

**Subject:** [radiojove-data] 19 Dec 2014 Io-D  
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**Date:** 12/20/2014 21:44  
**To:** RadioJove-Data <radiojove-data@lists.nasa.gov>

Here's some Io-D from Friday morning.

This was hidden behind the much stronger Io-B storm. Polarization to the rescue.

LCP dominant L bursting from 16 to 24 MHz in a very nice vertex early arc, the upper portion of the arc is visible in the spectrogram below. No modulation lanes visible.

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 -18° to +12° off axis.

Jupiter was leading the Sun by 125°.

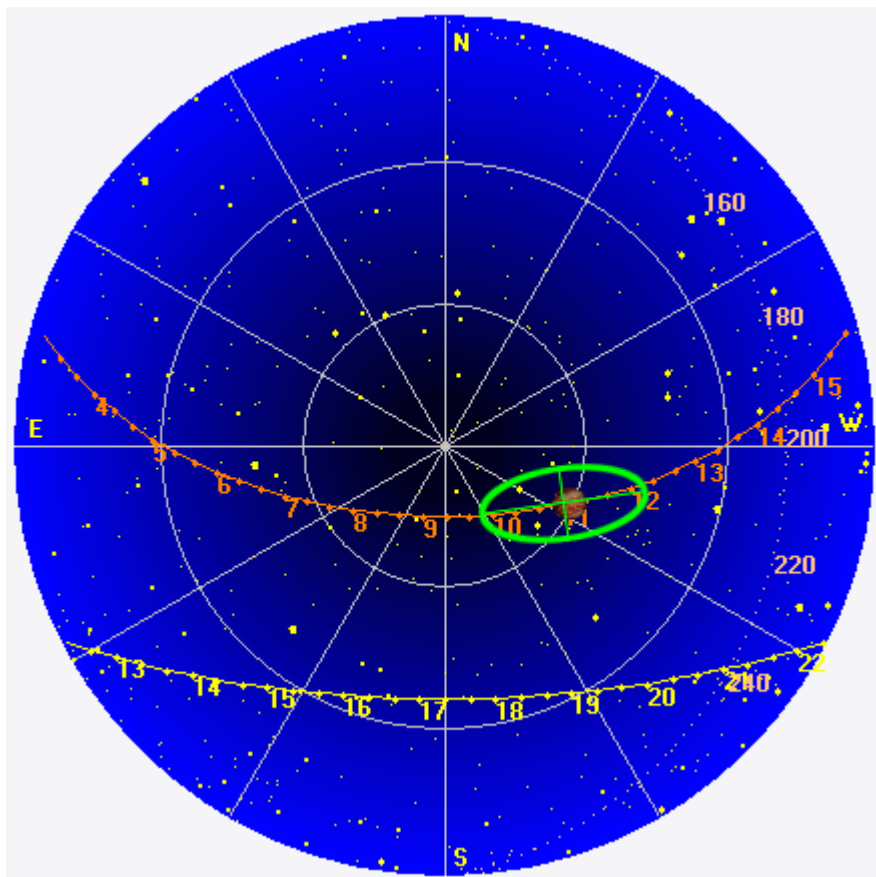
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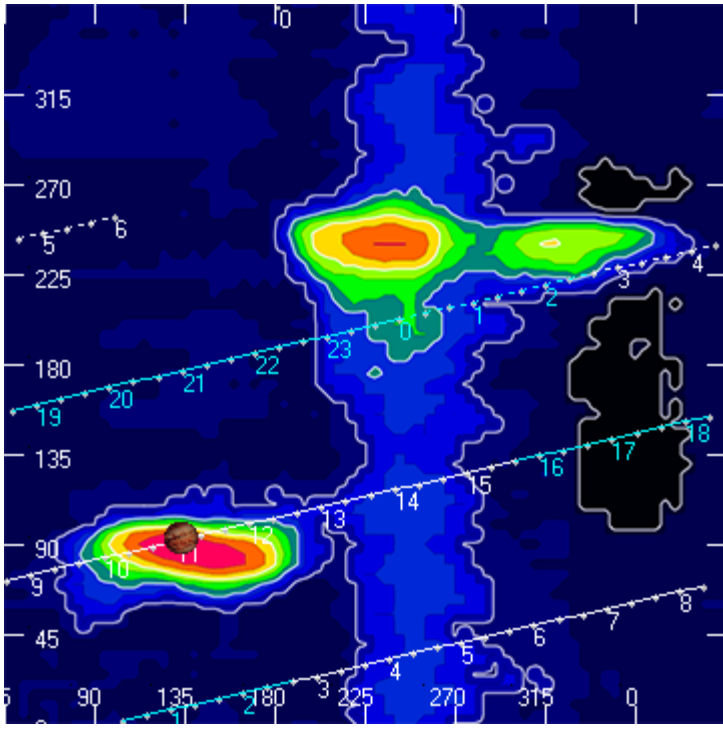
Dave

