

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 17 February 2017

Object: Jupiter – Non-Io-A

Observer: Unattended

Start of pass:	0715 UT	Planetary K-index:	
Jupiter Altitude:	36.3 degrees	Jupiter Azimuth:	147.6 degrees
Jupiter CML:	207.71	Jupiter Io Phase:	040.11
Jupiter RA:	13:26	Jupiter Dec:	-07:28
Hour Angle:	-01:43	Polarization	RCP
Sun Altitude:	-53.4 degrees	Sun Azimuth:	047.3 degrees
Sun RA:	21:56	Sun Dec:	-12:33

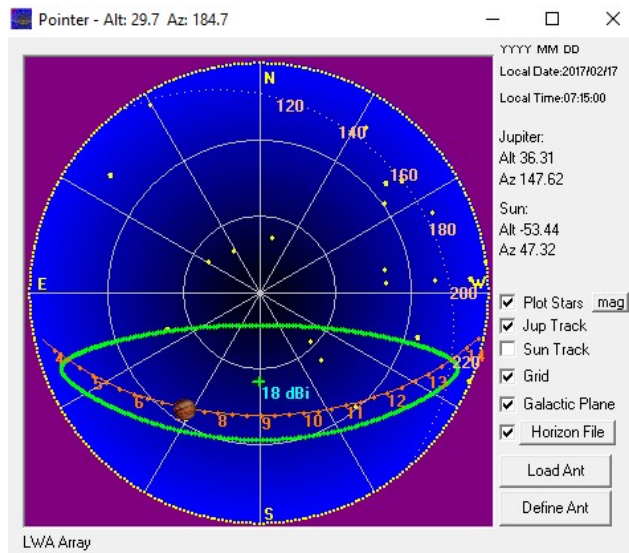
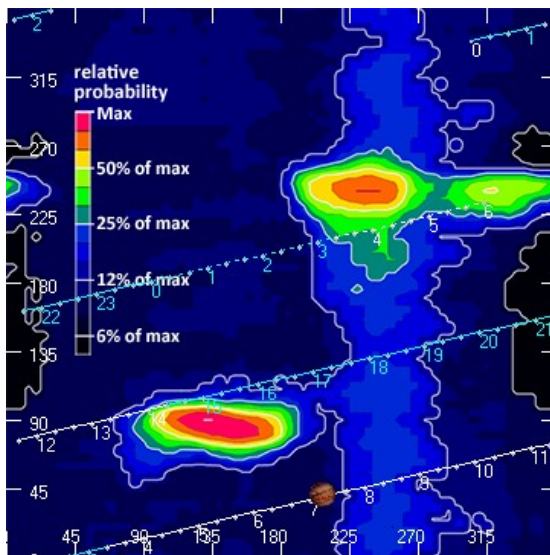
End of pass:	0800 UT		
Jupiter Altitude:	40.0 degrees	Jupiter Azimuth:	161.1 degrees
Jupiter CML:	234.92	Jupiter Io Phase	046.42
Hour Angle:	-00:58		
Sun Altitude:	-46.5 degrees	Sun Azimuth:	060.6 degrees

Observations made using:

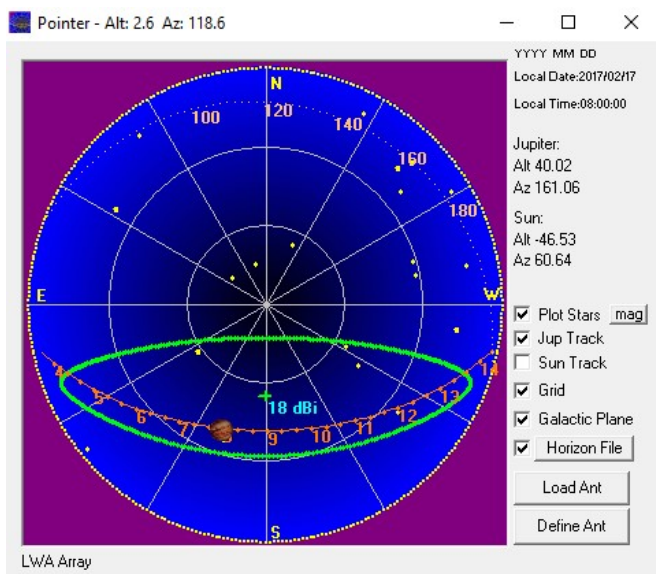
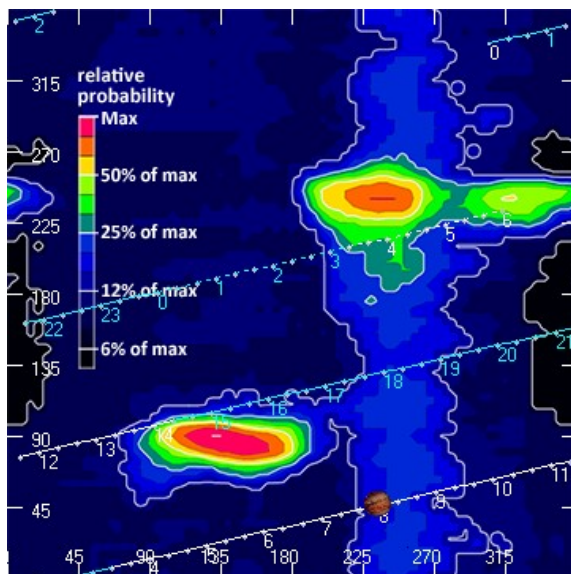
1. FSX-8S fed by the TFD array
 - a. 7.7 dB loss between TFD and Multicouplers.
 - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 – TFD/LCP
 - ii. HNRAO Multicoupler #2 – TFD/RCP
 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.
2. FSX-2 fed by the LWA array directly
 - a. LWA element configuration – 90 degrees
3. JOVE 2 receiver fed by phased JOVE dipoles @ 10'
 - a. 12' phase cable - phased for 2016-17 season
 - b. Calibrated 4 February 2017
 - c. Connected to dipoles through HNRAO Multicoupler #3, port 1.
 - i. 3.165 dB loss between Multicoupler and dipoles.
4. Icom R75 receiver fed by experimental DDRR antenna directly.
 - a. Calibrated 4 February 2017

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Beginning of Pass



End of Pass

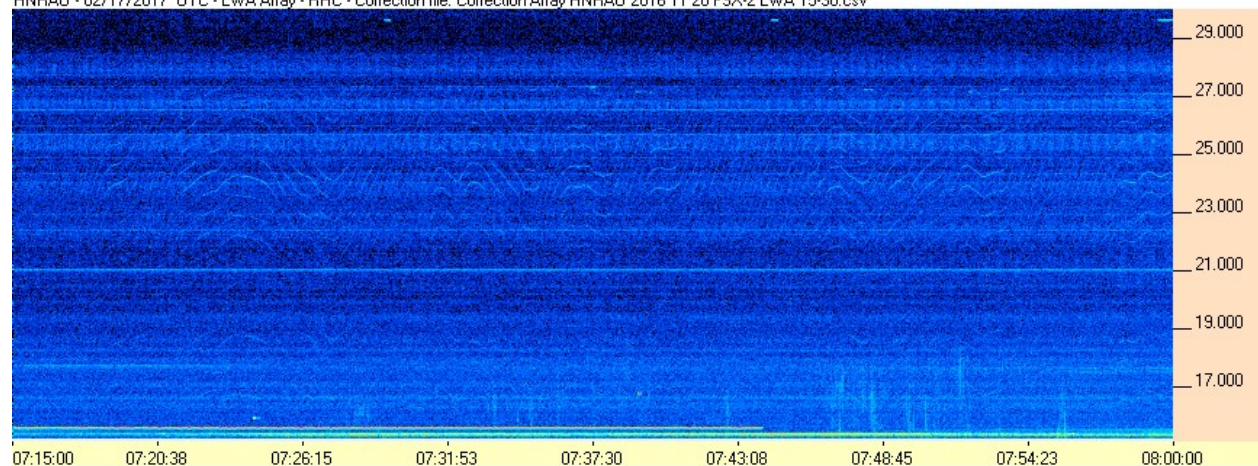
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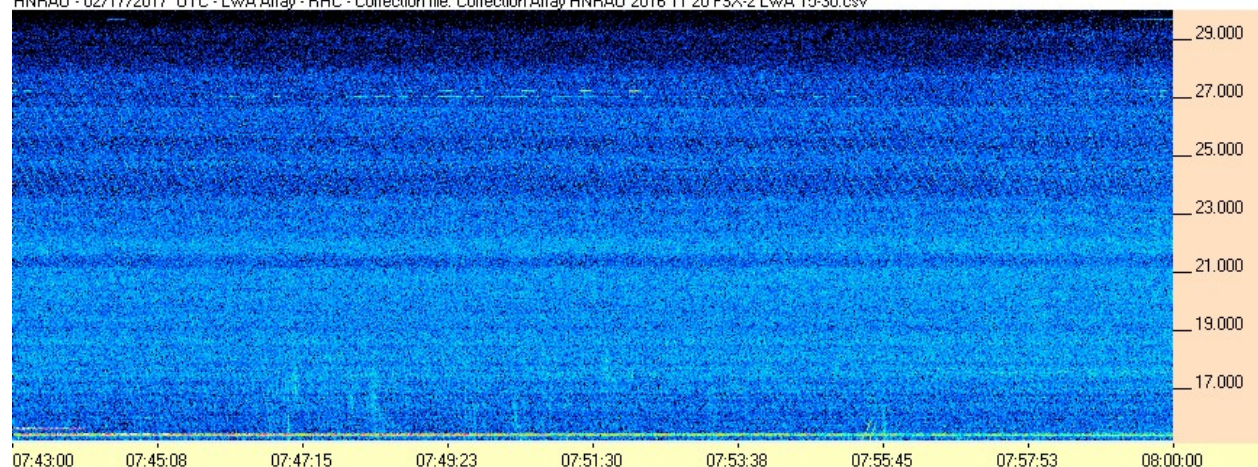
An unattended observation of a very weak Non-Io-A event as to have almost gone completely unnoticed. It was necessary to get a confirmation from LGM Alachua that this was a Jupiter emission. Positive slope, RCP L-bursts spanning 15-19 MHz. The only thing remarkable about this event is that it continues the pattern of this apparition of very weak emissions.

