

Subject: [radiojove-data] 12 Dec 2014 Io-B
From: Dave Typinski <davetyp@typnet.net>
Date: 12/13/2014 15:32
To: RadioJove-Data <radiojove-data@lists.nasa.gov>

Adding to Tom & Jon & Stan & Jim & Wes & Mia's nice reports, here's more Io-B from Friday morning.

This was a great storm, lots of stuff going on here, a whole smorgasbord of Jovian DAM.

RCP dominant L bursting from 16 to 32 MHz with a fair amount of S bursting between 24 and 32 MHz. Negative drift modulation lanes visible, -43 and -60 kHz/s.

There is some LCP shown in the spectrograms and strip charts below, but that's Io-D and for another post.

There was one very strong period of emission around 1004 UTC. This peaked at 13 MK in the TFD array. Conservatively, a Jove dual dipole array would have seen 1+ MK. However, it is difficult to predict what other locations may see due to the high degree of ionospheric variability. Sometimes Jim Brown (1,000 miles away) or Wes Greenman (10 miles away) see very strong emission while I see nothing at all. I remain amazed just how different our records can be at times, while at other times they match reasonably well. The ionosphere is a harsh mistress.

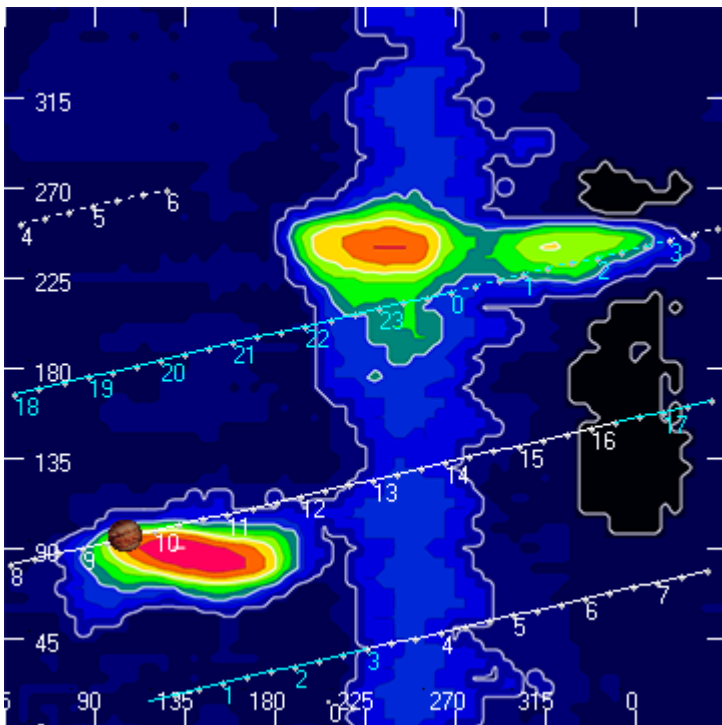
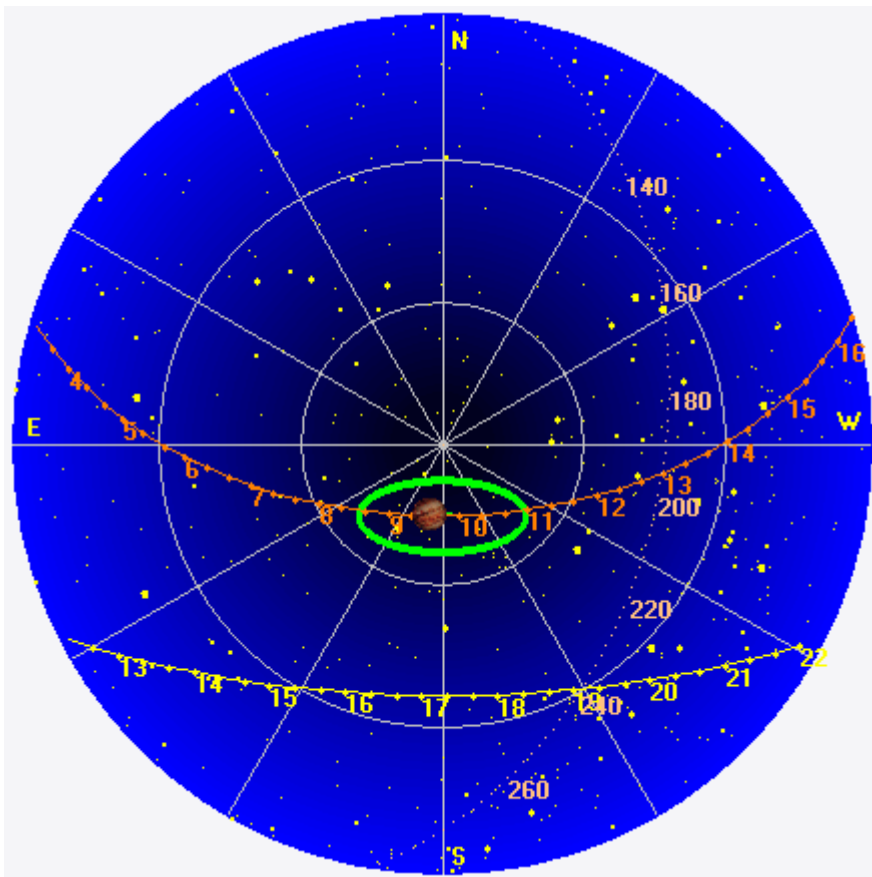
Jupiter was -14° to $+9^{\circ}$ off axis.

Jupiter was leading the Sun by 118° .

