

Subject: [radiojove-data] 09 Feb 2015 Io-A - and low frequency test to 8 MHz
From: Dave Typinski <davetyp@typnet.net>
Date: 02/10/2015 22:33
To: RadioJove-Data <radiojove-data@lists.nasa.gov>

Adding to Tom & Wes's nice reports, here's some Io-A from Monday morning.

This was a special observational setup. The DPS was running off of the NS wires of the TFD array, while an SDR-14 was running off of the EW wires from 8 to 24 MHz, just on a whim to see what the background looked like. That is, it was a real-world low frequency response test of the 30' long TFD elements.

The DPS was still connected to the TFD array through a multicoupler. The SDR-14, however, was direct to antenna in order to bypass the 17 MHz high-pass filter in multicoupler B.

As such, both spectrographs were receiving linear polarization instead of the customary circular polarization.

As luck would have it, this Io-A low pass produced some useful emission. The SDR-14 saw Jovian emission down to 13 MHz (0550 UTC, 4th spectrogram below).

As for the DPS, there was RCP dominant (we know it was RCP thanks to Wes's report) L bursting from 16 to 29 MHz. Squidgy ionospheric lanes visible at 0555 UTC. Faraday banding throughout due to the use of linear polarized antennas.

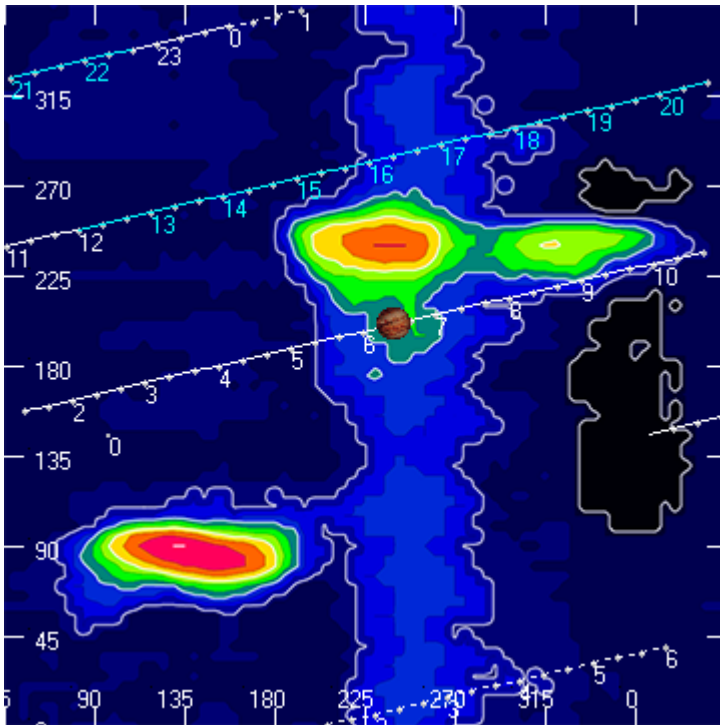
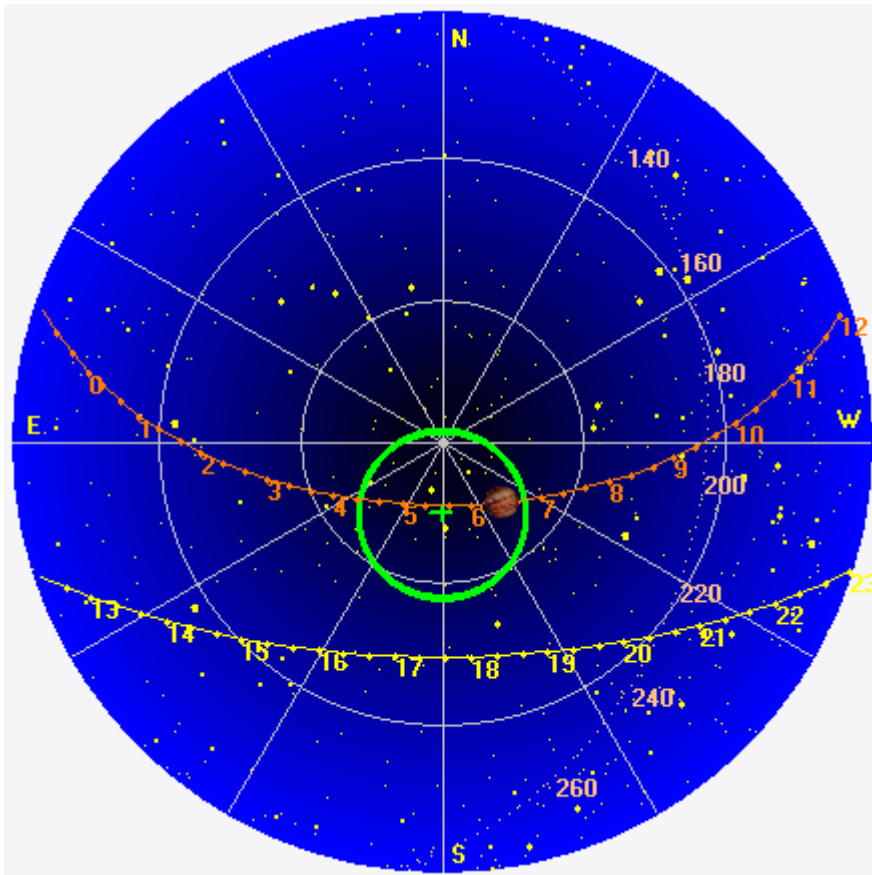
Jupiter was -5° to $+29^{\circ}$ off axis.

