JOVIAN DAM OBSERVATION REPORT

Log Entry 867–869

11 Feb 2017 C/nB

Some Io-C followed by non-Io-B.

Surprising that Io-C came in as well as it did due to Jupiter's high eastern hour angle and low elevation.

LCP dominant narrow band S burst trains 0523–0629 UTC from 16 to 23 MHz, negative frequency drift emission envelopes. (Io-C)

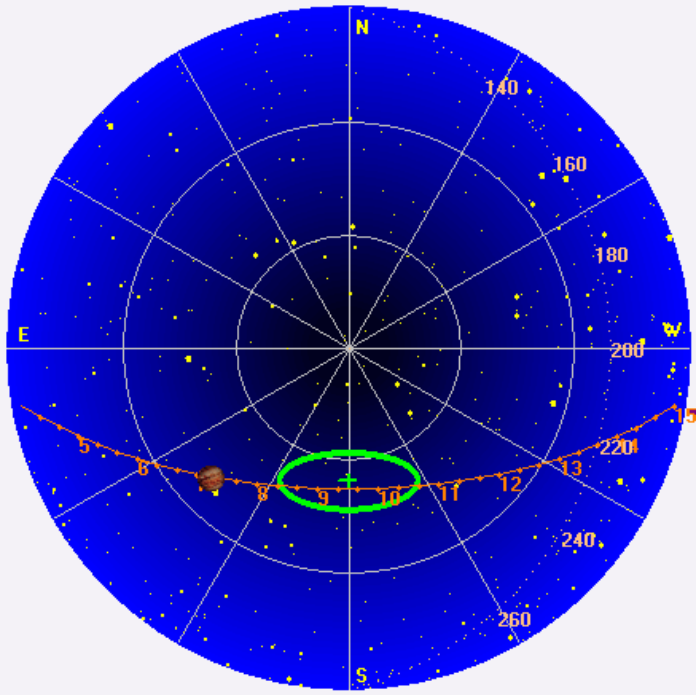
LCP dominant L bursts 0532–0656 UTC from 16 to 20 MHz, negative frequency drift emission envelopes. (Io-C)

RCP dominant L bursts 0812–0913 UTC from 16 to 24 MHz, positive frequency drift emission envelopes. (non-Io-B)

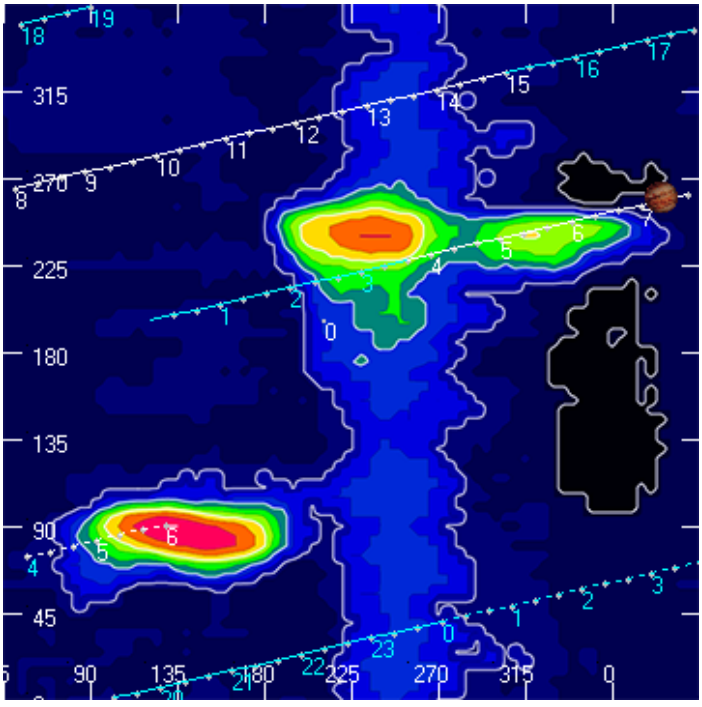
Jupiter was -62°(!) to -5° off axis.

Jupiter was leading the Sun by 120°.

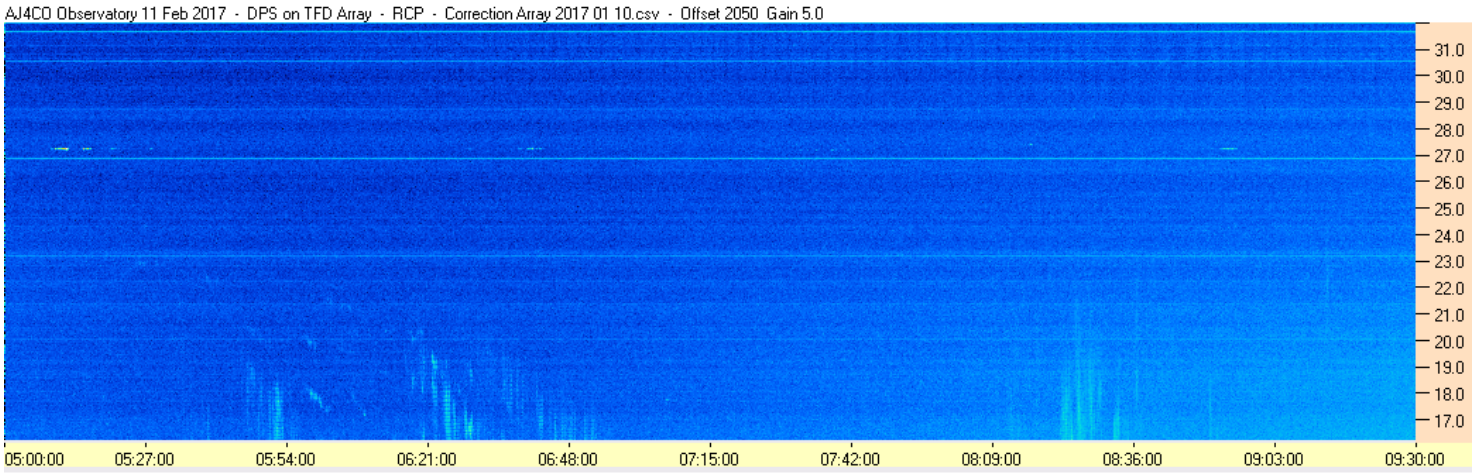
Jupiter's location at midpoint of observed emission (0718 UTC)



Sky map with array HPBW in green.



CML–Io phase plane.


