Subject: [radiojove-data] 16 Jan 2014 Io-A
From: Dave Typinski <davetyp@typnet.net>
Date: 01/17/2014 01:19
To: RadioJove-Data <radiojove-data@lists.nasa.gov>

Adding to Jim's & Tom's nice reports, here's Thursday morning's Io-A.

All RCP L bursting from 17 to 29 MHz. Not much in the way of modulation lanes.

Interesting that the two periods of most of the emission were either side of the probability peak, with almost no emission at the peak itself. Underscores that the phase plane graphic is a probability map, not an intensity map.

Jupiter was no more than 15° off axis throughout.
Beam Steering:
0035 UTC AZ 90, EL 45
0135 UTC AZ 99, EL 60
0315 UTC AZ 180, EL 85

The events circa 0050 UTC were ops checks of four different 90 degree hybrids (all checked good).

Jupiter was trailing the Sun by 169°.
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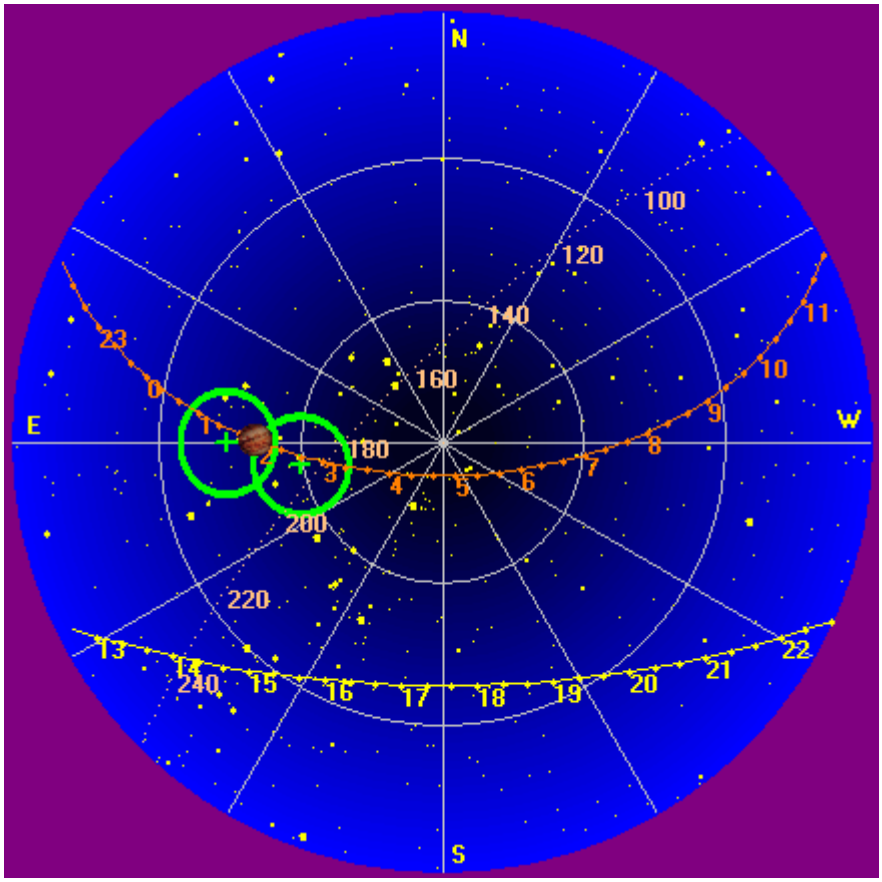
Dave

