

Subject: [radiojove-data] 19 Dec 2014 Io-B
From: Dave Typinski <davetyp@typnet.net>
Date: 12/20/2014 21:40
To: RadioJove-Data <radiojove-data@lists.nasa.gov>

Adding to Jim, Tom, Wes, and Mia's nice reports, here's more of the Io-B from Friday morning.

This was a very nice, long, strong Io-B storm.

RCP dominant L bursting from 16 to 32 MHz. Modulation lanes visible, both positive and negative drift rates at -80 and +105 kHz/s. Positive curvature in the positive drift modulation lanes visible ca 1046 UTC.

RCP dominant S bursting from 16 to 32 MHz from 1009 to 1135 UTC. TWB high speed data analysis is in work.

The LCP emission will be discussed in a different report.

The TFD array was steered 15°S and 30°W. The banding in the multi-hour spectrogram shows up any time the beam is steered. I think this is due to asymmetry in the TFD element pattern. This is also why the beam indicator in the RJP sky map isn't a full 30° west -- the individual elements' responses effectively pull the beam a little, back toward the meridian. Both effects get worse the further the beam is steered away from zenith.

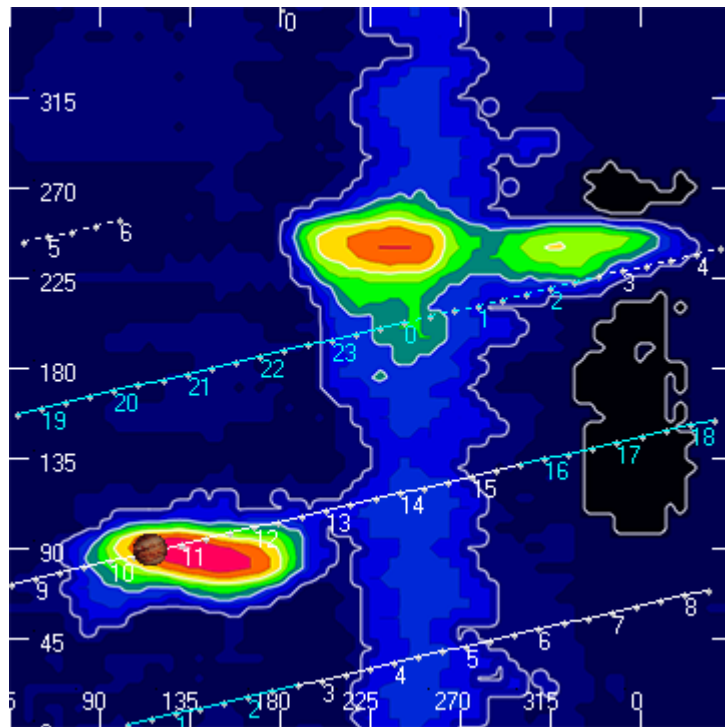
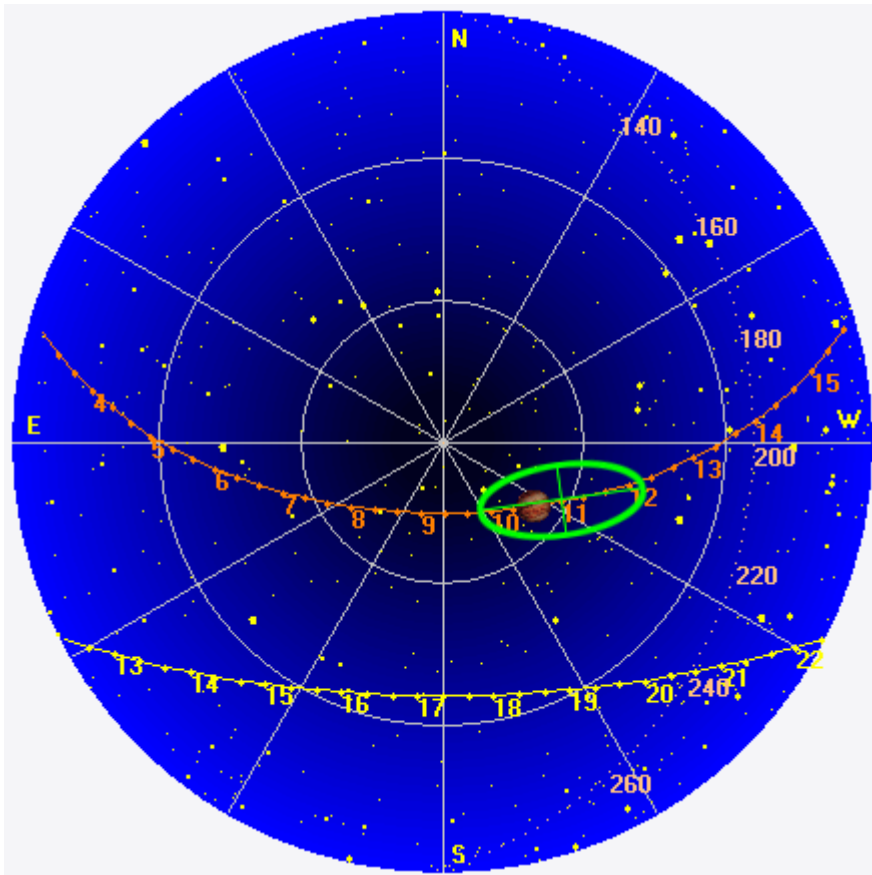
Jupiter was -39° to +19° off axis.

Jupiter was leading the Sun by 125°.

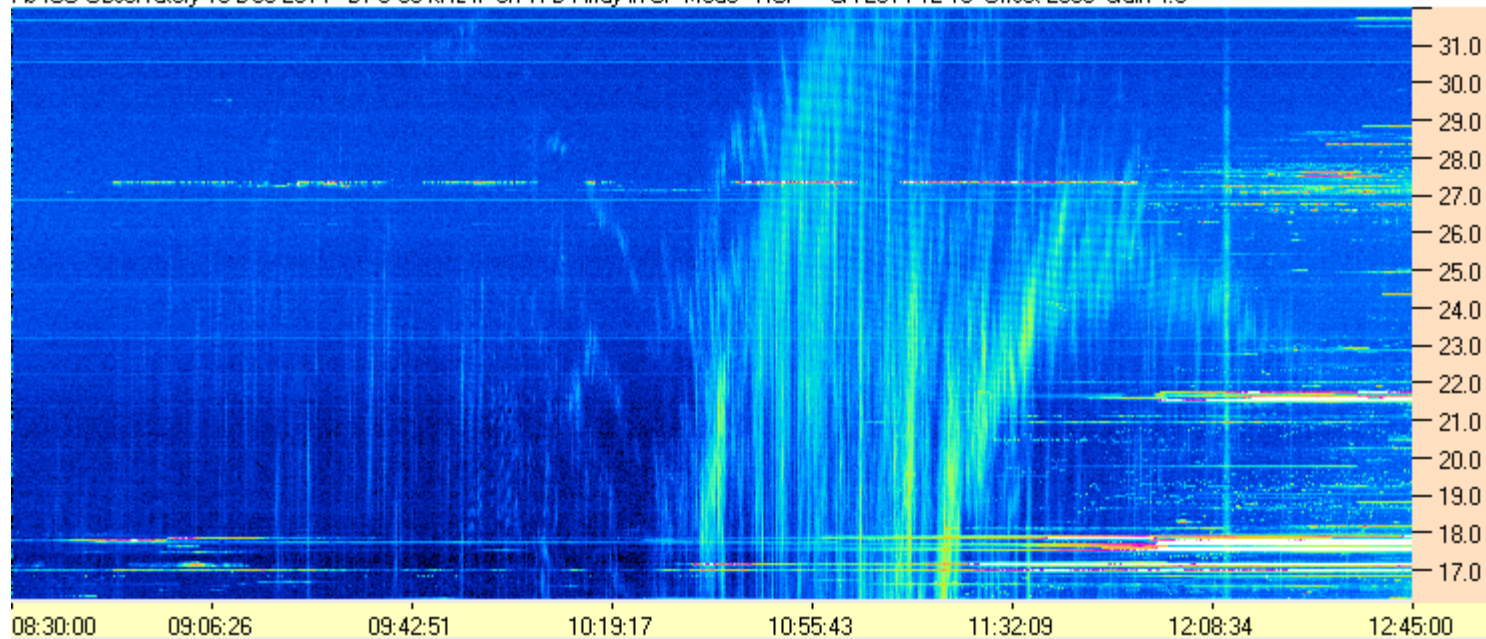
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Dave

