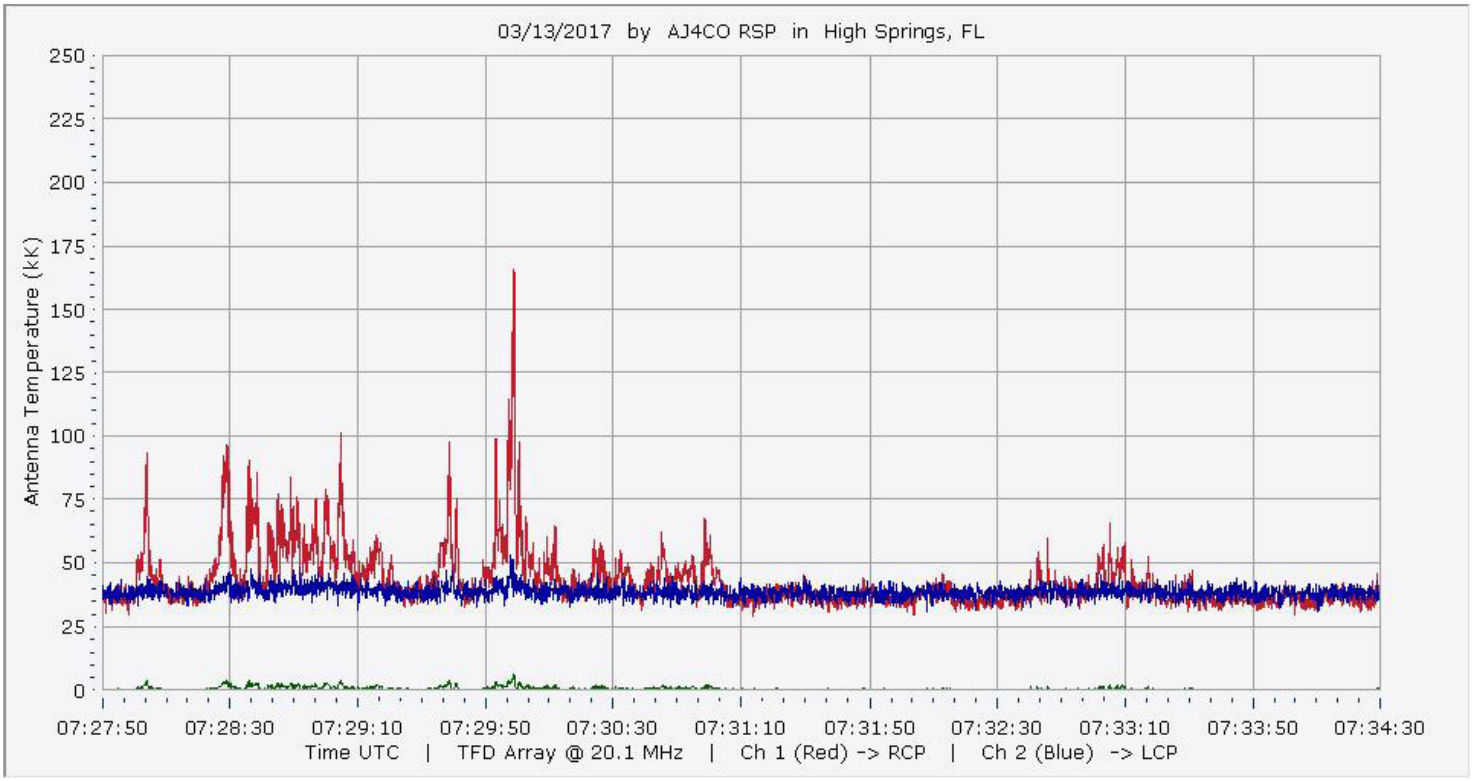
03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
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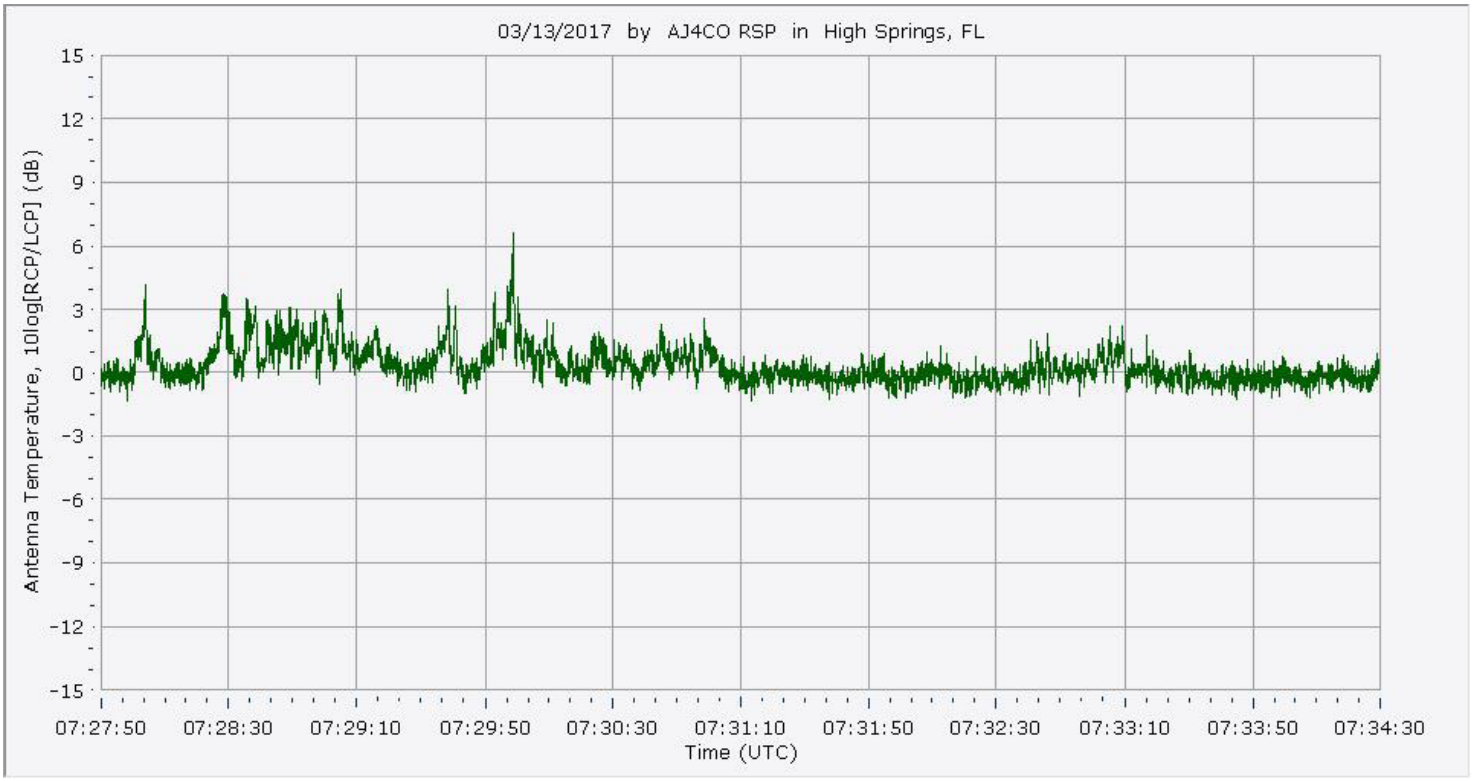
25
0
07:27:50
07:28:30
07:29:10
07:29:50
07:30:30
07:31:10
07:31:50
07:32:30
07:33:10
07:33:50
07:34:30