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
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26.0
25.0
24.0
23.0
22.0
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05:00:00
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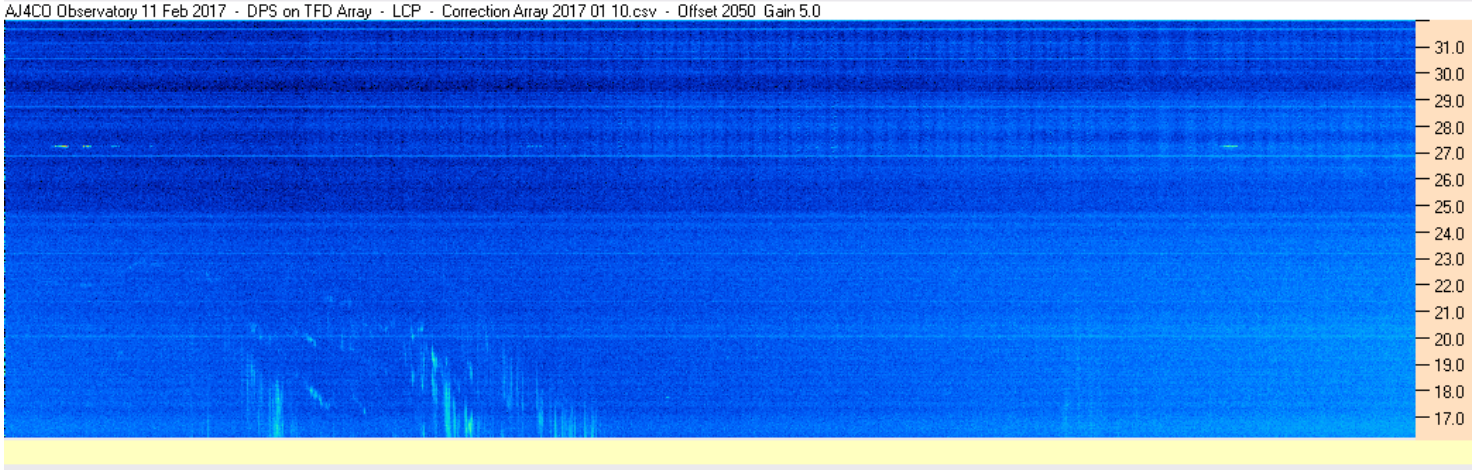
09:30:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
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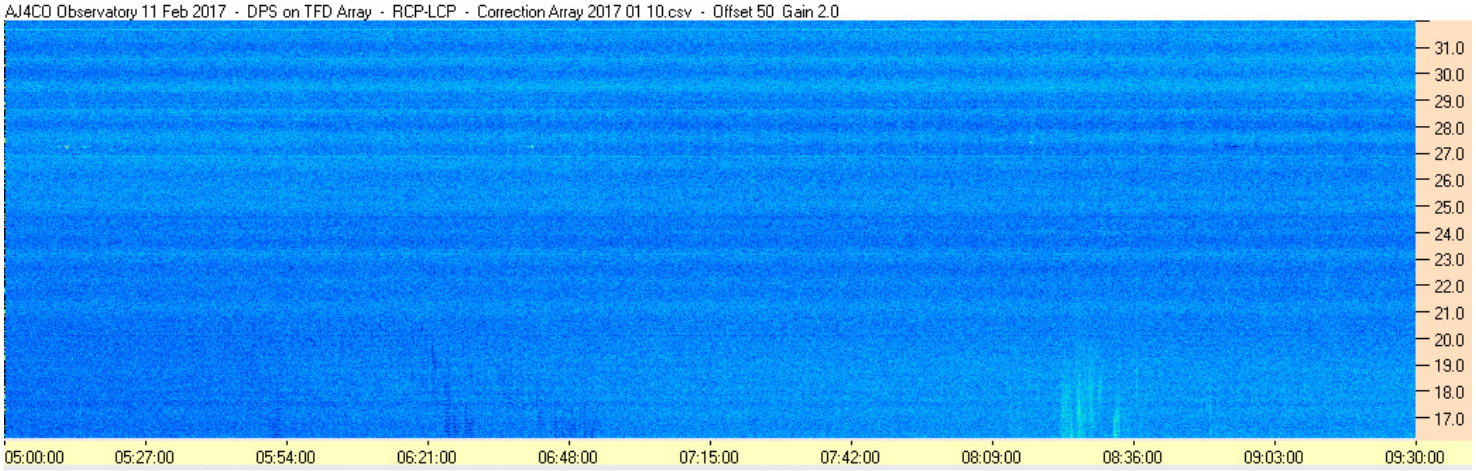
AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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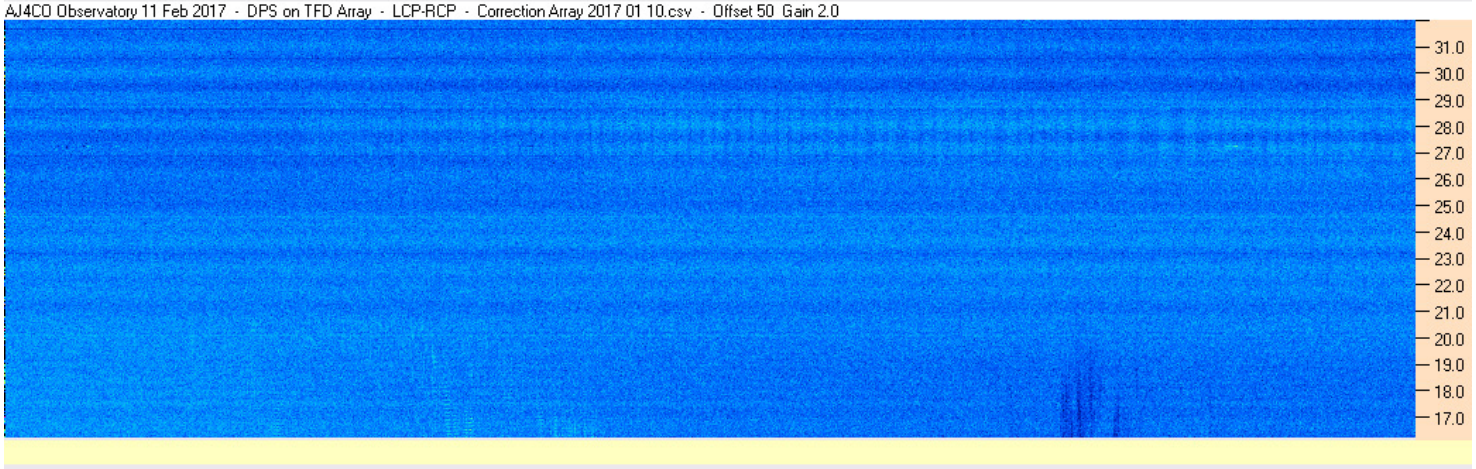
08:36:00
09:03:00
09:30:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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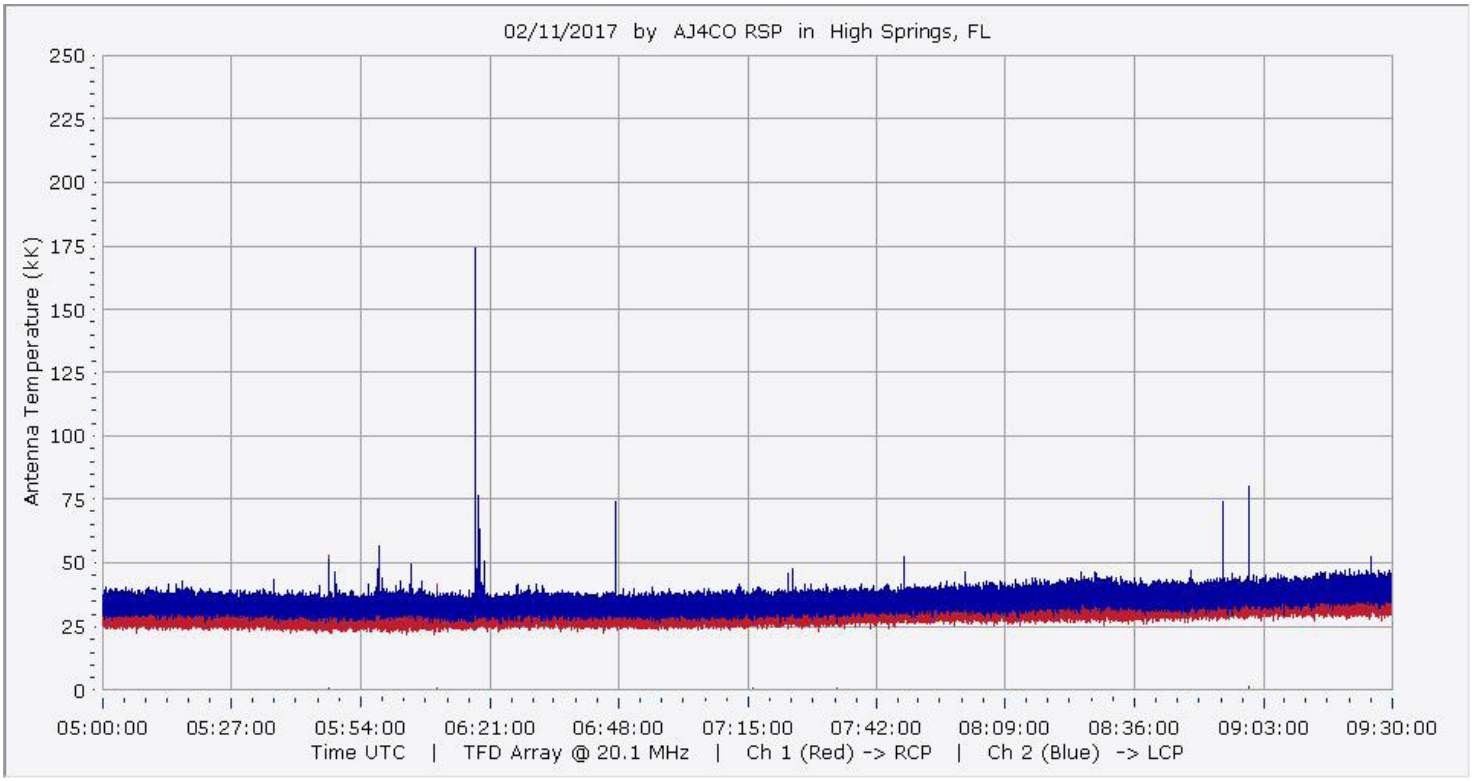
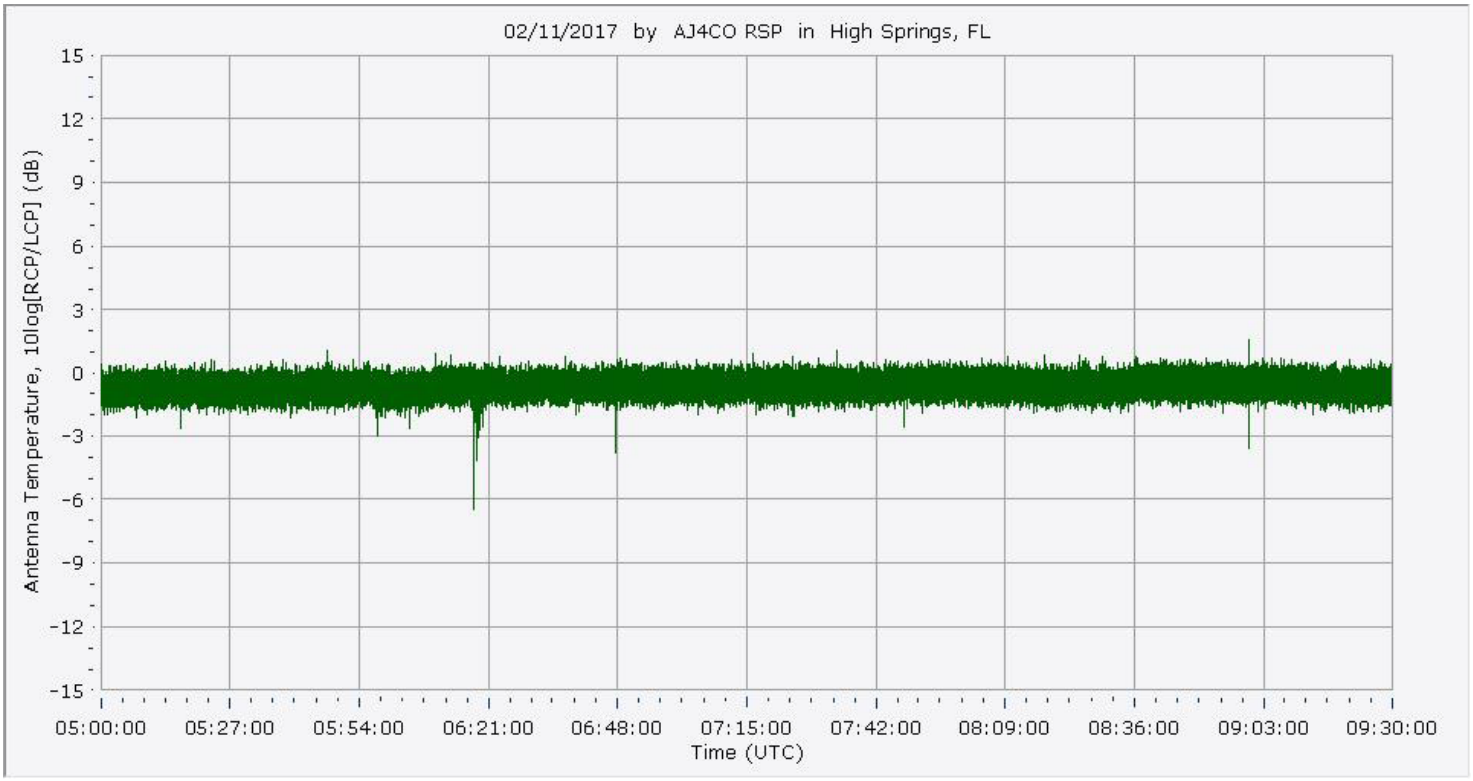

02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
05:00:00
05:27:00
05:54:00
06:21:00
06:48:00
07:15:00
07:42:00
08:09:00
08:36:00
09:03:00
09:30:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


02/11/2017 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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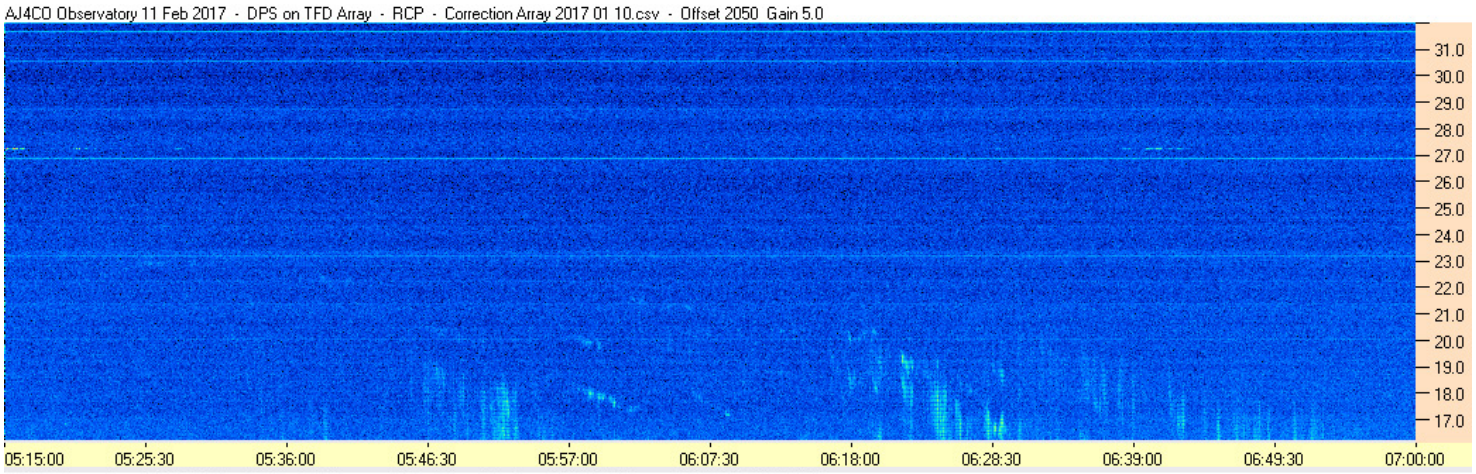
08:36:00
09:03:00
09:30:00
Time (UTC)


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
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25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
05:15:00
05:25:30
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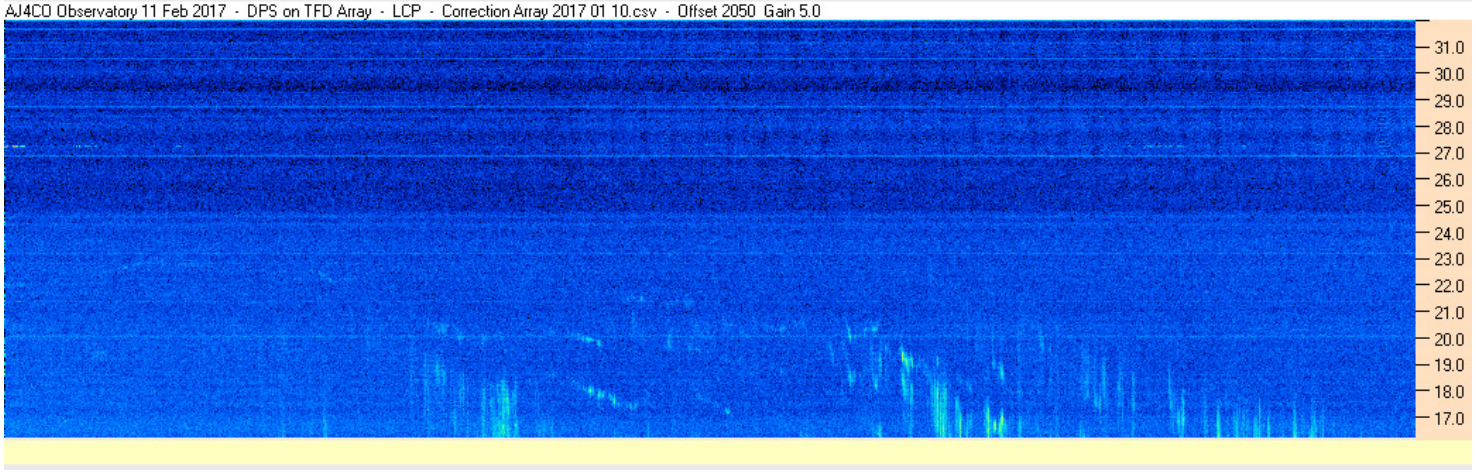
06:28:30
06:39:00
06:49:30
07:00:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
31.0
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28.0
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22.0
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20.0
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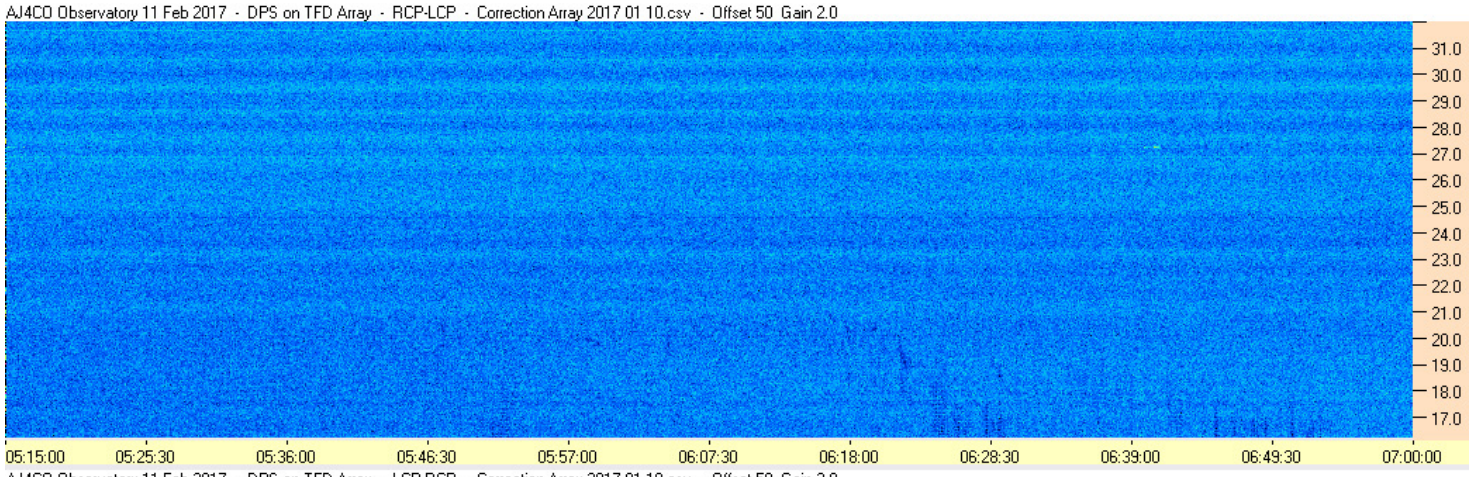
17.0


