

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 12 January 2017

Object: Jupiter Non-Io-A

Observer: Unattended

Start of pass:	0823 UT		
Jupiter Altitude:	27.7 degrees	Jupiter Azimuth:	129.8 degrees
Jupiter CML:	227.54	Jupiter Io Phase:	283.95
Jupiter RA:	13:23	Jupiter Dec:	-07:15
Sun Altitude:	-47.6 degrees	Sun Azimuth:	077.8 degrees
Sun RA:	19:28	Sun Dec:	-21:54

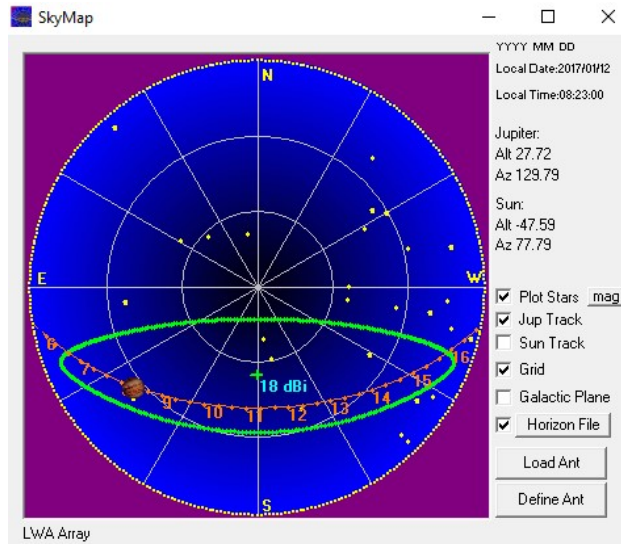
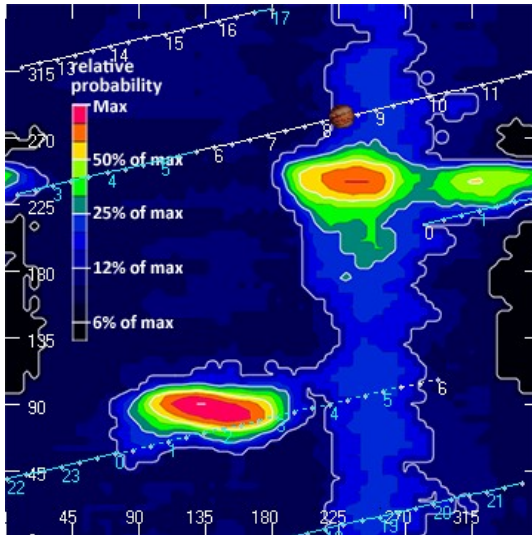
End of pass:	0928 UT		
Jupiter Altitude:	36 degrees	Jupiter Azimuth:	146.2 degrees
Jupiter CML:	266.84	Jupiter Io Phase	293.21
Sun Altitude:	-35 degrees	Sun Azimuth:	089.6 degrees

Observations made using:

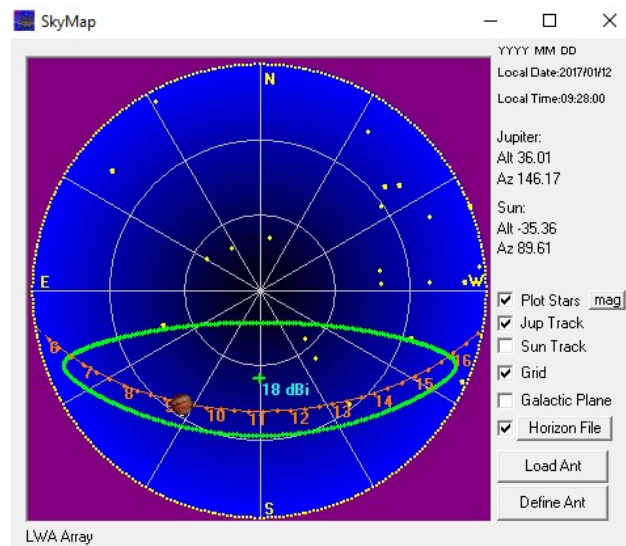
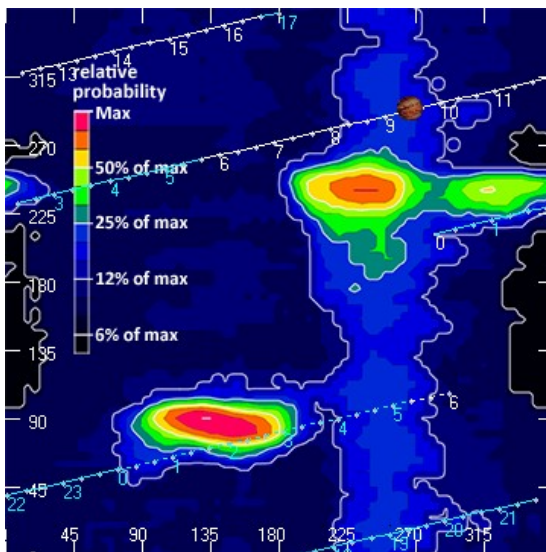
1. FSX-8S fed by the TFD array
 - a. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 – TFD/LCP
 - ii. HNRAO Multicoupler #2 – TFD/RCP
 - iii. Port 1 having 10 dB of gain, all other ports on Multicoupler have approximately 3 dB gain.
2. FSX-2 fed by the LWA array directly
 - a. LWA element configuration – 90 degrees
3. JOVE 2 receiver fed by phased JOVE dipoles @ 10' – phased for 2016-17 season
 - a. Calibrated 28 Nov. 2016
 - b. Connected to dipoles through HNRAO Multicoupler #3, port 1.
4. Icom R75 receiver fed by experimental DDRR antenna directly.
 - a. Calibrated 28 Nov. 2016

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Beginning of Pass



End of Pass

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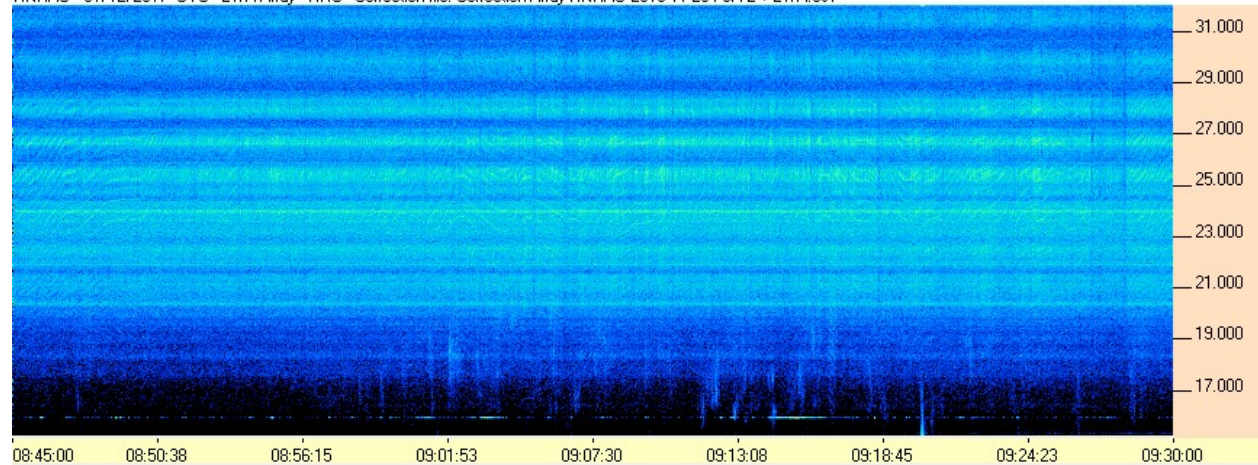
A Non-Io-A event that was so weak it nearly went unidentified. The FSX-2/LWA pair saw this event better than the FSX-8S/TFD pair. It would probably have gone unnoticed by review of the FSX-8S/TFD pair. Beginning at 0823 UT and ending 0928 UT, this emissions sequence frequency range was 15-19 MHz. Consisting of weak L-bursts in a vertical orientation. The strongest single burst occurred at 0920 UT. There is the possibility of some modulation lanes at 0911 UT to 0912 UT but it's difficult to identify. Perhaps other observers will have better resolution. There is little else to report about this event.