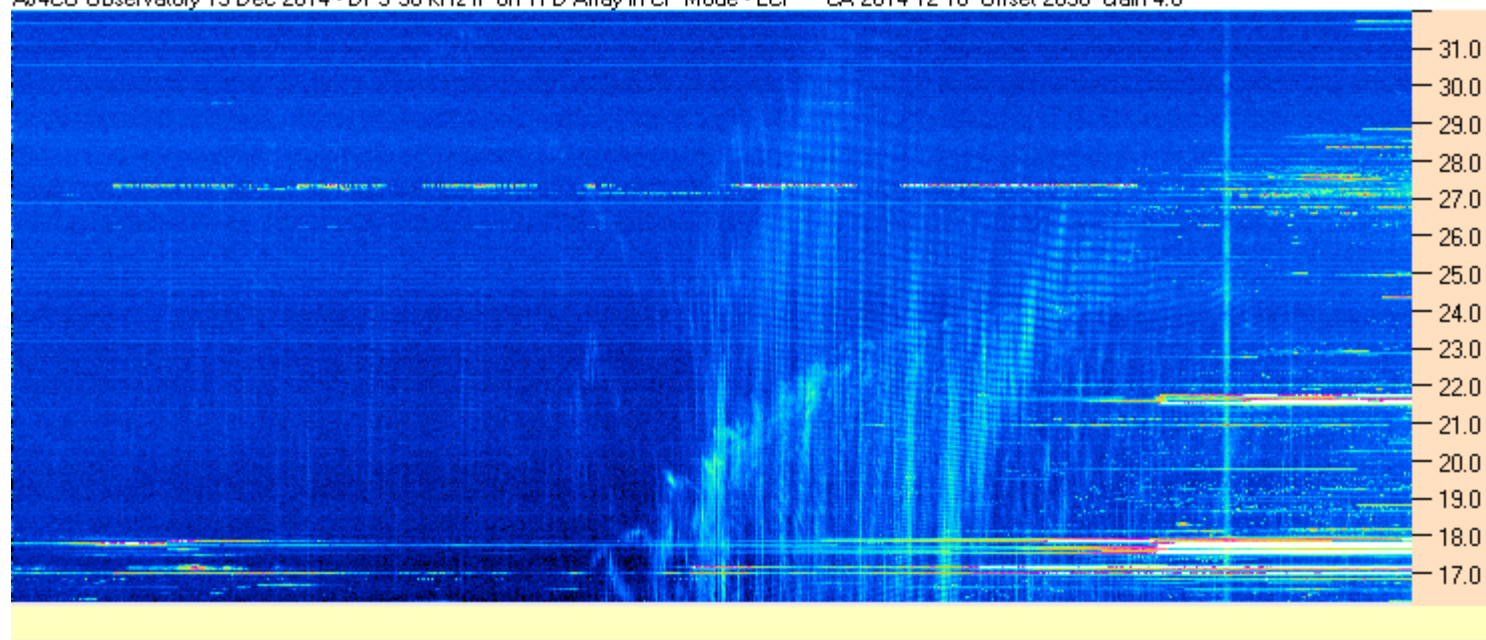
AJ4CO Observatory 19 Dec 2014, log entry 237(L), 238(S)

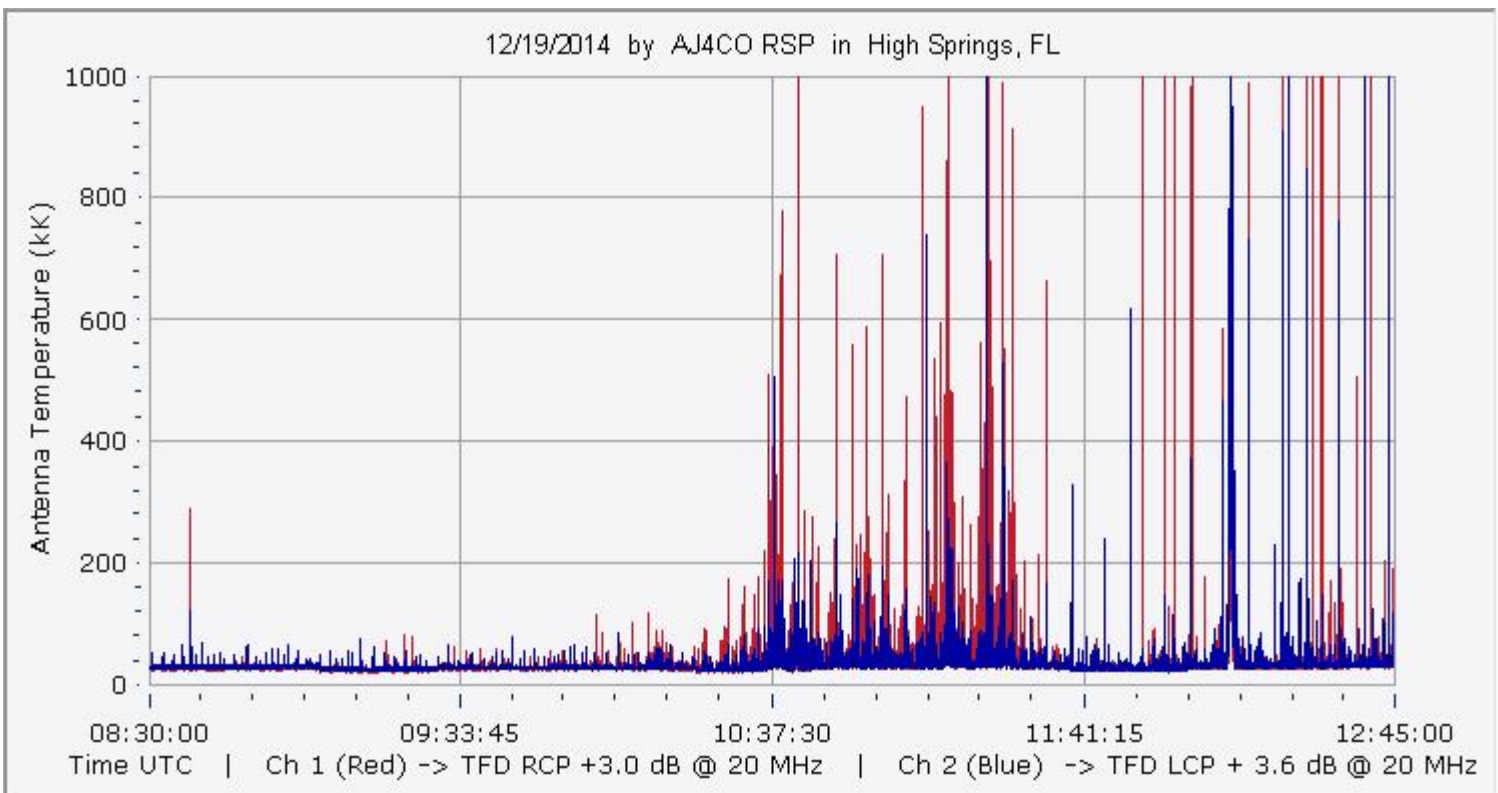


AJ4CO Observatory 19 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP CA 2014 12 18 Offset 2050 Gain 4.0

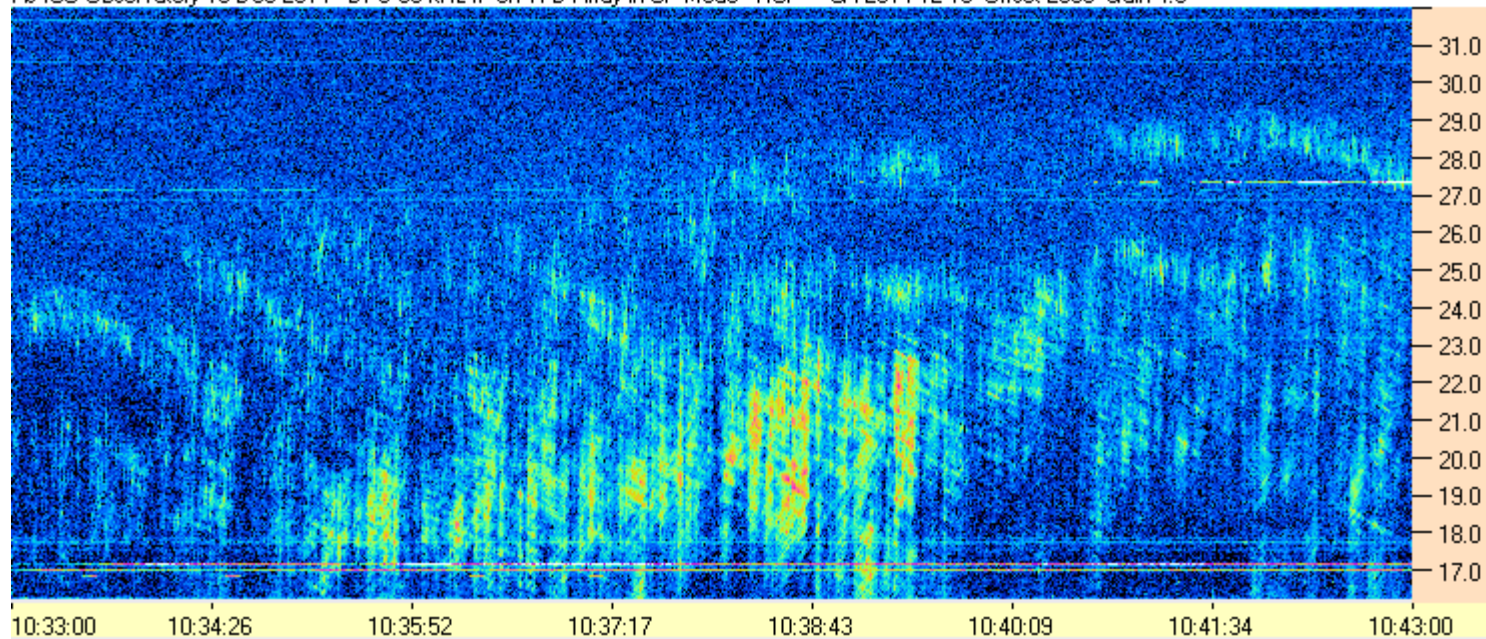


AJ4CO Observatory 19 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP CA 2014 12 18 Offset 2050 Gain 4.0