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
31.0
30.0
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26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
05:15:00
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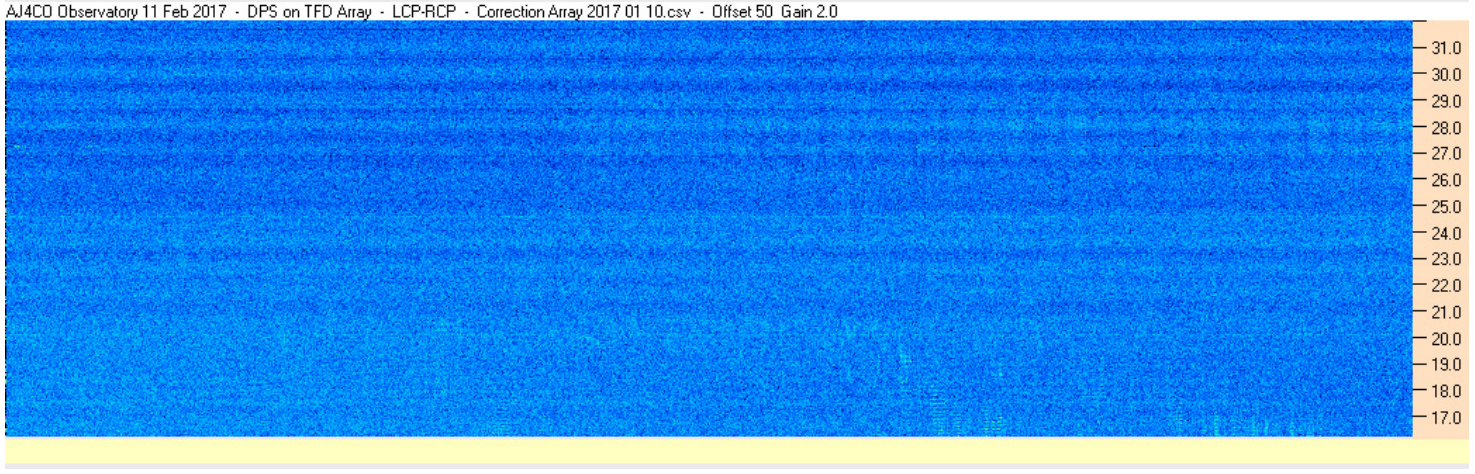
07:00:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
31.0
30.0
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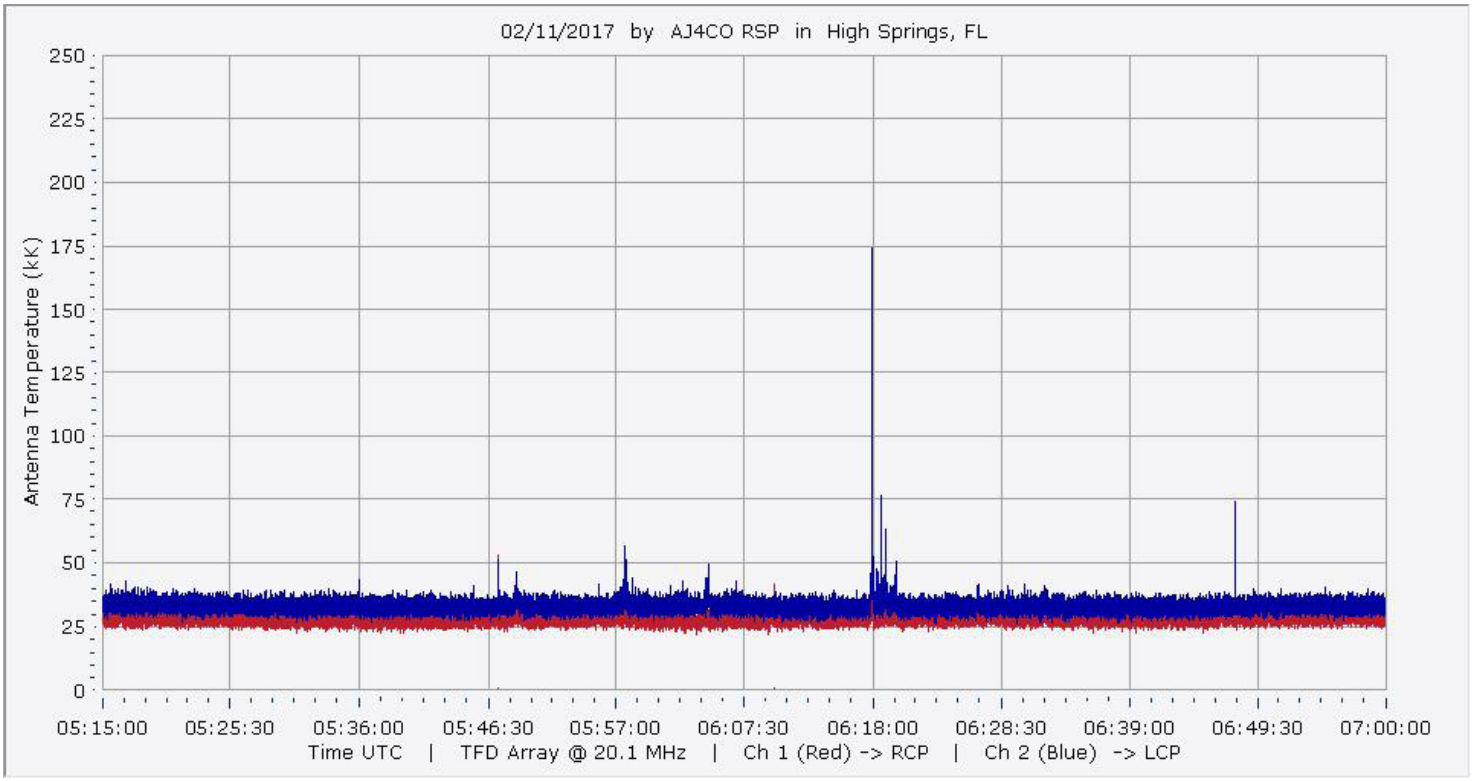
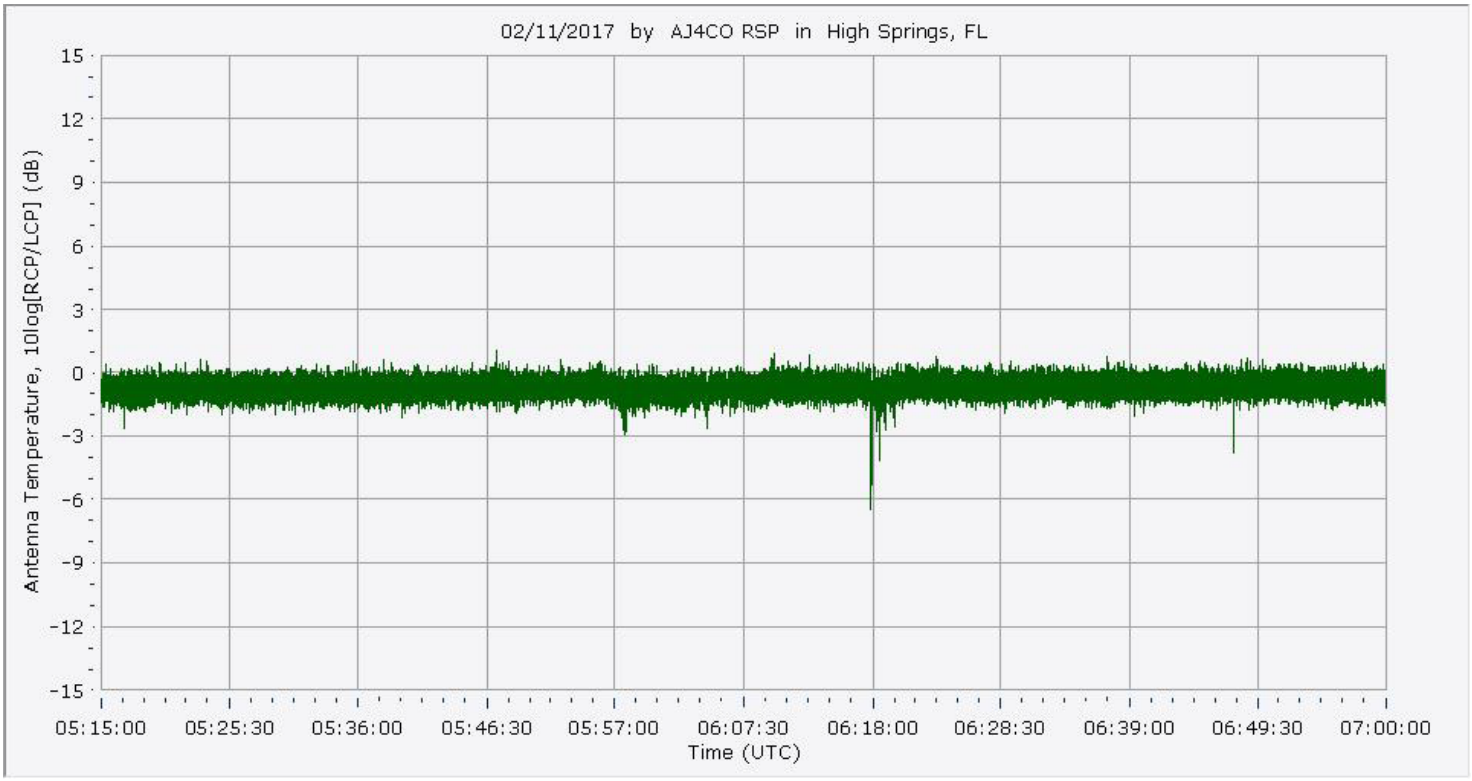
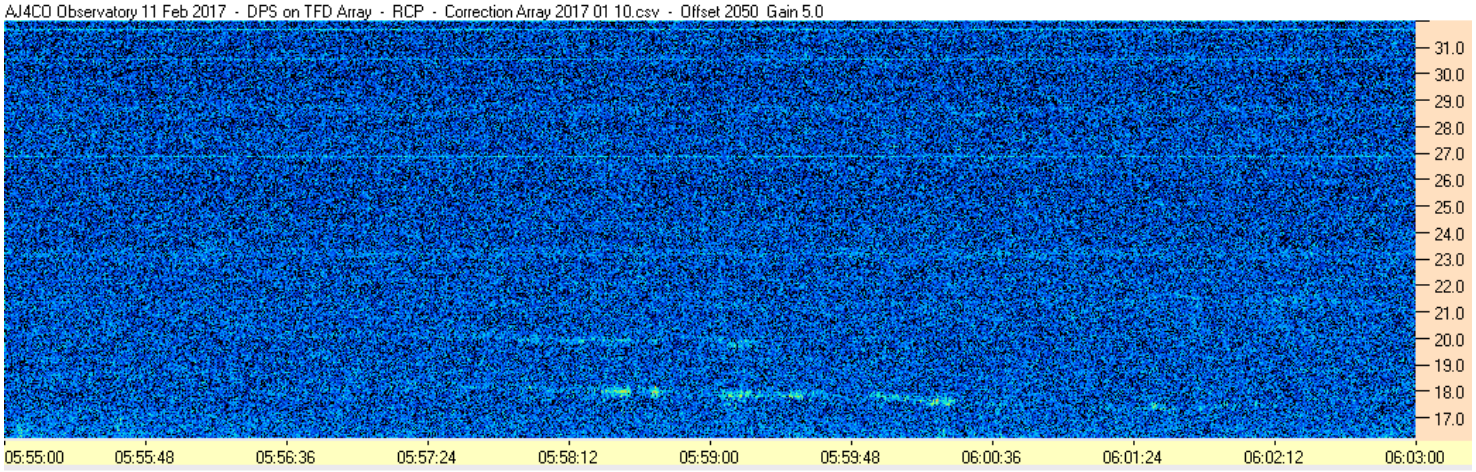
17.0