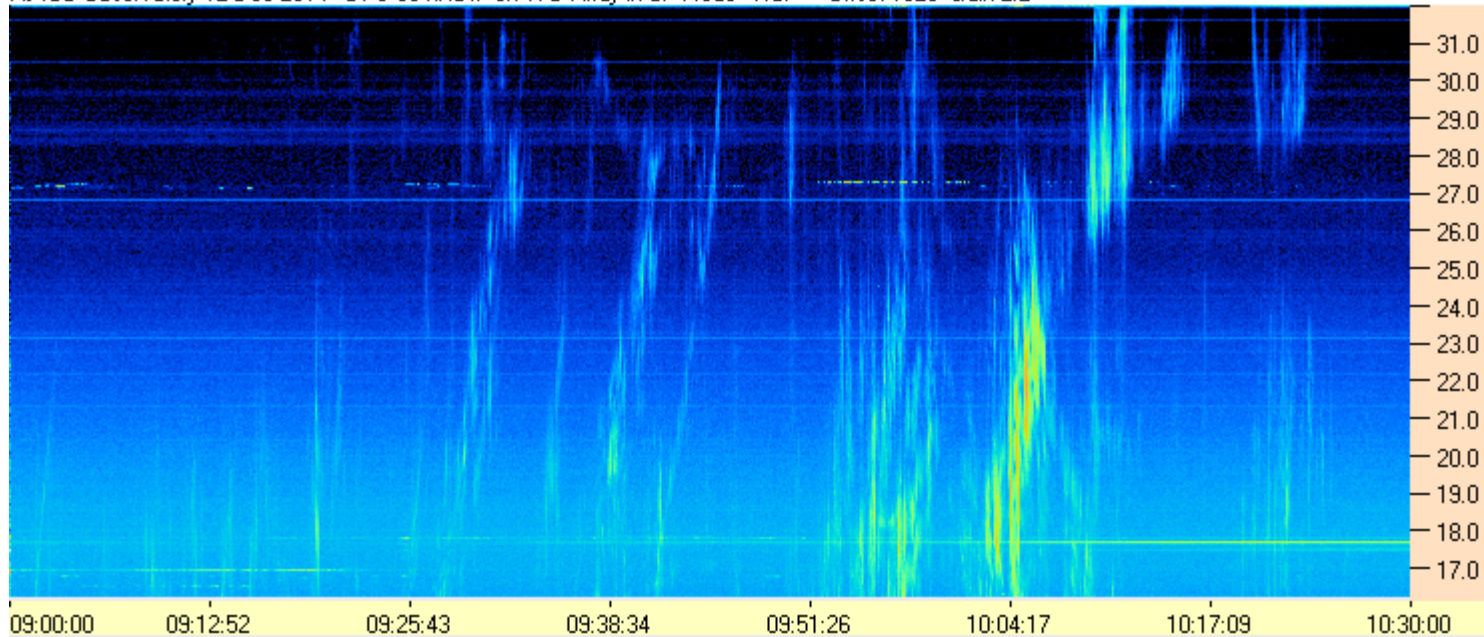
--

Dave

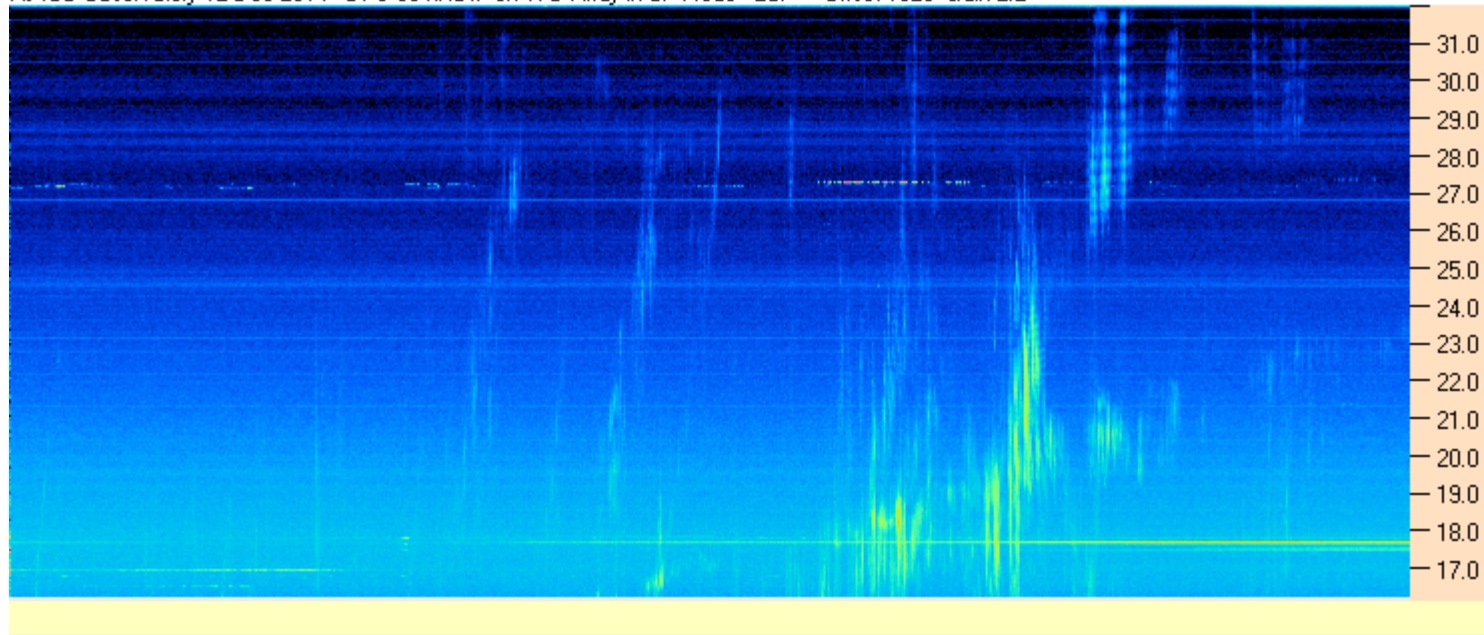
AJ4CO Observatory 12 Dec 2014, log entry 228