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
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-15
07:27:50
07:28:30
07:29:10
07:29:50
07:30:30
07:31:10
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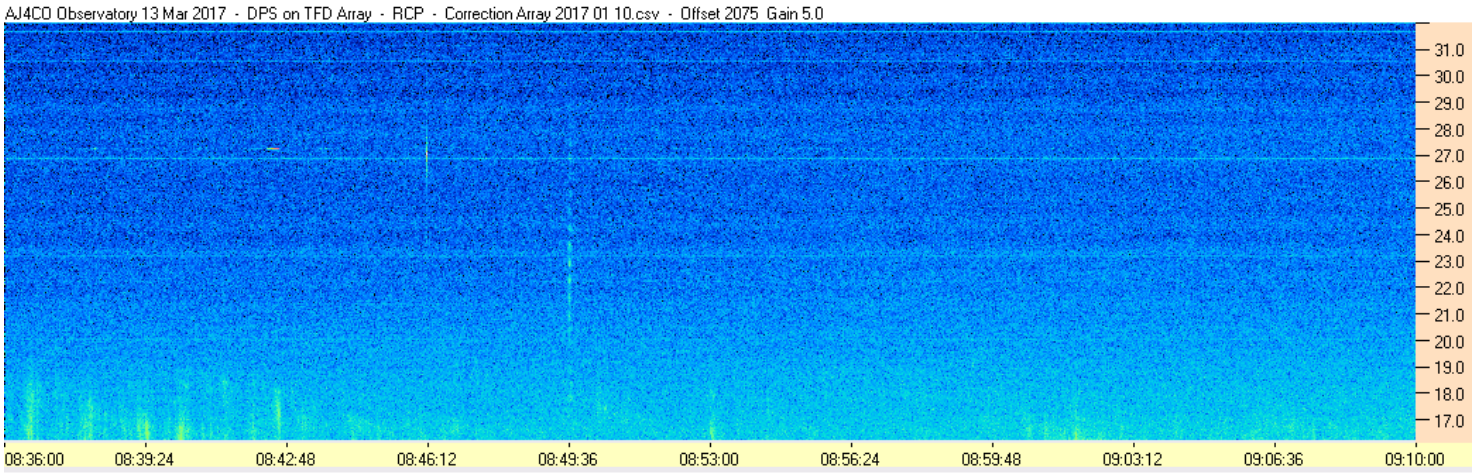
07:33:10
07:33:50
07:34:30
Time (UTC)