Jupiter was trailing the Sun by 177° .

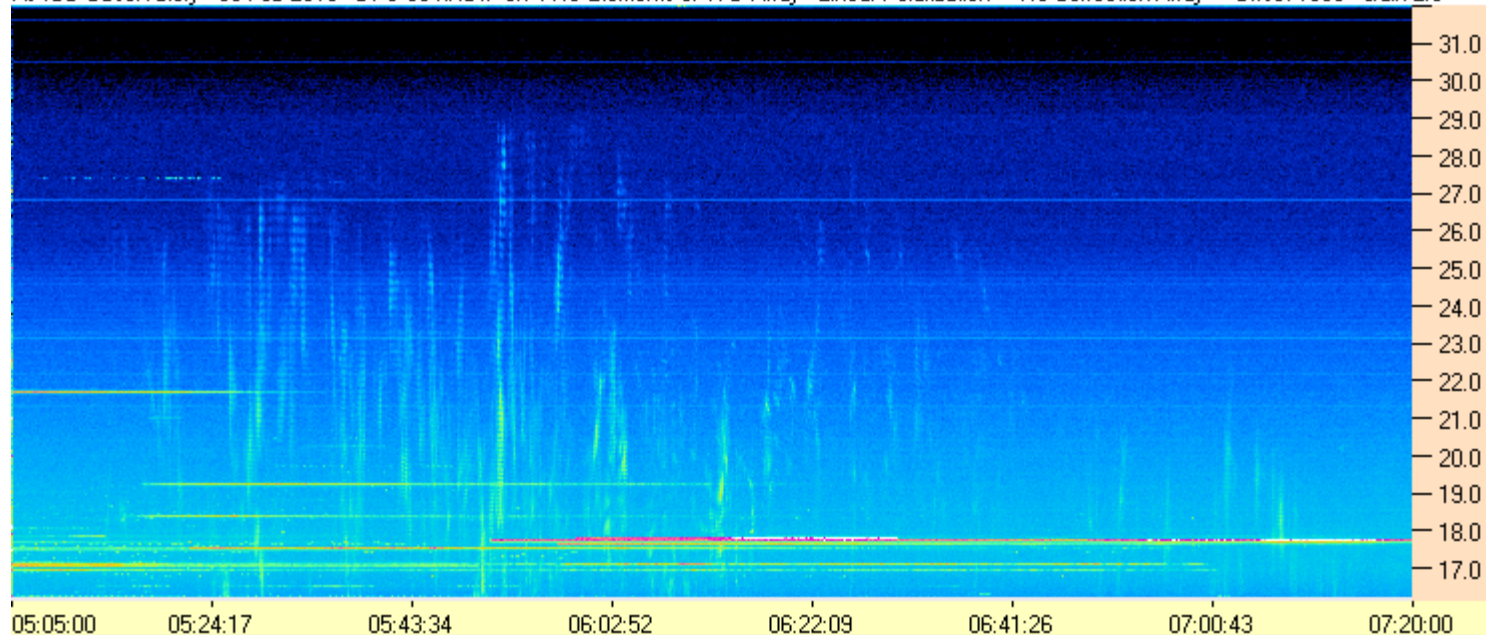
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Dave

