

**Subject:** [radiojove-data] 15 Dec 2015 Io-B/D  
**From:** Dave Typinski <davetyp@typnet.net>  
**Date:** 12/18/2015 01:34  
**To:** RadioJove-Data <radiojove-data@lists.nasa.gov>

Adding to Tom's nice report, here's some Io-B and Io-D from Tuesday morning.

RCP dominant L bursting 1111-1336 UTC from 16 to 32 MHz, vertex early arcs, positive and negative drift modulation lanes visible.

RCP dominant S bursting 1137-1237 UTC from 20 to 32 MHz, positive drift emission envelope.

LCP dominant narrow banded S burst trains 1212-1216 UTC at 17 MHz.

LCP dominant L bursting 1217-1228 UTC from 16 to 22 MHz, positive drift emission envelope, no modulation lanes visible.

Jupiter was  $-5^\circ$  to  $+32^\circ$  off axis.

Jupiter was leading the Sun by  $91^\circ$ .

Interesting banding in the spectrograms above 22 MHz with a stronger effect at higher freqs and more visible in the non-dominant polarization. I don't understand why this happens. Possibly due to the use of linear elements in the TFD array and a combination of the antenna element patterns, array grating lobes, and the source's off-axis angle.

The RCP Jove receiver has developed a slight, slowly varying gain instability. Troubleshooting is in work.

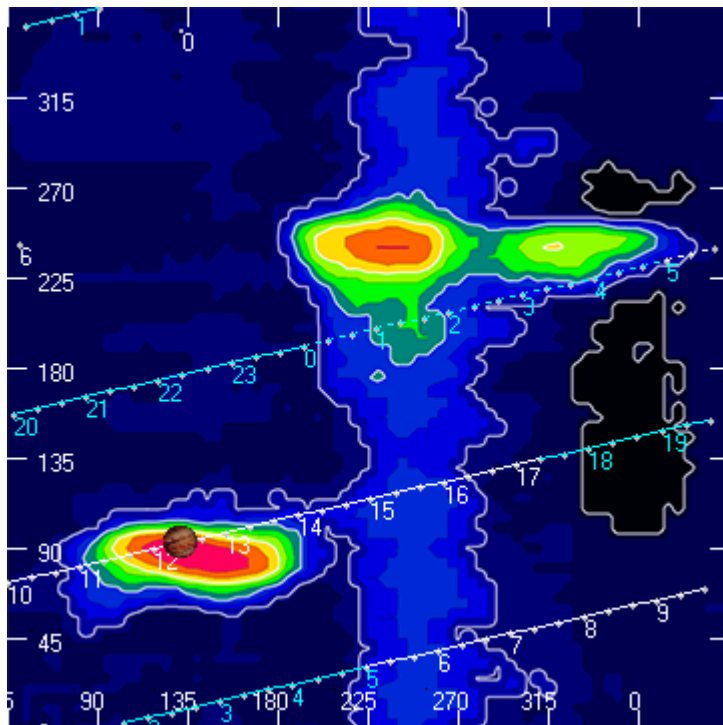
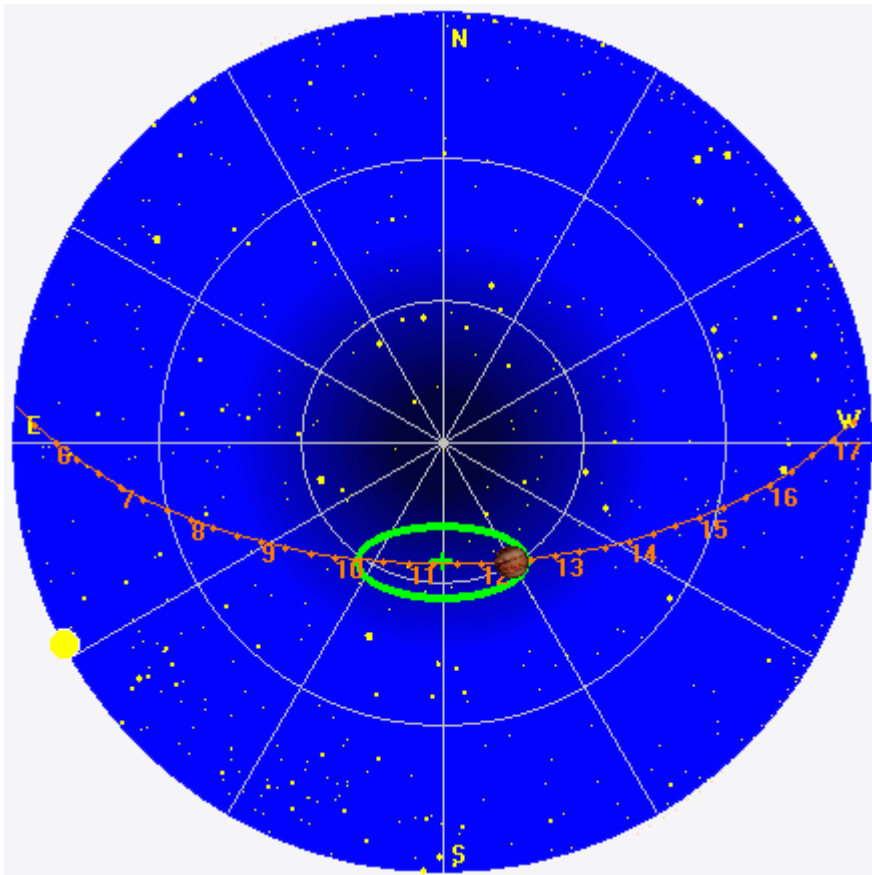
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Dave

