Subject: [radiojove-data] 16 Jan 2016 Io-B/D
From: Dave Typinski <davetyp@typnet.net>
Date: 01/22/2016 19:26
To: RadioJove-Data <radiojove-data@lists.nasa.gov>

Adding to Tom & Jim & Wes & David & Nathan's nice reports, here's some Io-B & Io-D from Saturday morning.

RCP dominant narrow banded S burst trains 0748-0853 UTC from 16 to 32 MHz, vertex early arcs (Io-B).

RCP dominant L bursting 0723-1022 UTC from 16 to 32 MHz, vertex early arcs (Io-B), positive and negative drift modulation lanes visible.

RCP was very dominant, peaking 15+ dB over LCP at times.

LCP dominant L bursting 1007-1134 UTC from 16 to 21 MHz, positive drift emission envelope (Io-D), no modulation lanes visible.

Also some LCP Io-D buried within the RCP Io-B, see 0850 to 0857 spectrogram and strip charts.

Jupiter was -31° to +32° off axis.

Jupiter was leading the Sun by 123°.
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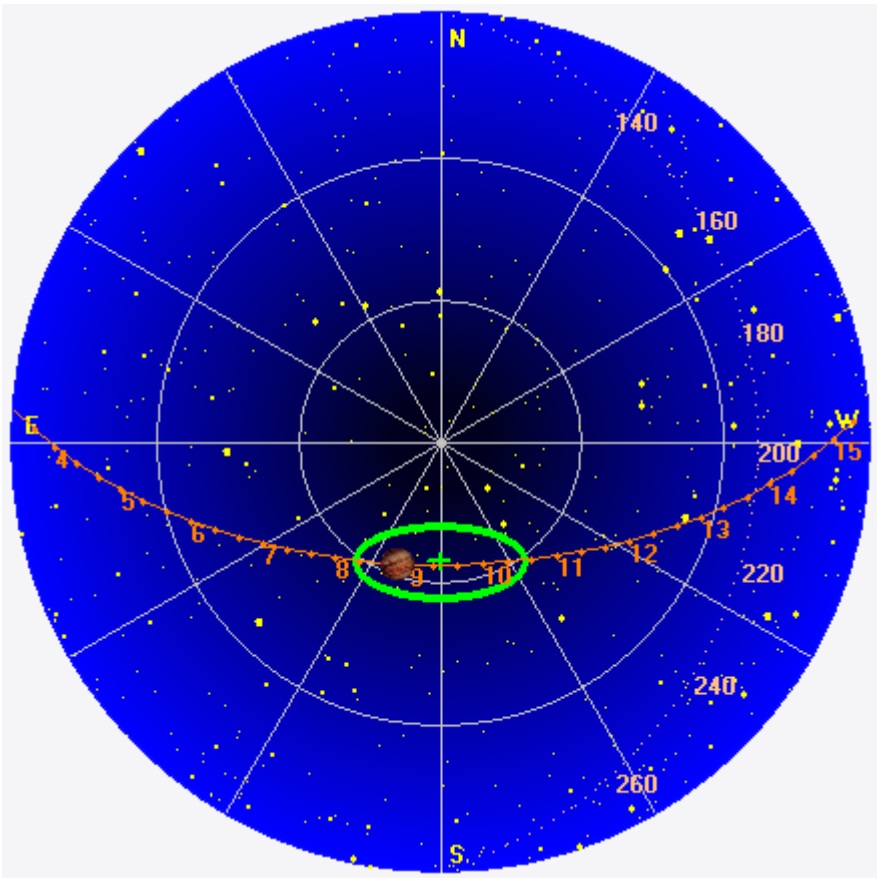
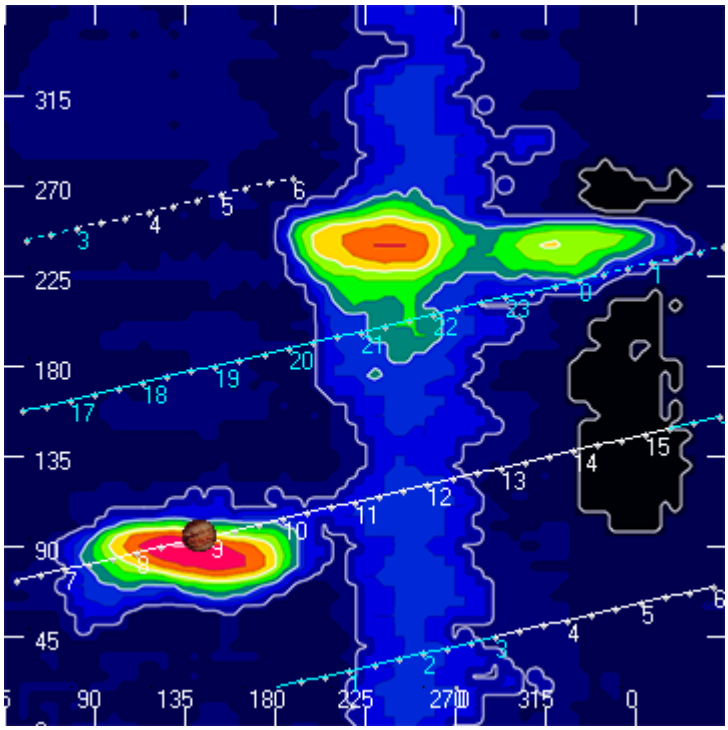
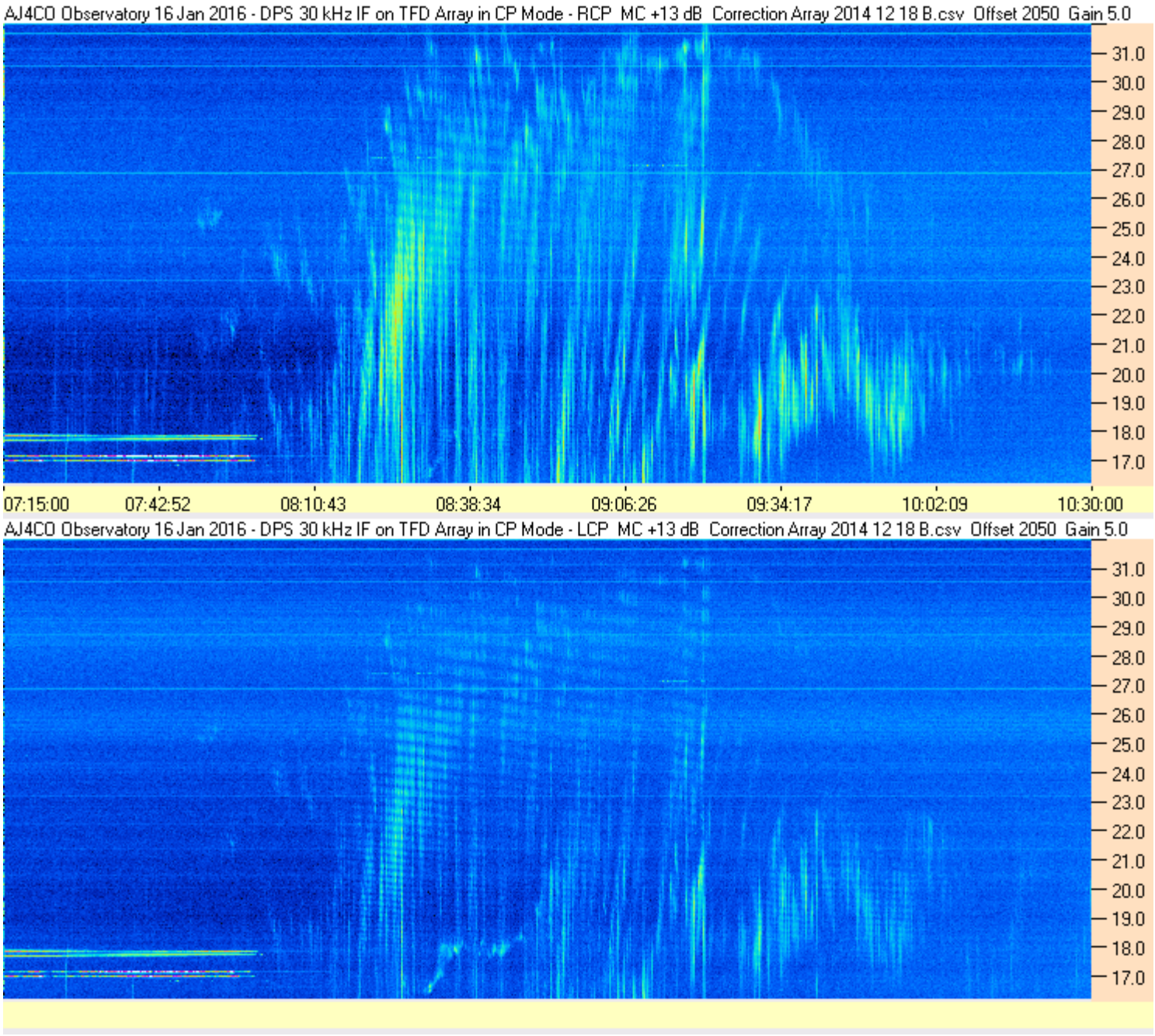
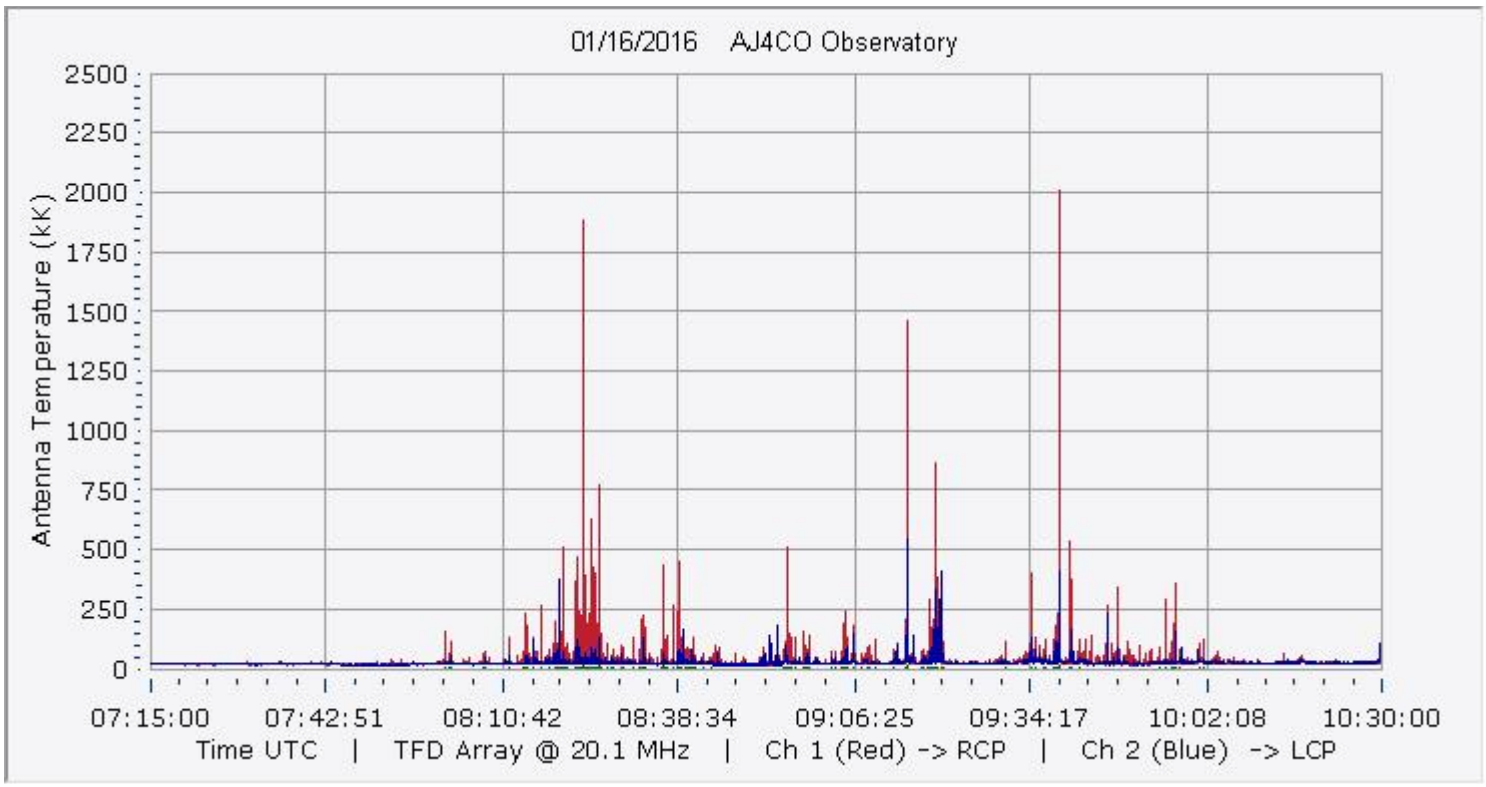
Dave