AJ4CO Observatory, 16 Jan 2014


N
E
W
S
100
120
140
160
180
200
220
240
23
0
1
2
3
4
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6
7
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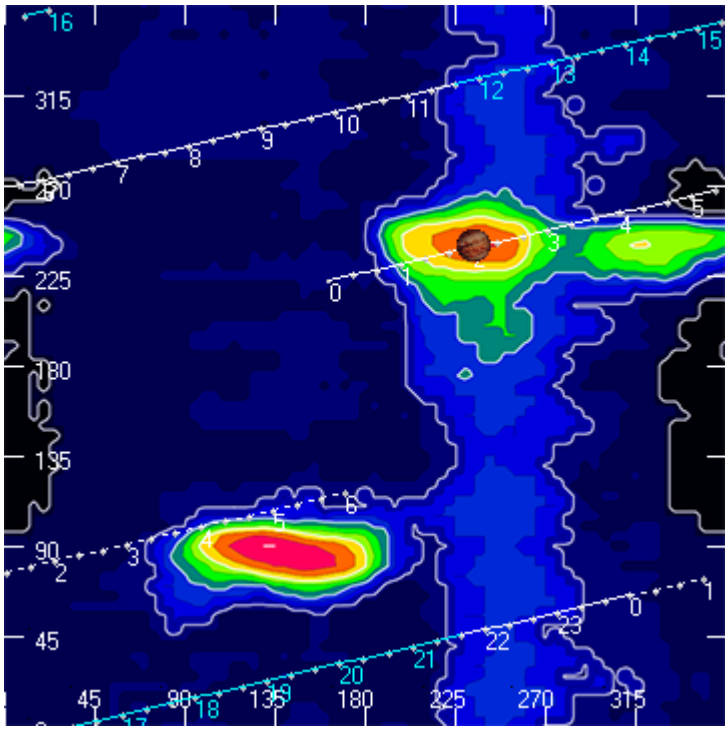
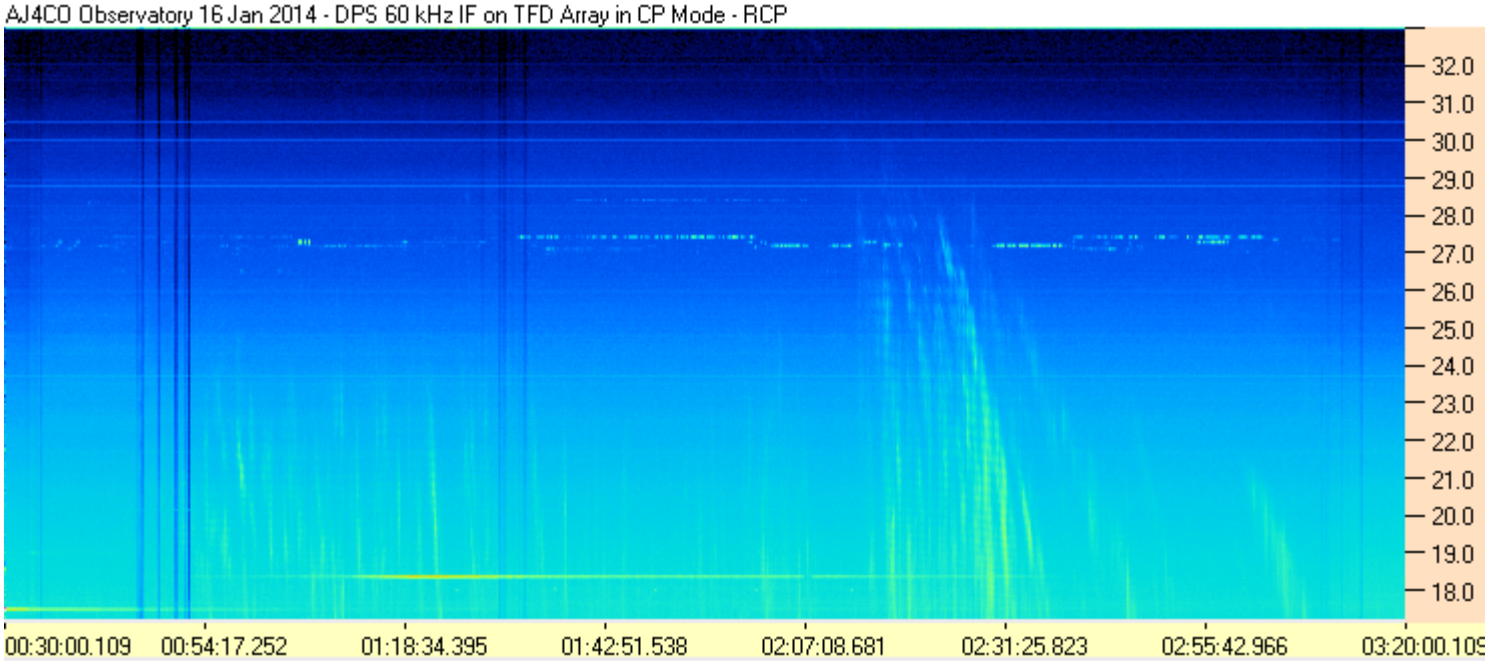
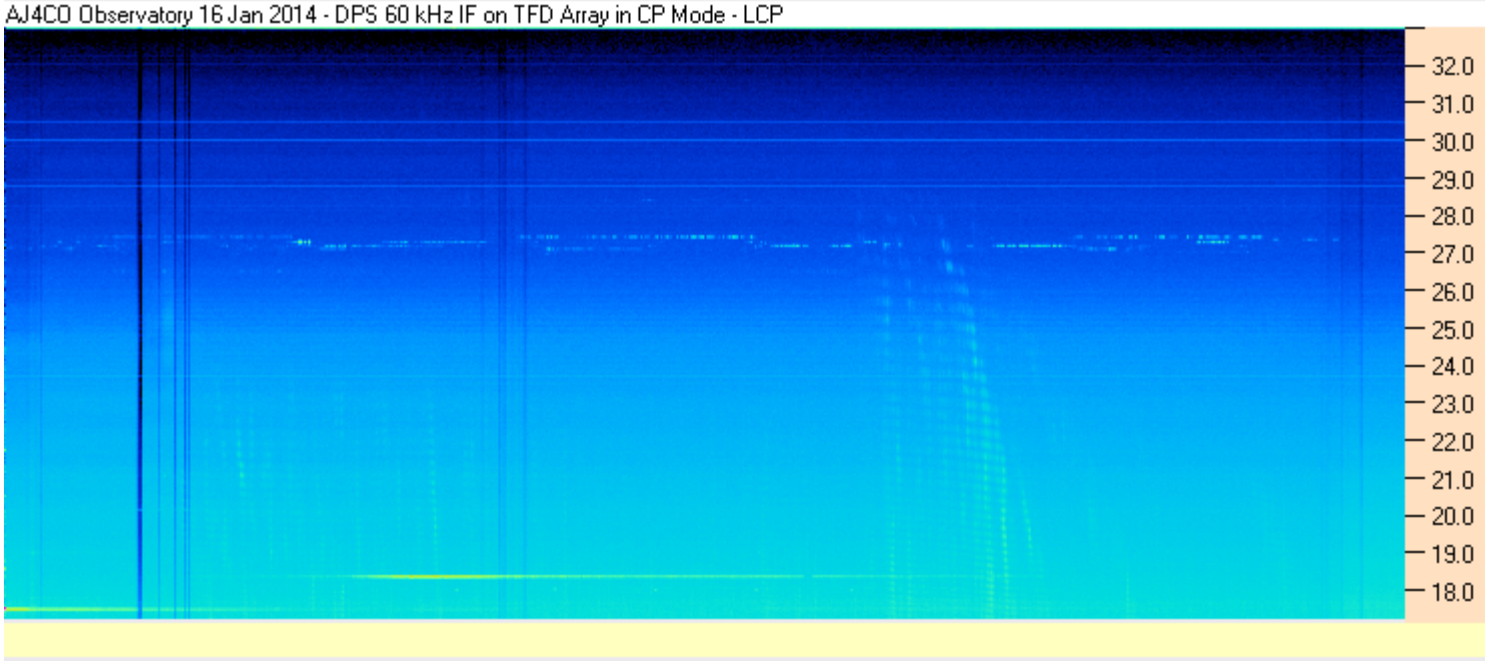
11
13
14
15
16
17
18
19
20
21
22


16
315
225
180
135
90
45
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
18
20
21
22
23
45
90
135
180
225
270
315