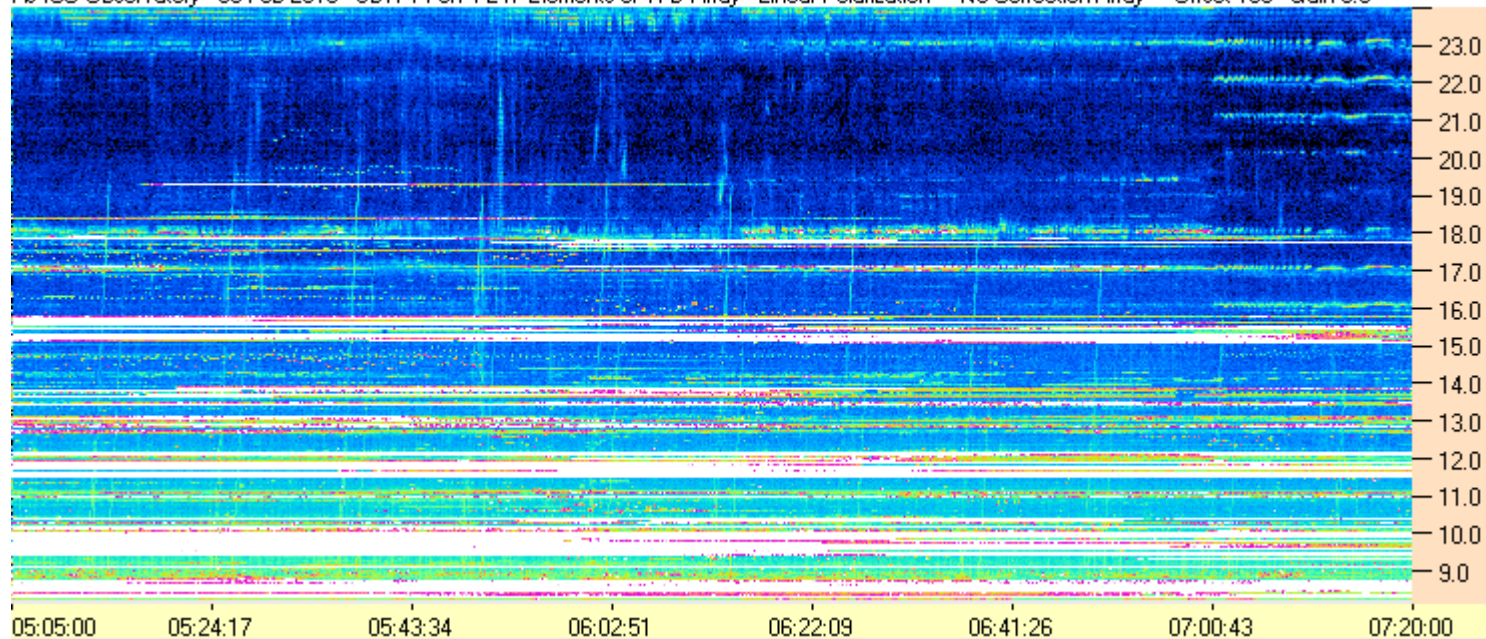
AJ4CO Observatory 09 Feb 2015, log entry 318