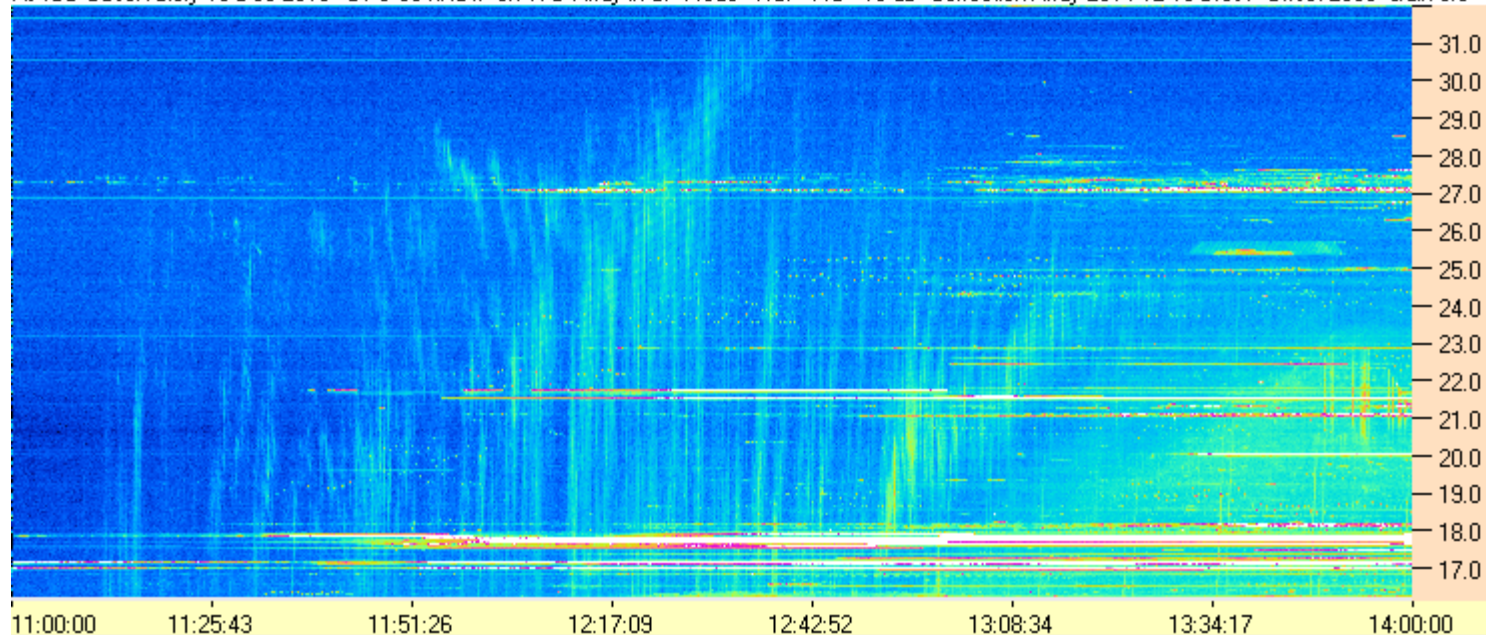
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**AJ4CO Observatory 15 Dec 2015, log entry 500 - 503**

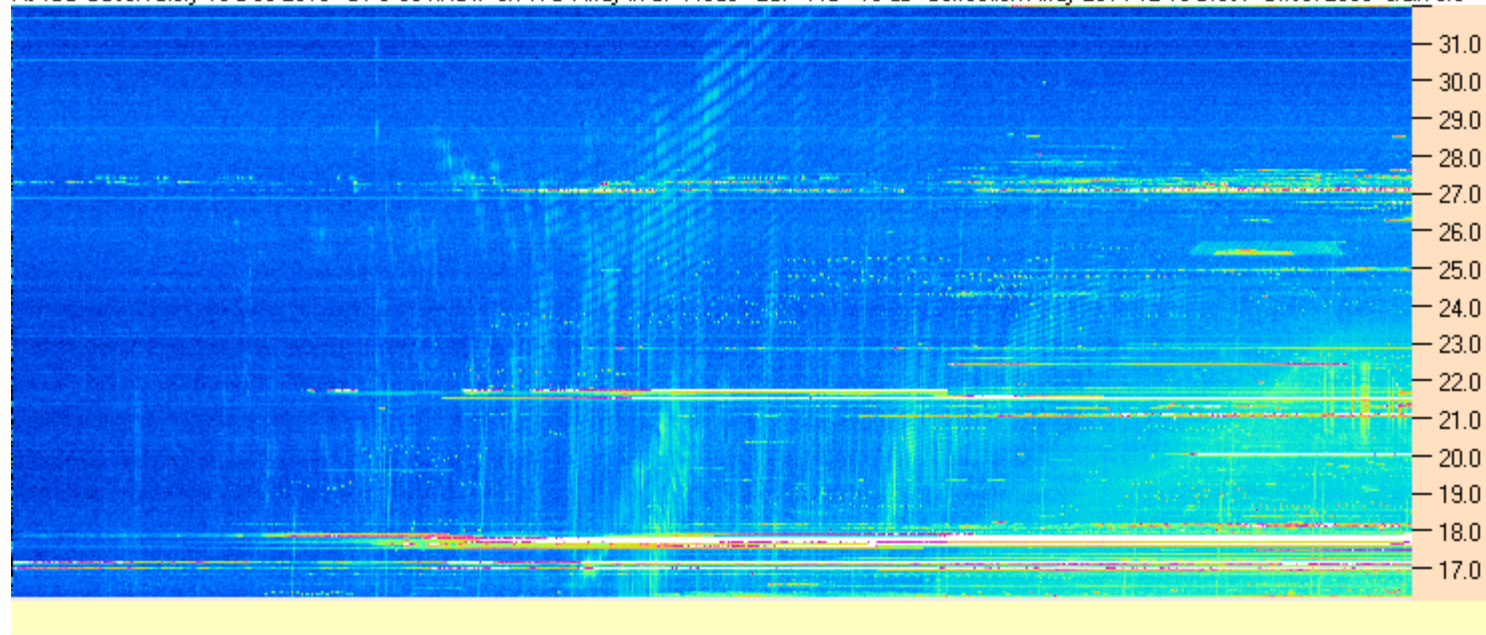
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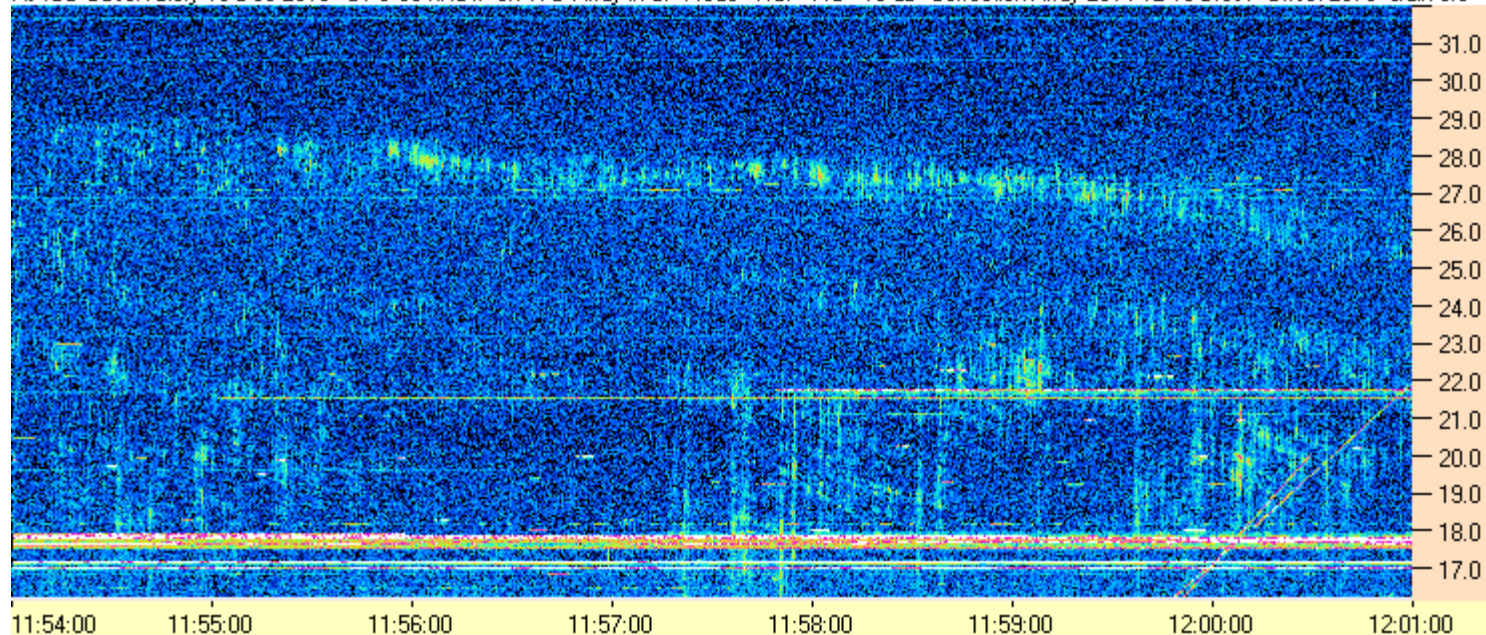
AJ4CO Observatory 15 Dec 2015 - DPS 30 kHz IF on TFD Array in CP Mode - RCP MC +13 dB Correction Array 2014 12 18 B.csv Offset 2050 Gain 5.0