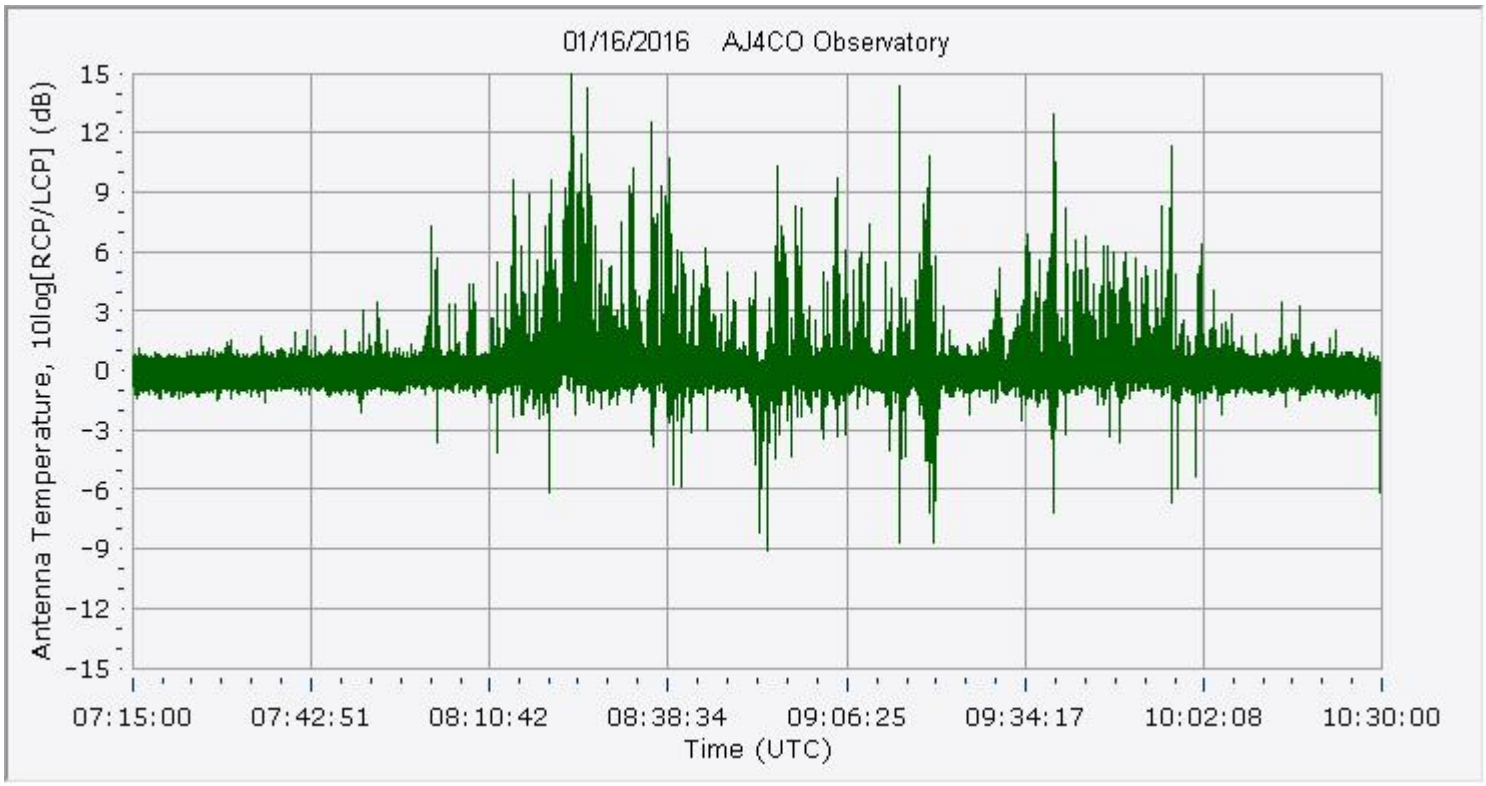
AJ4CO Observatory 16 Jan 2016, log entry 551 - 553