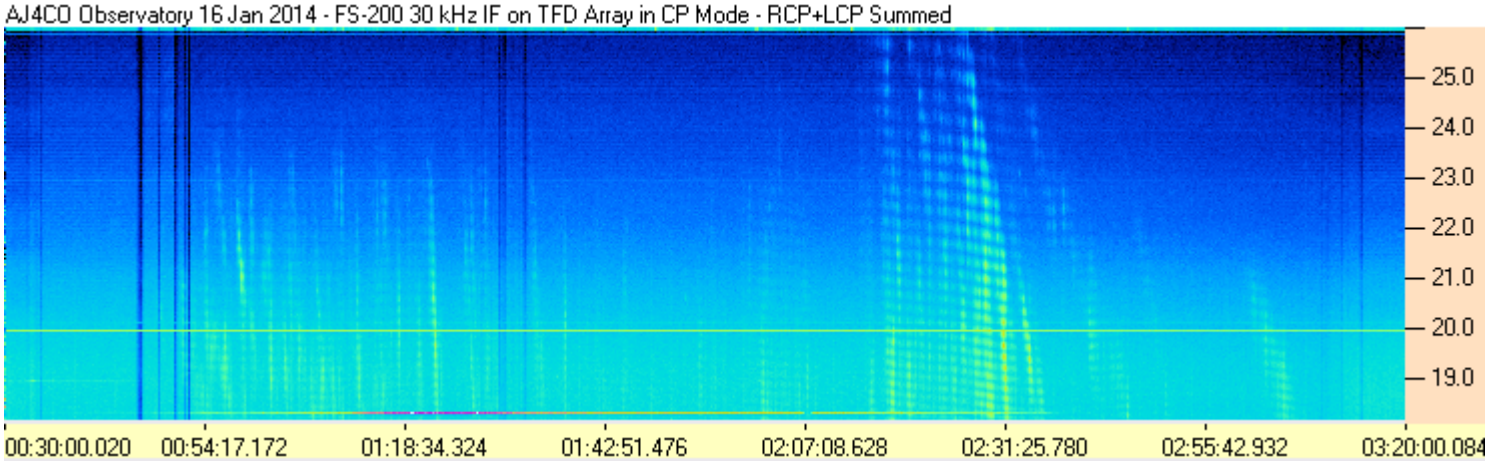
AJ4CO Observatory 16 Jan 2014 - DPS 60 kHz IF on TFD Array in CP Mode - RCP

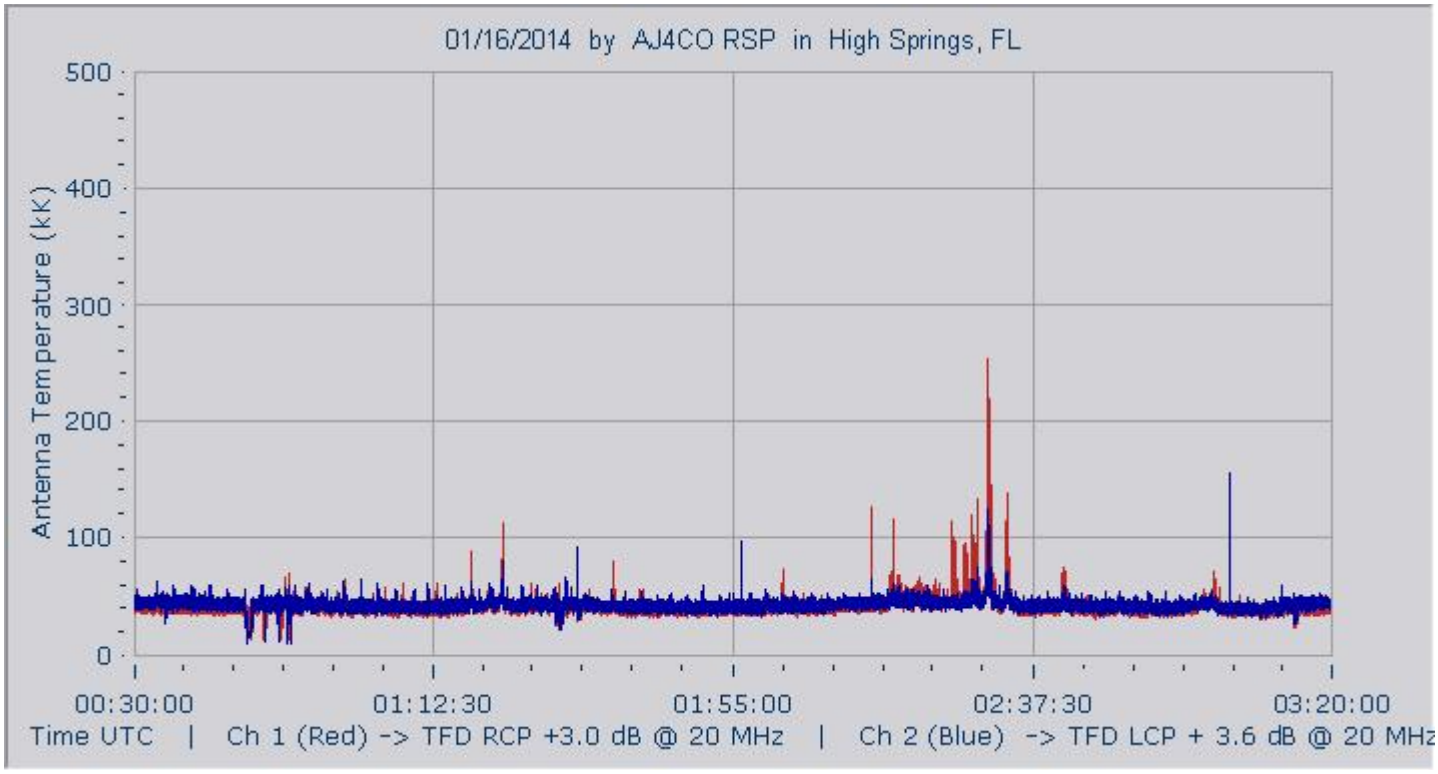


AJ4CO Observatory 16 Jan 2014 - DPS 60 kHz IF on TFD Array in CP Mode - LCP



AJ4CO Observatory 16 Jan 2014 - FS-200 30 kHz IF on TFD Array in CP Mode - RCP+LCP Summed




01/16/2014 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
500
400
300
200
100
0
00:30:00
01:12:30
01:55:00
02:37:30
03:20:00
Time UTC | Ch 1 (Red) -> TFD RCP +3.0 dB @ 20 MHz | Ch 2 (Blue) -> TFD LCP + 3.6 dB @ 20 MHz

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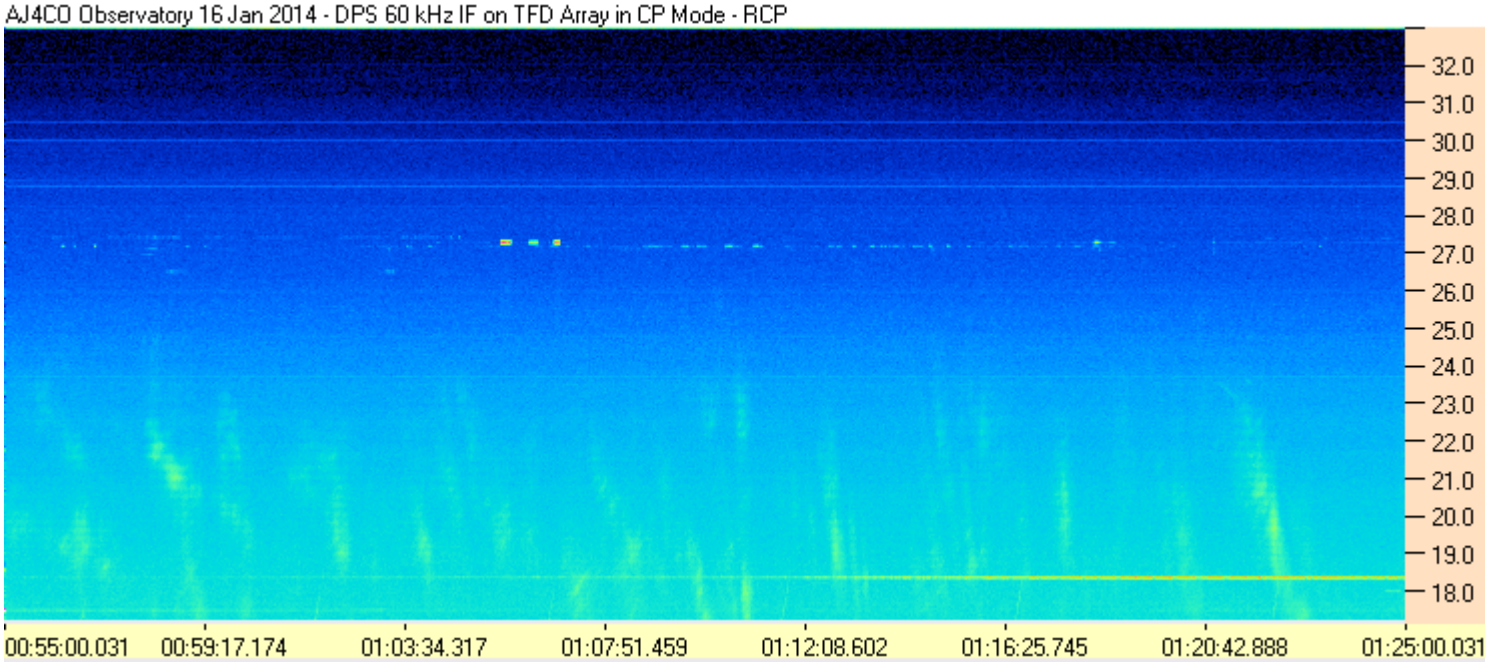
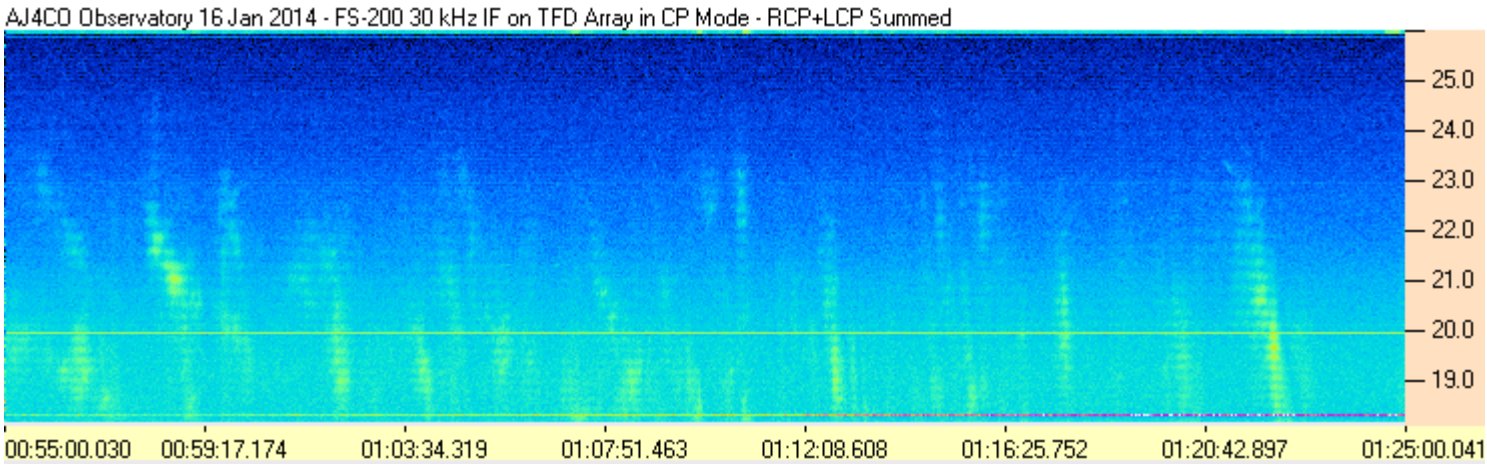
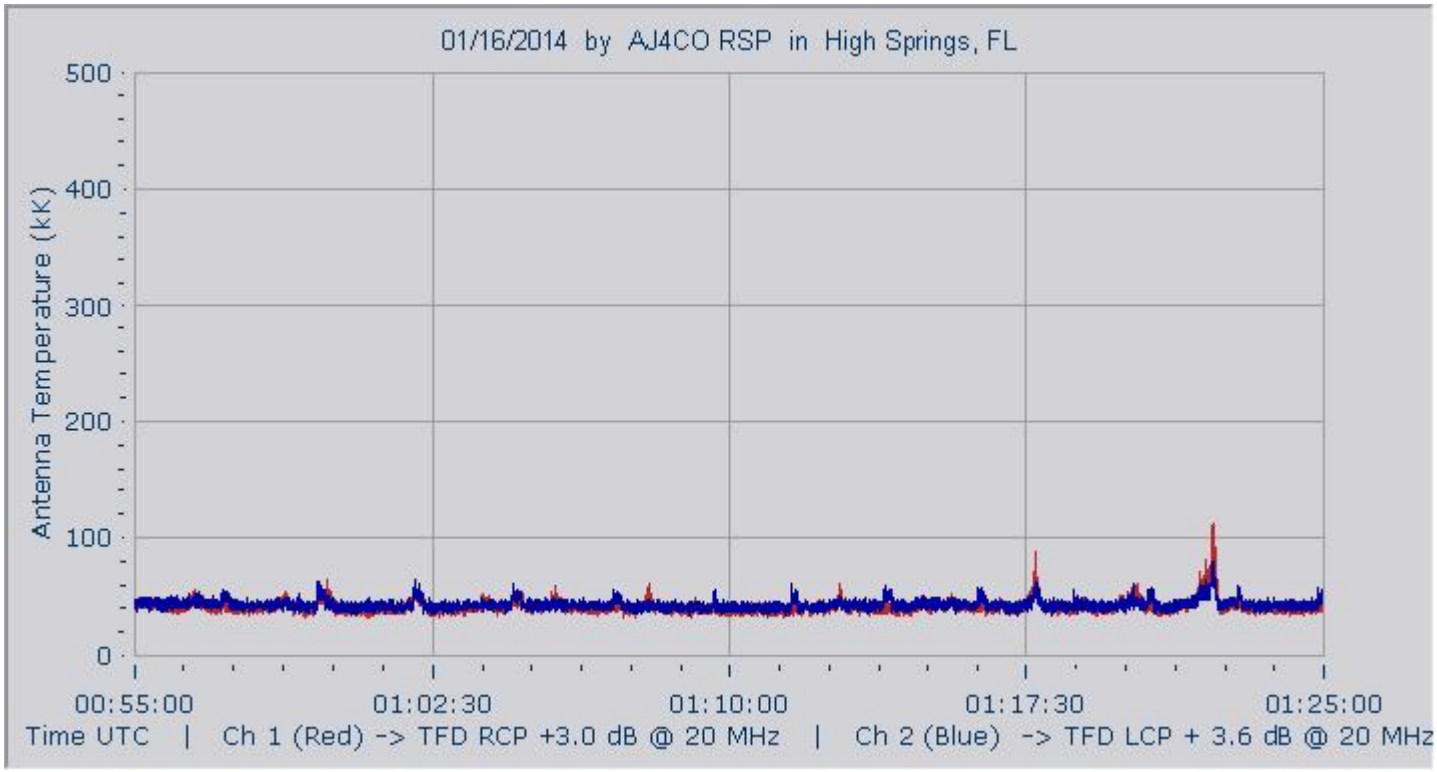
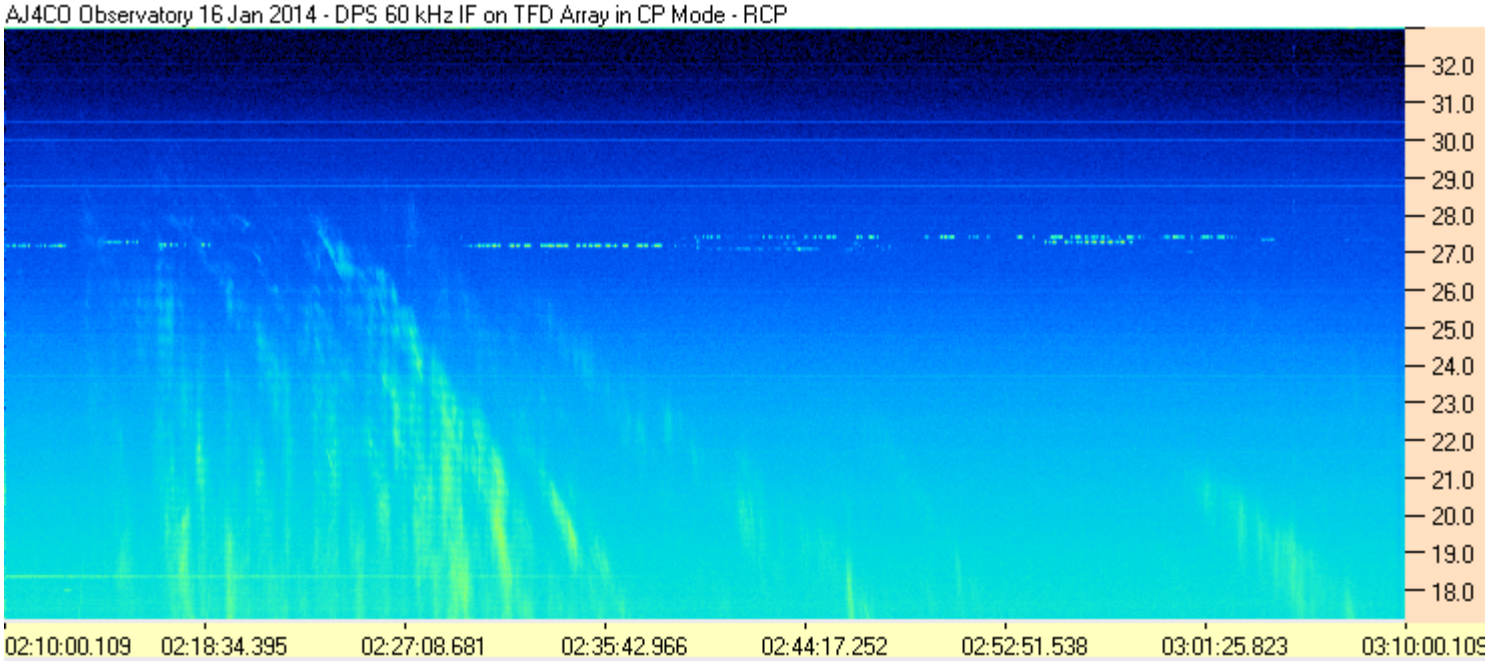

AJ4CO Observatory 16 Jan 2014 - DPS 60 kHz IF on TFD Array in CP Mode - RCP
32.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
00:55:00.031
00:59:17.174
01:03:34.317
01:07:51.459
01:12:08.602
01:16:25.745
01:20:42.888
01:25:00.031

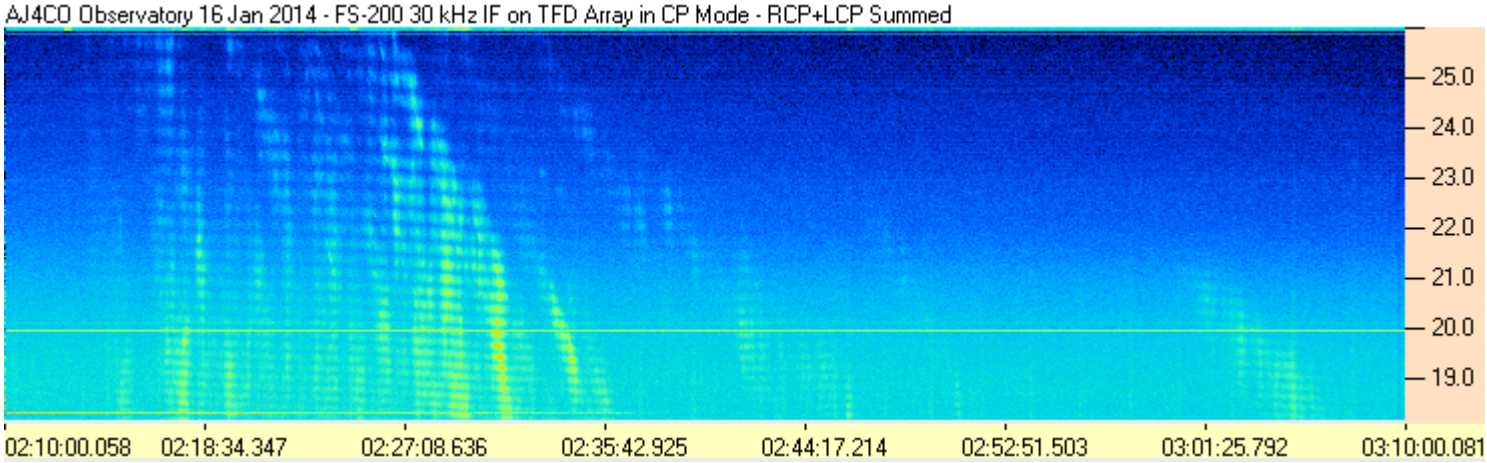

AJ4CO Observatory 16 Jan 2014 - FS-200 30 kHz IF on TFD Array in CP Mode - RCP+LCP Summed
25.0
24.0
23.0
22.0
21.0
20.0
19.0
00:55:00.030
00:59:17.174
01:03:34.319
01:07:51.463
01:12:08.608
01:16:25.752
01:20:42.897
01:25:00.041