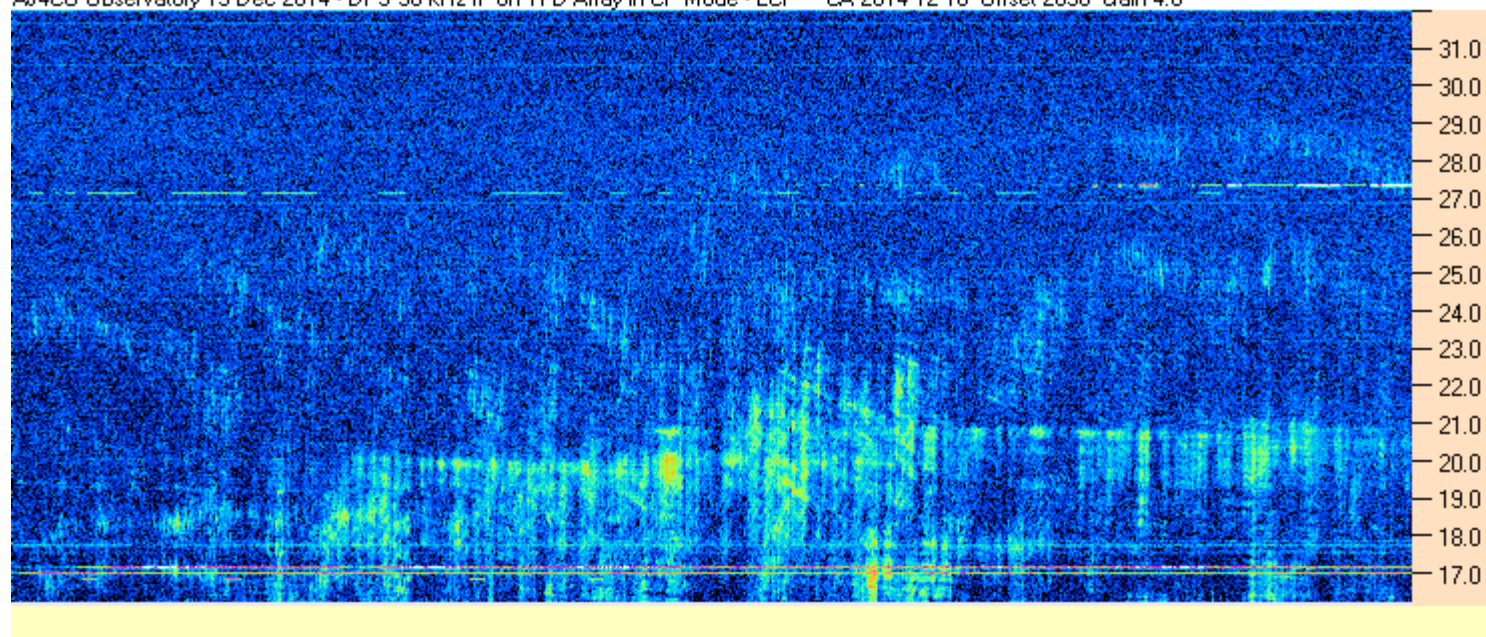


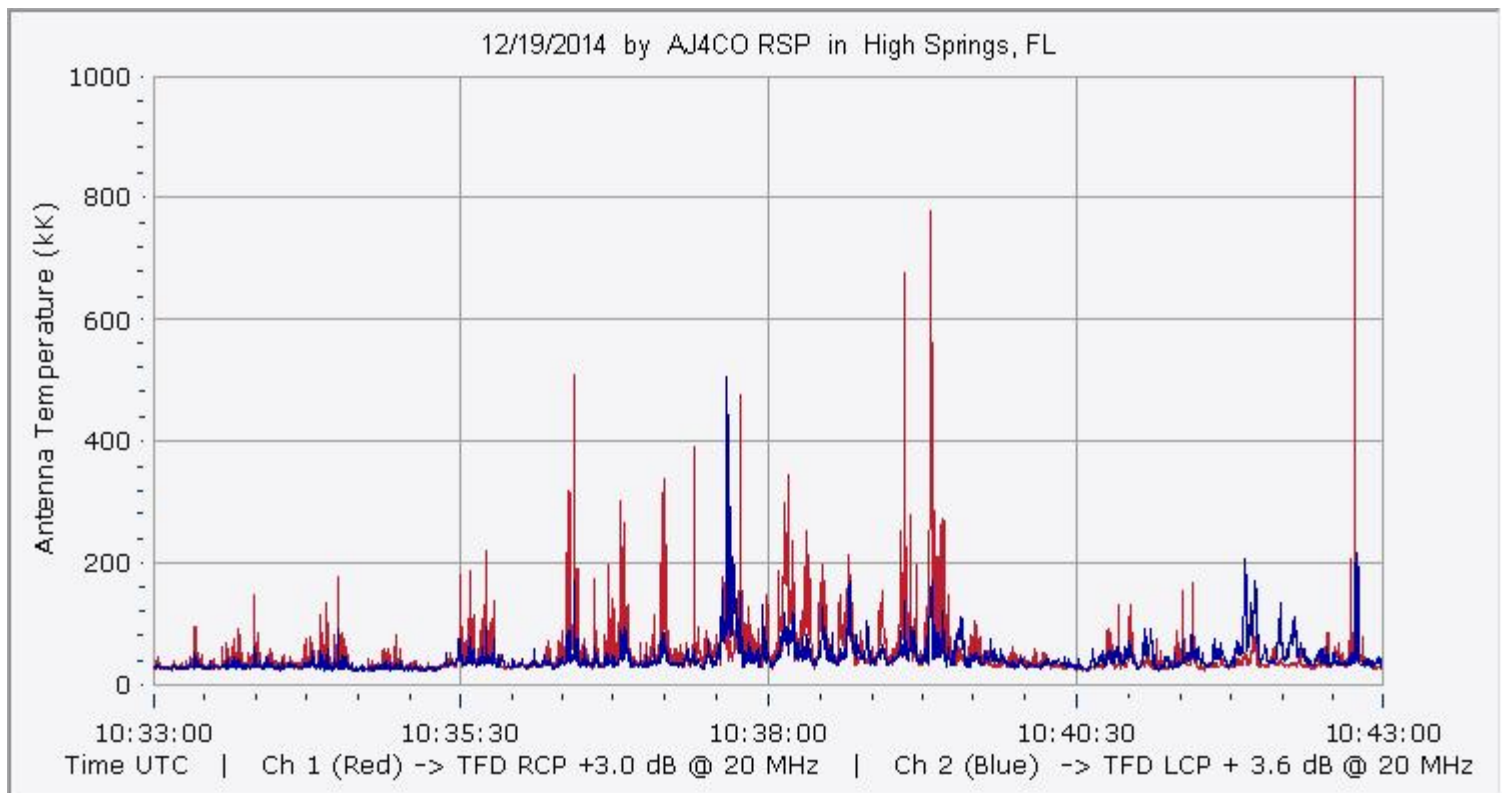


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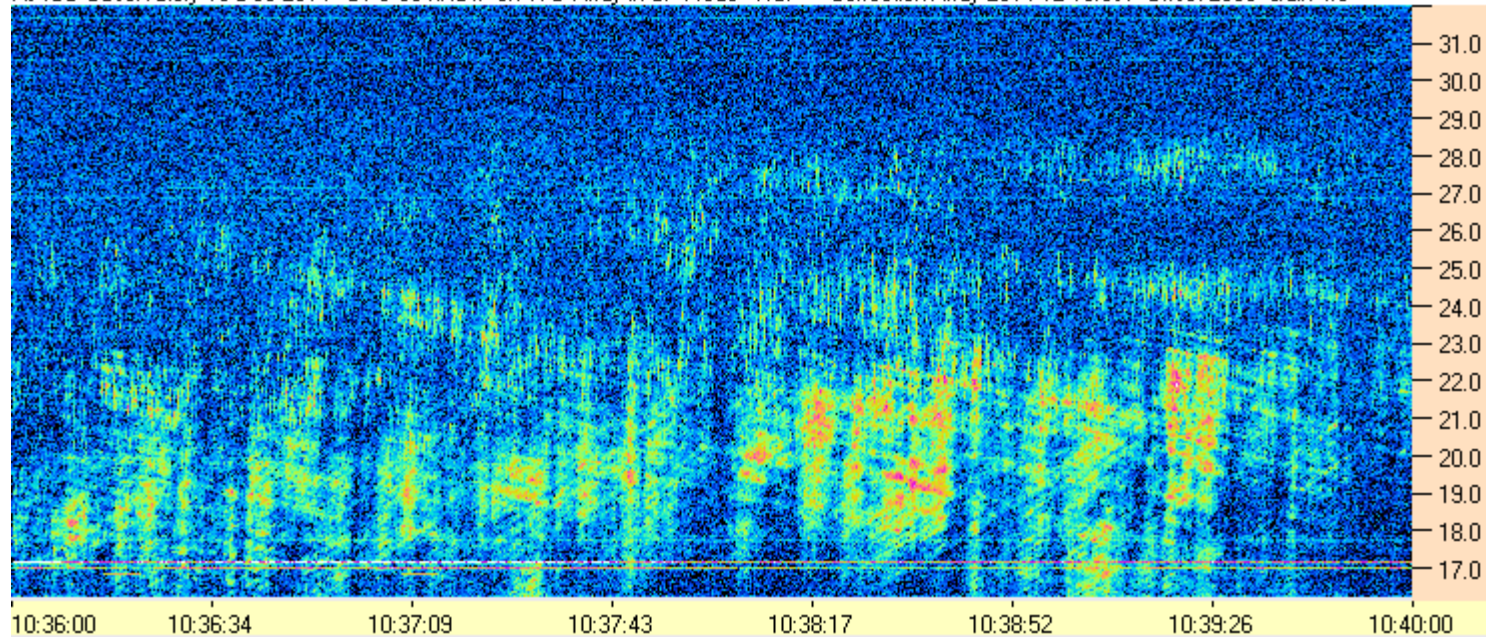


AJ4CO Observatory 19 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP CA 2014 12 18 Offset 2050 Gain 4.0