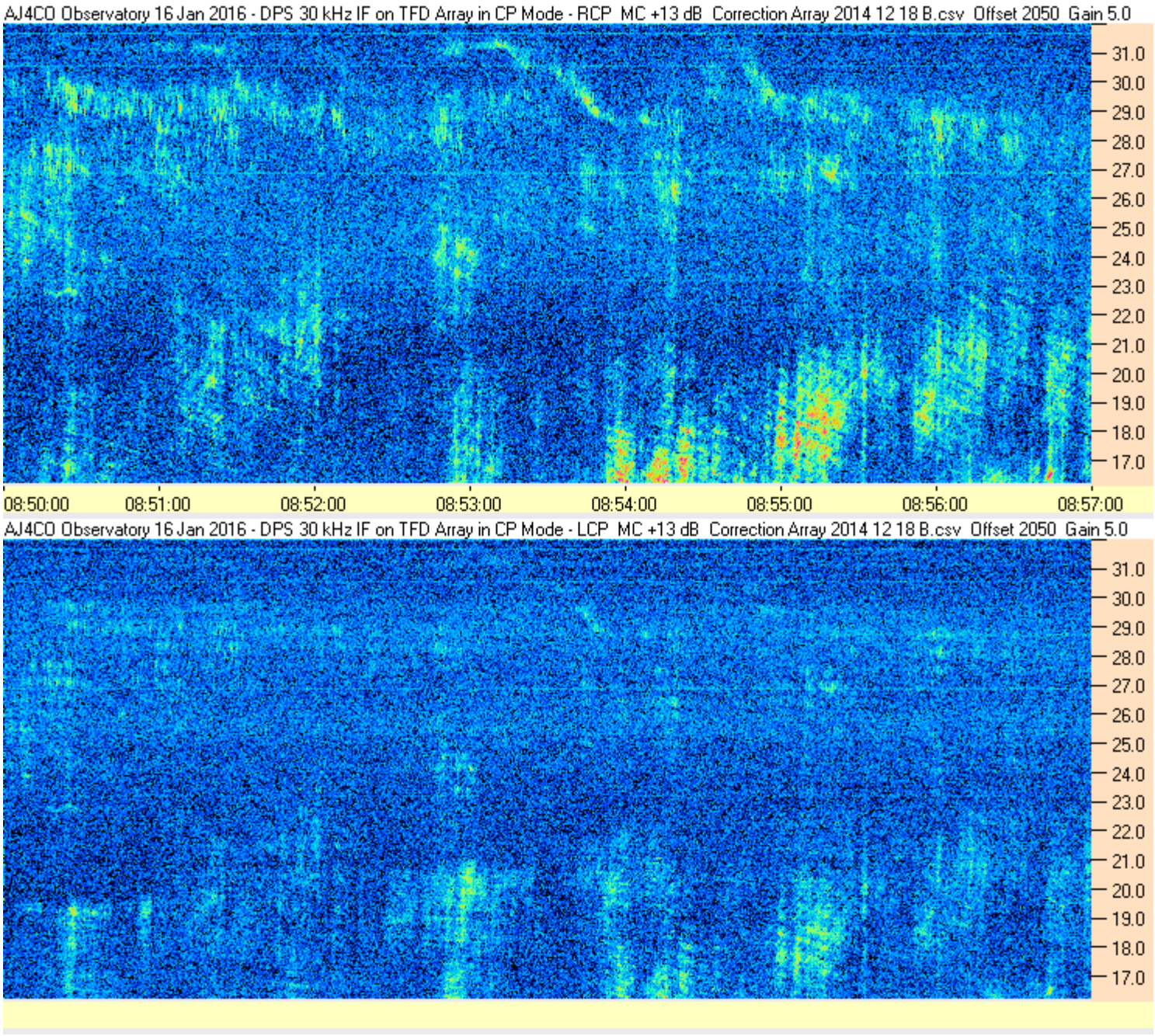

N
140
160
180
E
W
200
15
14
13
12
11
10
9
8
7
6
5
4
220
240
260
S

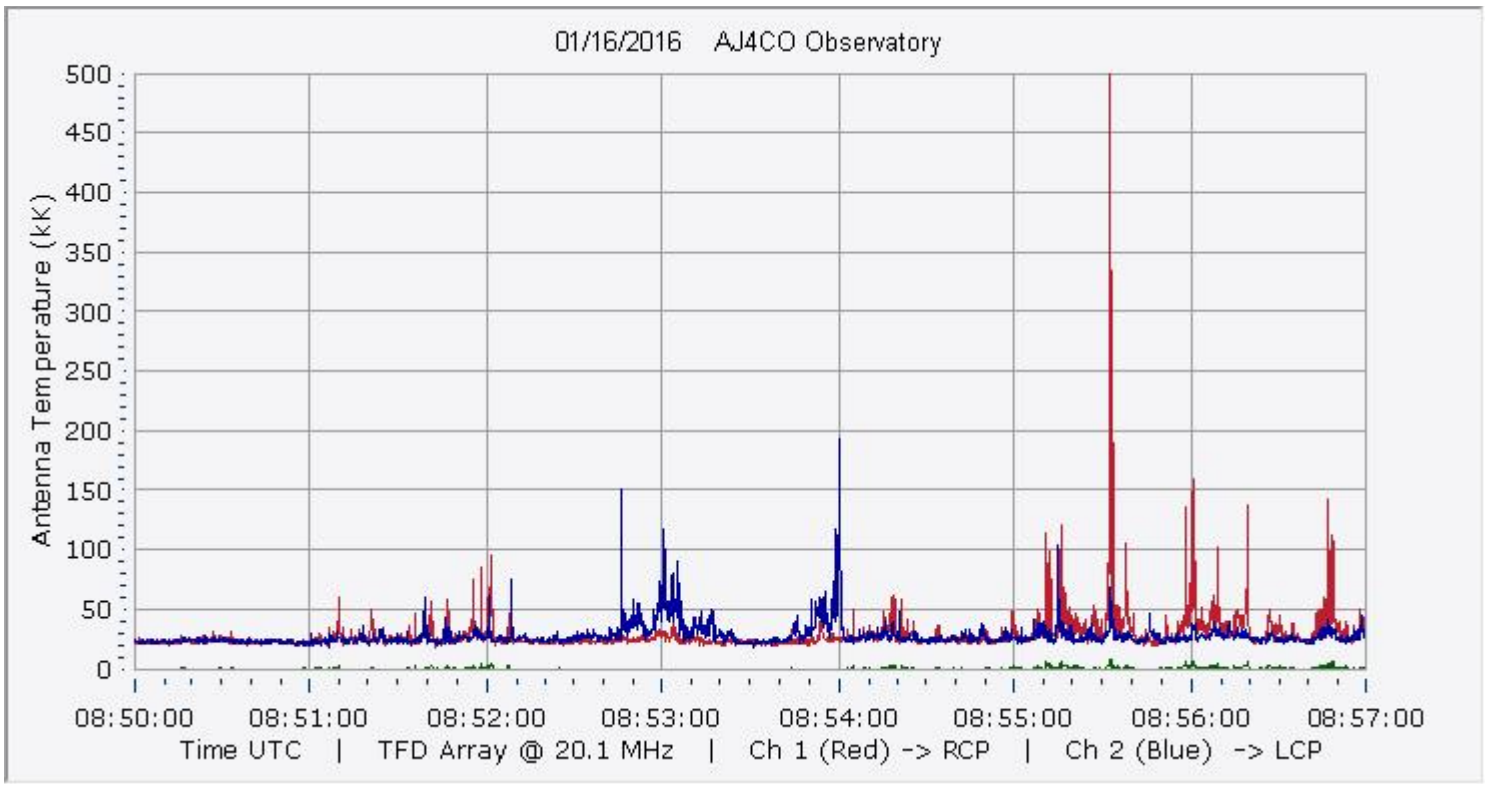

315
270
225
180
135
90
45
90
135
180
225
270
315
0

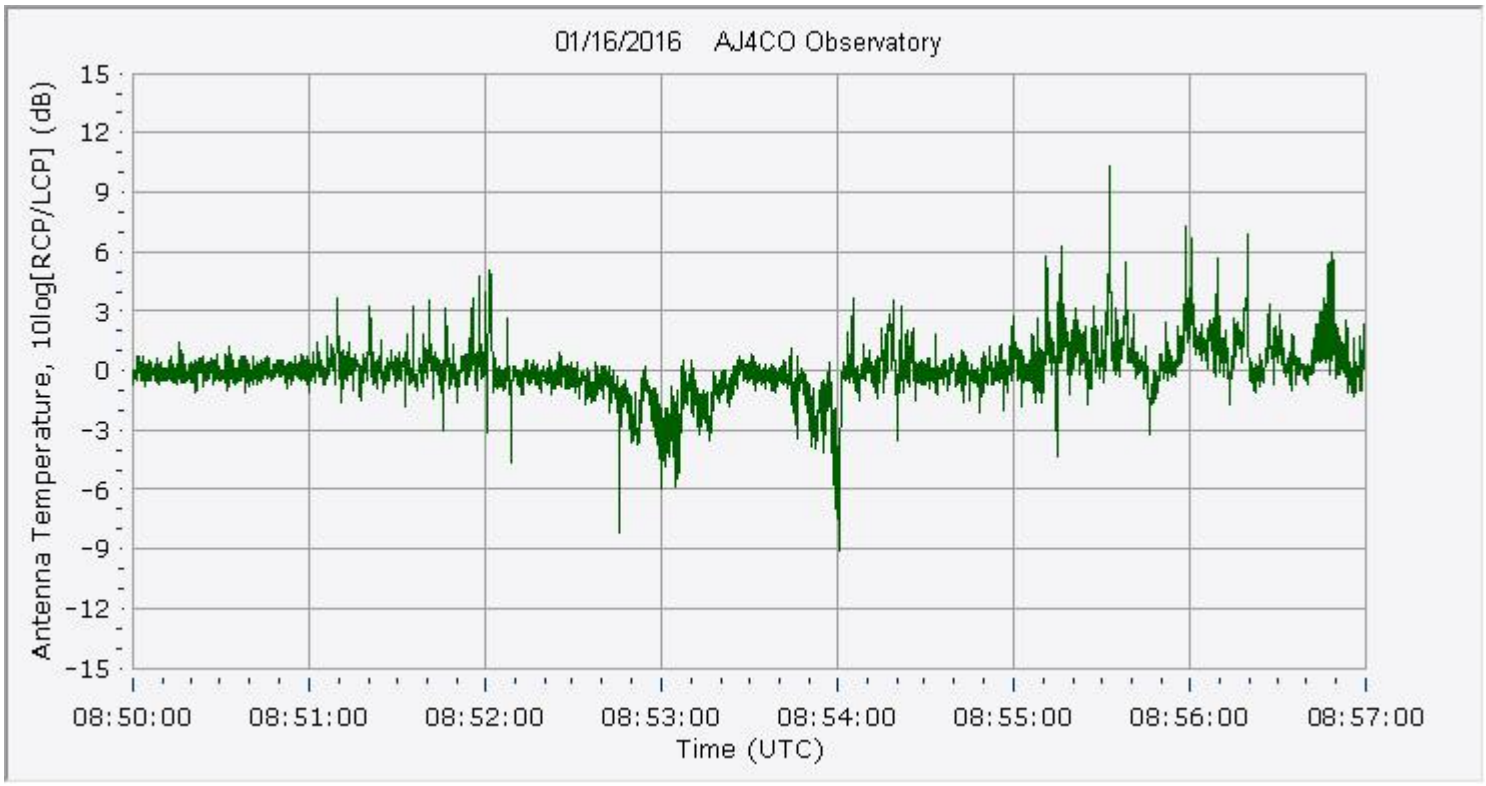

AJ4CO Observatory 16 Jan 2016 - DPS 30 kHz IF on TFD Array in CP Mode - RCP MC +13 dB Correction Array 2014 12 18 B.csv Offset 2050 Gain 5.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
07:15:00
07:42:52
08:10:43
08:38:34
09:06:26
09:34:17
10:02:09
10:30:00
AJ4CO Observatory 16 Jan 2016 - DPS 30 kHz IF on TFD Array in CP Mode - LCP MC +13 dB 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