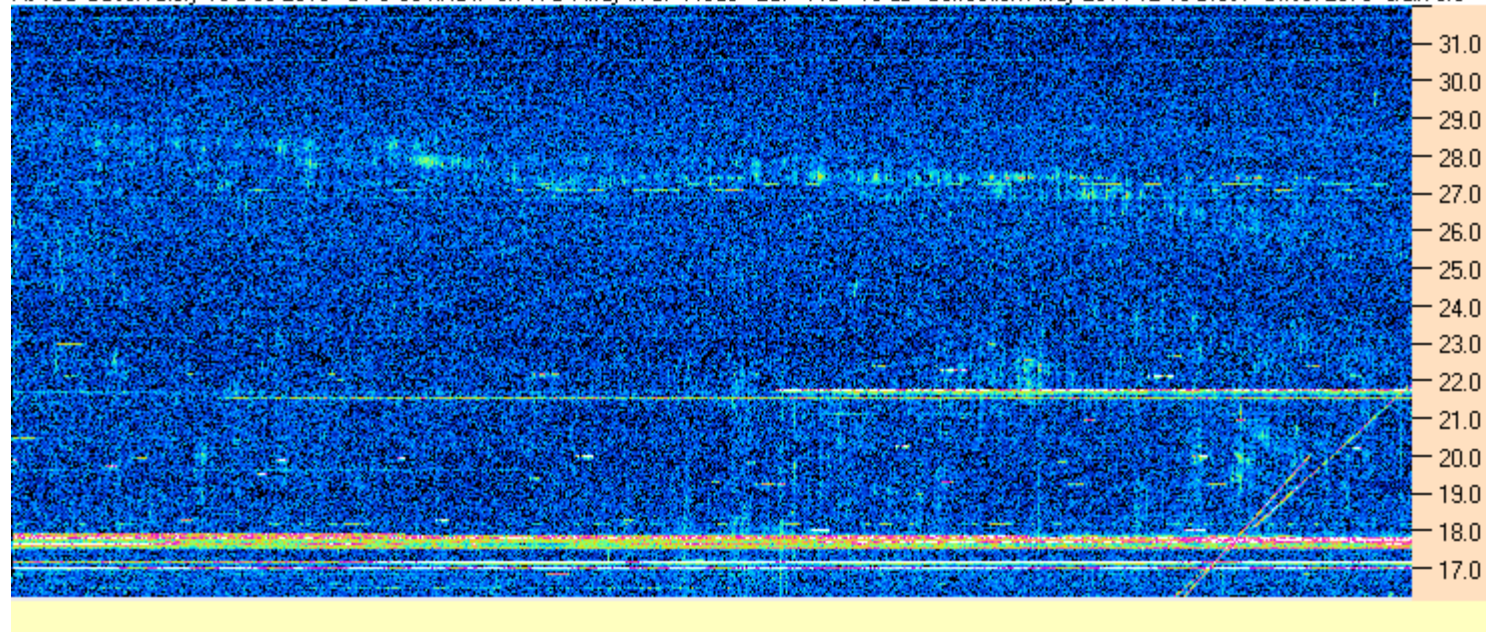
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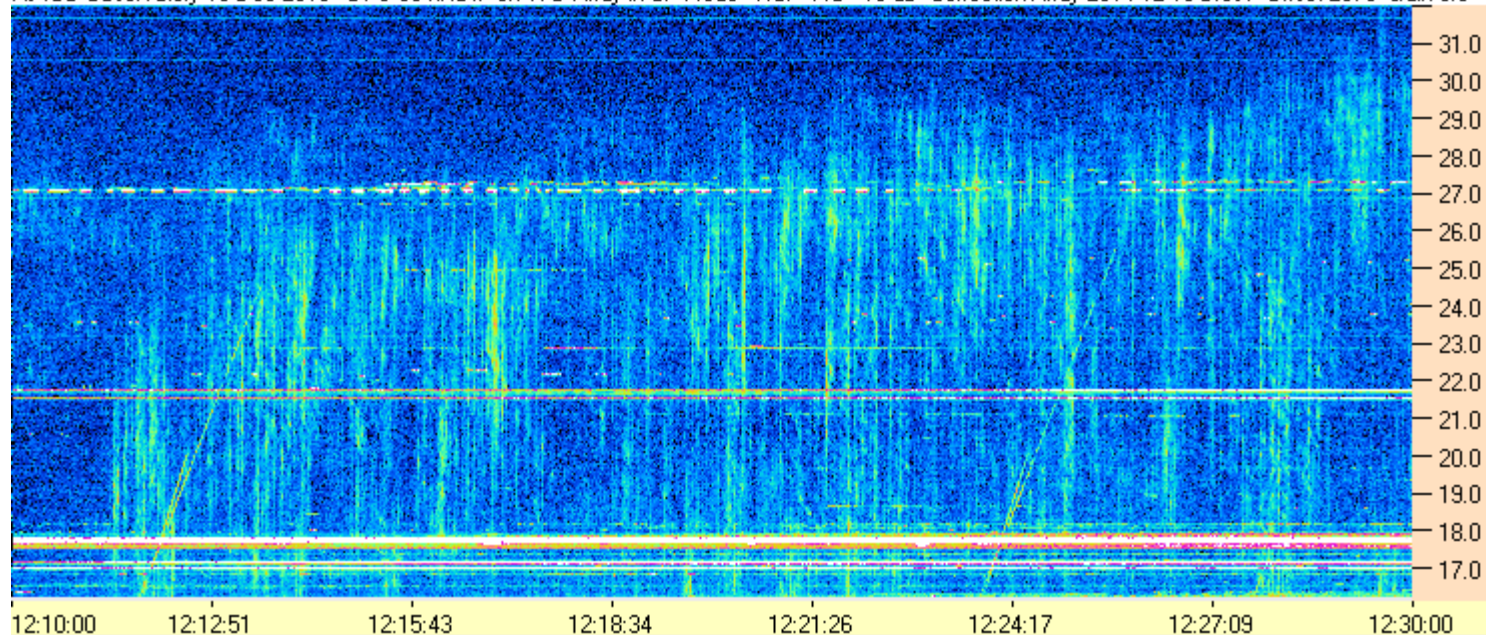
AJ4CO Observatory 15 Dec 2015 - DPS 30 kHz IF on TFD Array in CP Mode - RCP MC +13 dB Correction Array 2014 12 18 B.csv Offset 2075 Gain 5.0