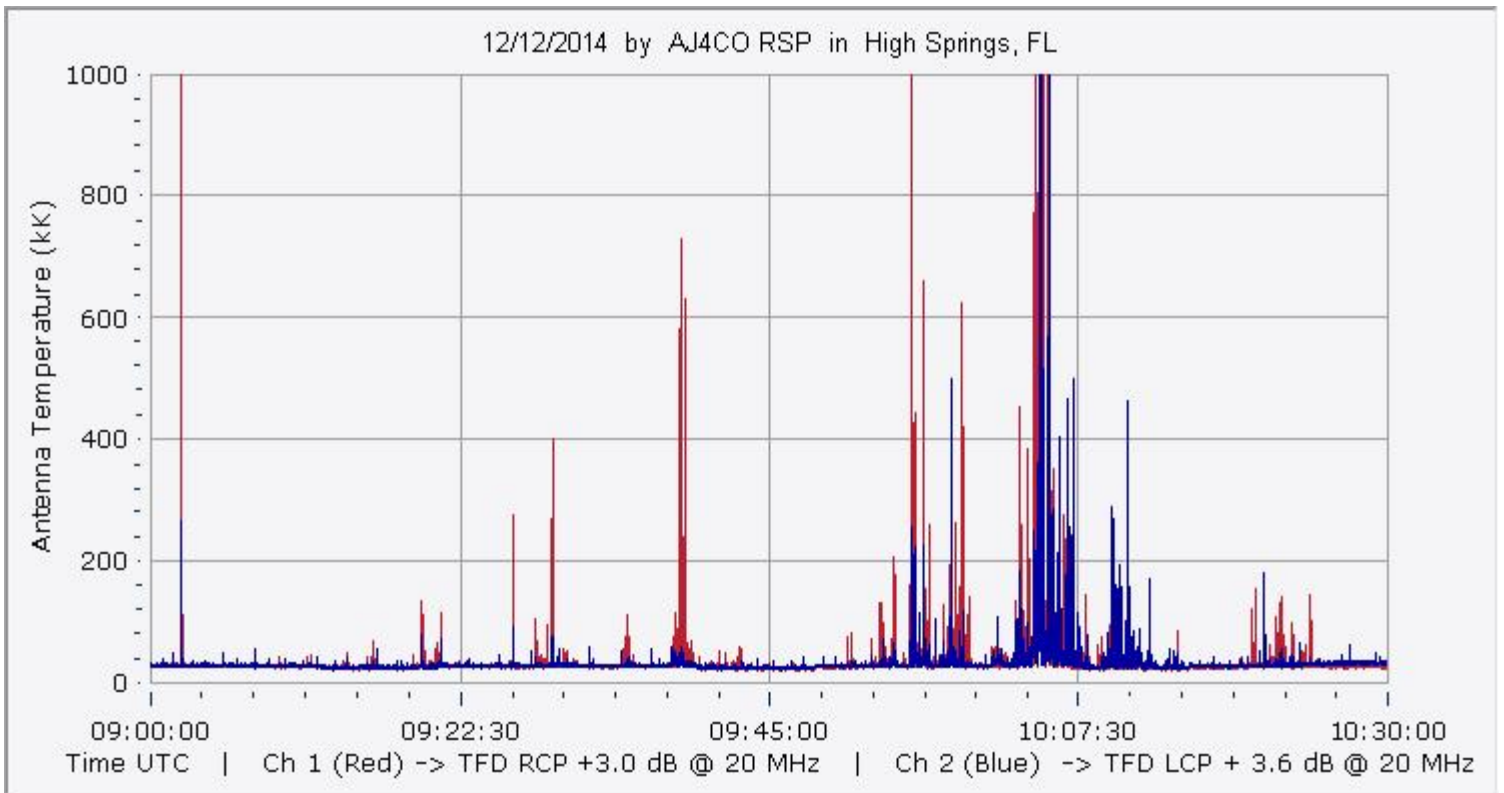


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP Offset 1825 Gain 2.2