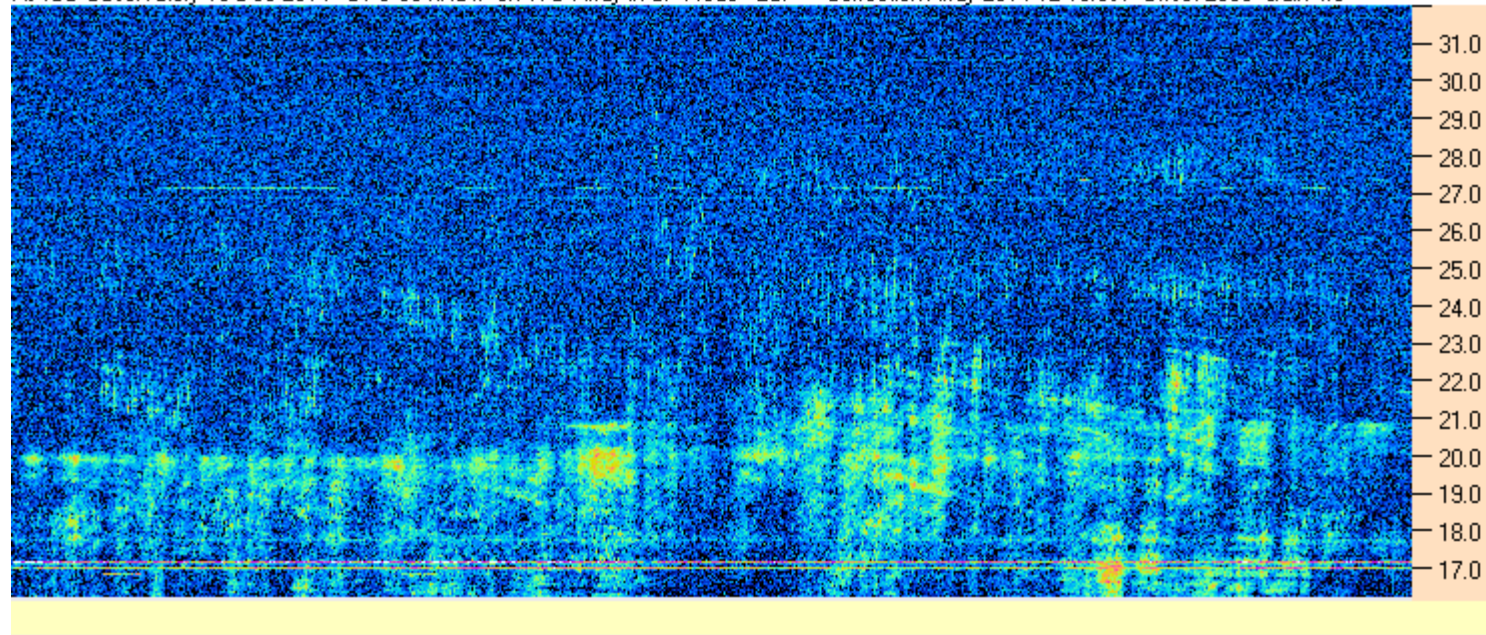


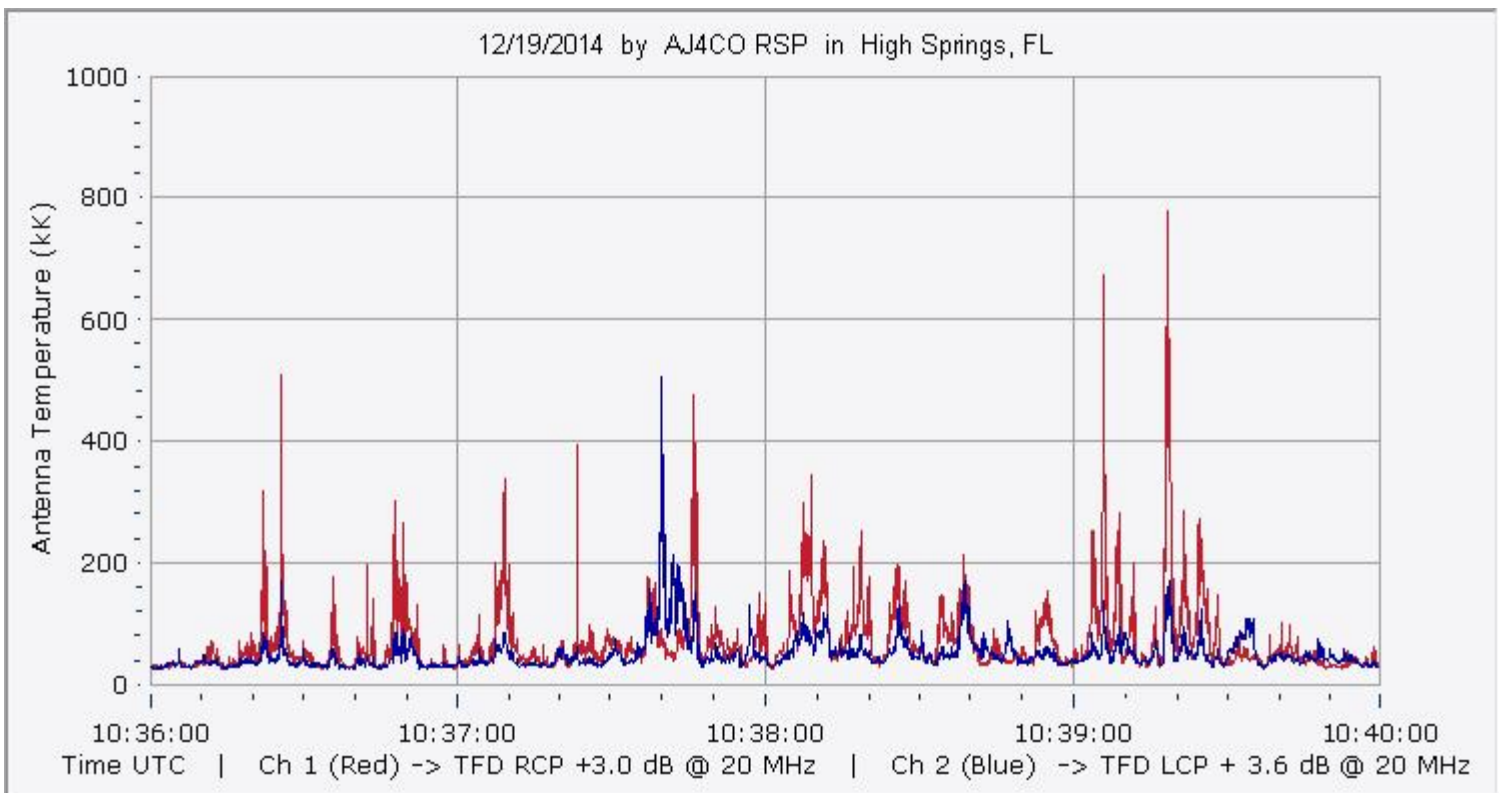


AJ4CO Observatory 19 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP Correction Array 2014 12 18.csv Offset 2050 Gain 4.0