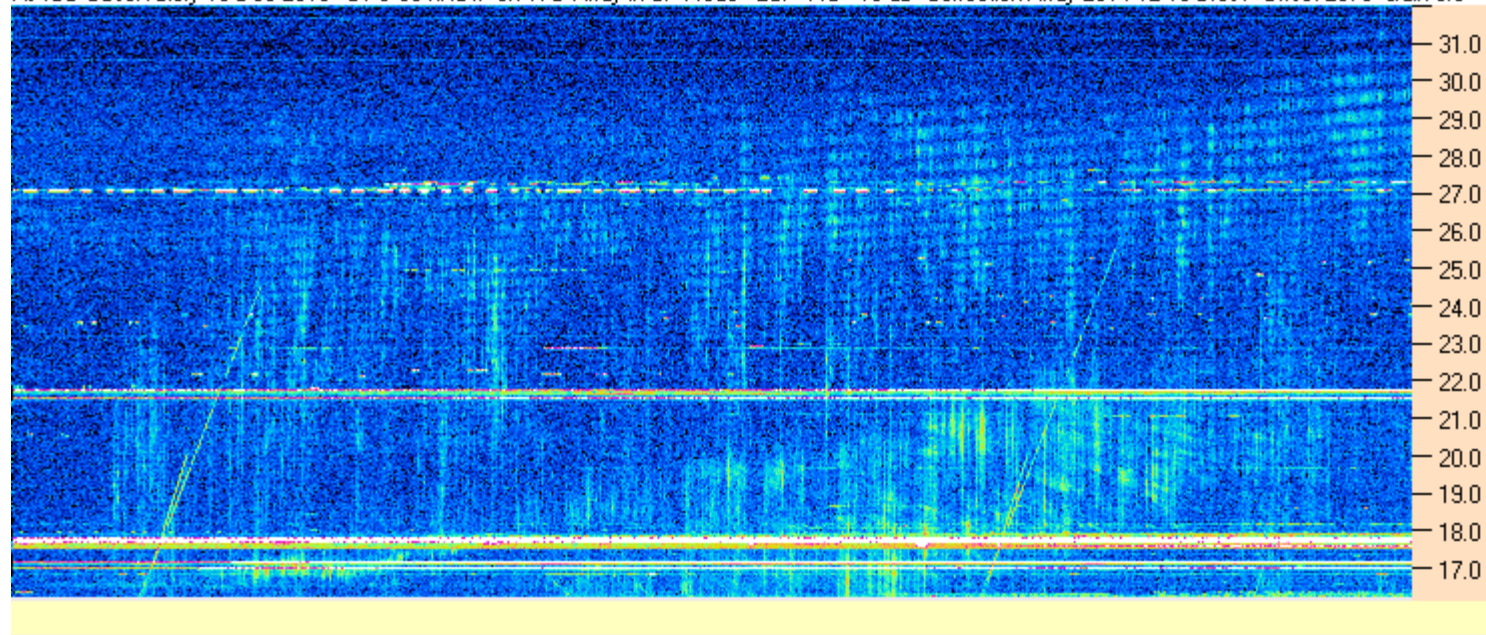
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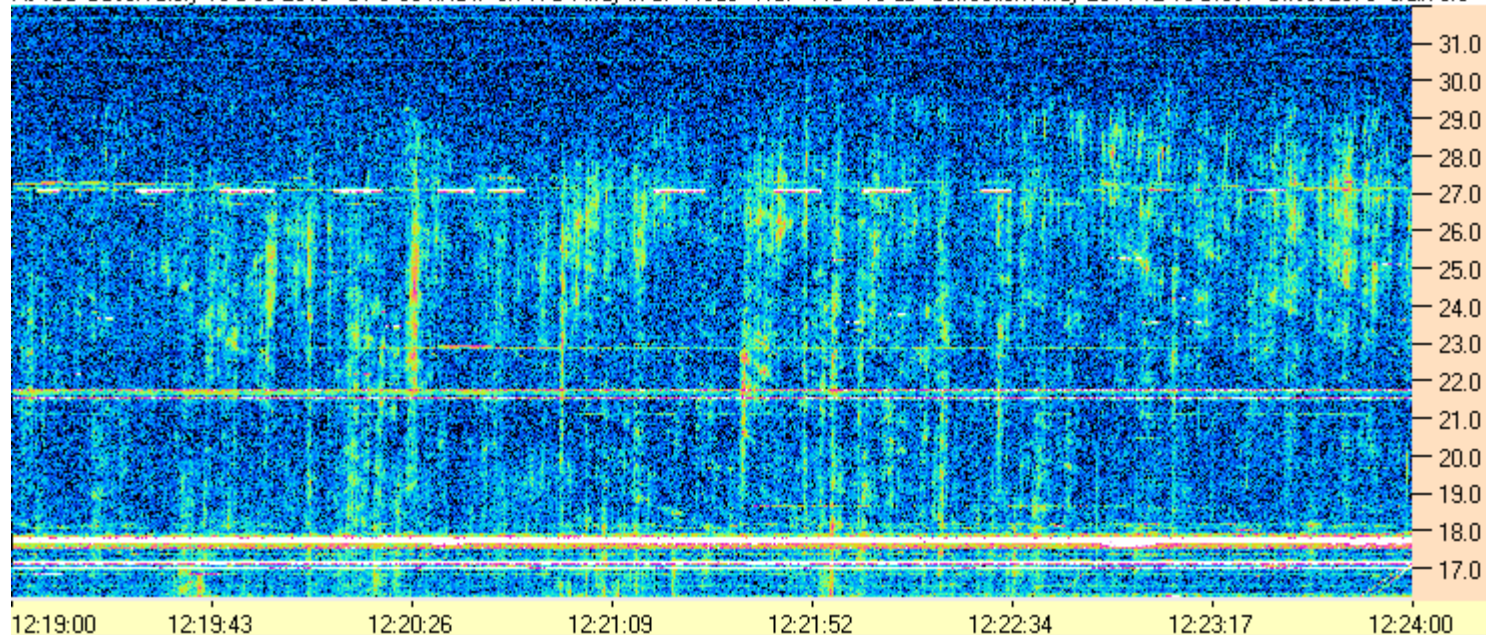
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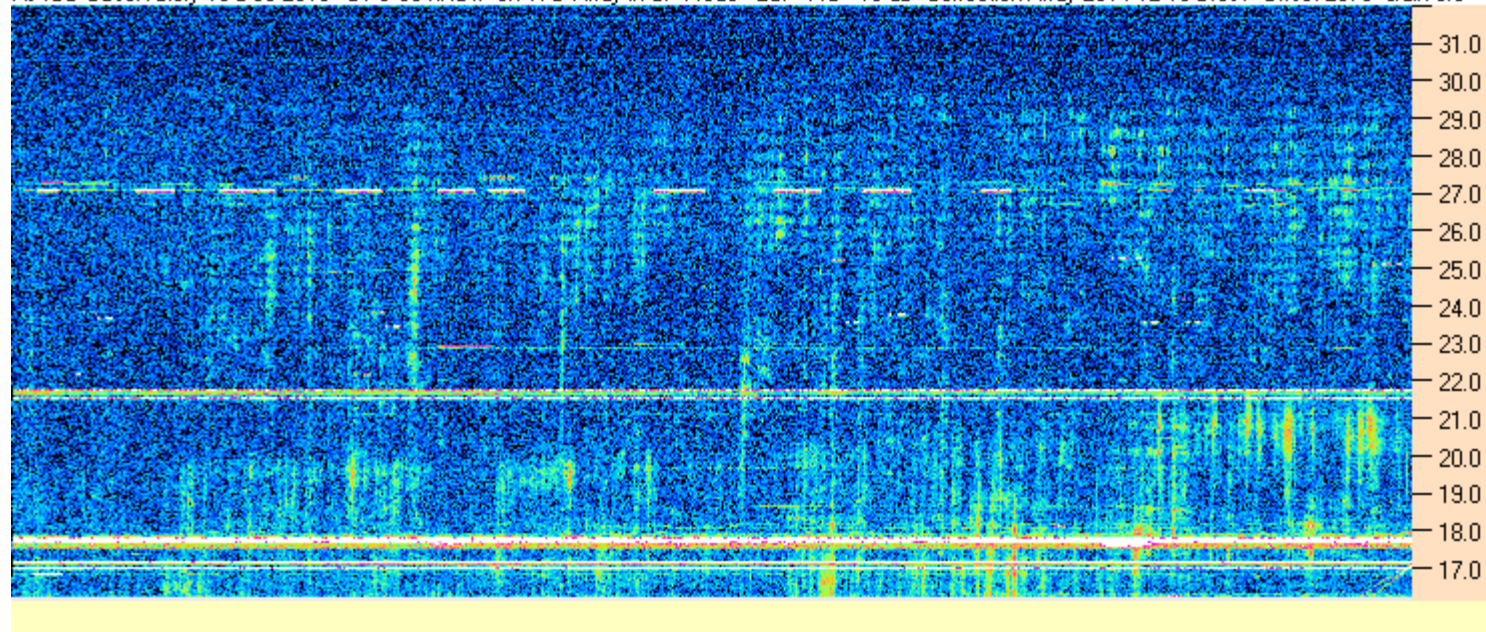
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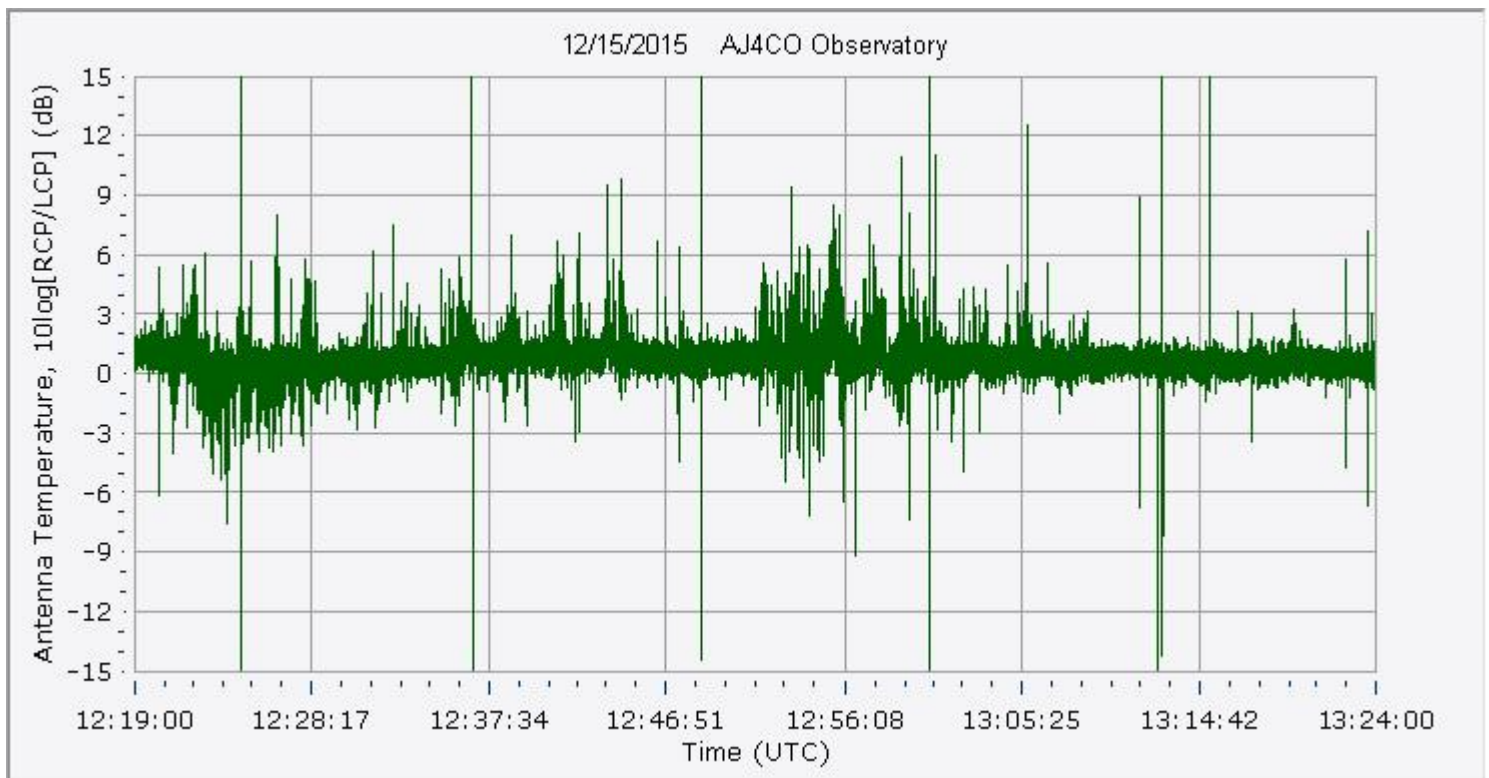
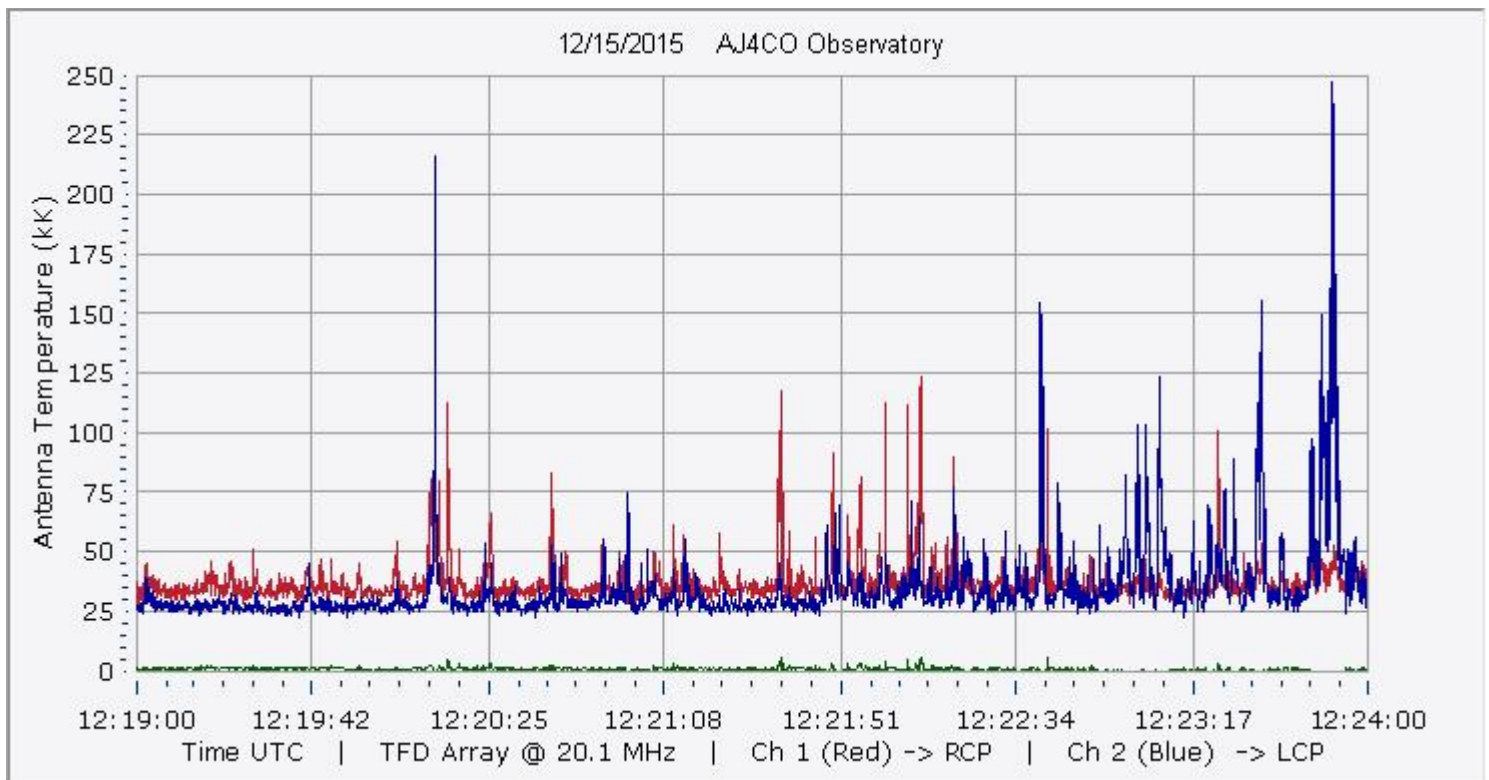