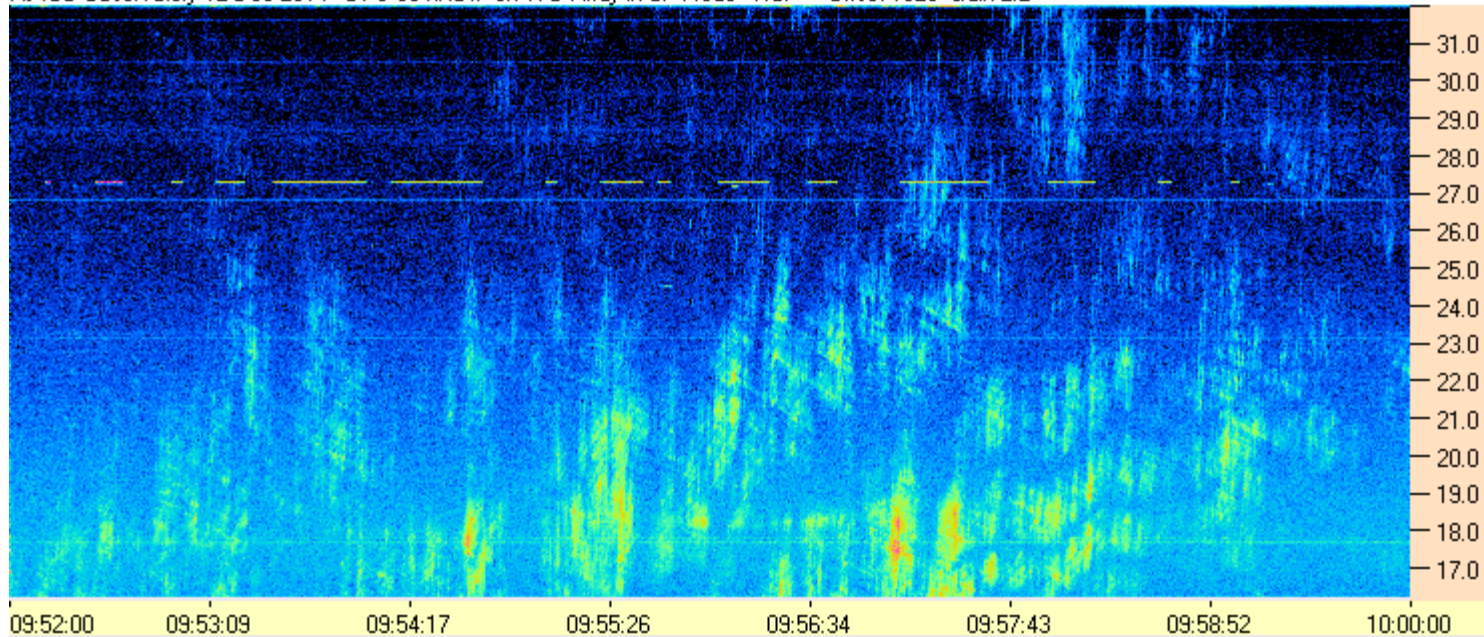


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP Offset 1825 Gain 2.2