FSX-2/LWA Pair

HNRAO - 02/17/2017 UTC - LWA Array - RHC - Correction file: Correction Array HNRAO 2016 11 20 FSX-2 LWA 15-30.csv



HNRAO - 02/17/2017 UTC - LWA Array - RHC - Correction file: Correction Array HNRAO 2016 11 20 FSX-2 LWA 15-30.csv

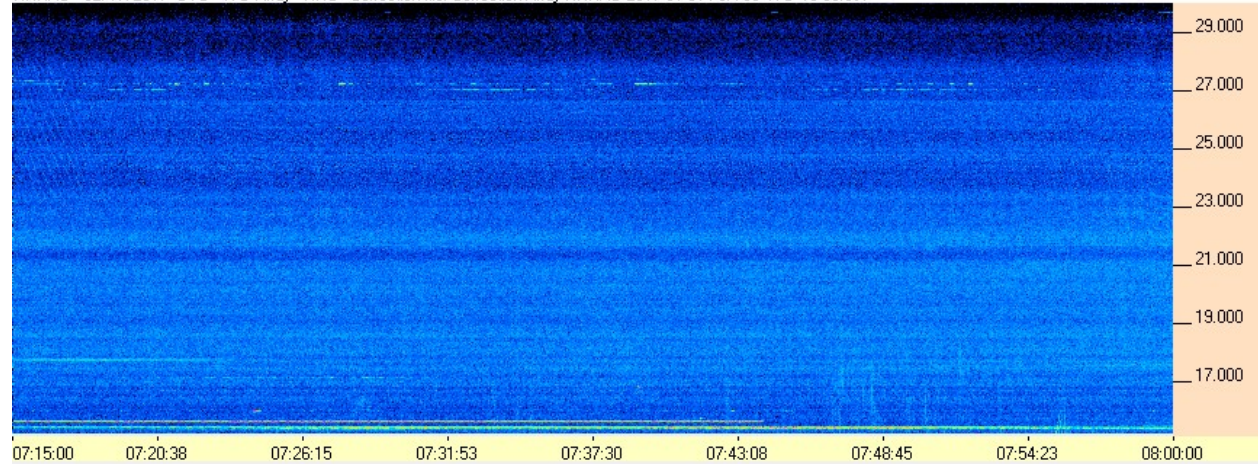


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FSX-8S/TFD Pair

HNRAO - 02/17/2017 UTC - TFD Array - RHC - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv



HNRAO - 02/17/2017 UTC - TFD Array - RHC - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv