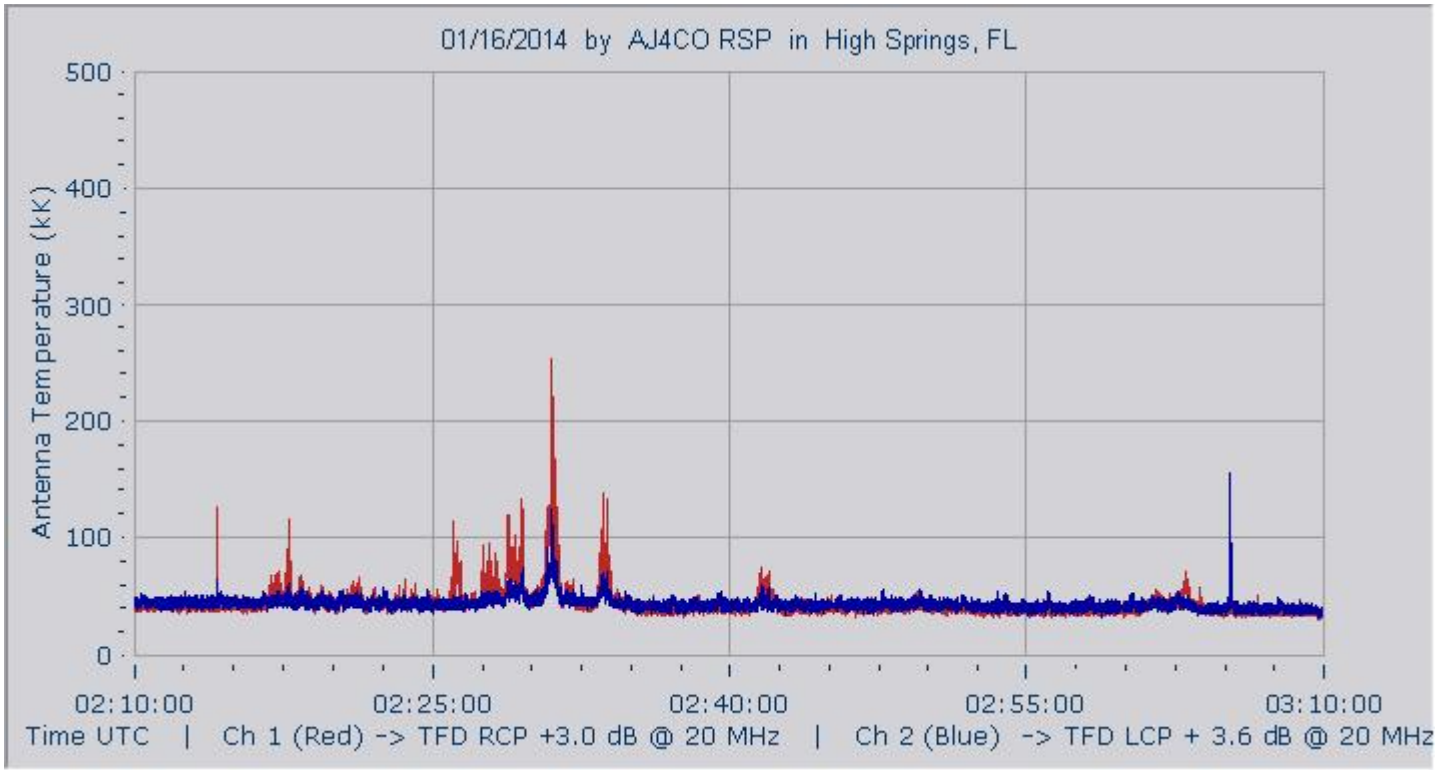

01/16/2014 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
500
400
300
200
100
0
00:55:00
01:02:30
01:10:00
01:17:30
01:25:00
Time UTC | Ch 1 (Red) -> TFD RCP +3.0 dB @ 20 MHz | Ch 2 (Blue) -> TFD LCP + 3.6 dB @ 20 MHz

AJ4CO Observatory 16 Jan 2014 - DPS 60 kHz IF on TFD Array in CP Mode - RCP



AJ4CO Observatory 16 Jan 2014 - FS-200 30 kHz IF on TFD Array in CP Mode - RCP+LCP Summed




01/16/2014 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
500
400
300
200
100
0
02:10:00
02:25:00
02:40:00
02:55:00
03:10:00
Time UTC | Ch 1 (Red) -> TFD RCP +3.0 dB @ 20 MHz | Ch 2 (Blue) -> TFD LCP + 3.6 dB @ 20 MHz