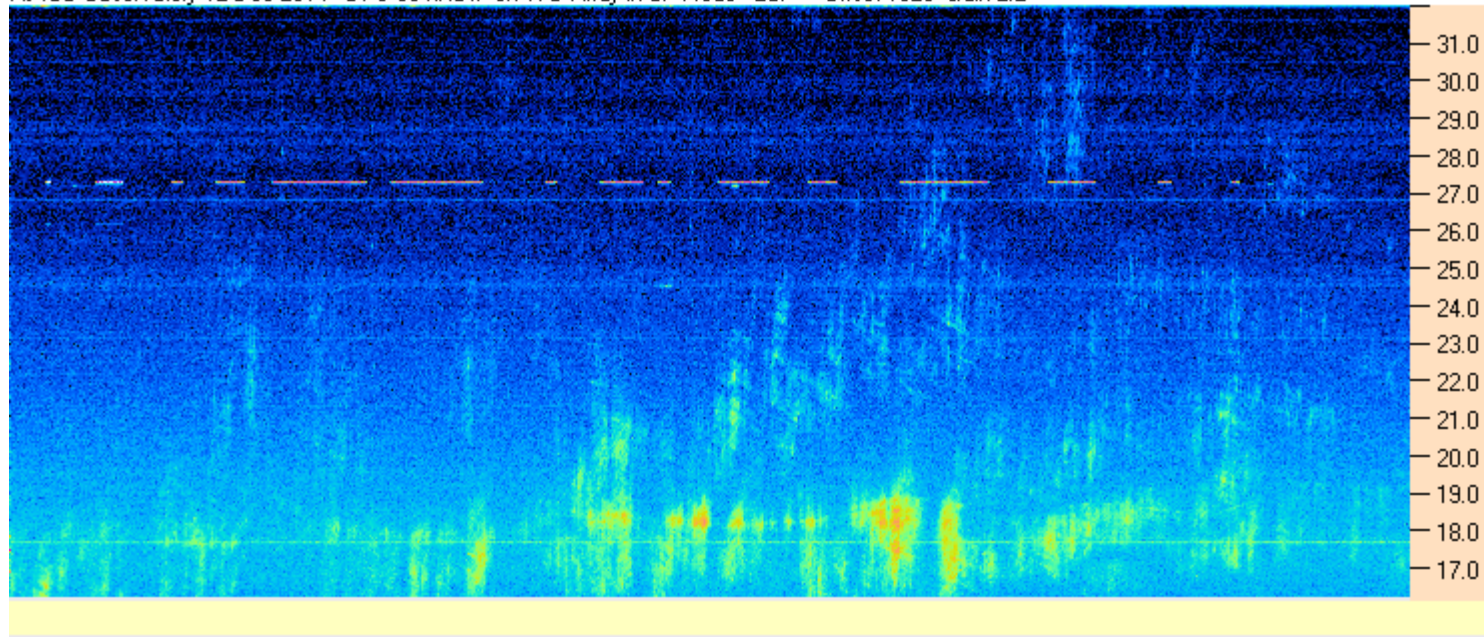


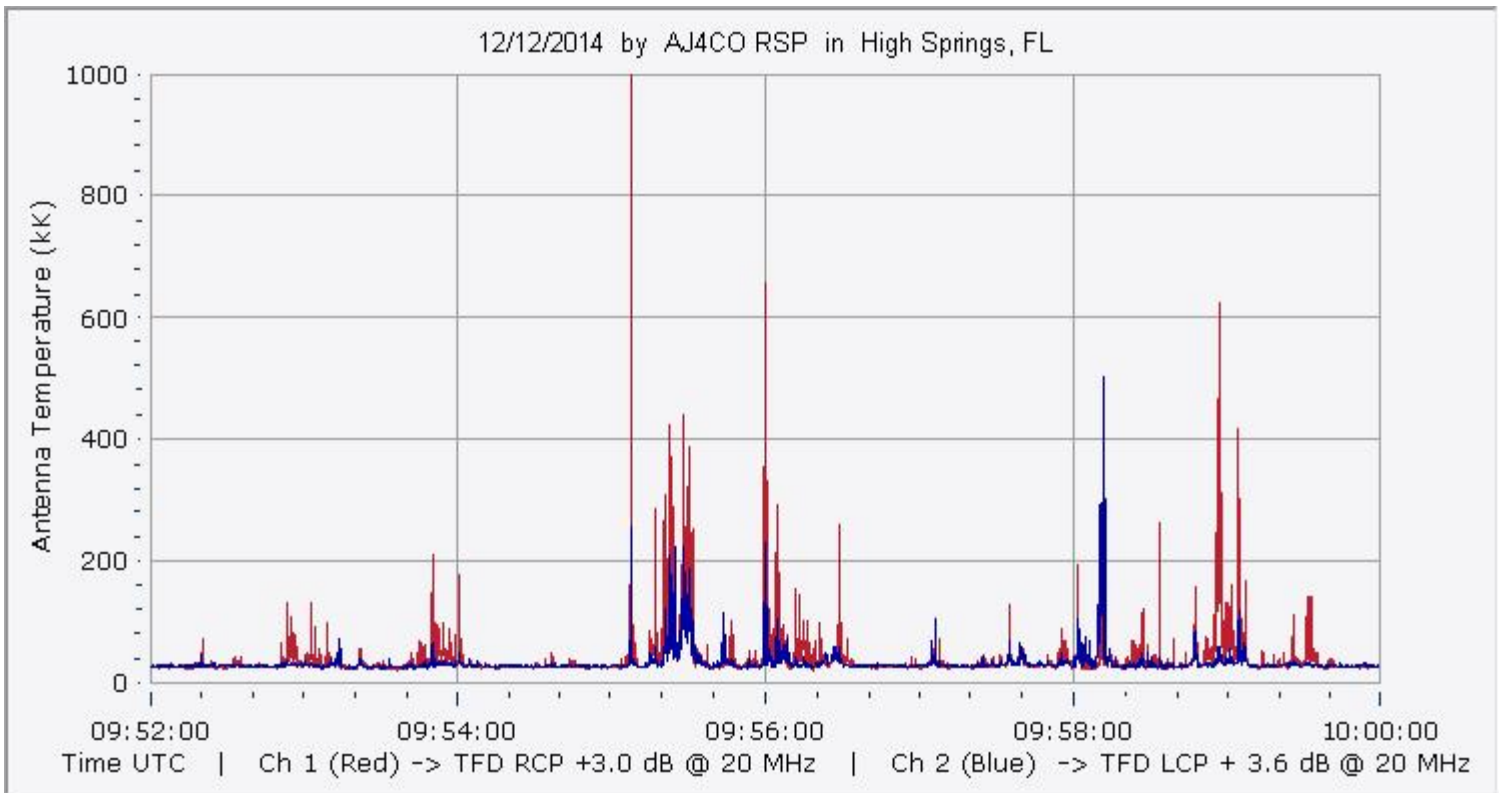


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP Offset 1825 Gain 2.2