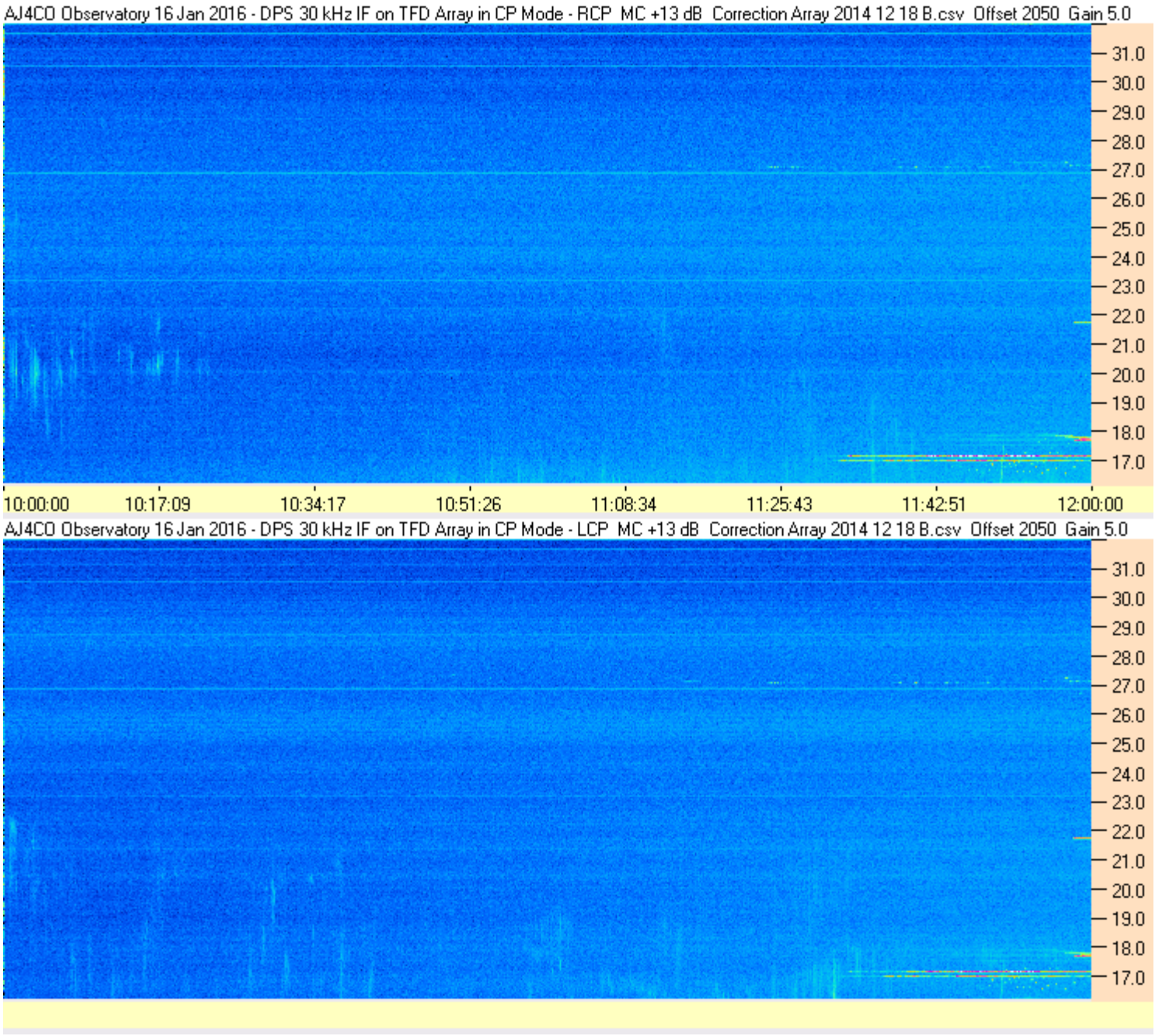

01/16/2016 AJ4CO Observatory
Antenna Temperature (kK)
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
07:15:00
07:42:51
08:10:42
08:38:34
09:06:25
09:34:17
10:02:08