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2075 Gain 5.0
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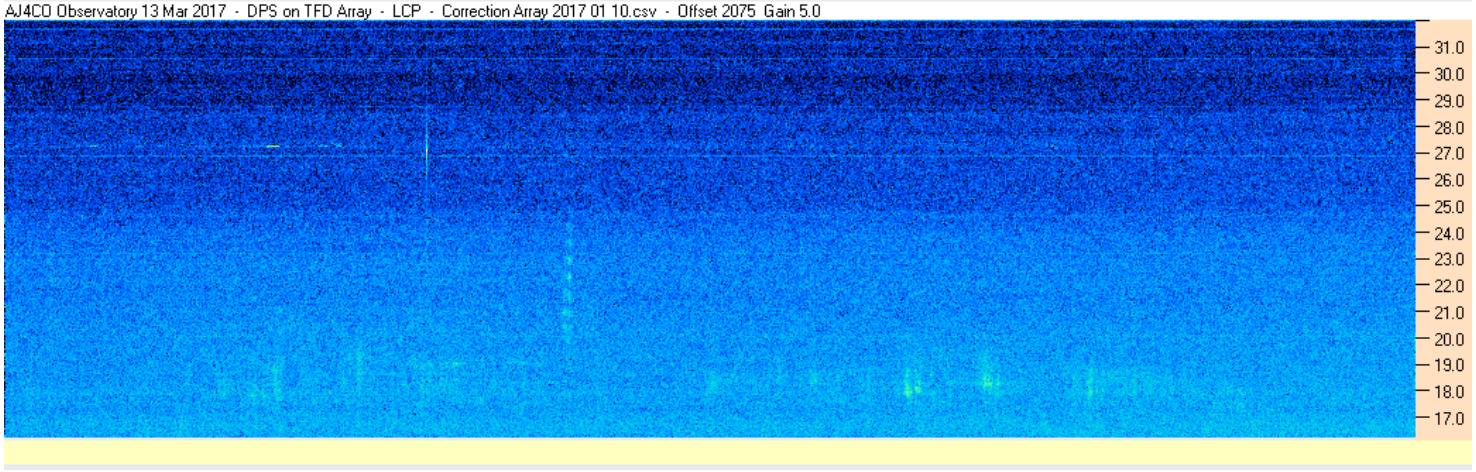
09:06:36
09:10:00


AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2075 Gain 5.0
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