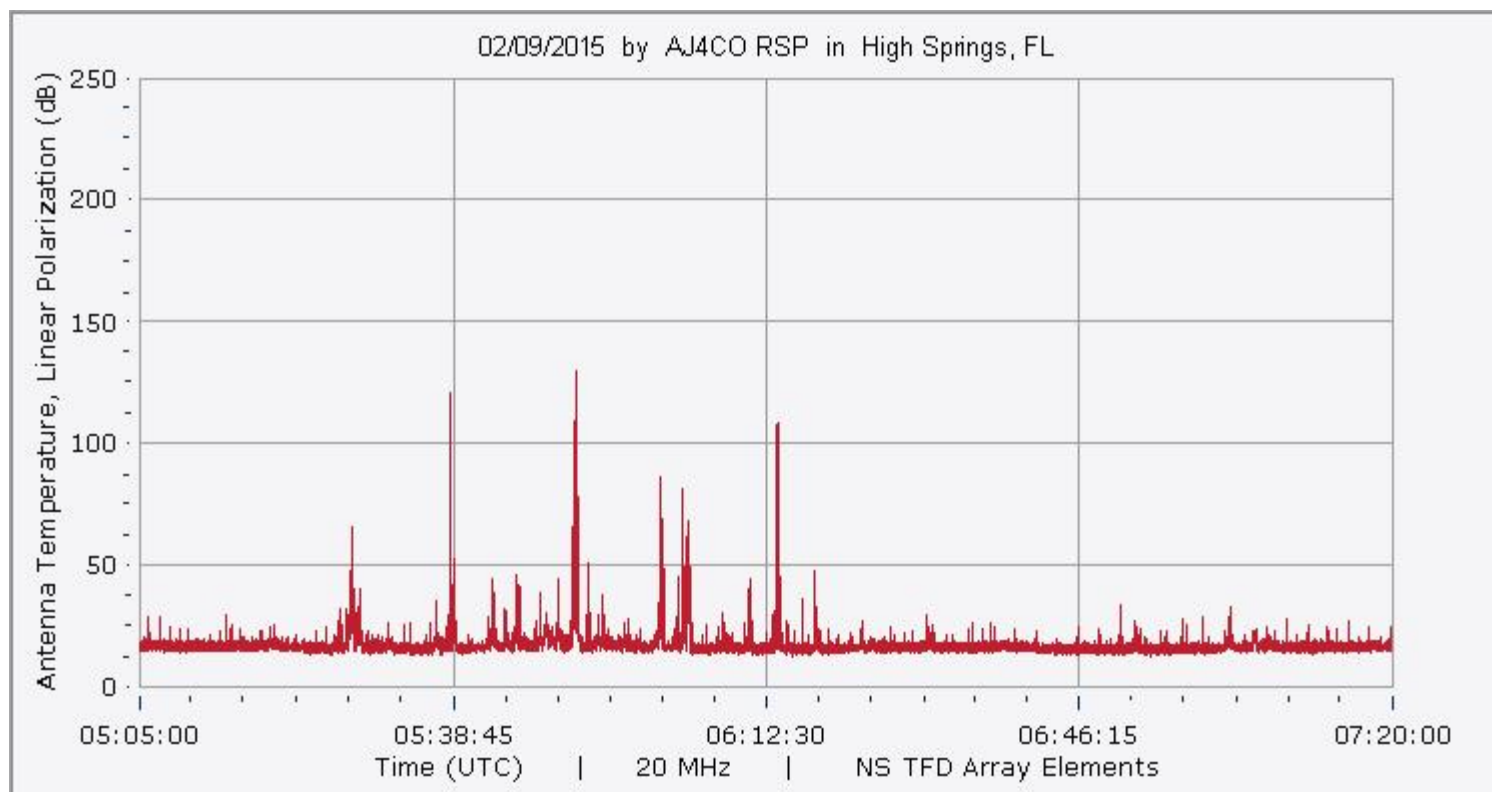


AJ4CO Observatory - 09 Feb 2015 - DPS 30 kHz IF on 4 NS Elements of TFD Array - Linear Polarization No Correction Array Offset 1890 Gain 2.6