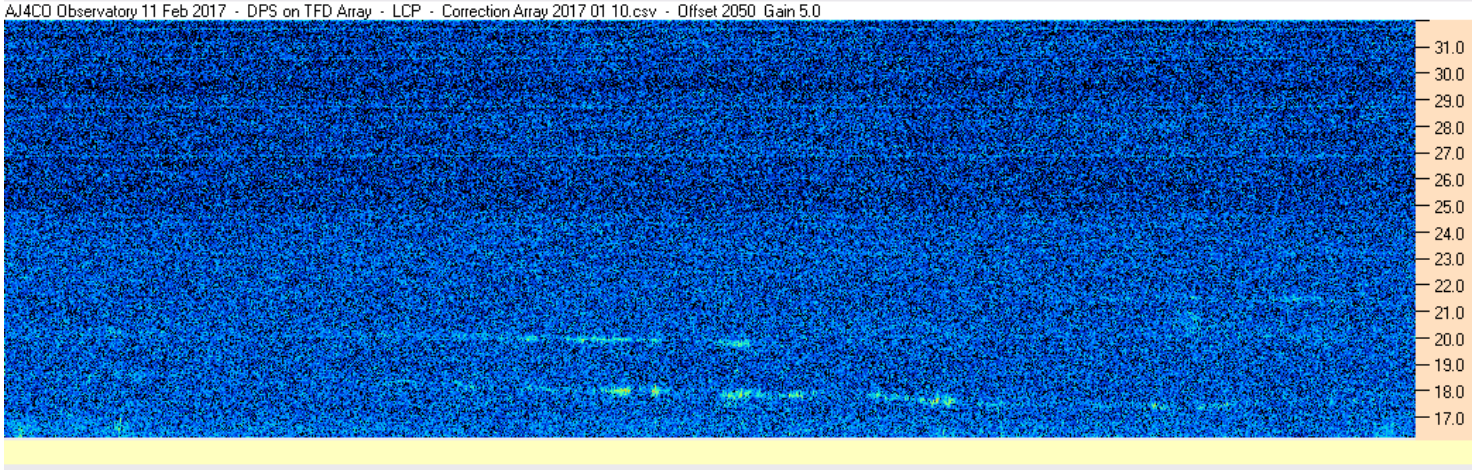

02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
05:15:00
05:25:30
05:36:00
05:46:30
05:57:00
06:07:30
06:18:00
06:28:30
06:39:00
06:49:30
07:00:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
05:15:00
05:25:30
05:36:00
05:46:30
05:57:00
06:07:30
06:18:00
06:28:30
06:39:00
06:49:30
07:00:00
Time (UTC)

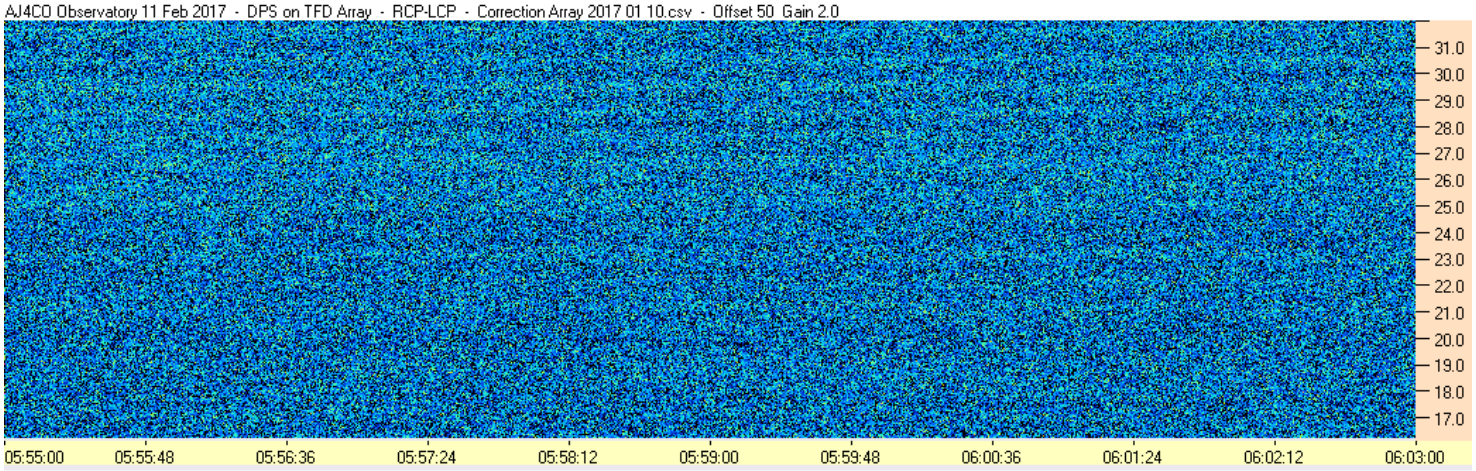
AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0



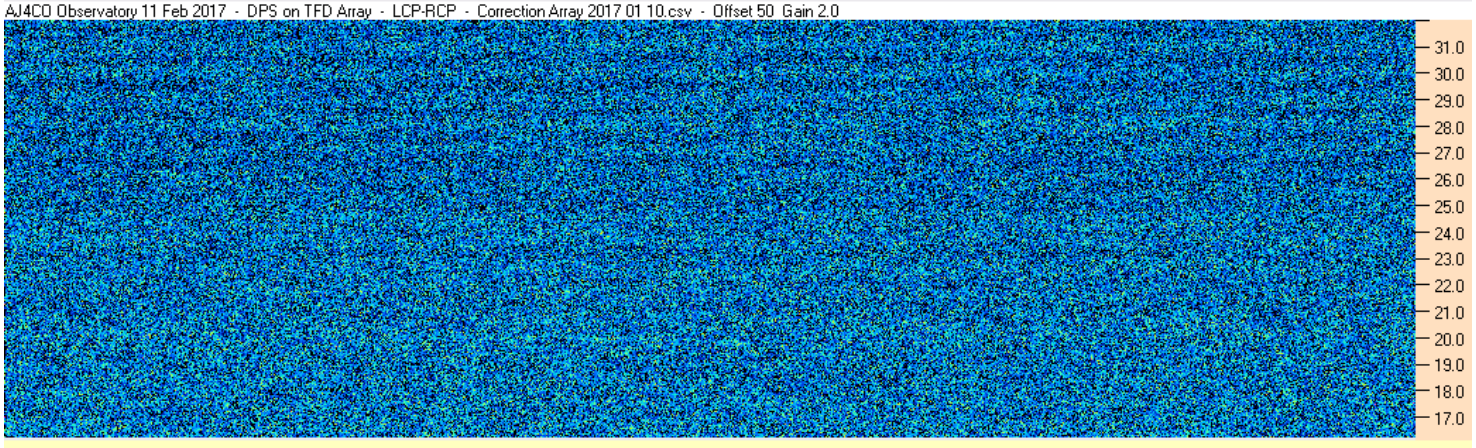
AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0

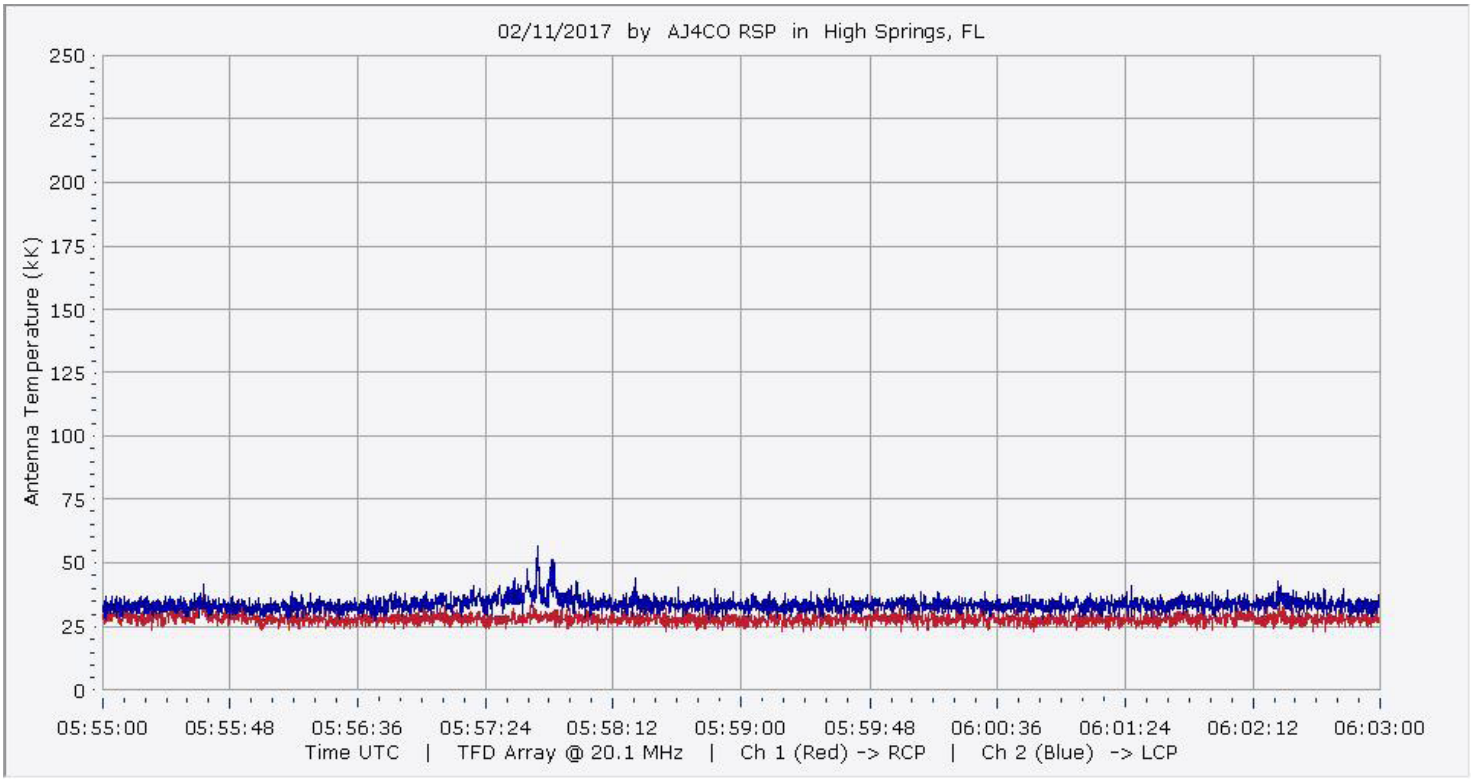


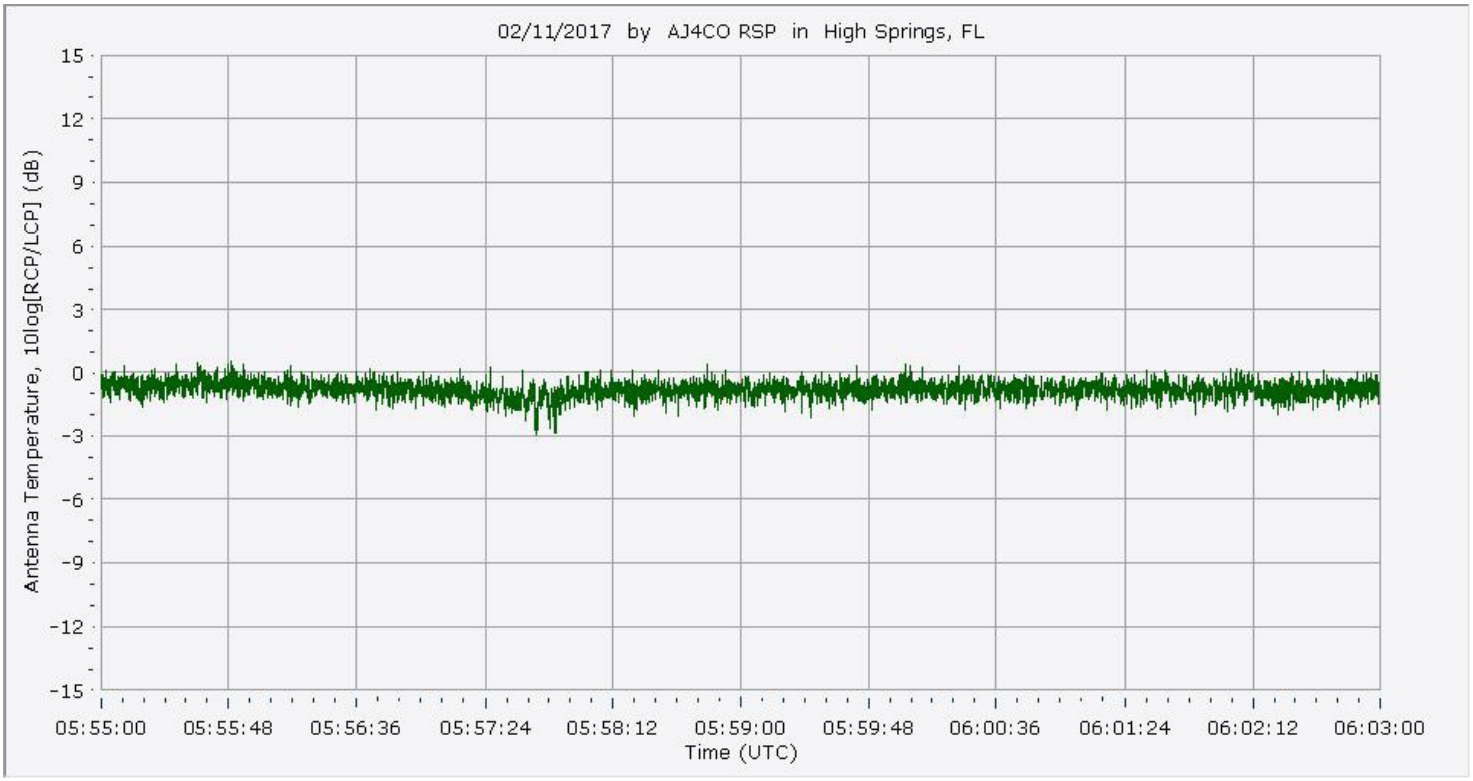
AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0



AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0




02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
05:55:00
05:55:48
05:56:36
05:57:24
05:58:12
05:59:00
05:59:48
06:00:36
06:01:24
06:02:12
06:03:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
05:55:00
05:55:48
05:56:36
05:57:24
05:58:12
05:59:00
05:59:48
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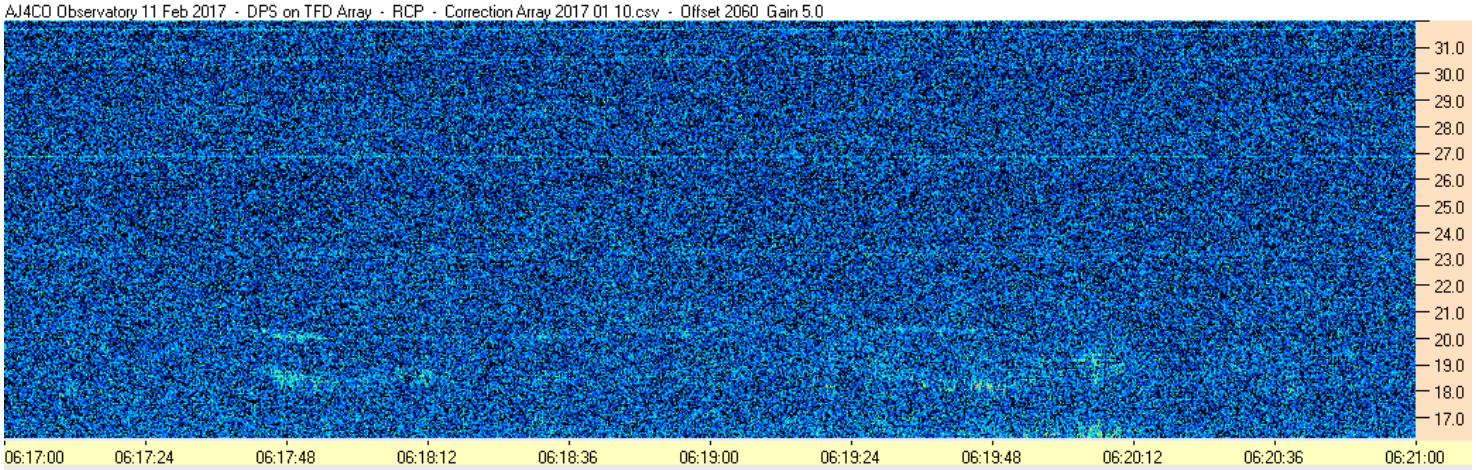
06:01:24
06:02:12
06:03:00
Time (UTC)


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2060 Gain 5.0
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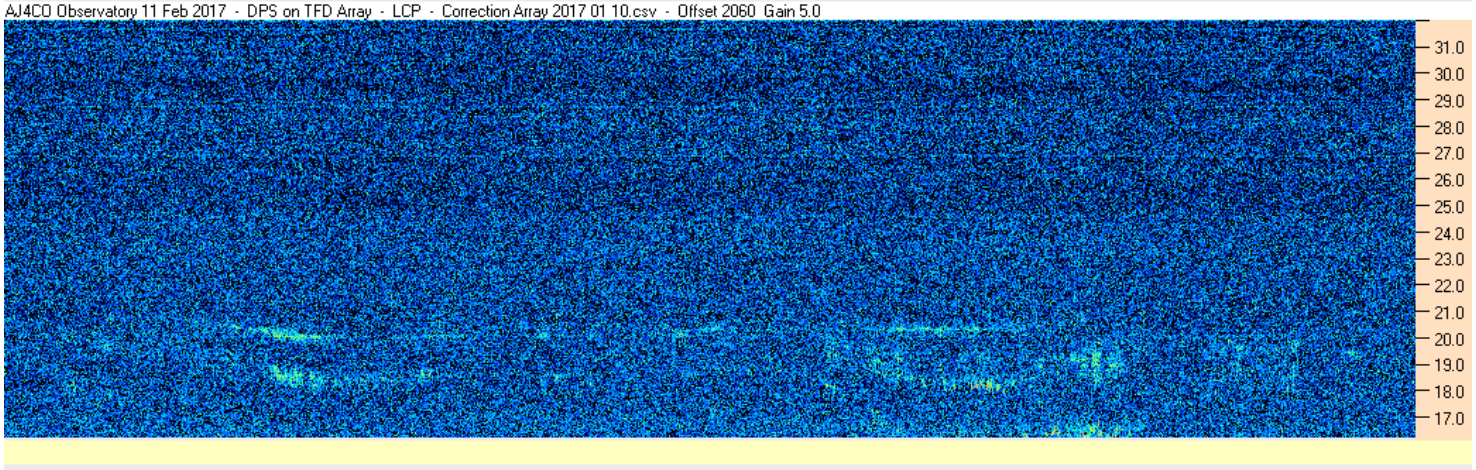
06:21:00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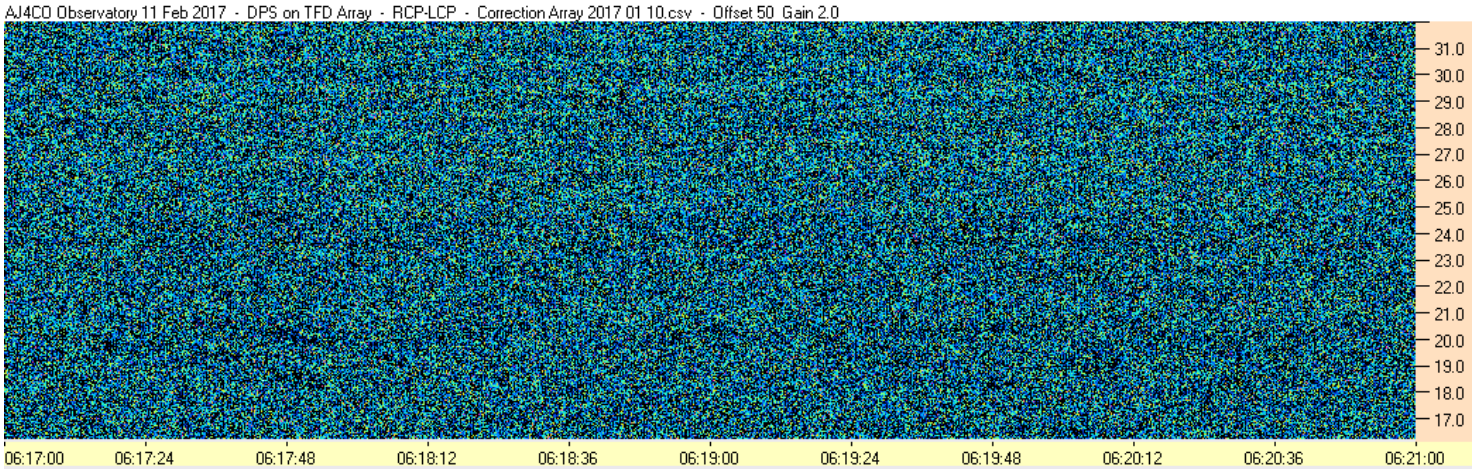
AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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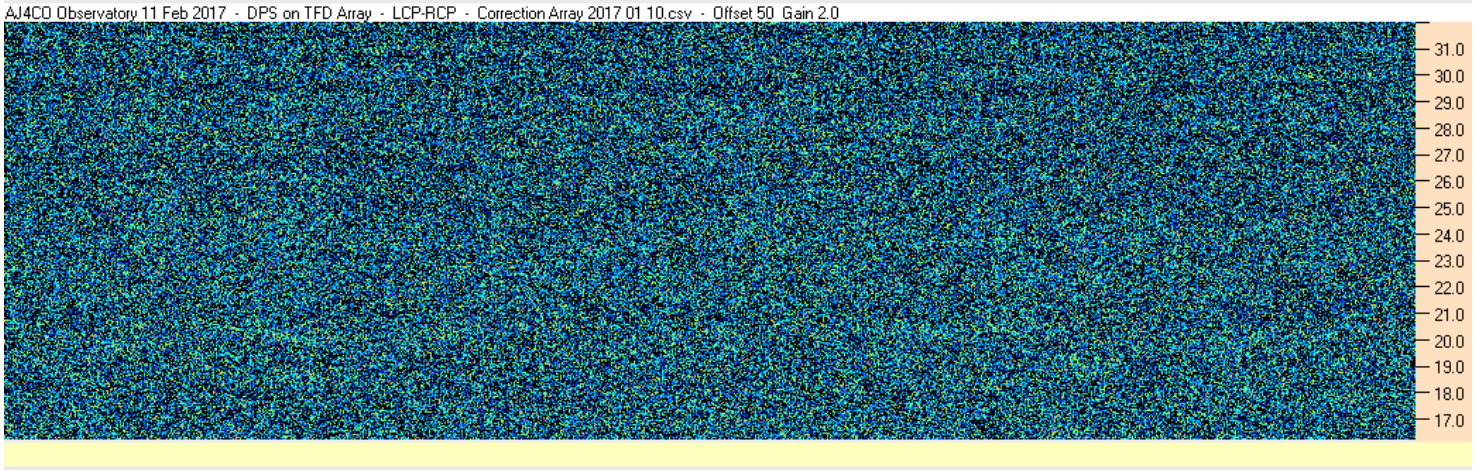
06:20:12
06:20:36
06:21:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
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21.0
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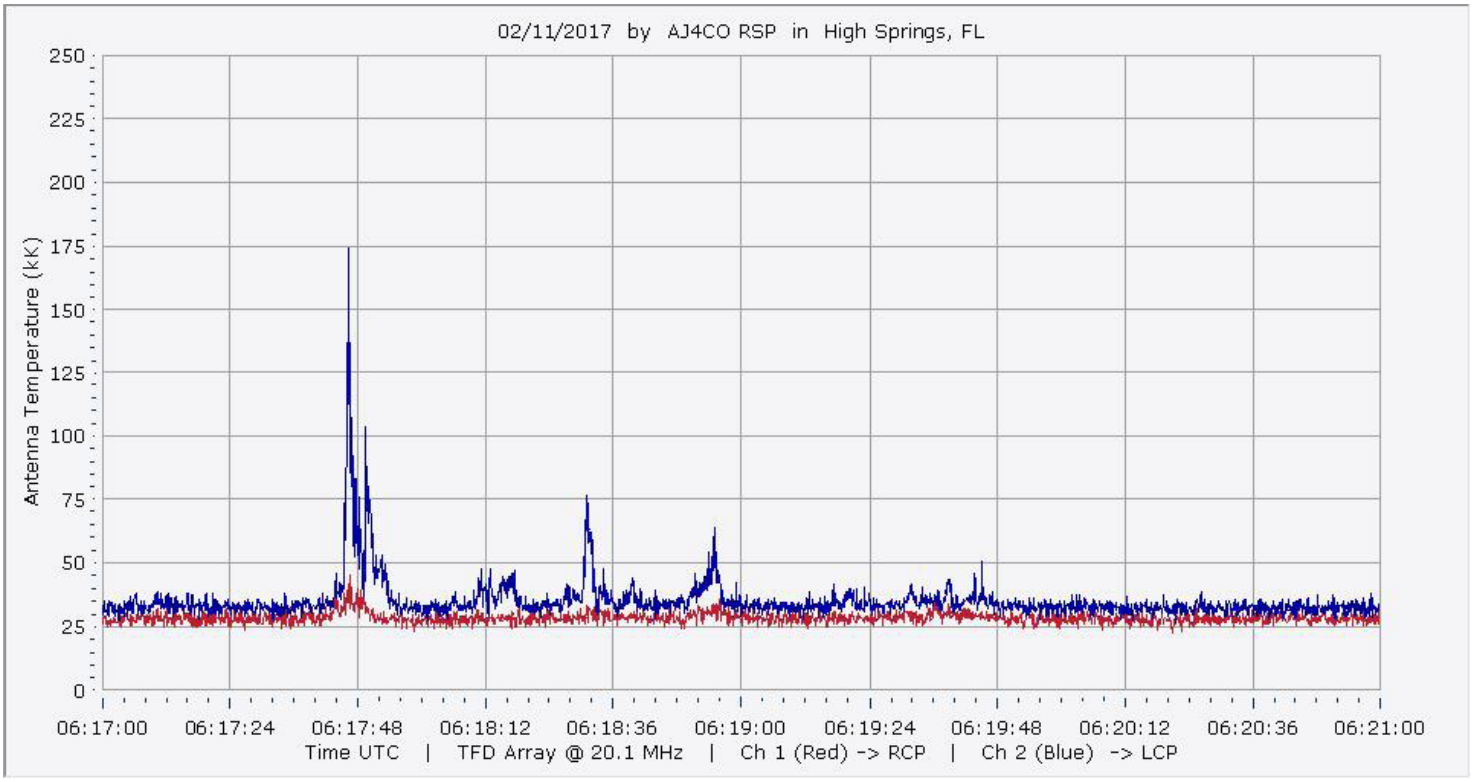
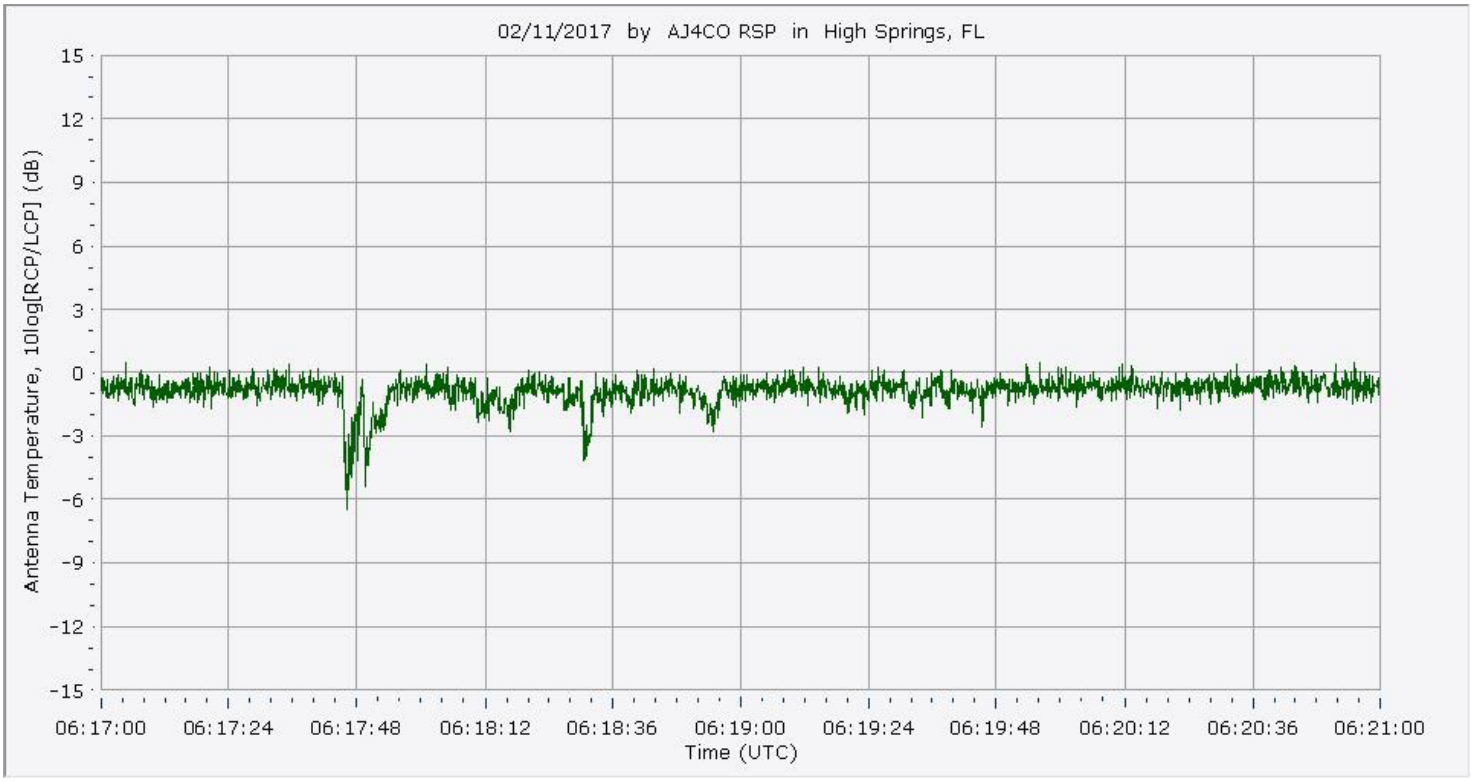