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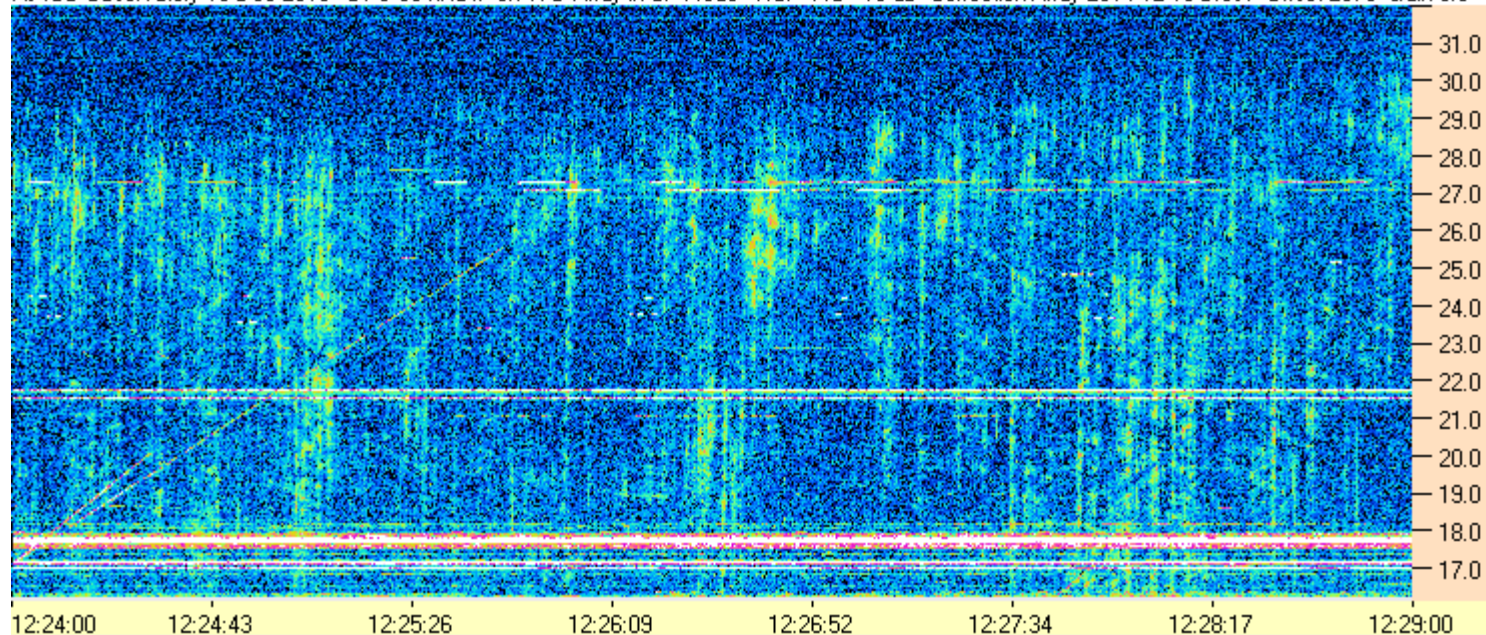