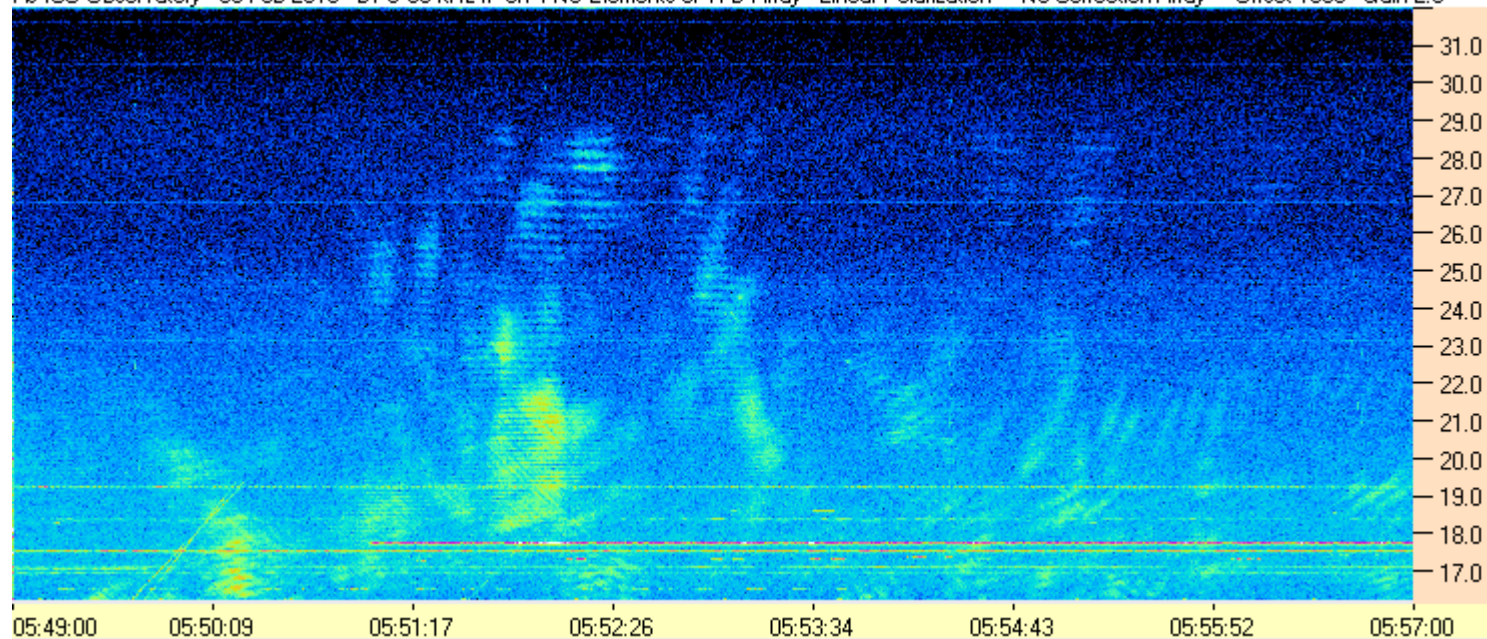


AJ4CO Observatory - 09 Feb 2015 - SDR-14 on 4 EW Elements of TFD Array - Linear Polarization No Correction Array Offset 180 Gain 5.0

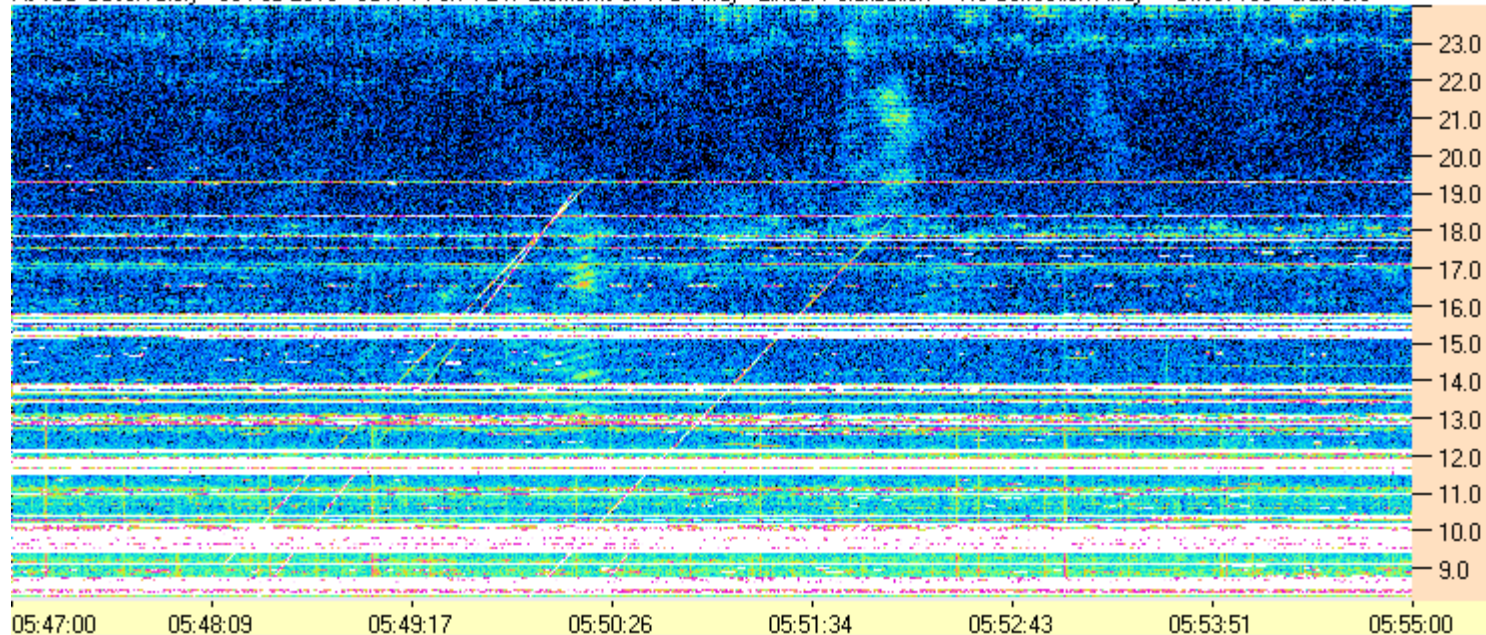




AJ4CO Observatory - 09 Feb 2015 - DPS 30 kHz IF on 4 NS Elements of TFD Array - Linear Polarization No Correction Array Offset 1890 Gain 2.6



AJ4CO Observatory - 09 Feb 2015 - SDR-14 on 4 EW Elements of TFD Array - Linear Polarization No Correction Array Offset 180 Gain 5.0



02/09/2015 by AJ4CO RSP in High Springs, FL