02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
06:17:00
06:17:24
06:17:48
06:18:12
06:18:36
06:19:00
06:19:24
06:19:48
06:20:12
06:20:36
06:21:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
06:17:00
06:17:24
06:17:48
06:18:12
06:18:36
06:19:00
06:19:24
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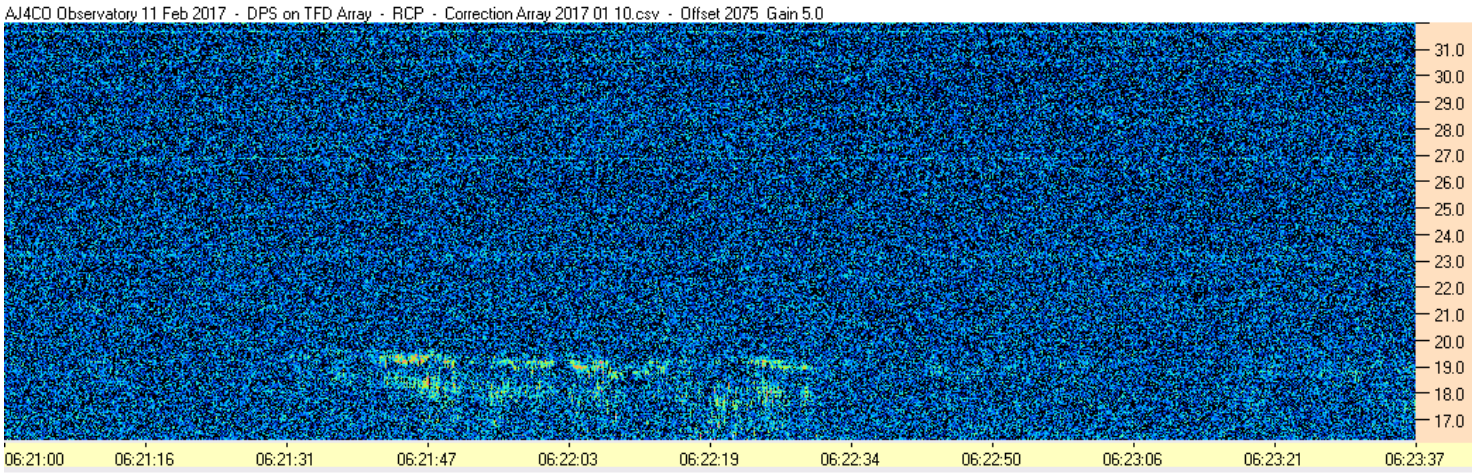
06:20:12
06:20:36
06:21:00
Time (UTC)


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2075 Gain 5.0
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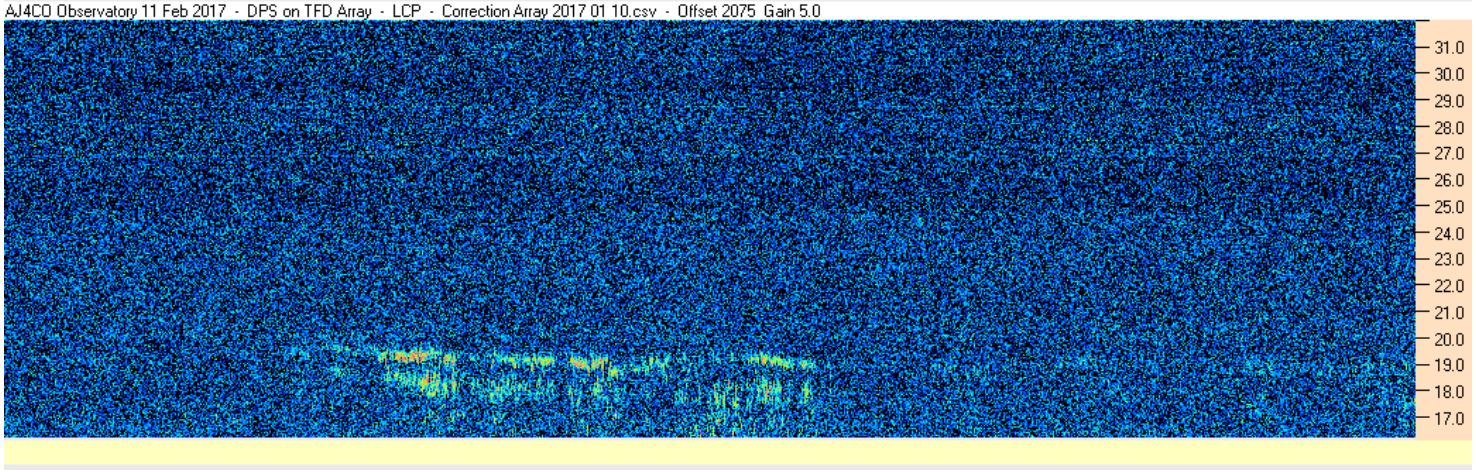
06:22:50
06:23:06
06:23:21
06:23:37


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.csv - Offset 2075 Gain 5.0
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29.0
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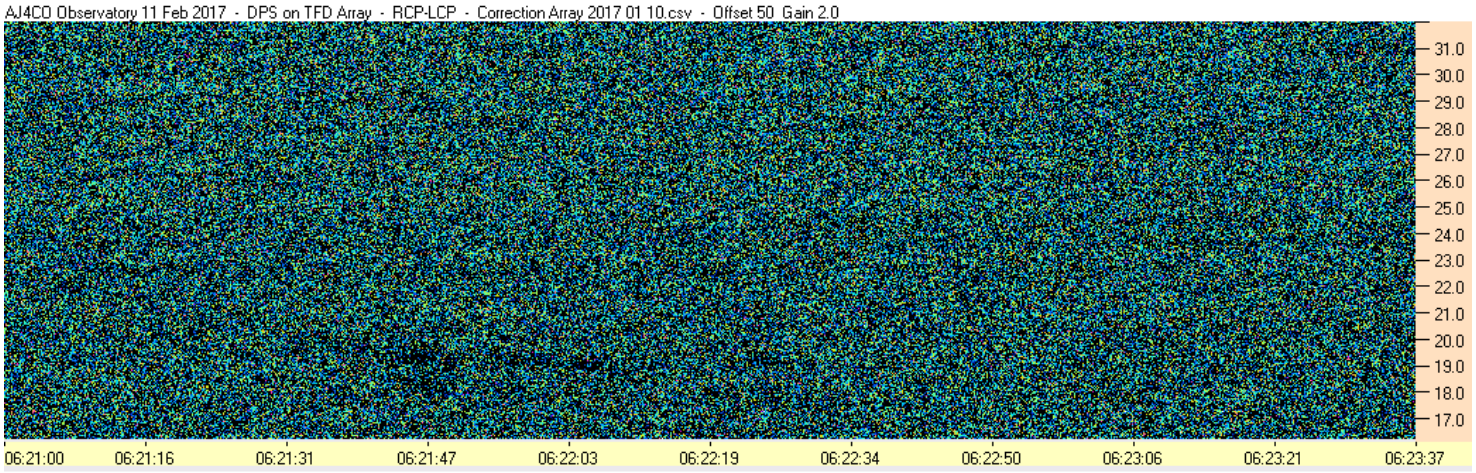
22.0
21.0
20.0
19.0
18.0
17.0