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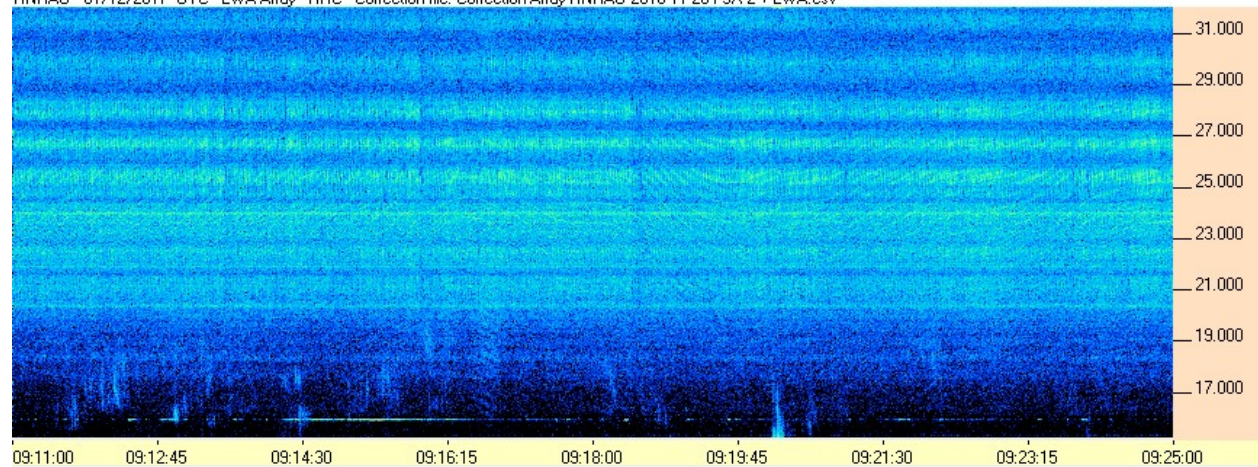


FSX-2/LWA Pair

HNRAO - 01/12/2017 UTC - LWA Array - RHC - Correction file: Correction Array HNRAO 2016 11 20 FSX-2 + LWA.csv



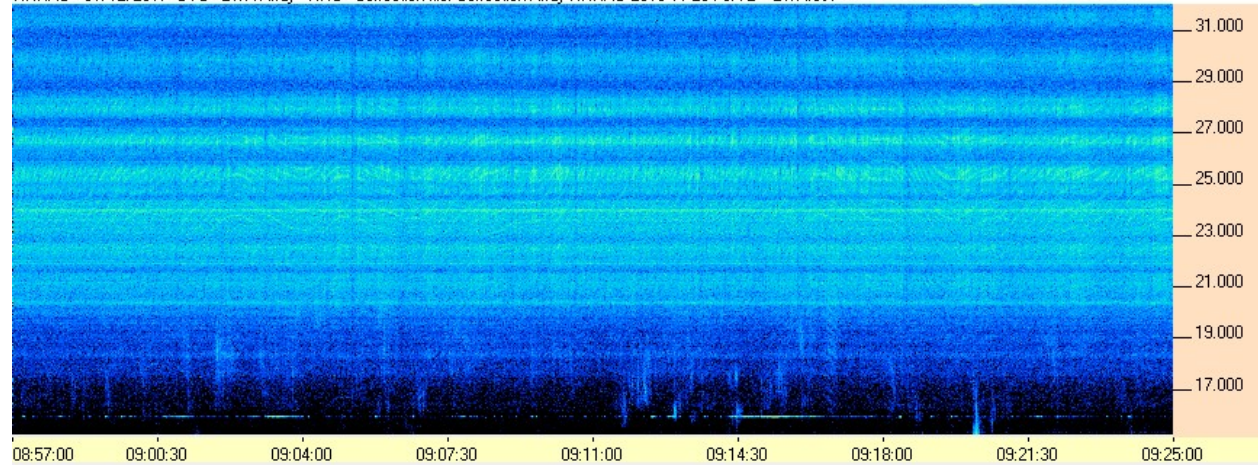
HNRAO - 01/12/2017 UTC - LWA Array - RHC - Correction file: Correction Array HNRAO 2016 11 20 FSX-2 + LWA.csv