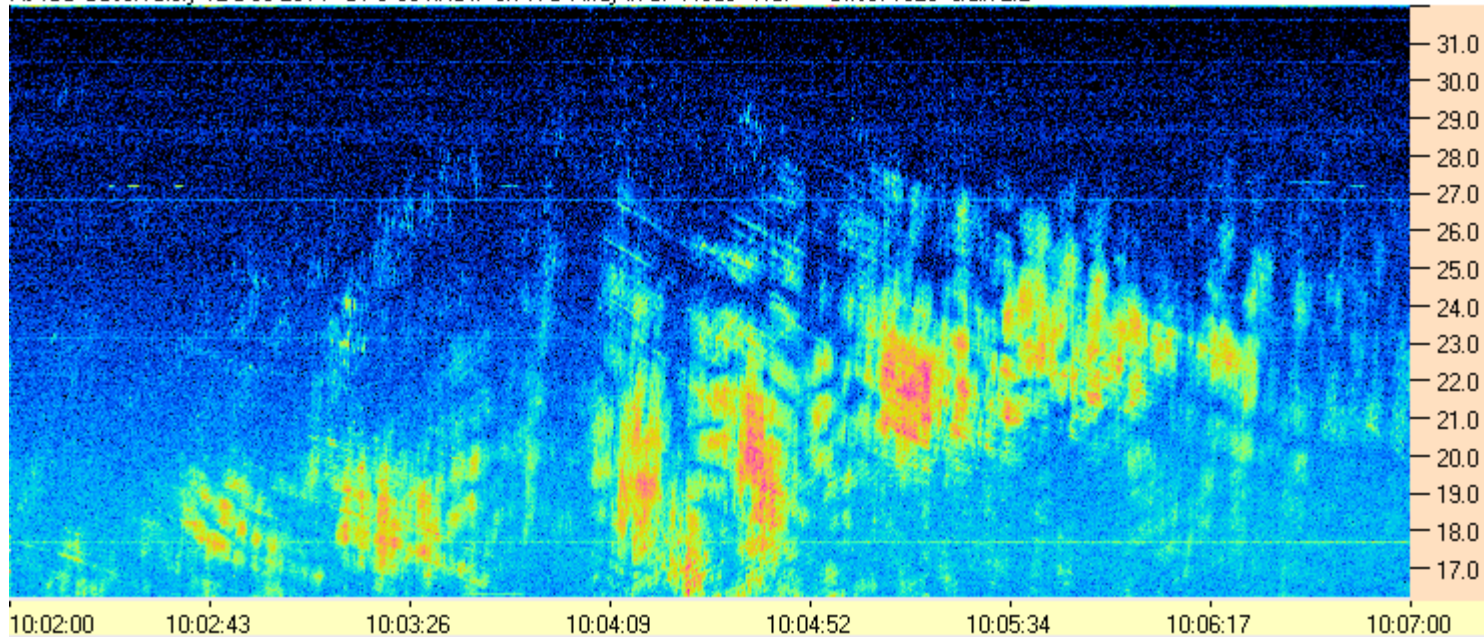


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP Offset 1825 Gain 2.2