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.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
06:21:00
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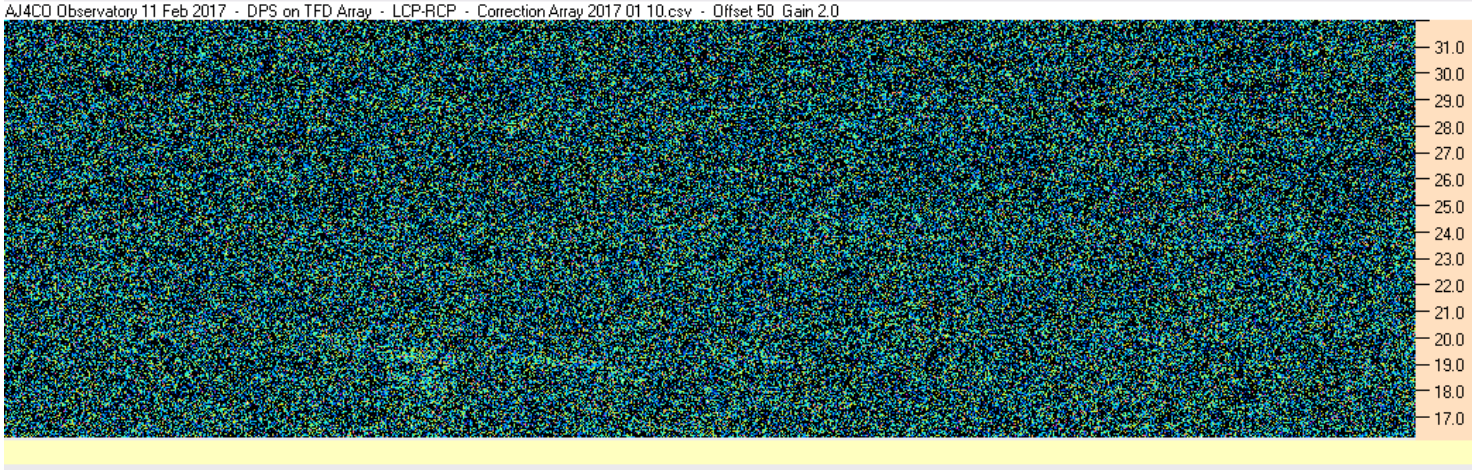
06:22:50
06:23:06
06:23:21
06:23:37


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.csv - Offset 50 Gain 2.0
31.0
30.0
29.0
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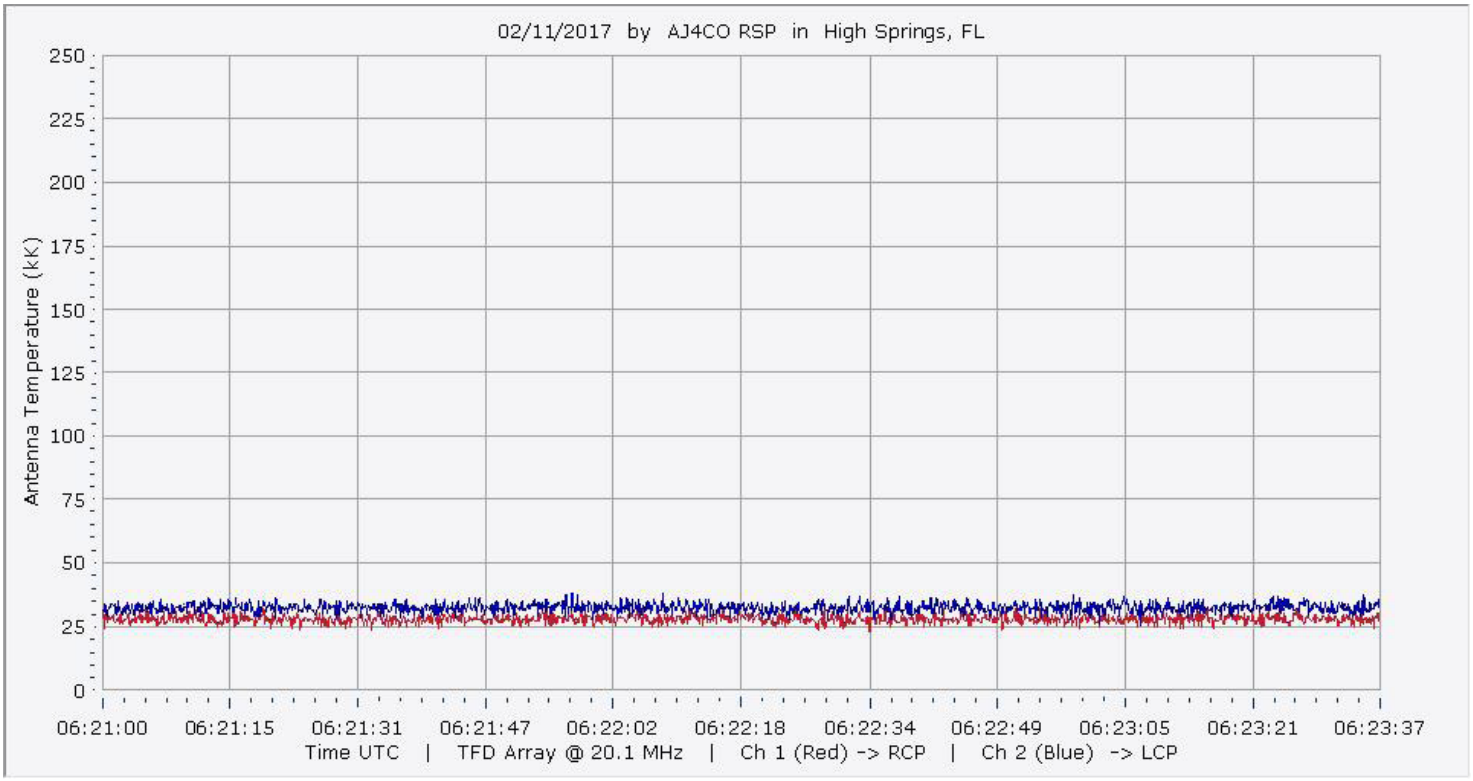
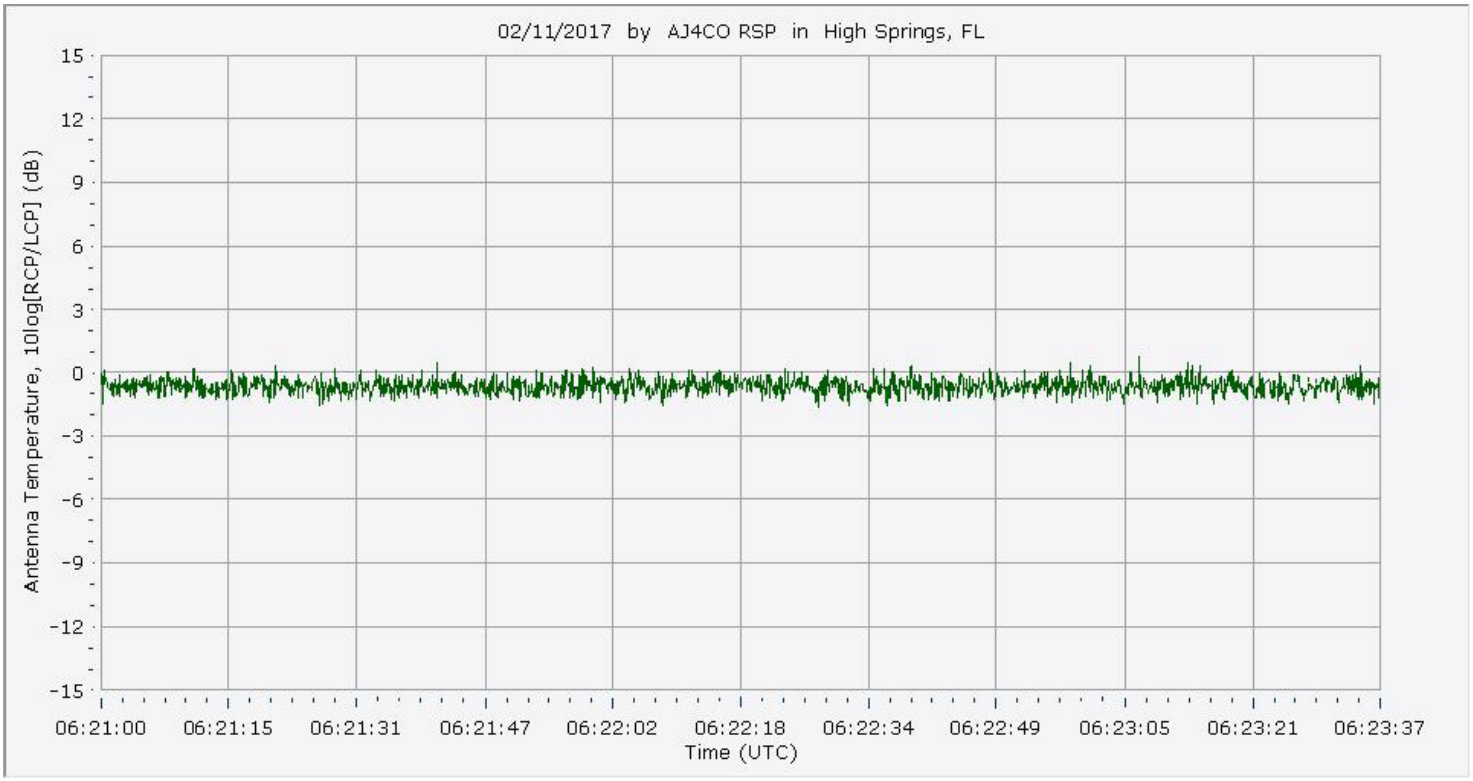
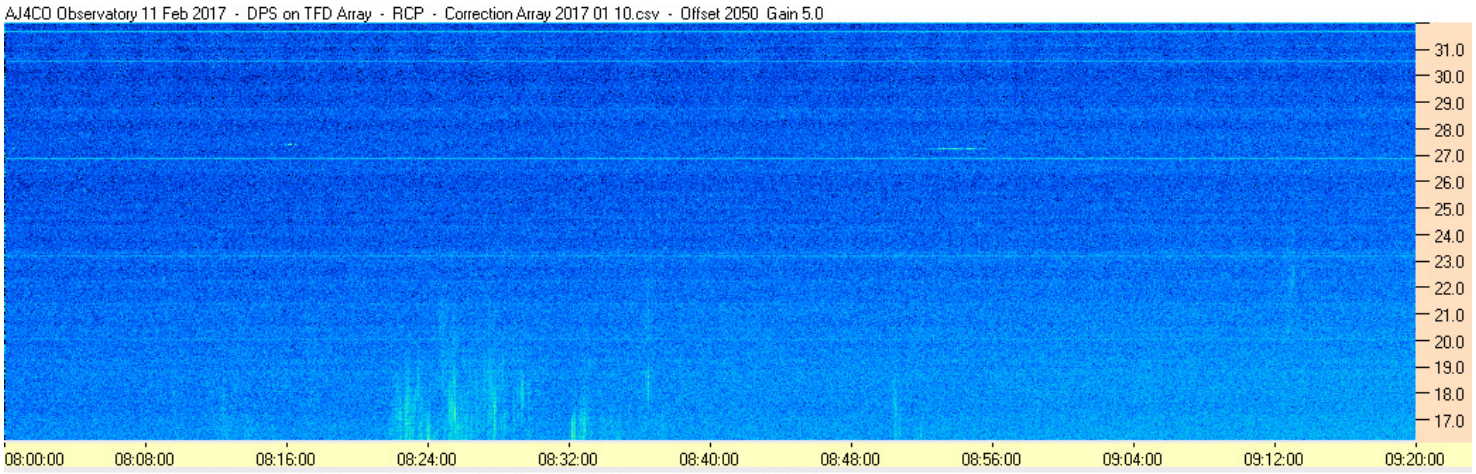
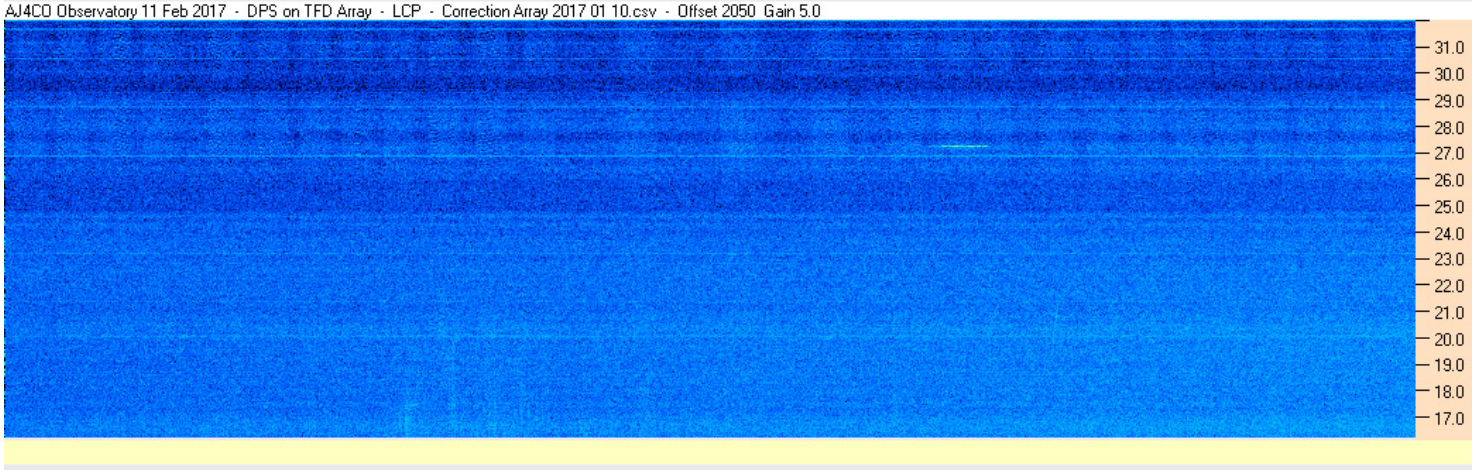
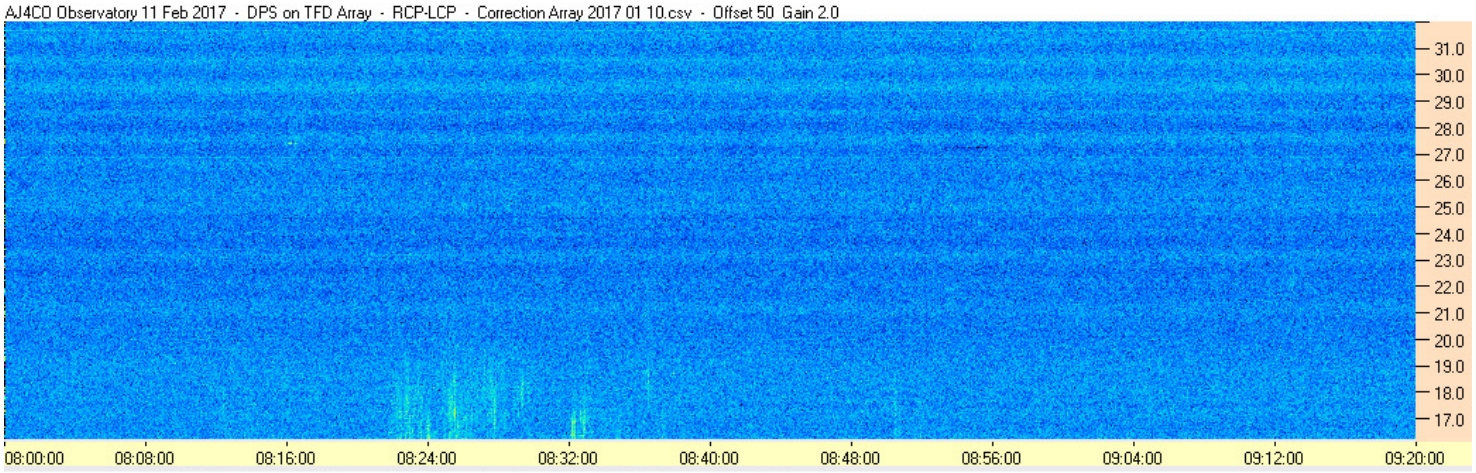
22.0
21.0
20.0
19.0
18.0
17.0