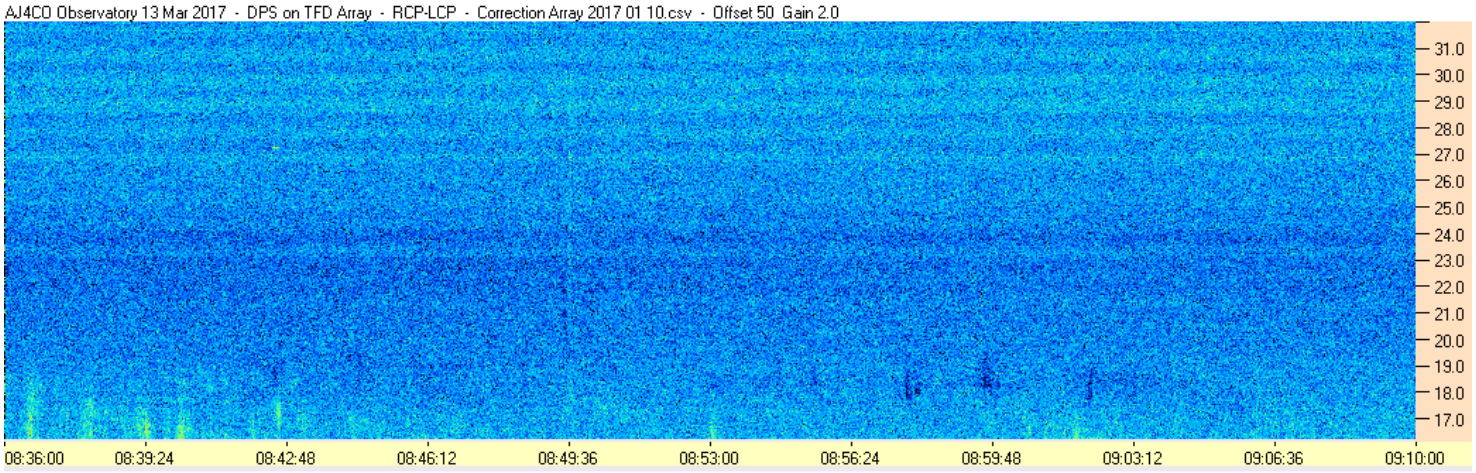
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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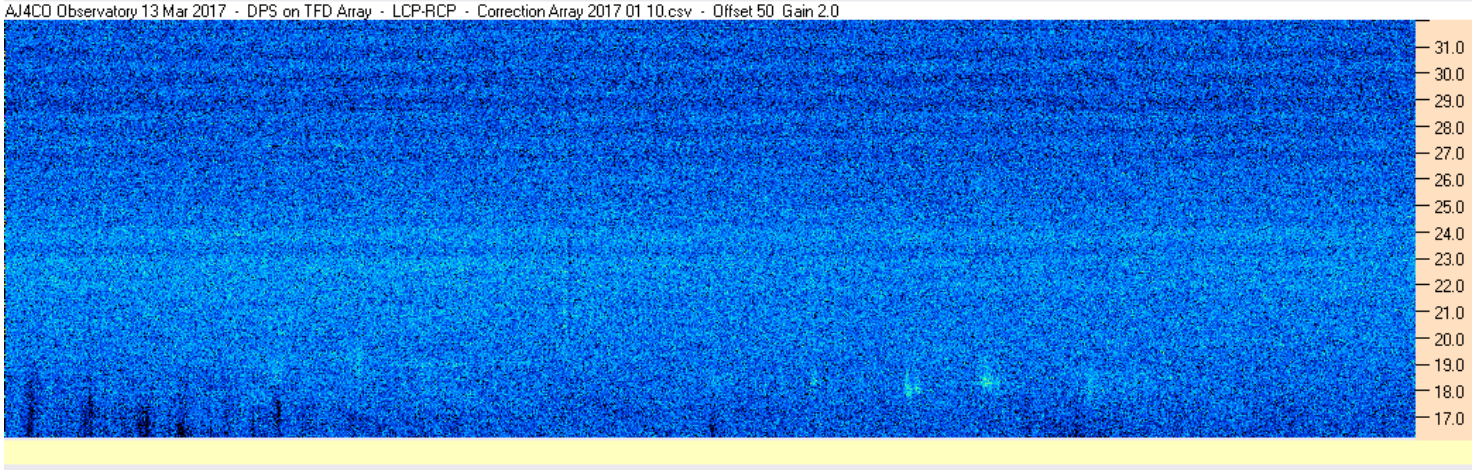
AJ4CO Observatory 13 Mar 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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