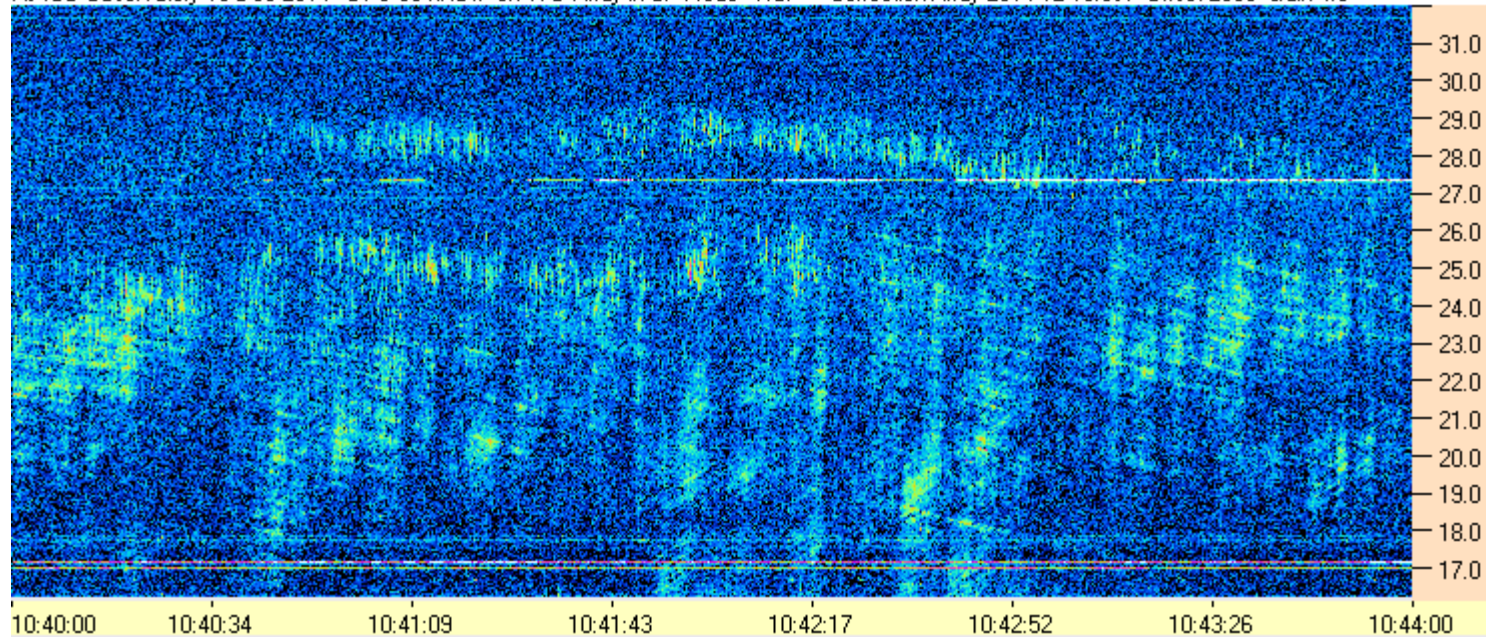


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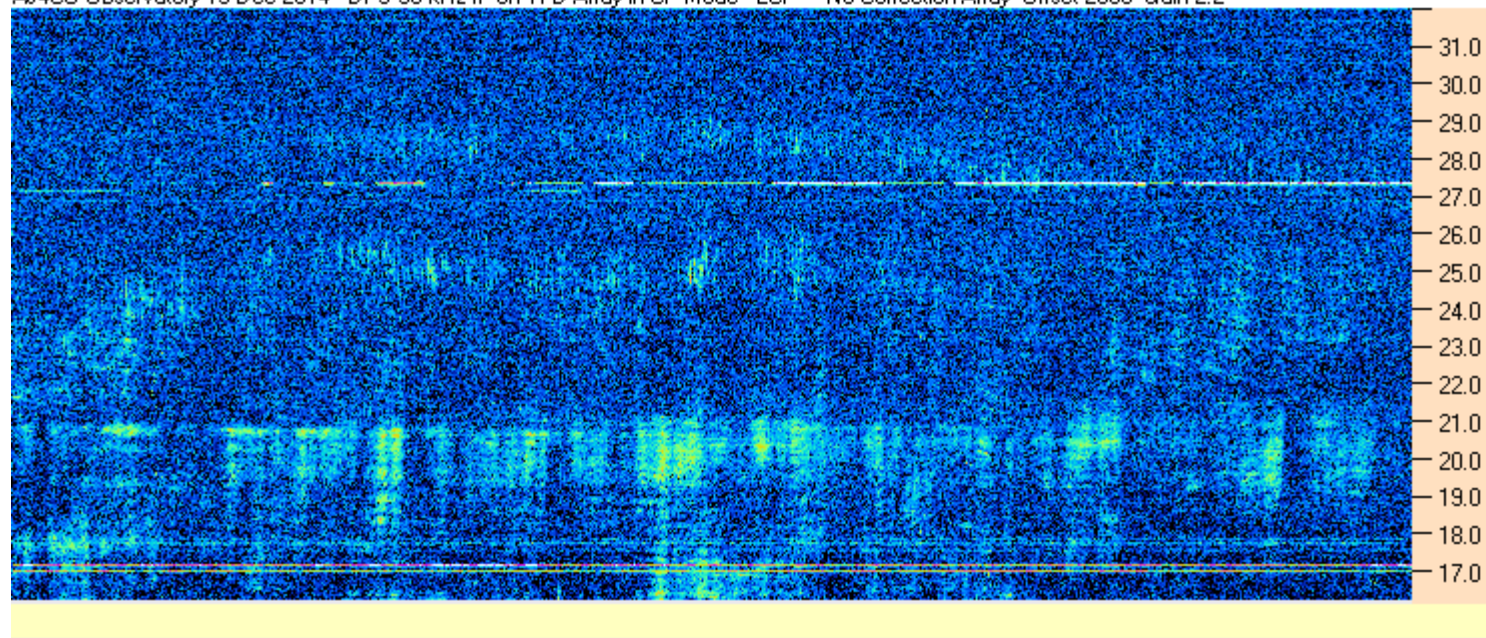


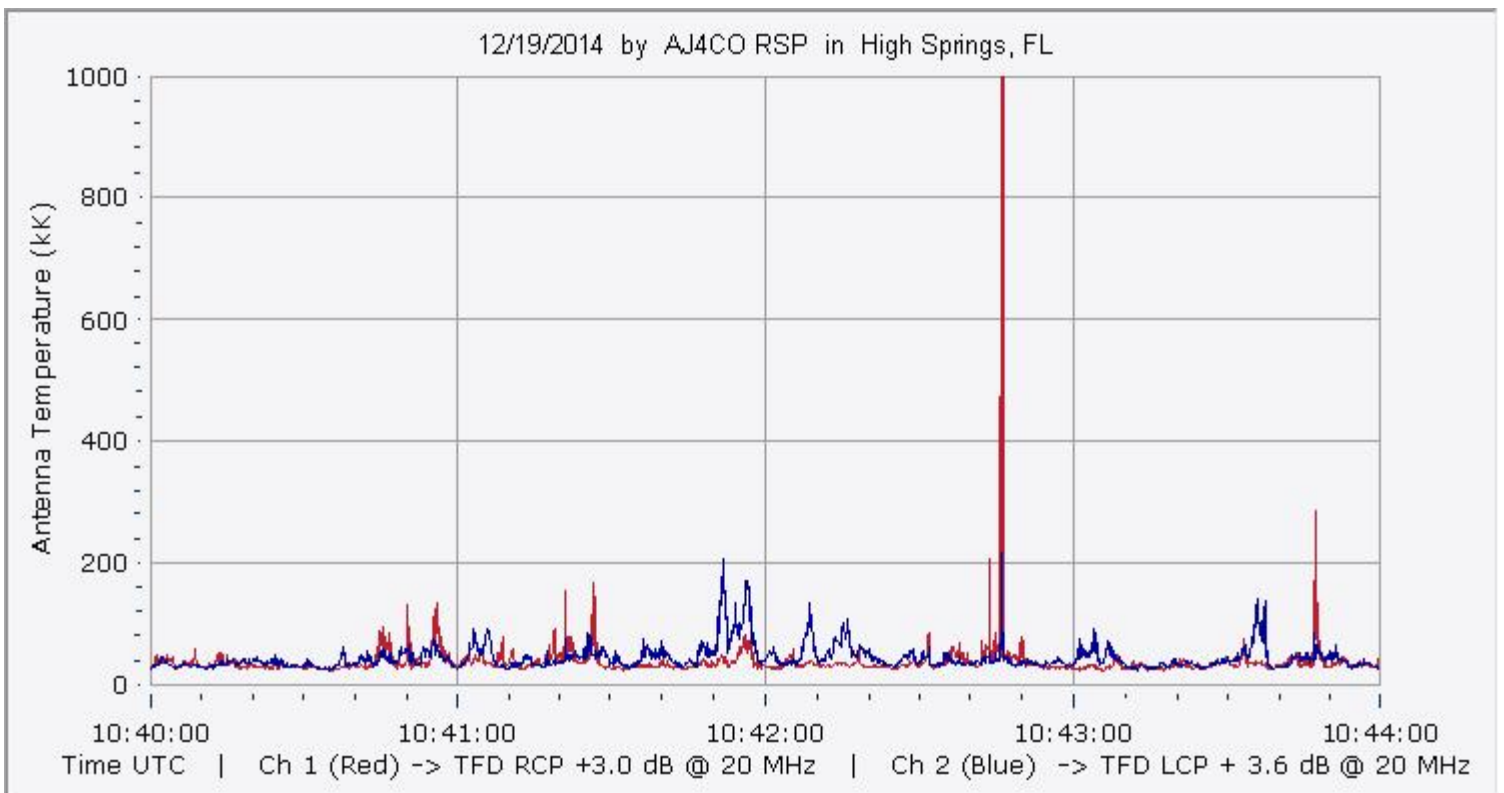


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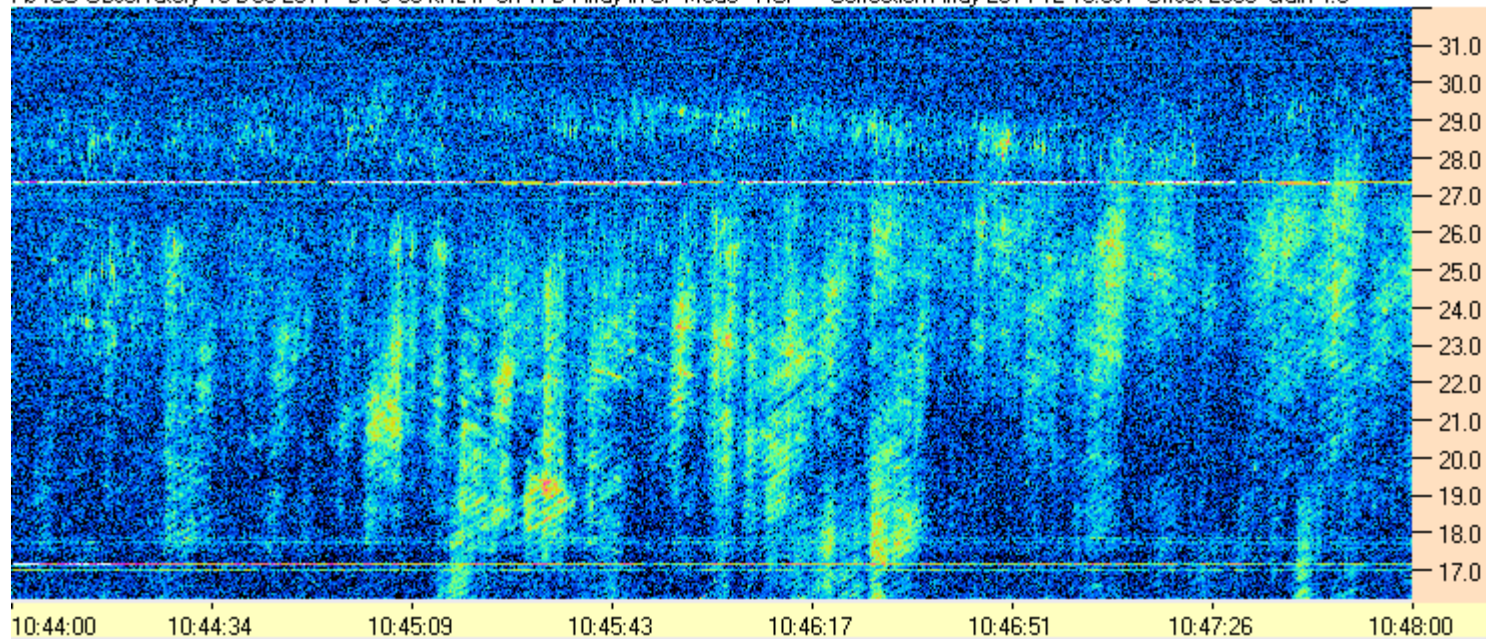


AJ4CO Observatory 19 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP No Correction Array Offset 2000 Gain 2.2