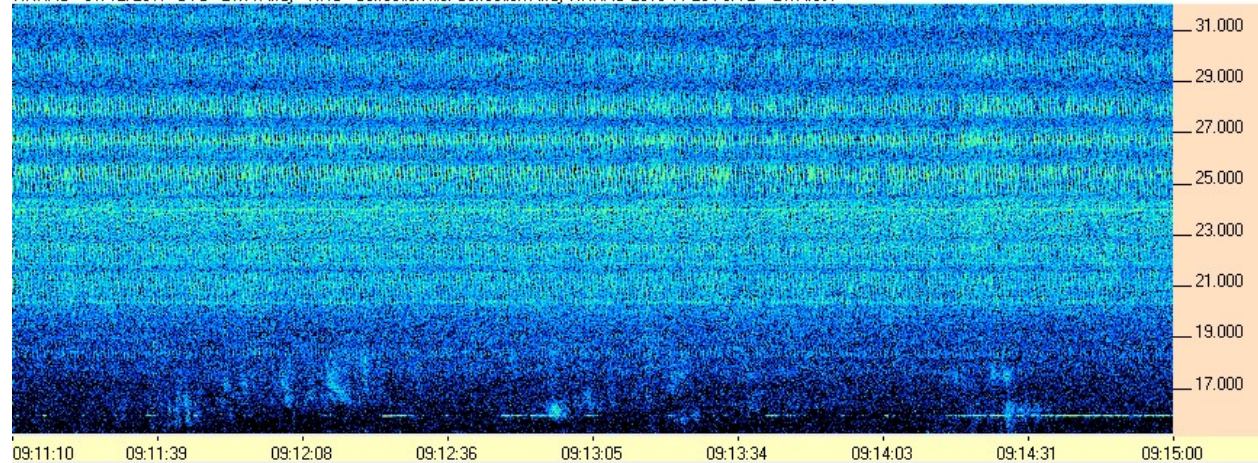
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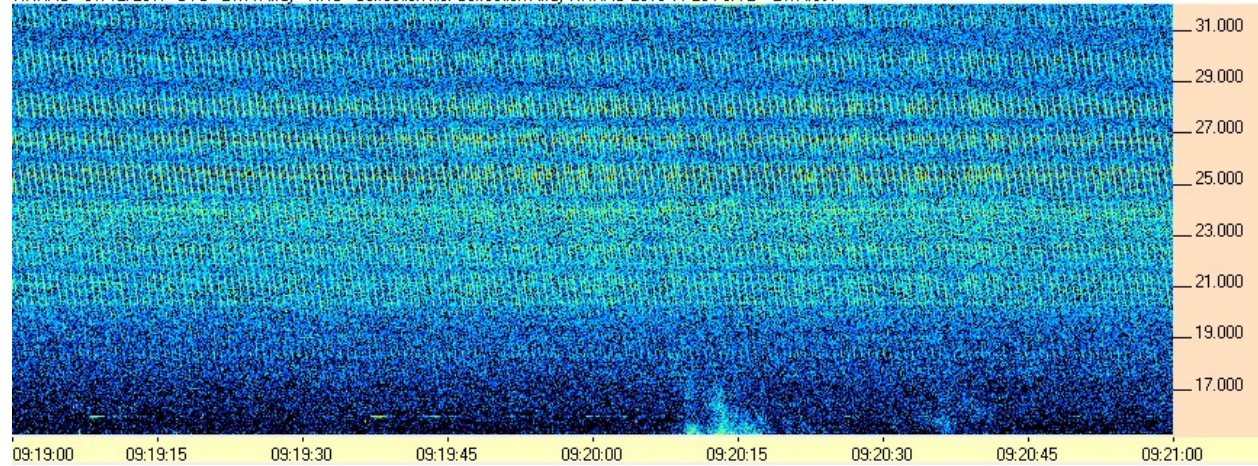
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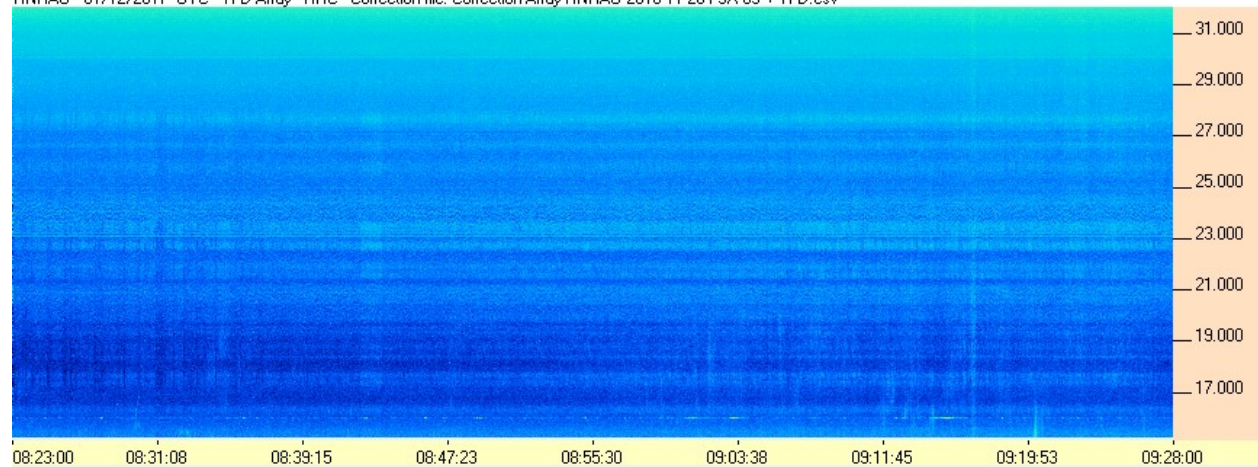