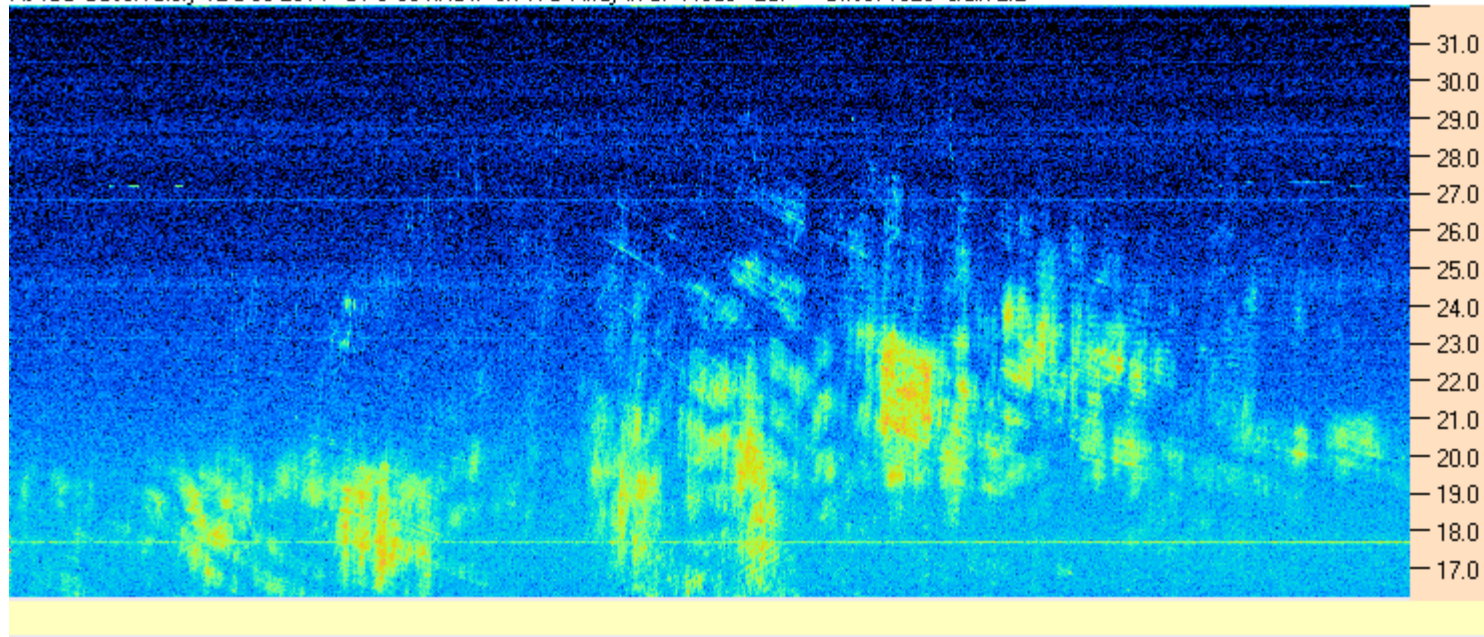


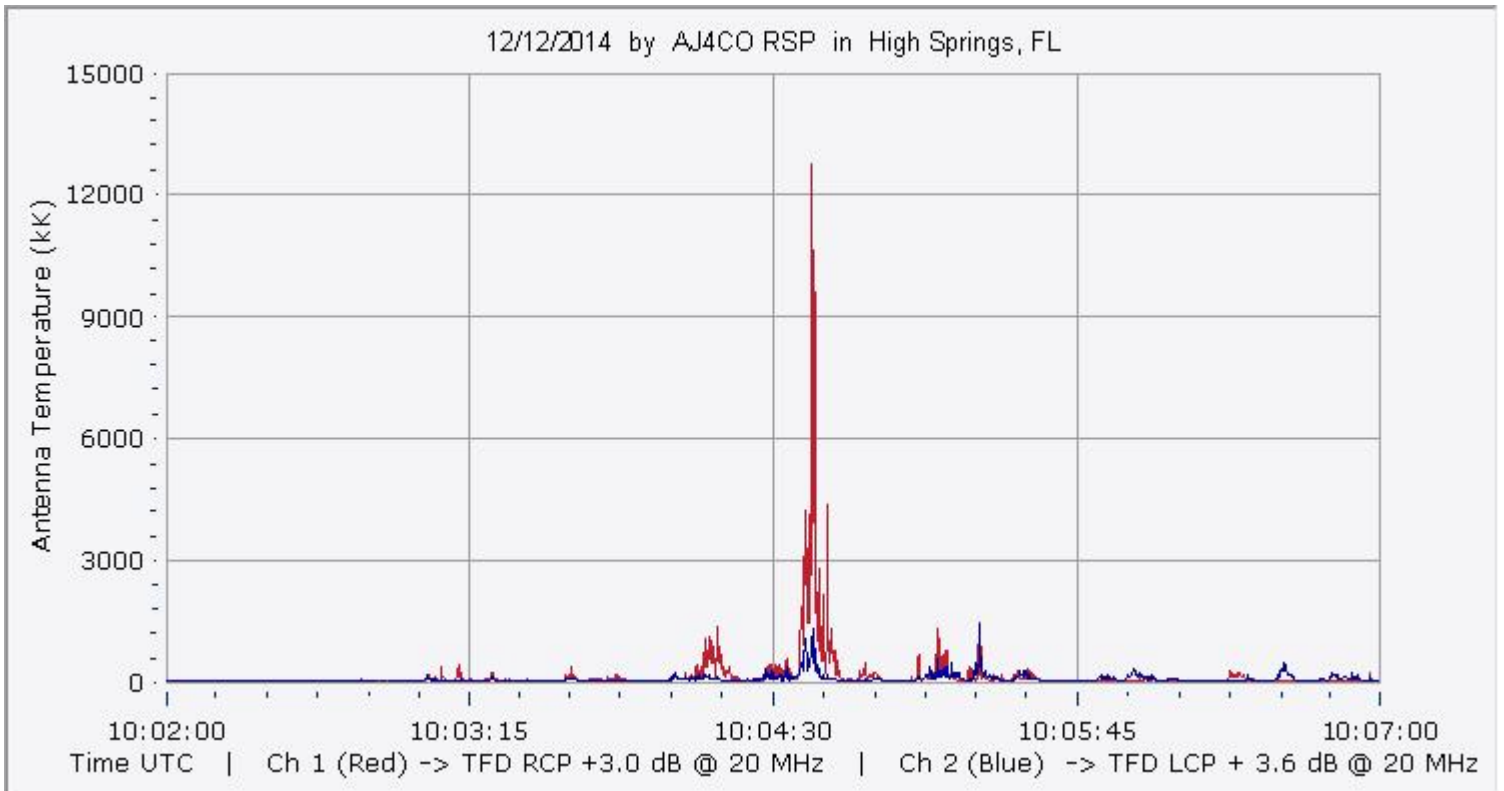
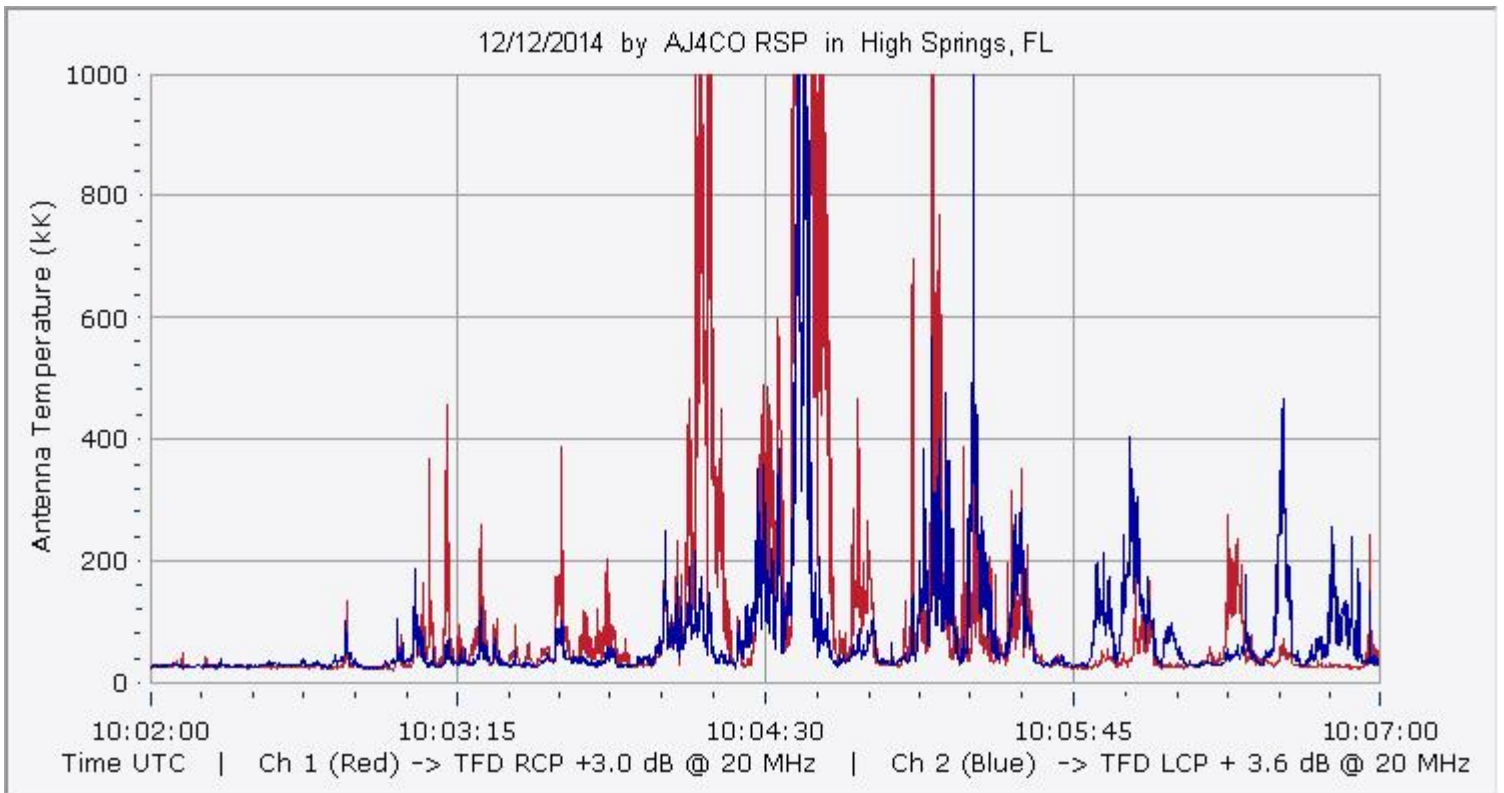