10:30:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP

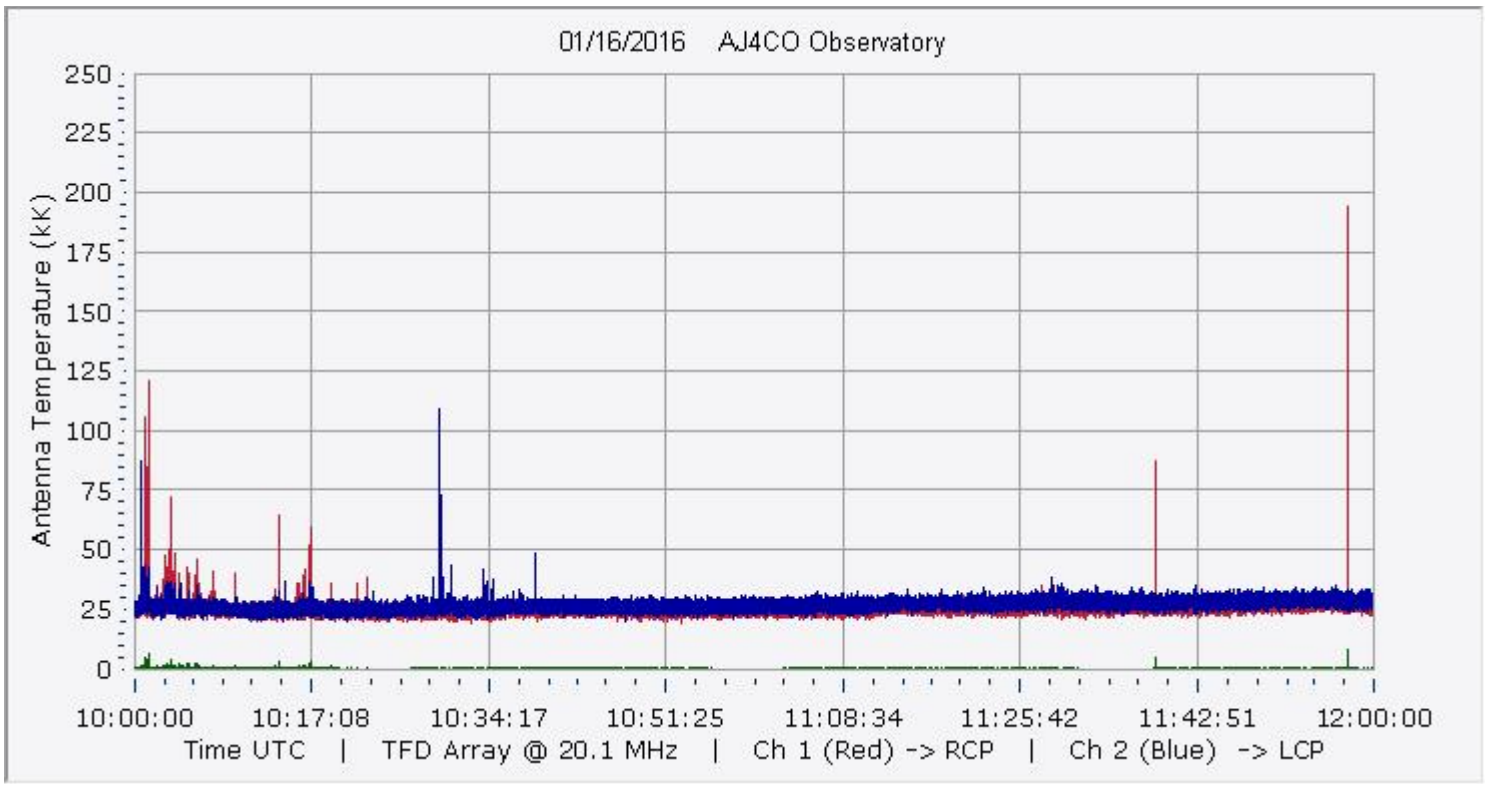

01/16/2016 AJ4CO Observatory
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
07:15:00
07:42:51
08:10:42
08:38:34
09:06:25
09:34:17
10:02:08
10:30:00
Time (UTC)