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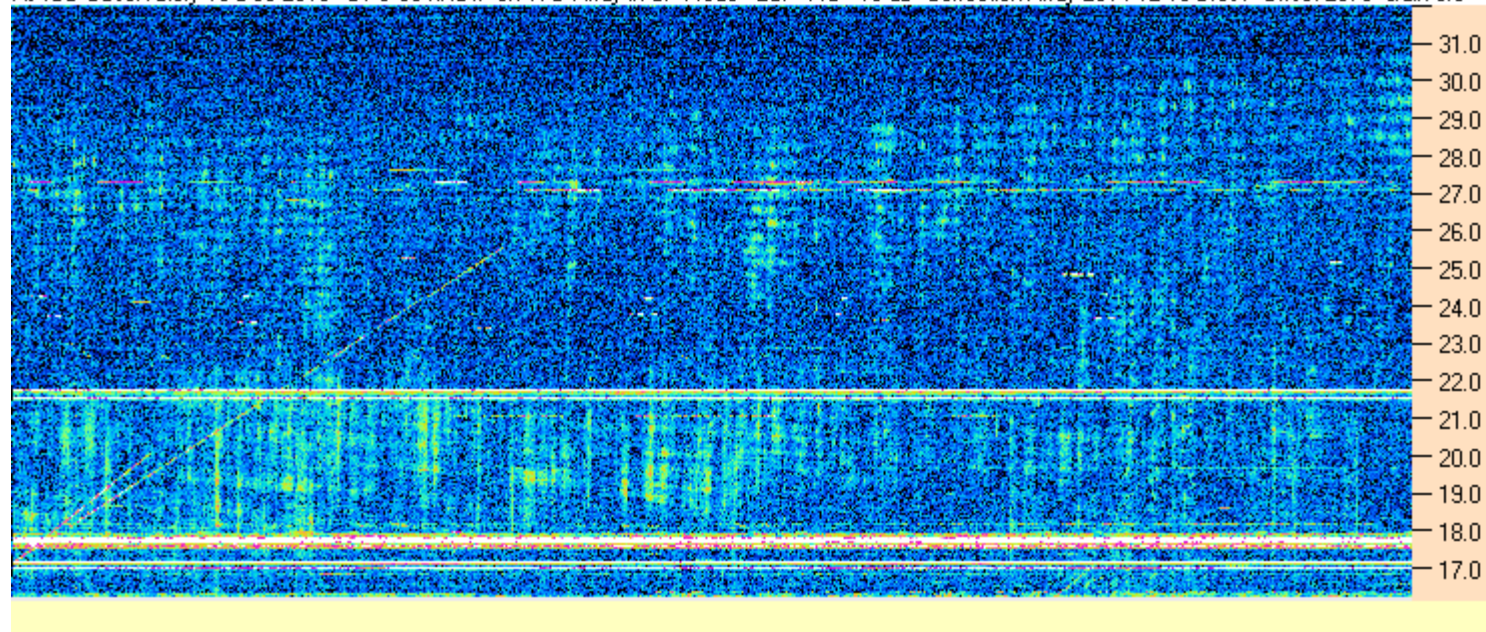