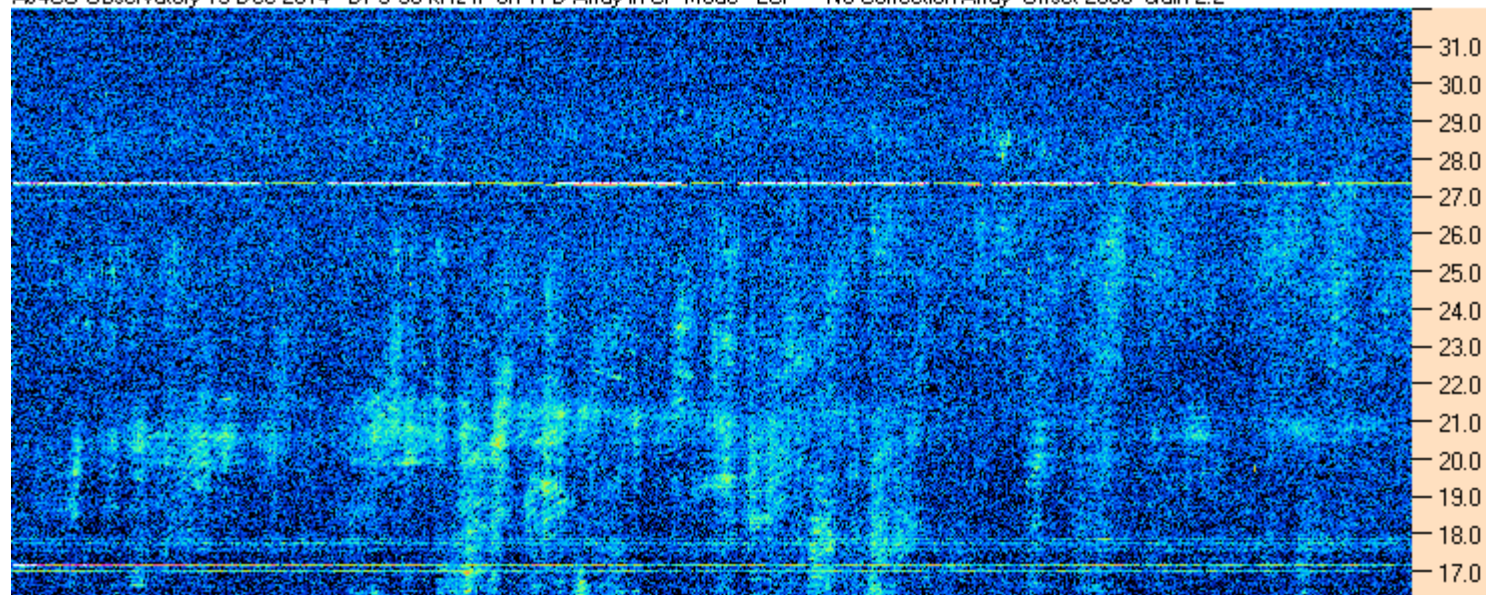


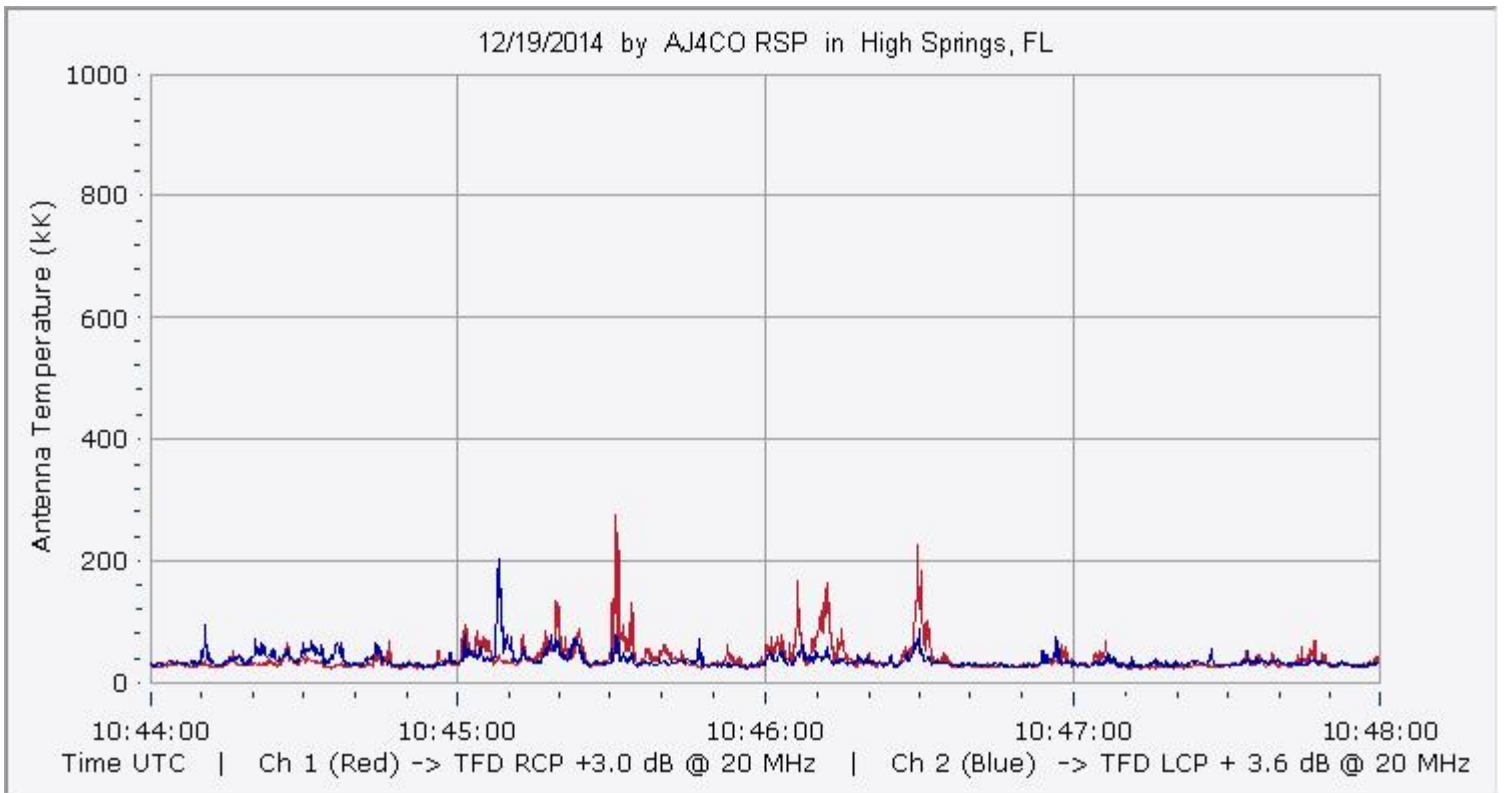


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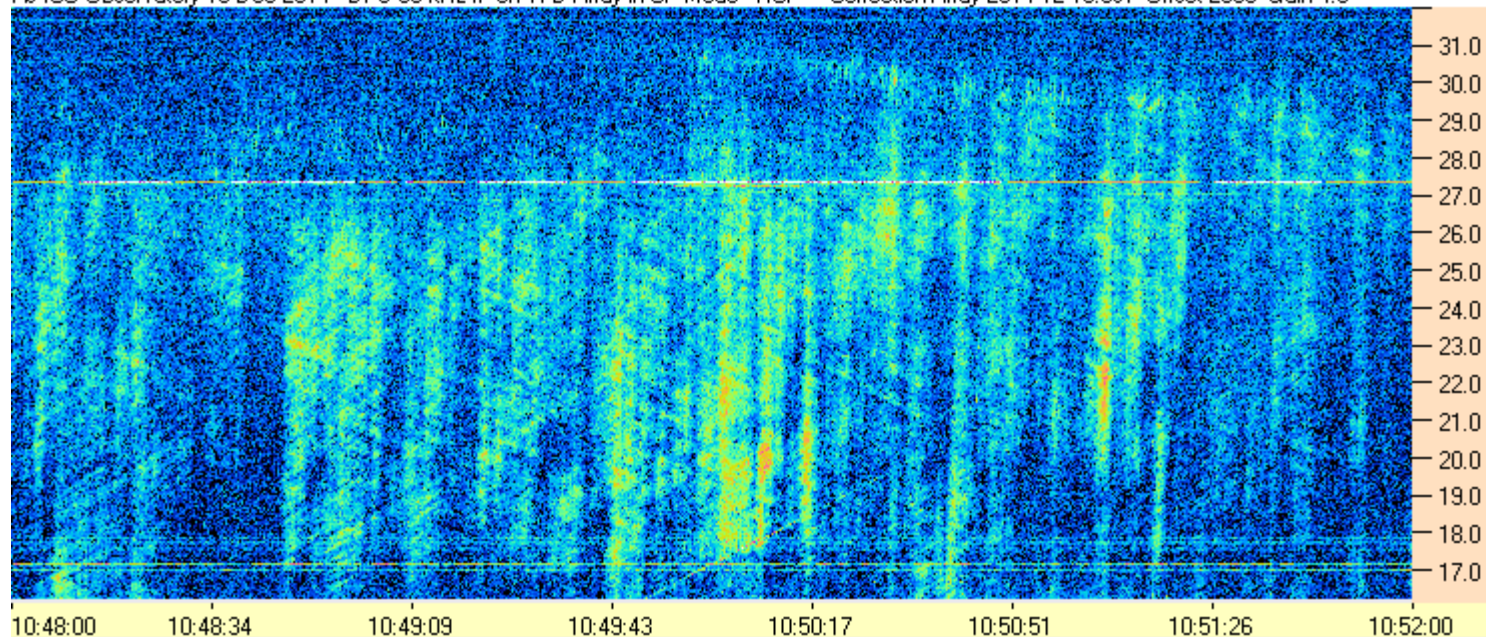