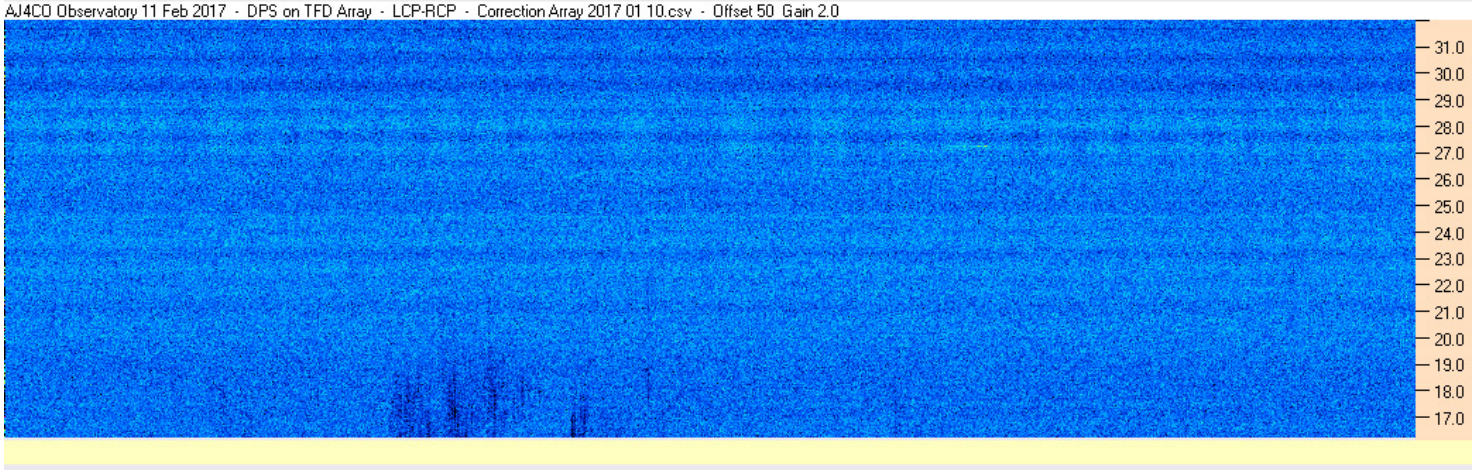

02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
06:21:00
06:21:15
06:21:31
06:21:47
06:22:02
06:22:18
06:22:34
06:22:49
06:23:05
06:23:21
06:23:37
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP

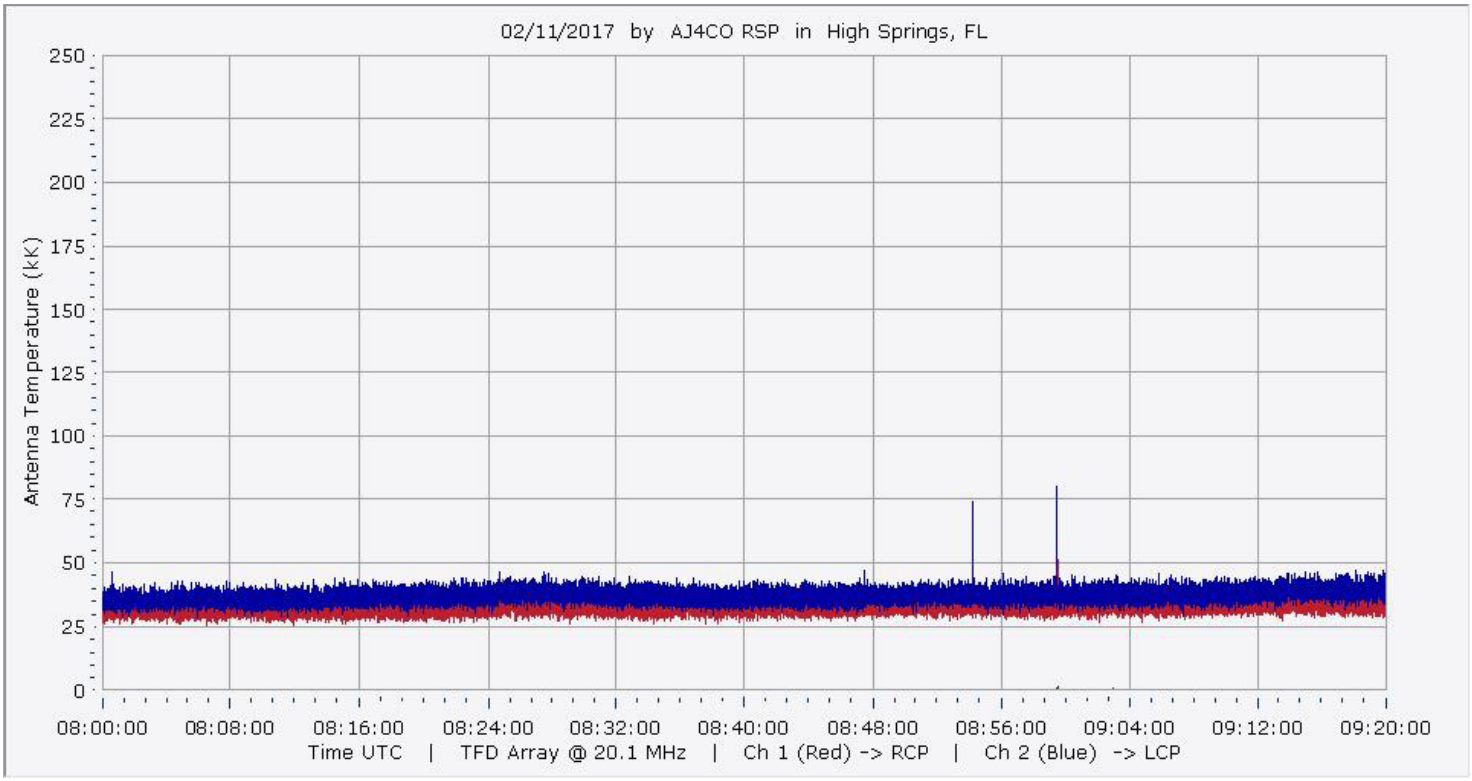

02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
06:21:00
06:21:15
06:21:31
06:21:47
06:22:02
06:22:18
06:22:34
06:22:49
06:23:05
06:23:21
06:23:37
Time (UTC)

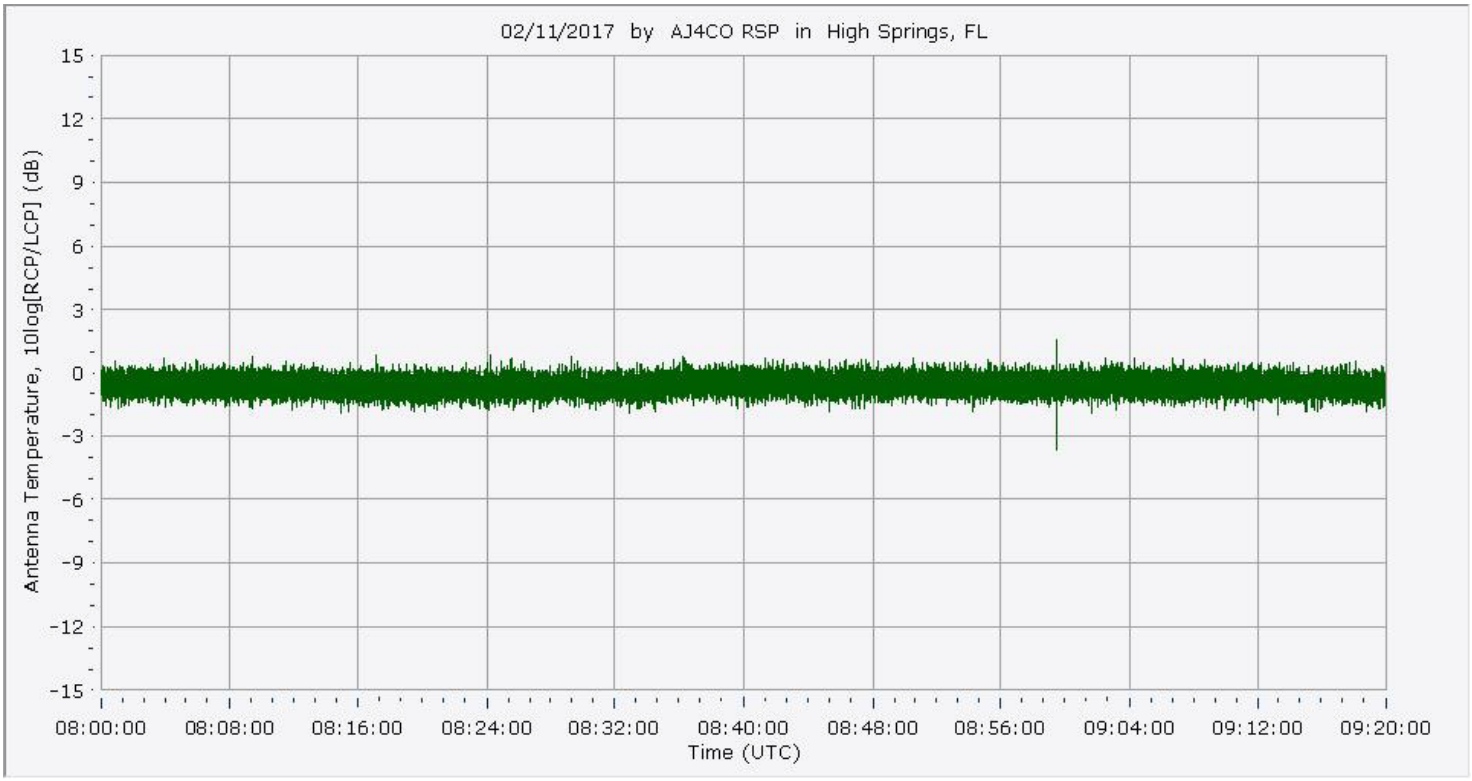

AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP - Correction Array 2017 01 10.csv - Offset 2050 Gain 5.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
08:00:00
08:08:00
08:16:00
08:24:00
08:32:00
08:40:00
08:48:00
08:56:00
09:04:00
09:12:00
09:20:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP - Correction Array 2017 01 10.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


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - RCP-LCP - Correction Array 2017 01 10.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
08:00:00
08:08:00
08:16:00
08:24:00
08:32:00
08:40:00
08:48:00
08:56:00
09:04:00
09:12:00
09:20:00


AJ4CO Observatory 11 Feb 2017 - DPS on TFD Array - LCP-RCP - Correction Array 2017 01 10.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


02/11/2017 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
08:00:00
08:08:00
08:16:00
08:24:00
08:32:00
08:40:00
08:48:00
08:56:00
09:04:00
09:12:00
09:20:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


02/11/2017 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
08:08:00
08:16:00
08:24:00
08:32:00
08:40:00
08:48:00
08:56:00
09:04:00
09:12:00
09:20:00
Time (UTC)