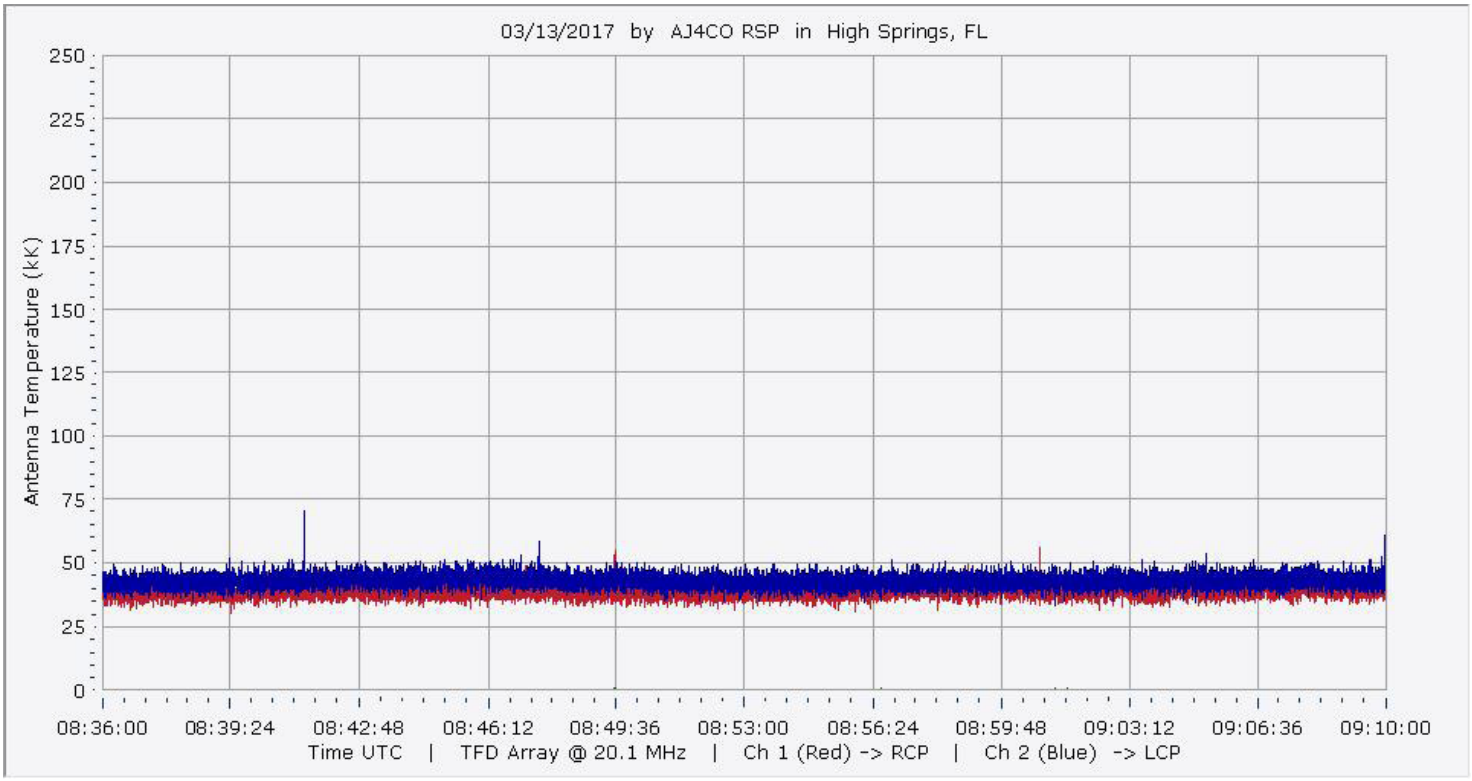
03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
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25
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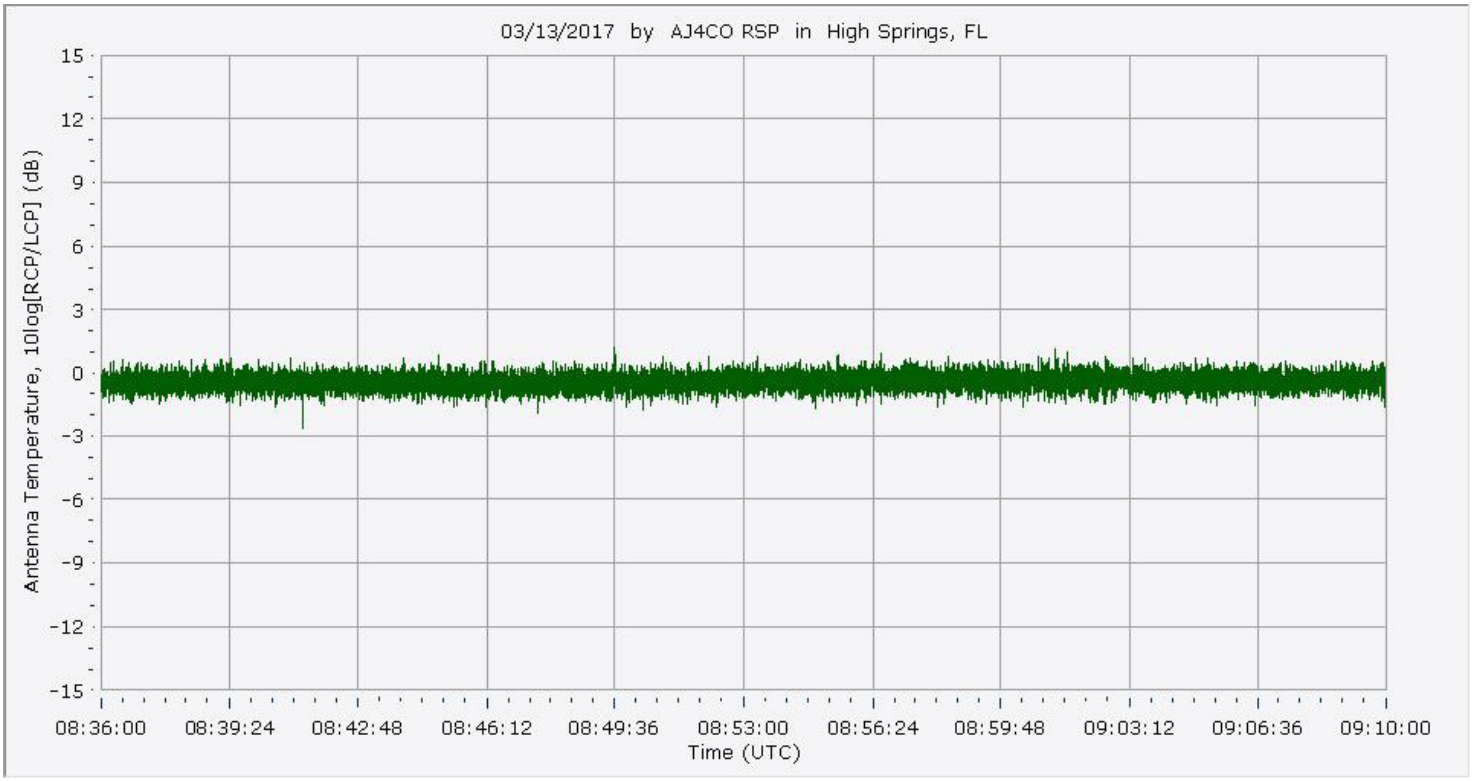
08:36:00
08:39:24
08:42:48
08:46:12
08:49:36
08:53:00
08:56:24
08:59:48
09:03:12
09:06:36
09:10:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


03/13/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
08:36:00
08:39:24
08:42:48
08:46:12
08:49:36
08:53:00
08:56:24
08:59:48
09:03:12
09:06:36
09:10:00
Time (UTC)