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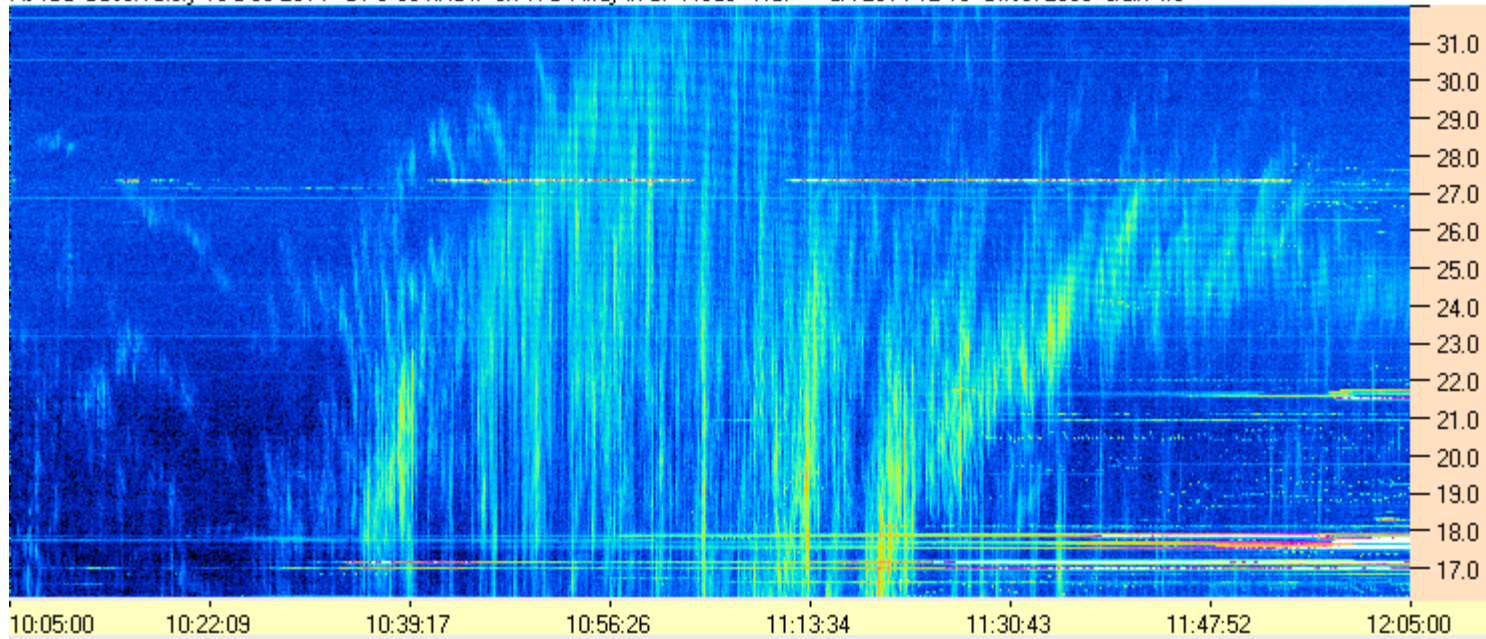
**AJ4CO Observatory 19 Dec 2014, log entry 239**

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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