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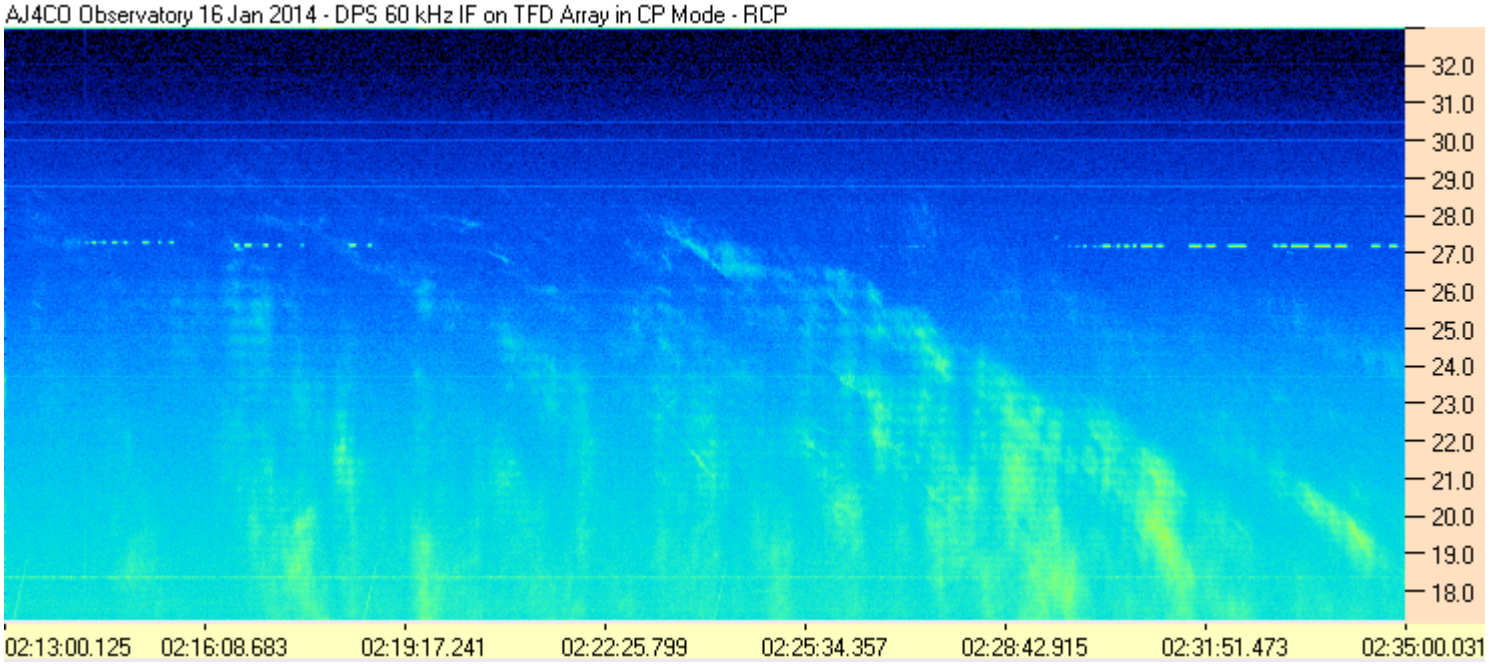
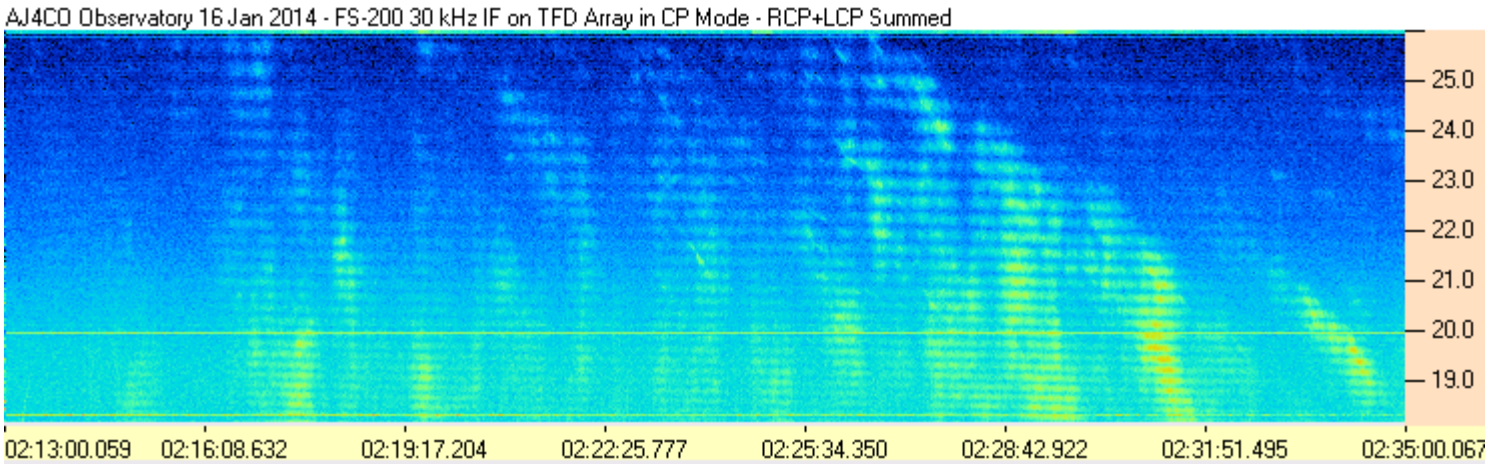
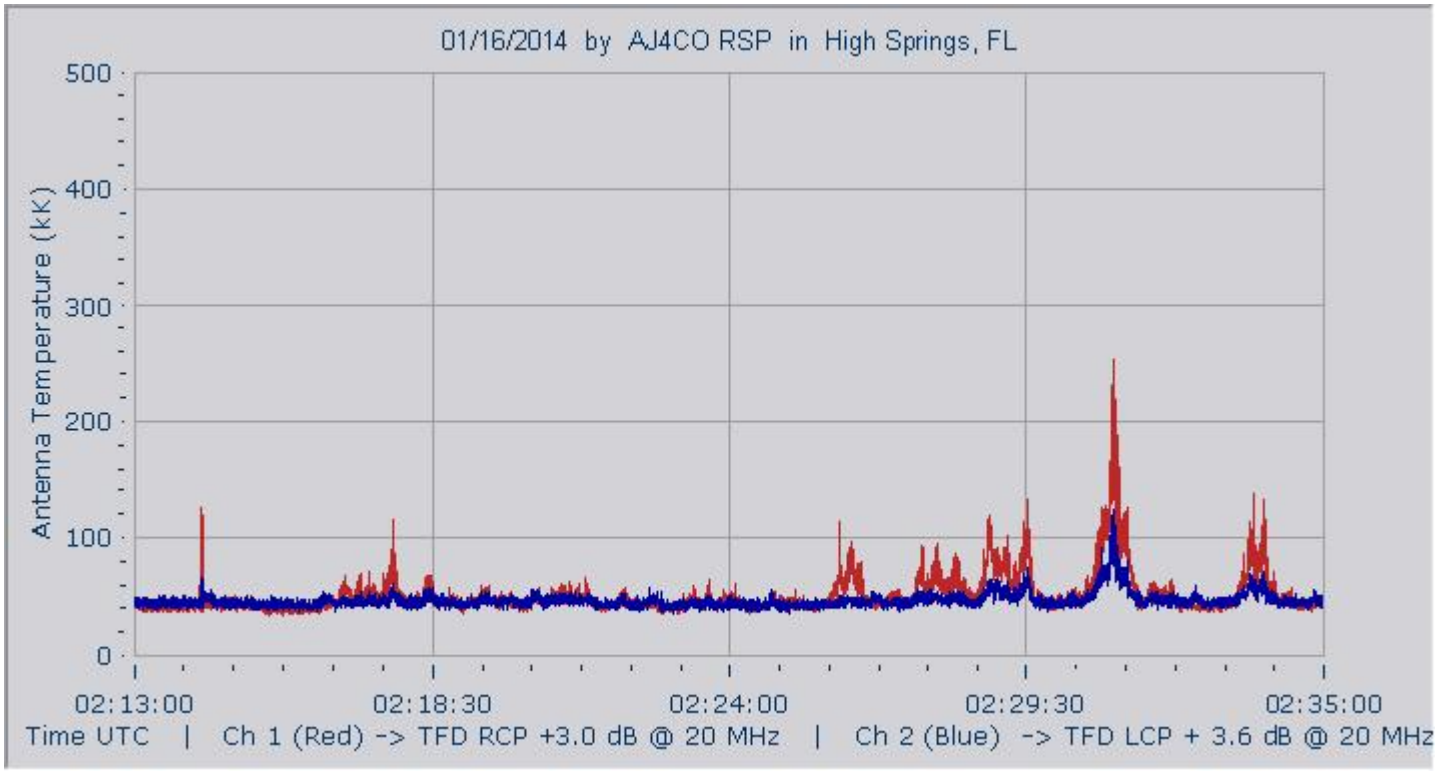

AJ4CO Observatory 16 Jan 2014 - DPS 60 kHz IF on TFD Array in CP Mode - RCP
32.0
31.0
30.0
29.0
28.0
27.0
26.0
25.0
24.0
23.0
22.0
21.0
20.0
19.0
18.0
02:13:00.125
02:16:08.683
02:19:17.241
02:22:25.799
02:25:34.357
02:28:42.915
02:31:51.473
02:35:00.031


AJ4CO Observatory 16 Jan 2014 - FS-200 30 kHz IF on TFD Array in CP Mode - RCP+LCP Summed
25.0
24.0
23.0
22.0
21.0
20.0
19.0
02:13:00.059
02:16:08.632
02:19:17.204
02:22:25.777
02:25:34.350
02:28:42.922
02:31:51.495
02:35:00.067


01/16/2014 by AJ4CO RSP in High Springs, FL
Antenna Temperature (kK)
500
400
300
200
100
0
02:13:00
02:18:30
02:24:00
02:29:30
02:35:00
Time UTC | Ch 1 (Red) -> TFD RCP +3.0 dB @ 20 MHz | Ch 2 (Blue) -> TFD LCP + 3.6 dB @ 20 MHz