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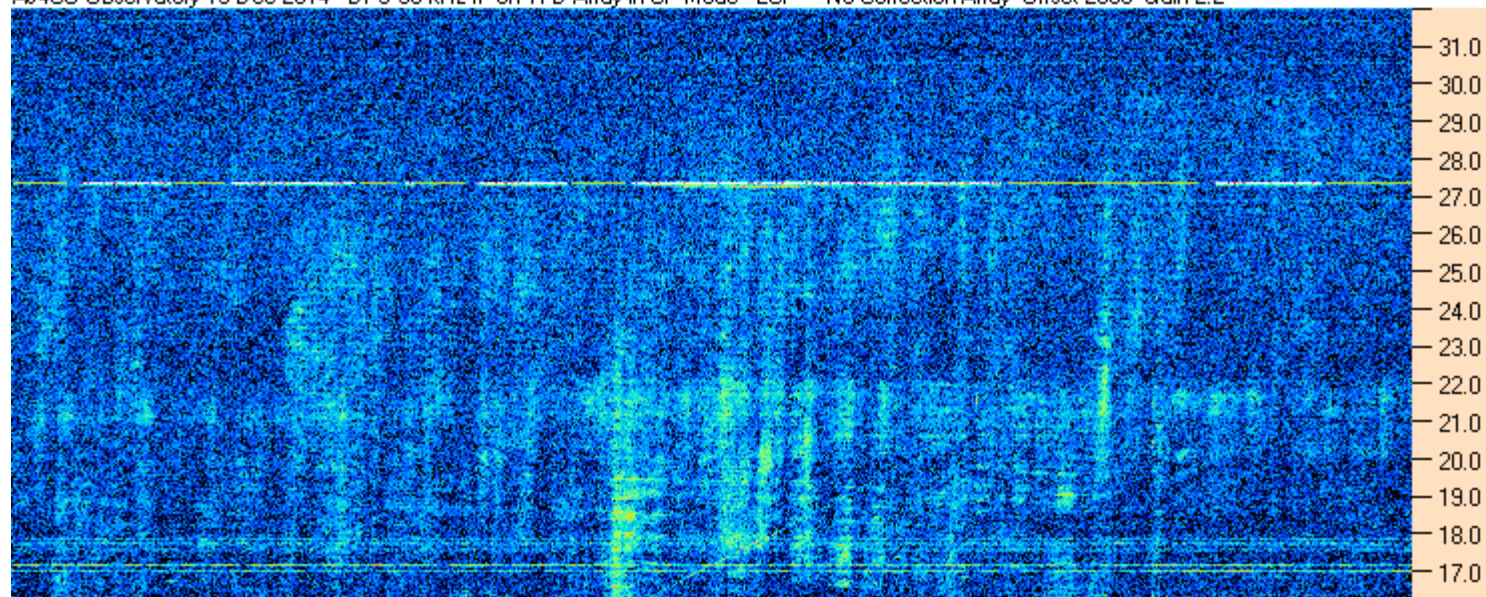


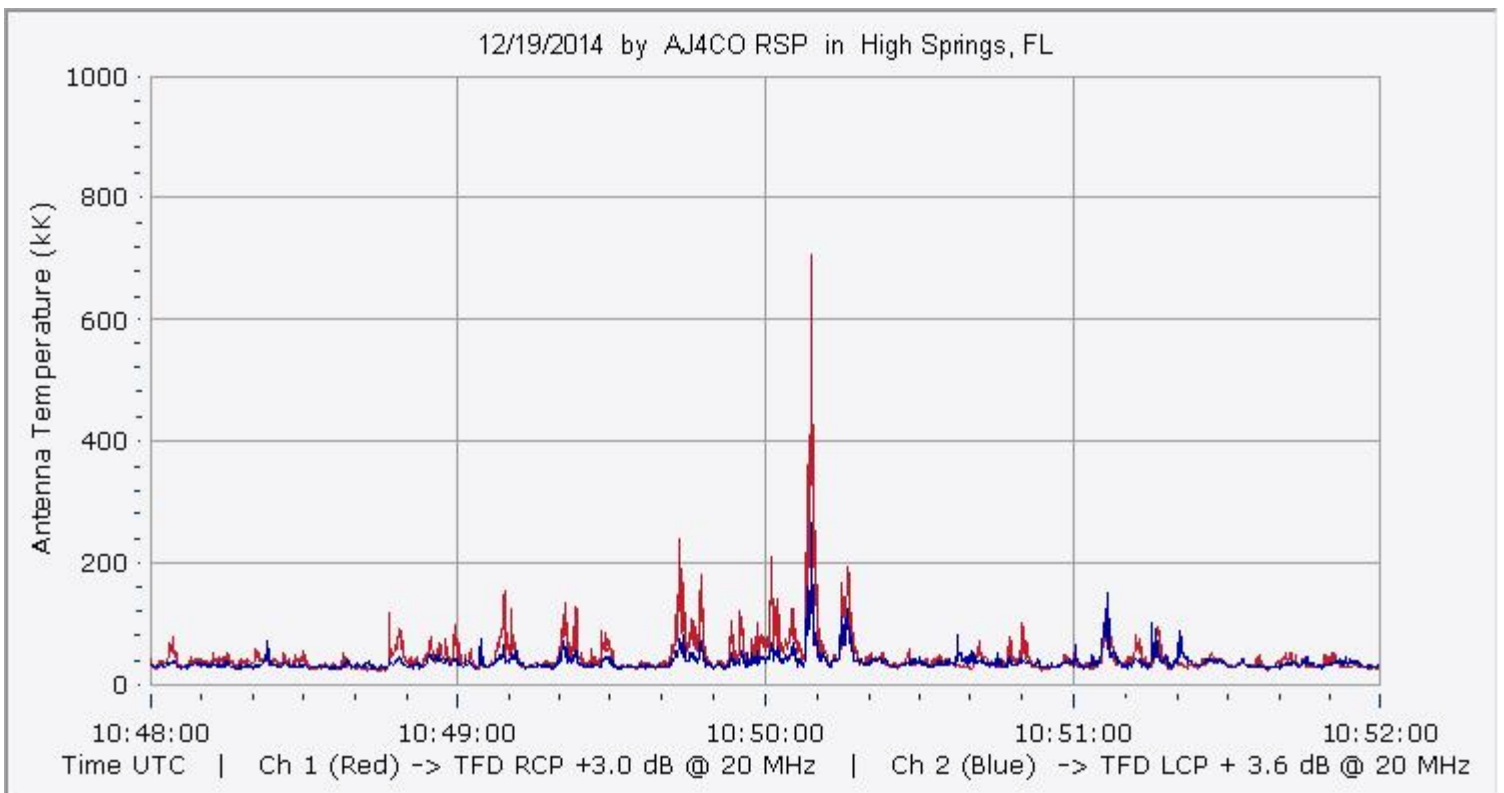


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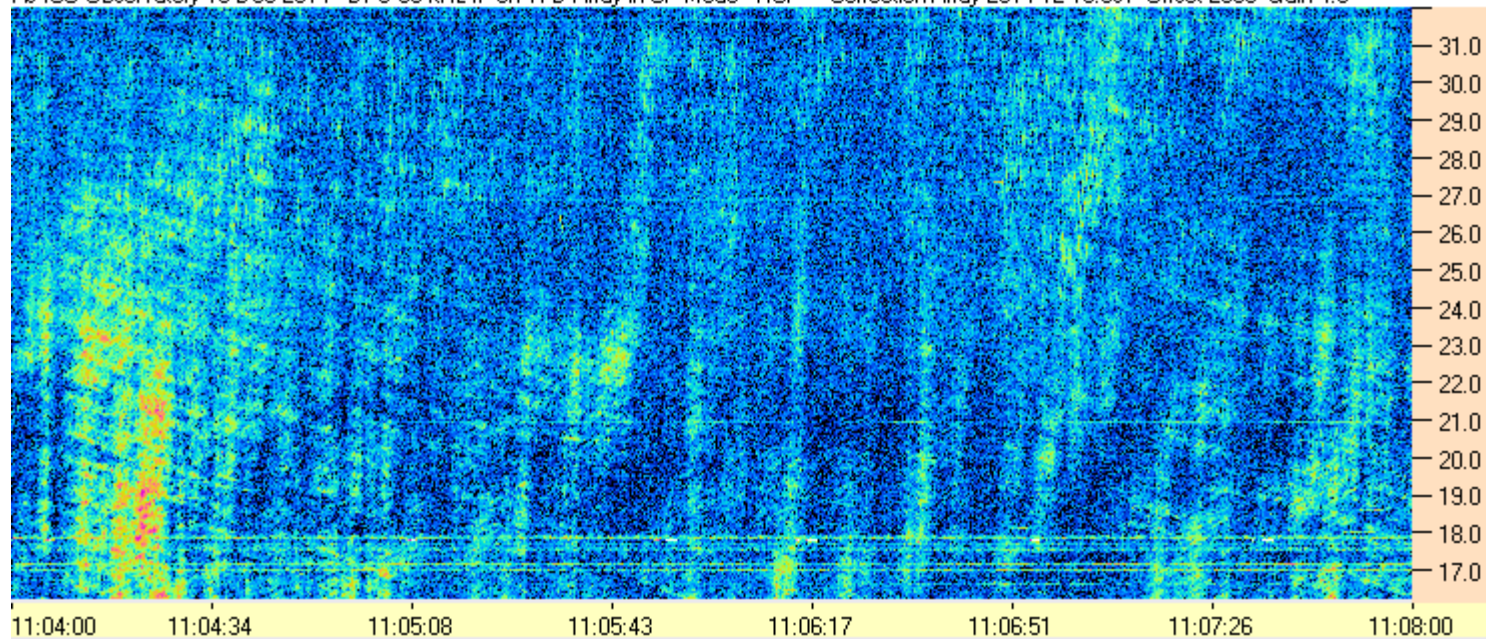