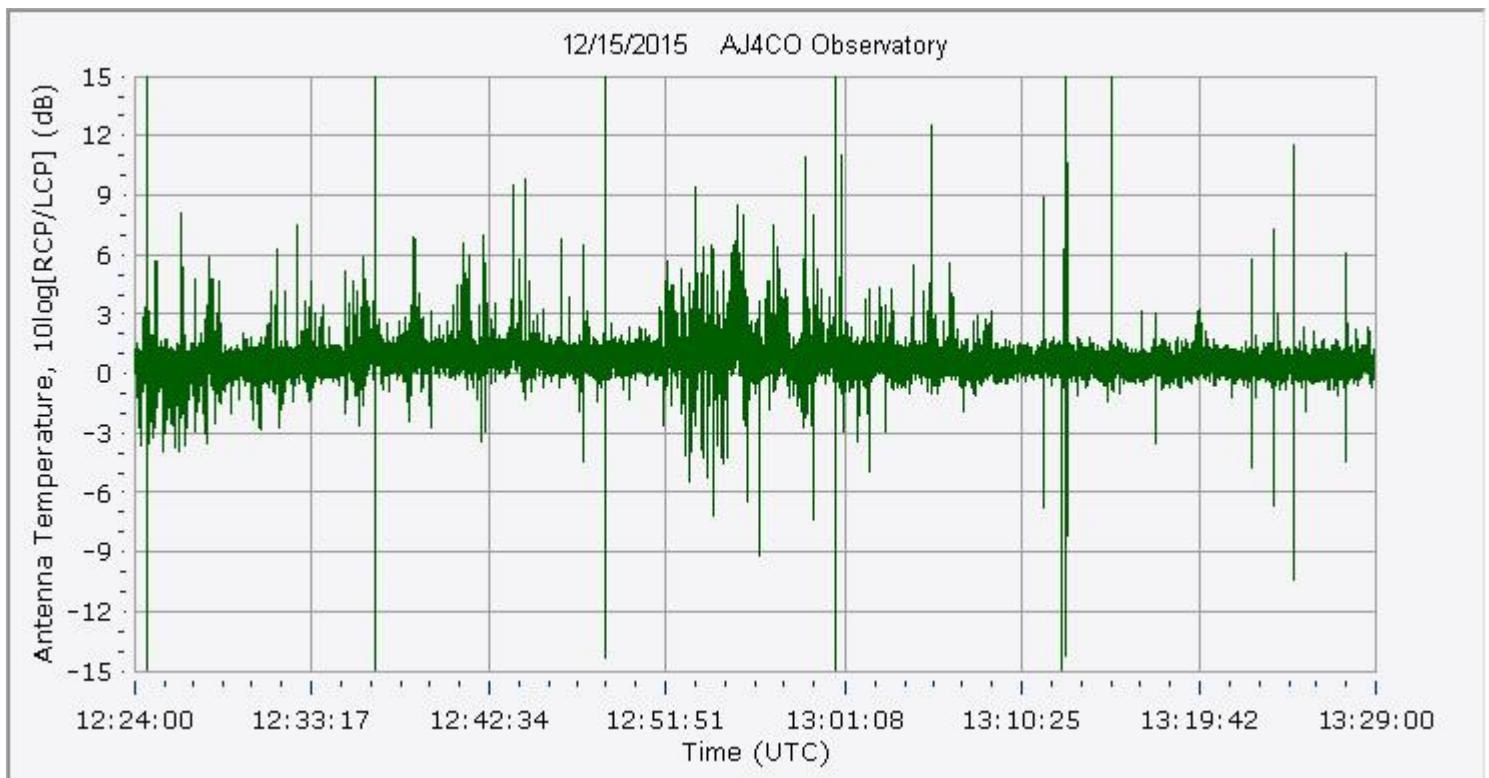
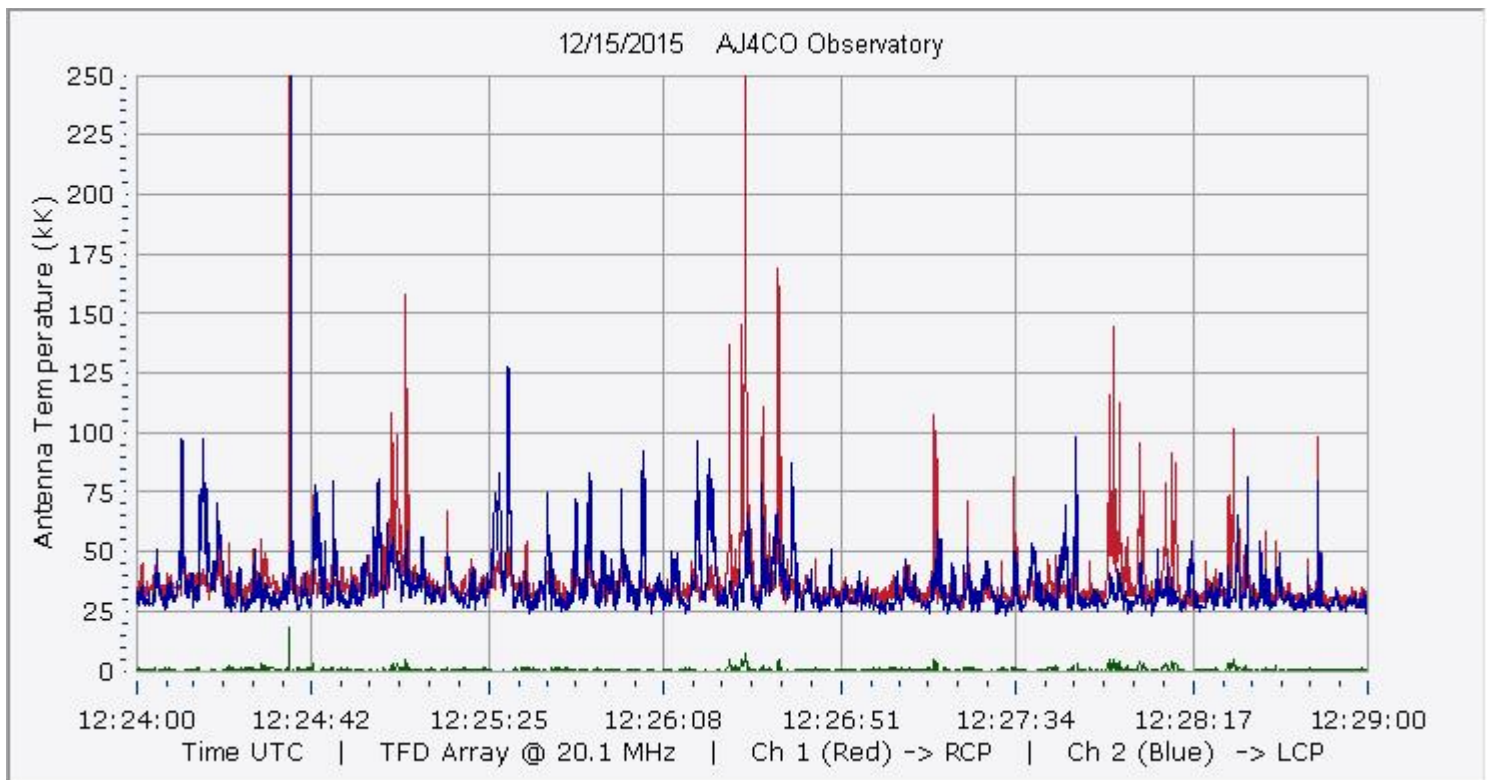