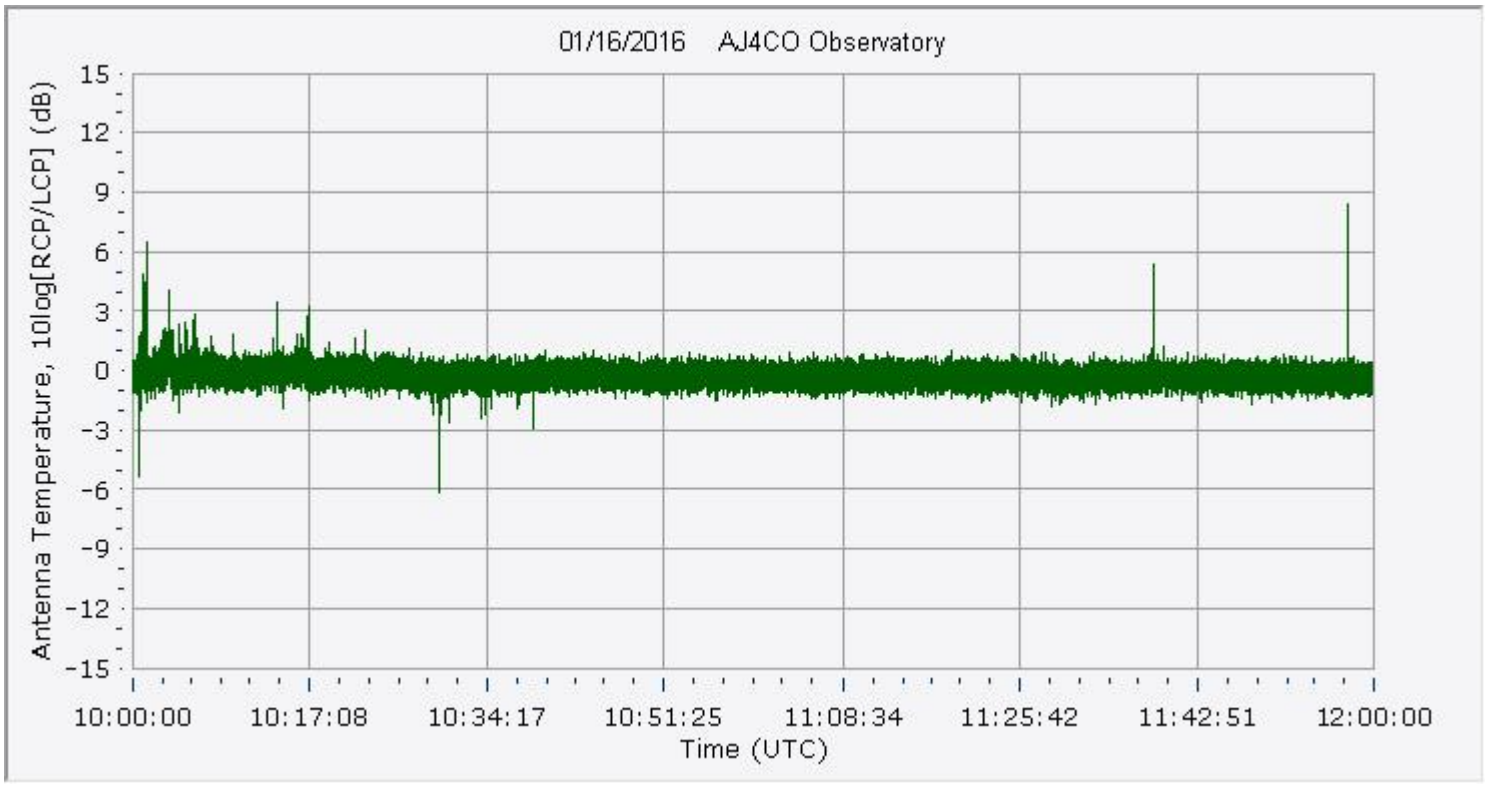

AJ4CO Observatory 16 Jan 2016 - DPS 30 kHz IF on TFD Array in CP Mode - RCP MC +13 dB Correction Array 2014 12 18 B.csv Offset 2050 Gain 5.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
17.0
08:50:00
08:51:00
08:52:00
08:53:00
08:54:00
08:55:00
08:56:00
08:57:00
AJ4CO Observatory 16 Jan 2016 - DPS 30 kHz IF on TFD Array in CP Mode - LCP MC +13 dB 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


01/16/2016 AJ4CO Observatory
Antenna Temperature (kK)
500
450
400
350
300
250
200
150
100
50
0
08:50:00
08:51:00
08:52:00
08:53:00
08:54:00
08:55:00
08:56:00
08:57:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


01/16/2016 AJ4CO Observatory
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
08:50:00
08:51:00
08:52:00
08:53:00
08:54:00
08:55:00
08:56:00
08:57:00
Time (UTC)


AJ4CO Observatory 16 Jan 2016 - DPS 30 kHz IF on TFD Array in CP Mode - RCP MC +13 dB 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
10:00:00
10:17:09
10:34:17
10:51:26
11:08:34
11:25:43
11:42:51
12:00:00
AJ4CO Observatory 16 Jan 2016 - DPS 30 kHz IF on TFD Array in CP Mode - LCP MC +13 dB 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


01/16/2016 AJ4CO Observatory
Antenna Temperature (kK)
250
225
200
175
150
125
100
75
50
25
0
10:00:00
10:17:08
10:34:17
10:51:25
11:08:34
11:25:42
11:42:51
12:00:00
Time UTC | TFD Array @ 20.1 MHz | Ch 1 (Red) -> RCP | Ch 2 (Blue) -> LCP


01/16/2016 AJ4CO Observatory
Antenna Temperature, 10log[RCP/LCP] (dB)
15
12
9
6
3
0
-3
-6
-9
-12
-15
10:00:00
10:17:08
10:34:17
10:51:25
11:08:34
11:25:42
11:42:51
12:00:00
Time (UTC)