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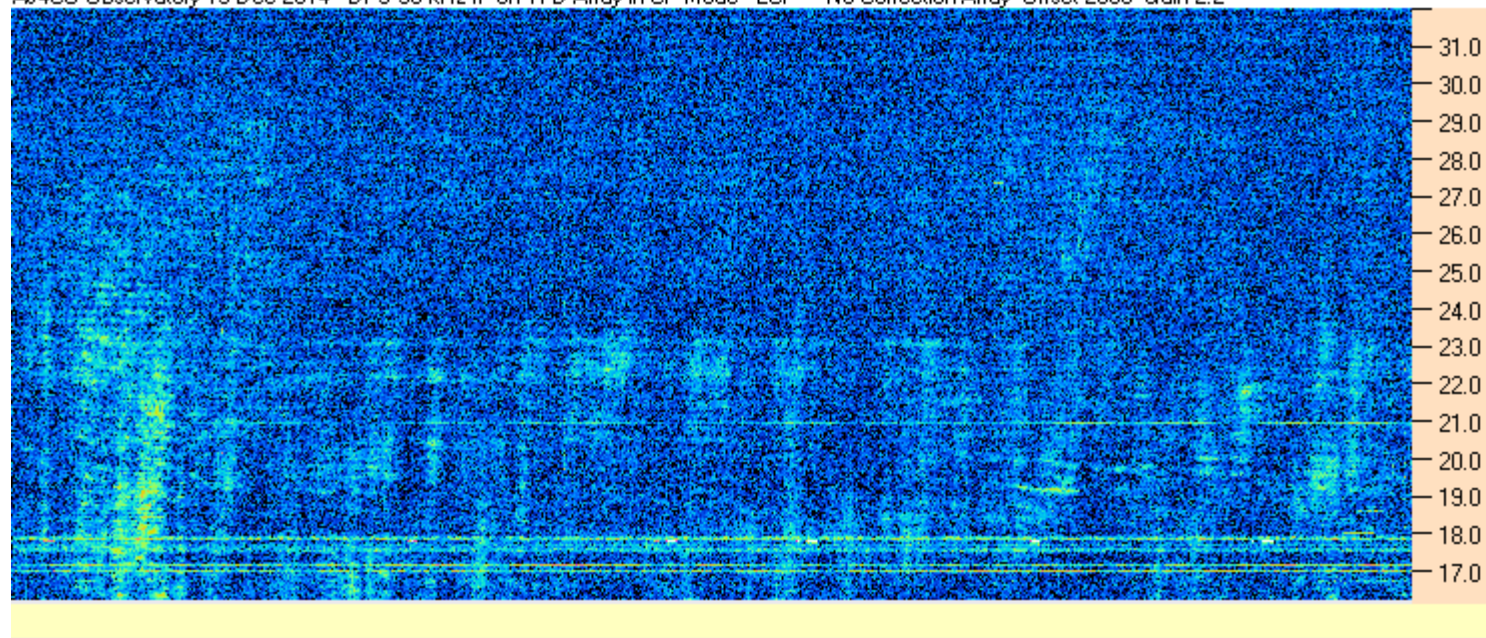


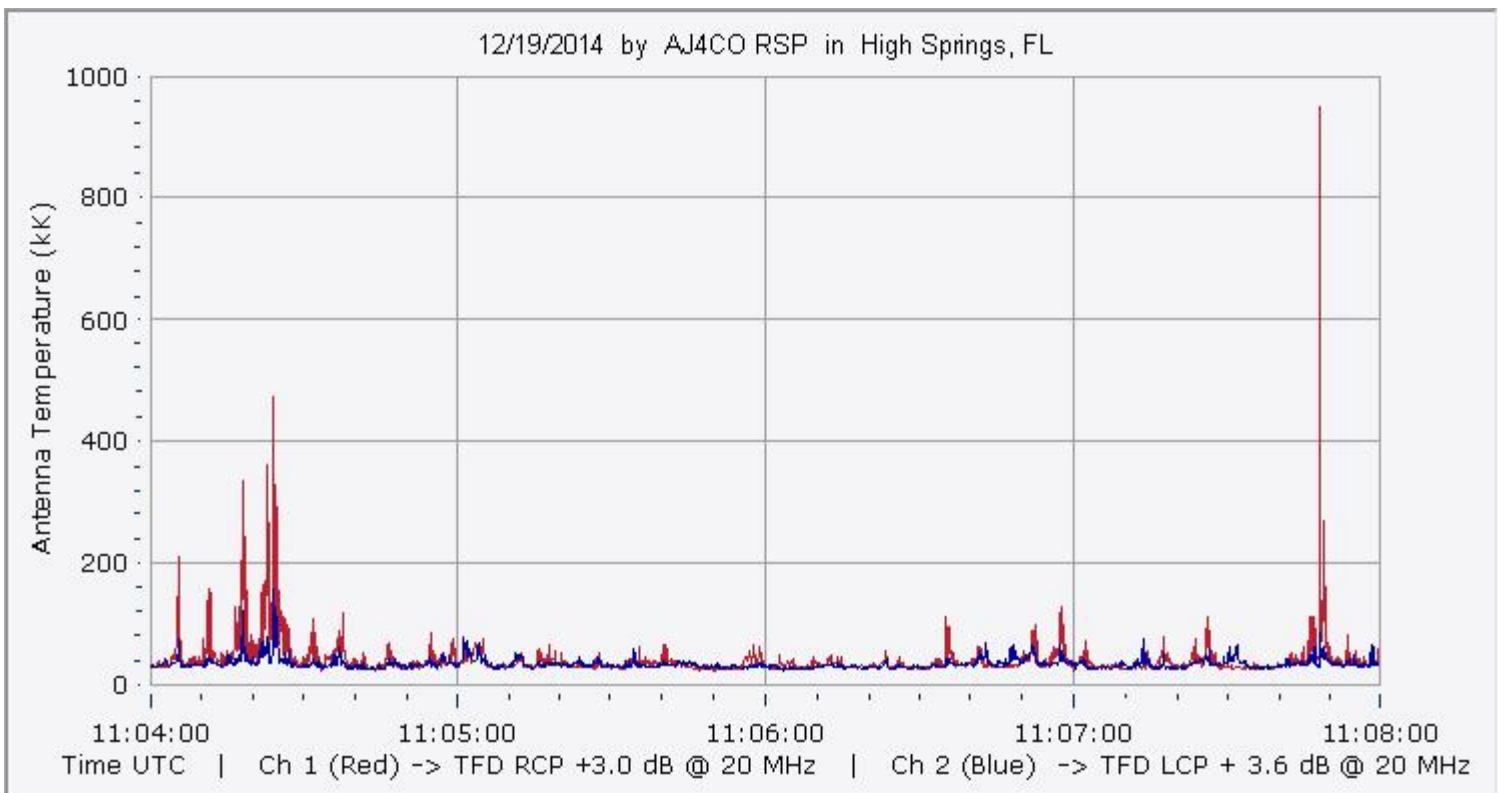


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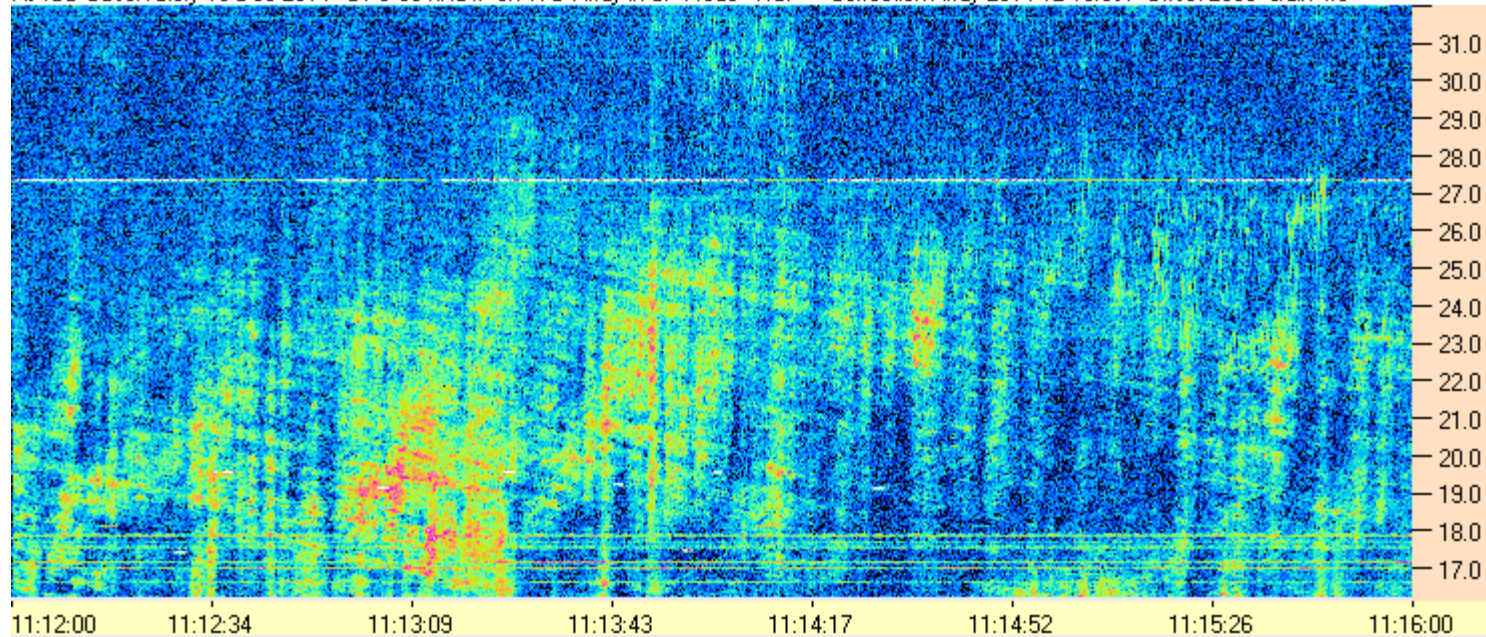


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