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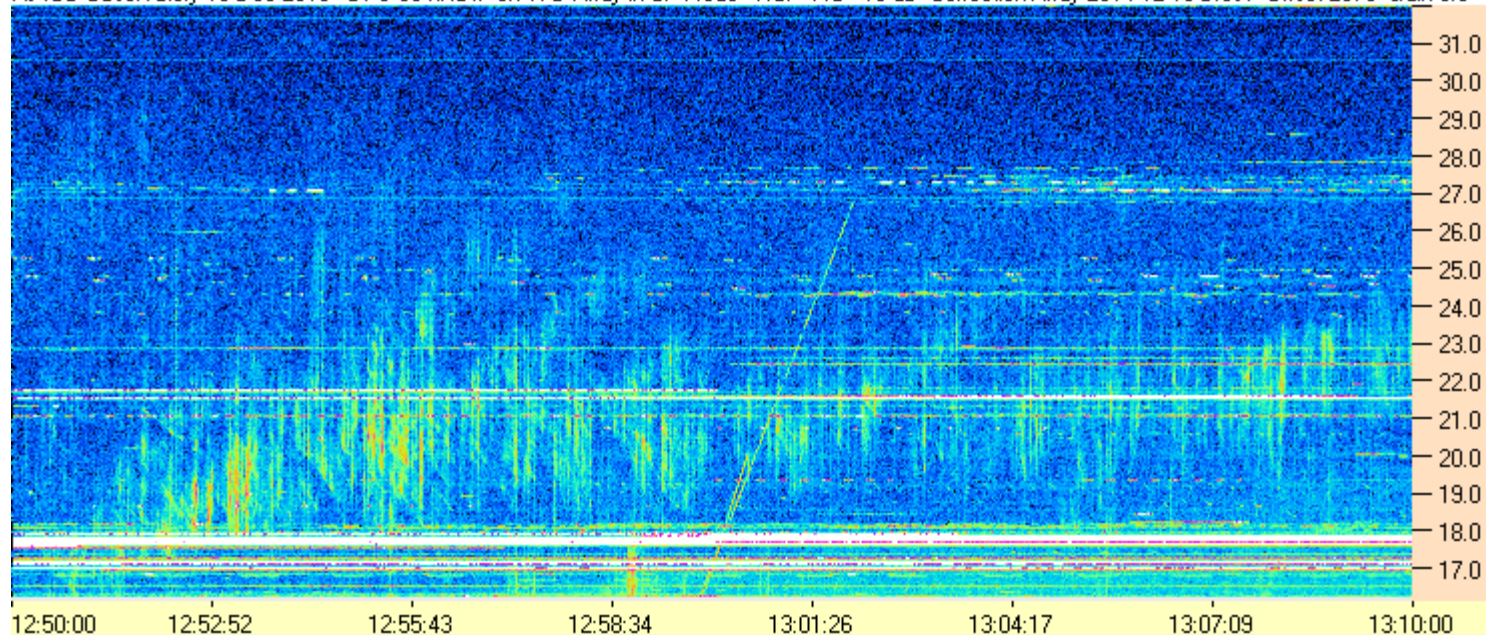


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