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP Offset 1825 Gain 2.2

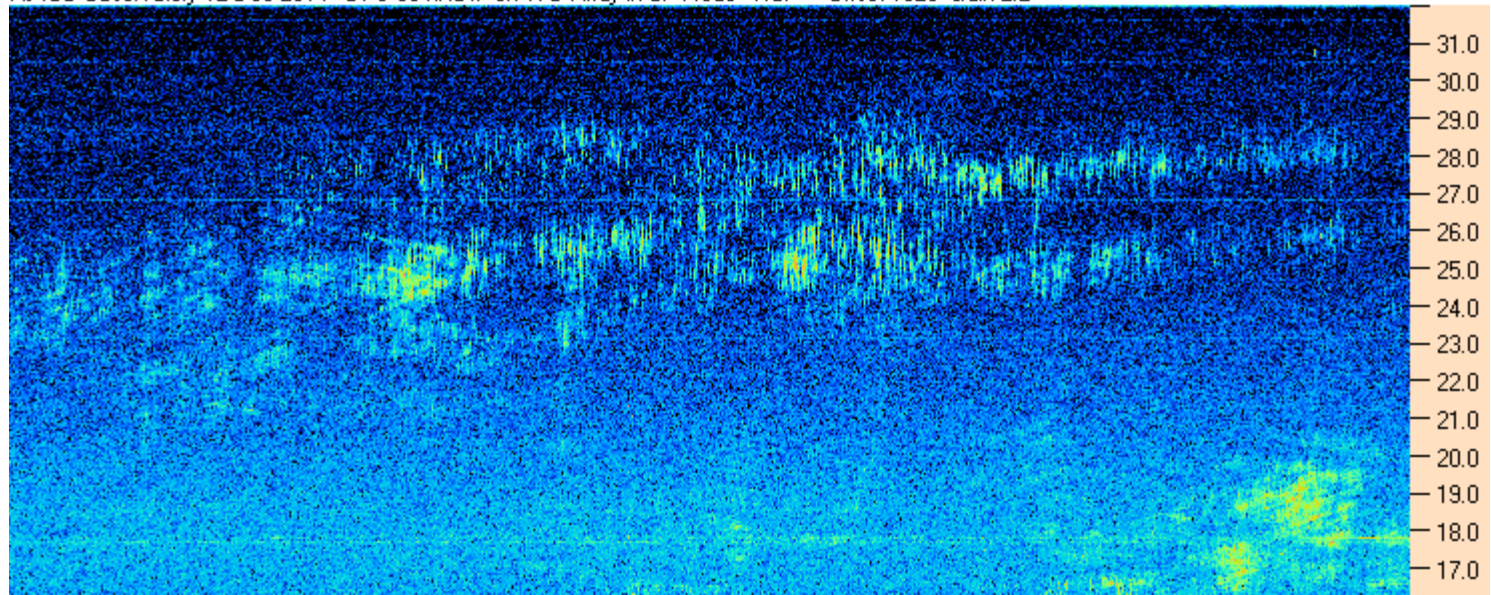


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP Offset 1825 Gain 2.2



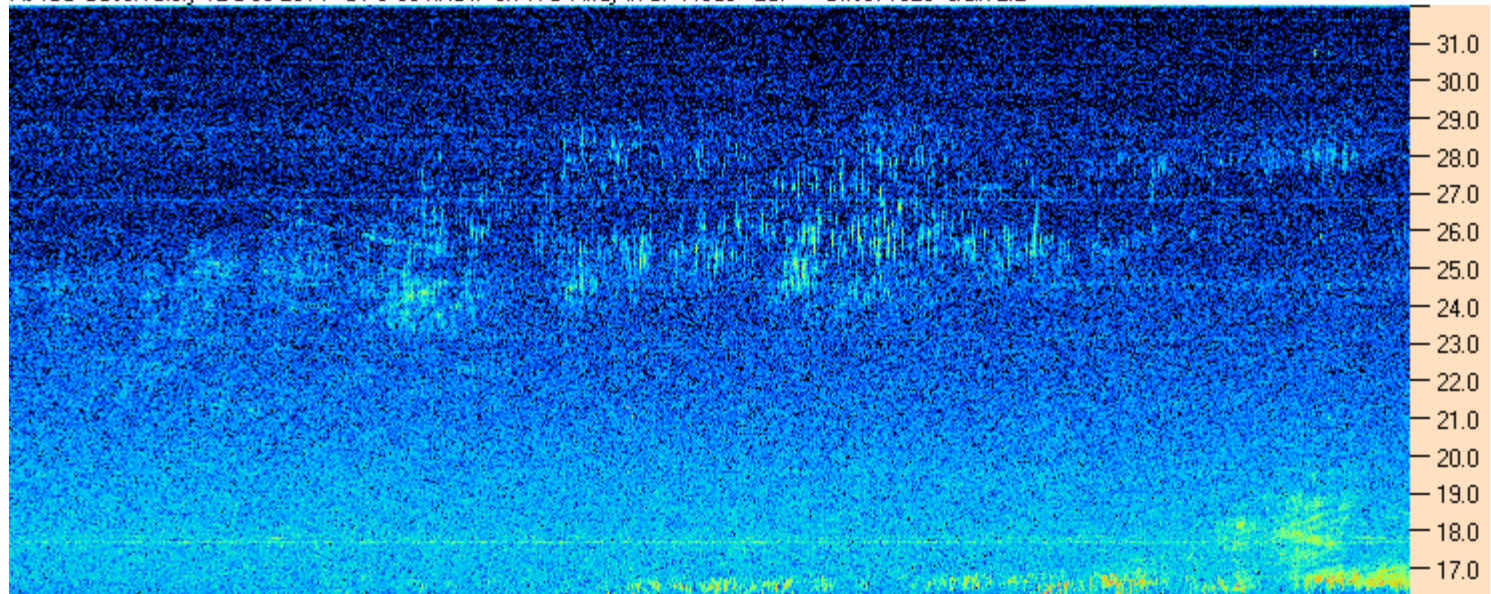


AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP Offset 1825 Gain 2.2

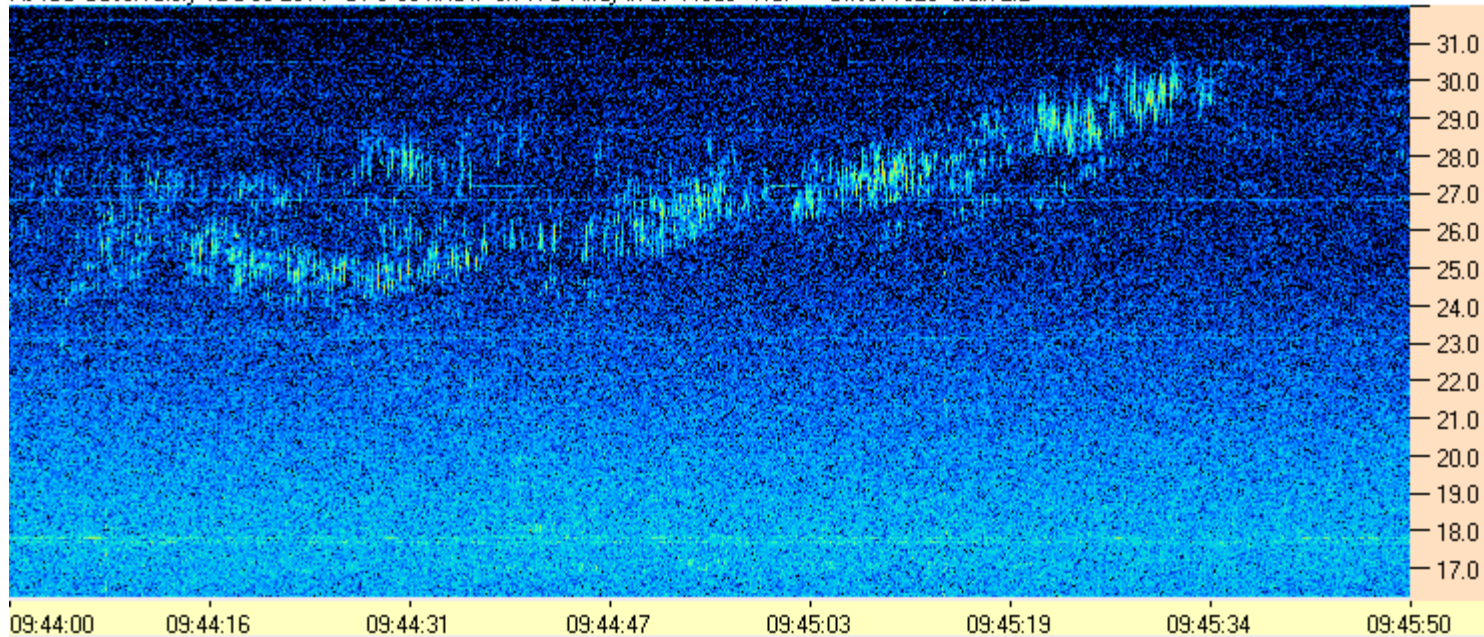


09:40:00.124 09:40:15.819 09:40:31.513 09:40:47.208 09:41:02.902 09:41:18.597 09:41:34.291 09:41:49.986

AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP Offset 1825 Gain 2.2



AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - RCP Offset 1825 Gain 2.2



AJ4CO Observatory 12 Dec 2014 - DPS 30 kHz IF on TFD Array in CP Mode - LCP Offset 1825 Gain 2.2