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FSX-8S/TFD Pair

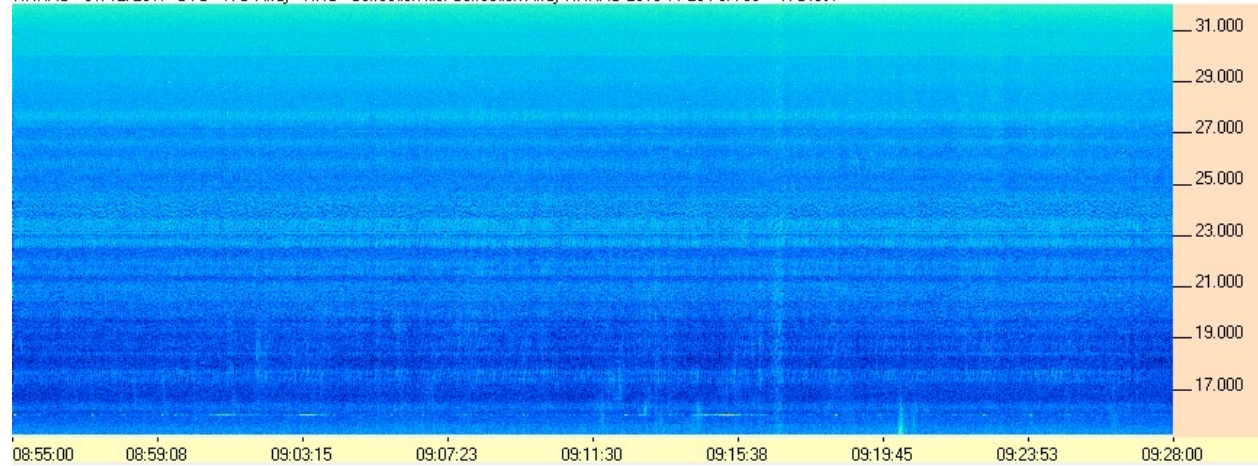
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