

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 20 February 2017

Object: Jupiter

Observer: Unattended

Start of pass:	0720 UT	Planetary K-index:	3
Jupiter Altitude:	38 degrees	Jupiter Azimuth:	152.5 degrees
Jupiter CML:	302.66	Jupiter Io Phase:	291.43
Jupiter RA:	13:26	Jupiter Dec:	-07:25
Hour Angle:	-01:26	Polarization	RCP
Sun Altitude:	-51.9 degrees	Sun Azimuth:	048.1 degrees
Sun RA:	22:08	Sun Dec:	-11:30

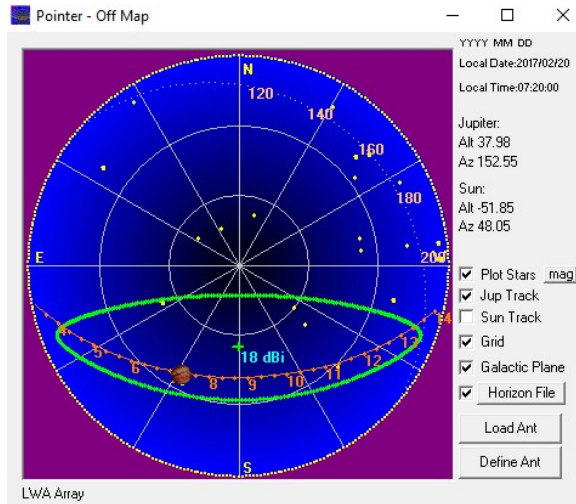
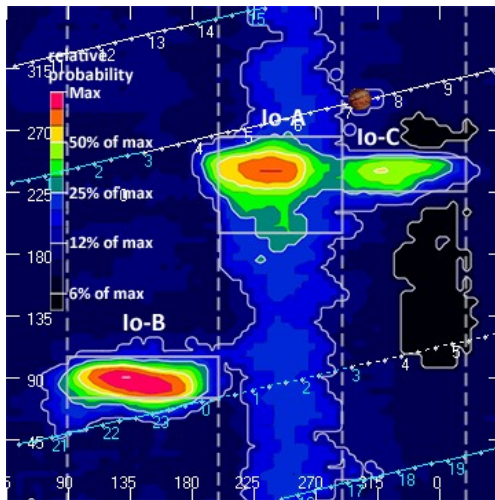
End of pass:	0745 UT		
Jupiter Altitude:	39.9 degrees	Jupiter Azimuth:	160.2 degrees
Jupiter CML:	317.77	Jupiter Io Phase	294.98
Hour Angle:	-01:01		
Sun Altitude:	-48.1 degrees	Sun Azimuth:	055.6 degrees

Observations made using:

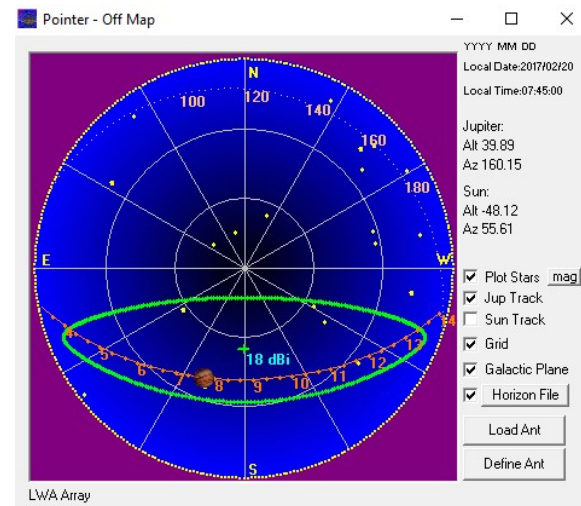
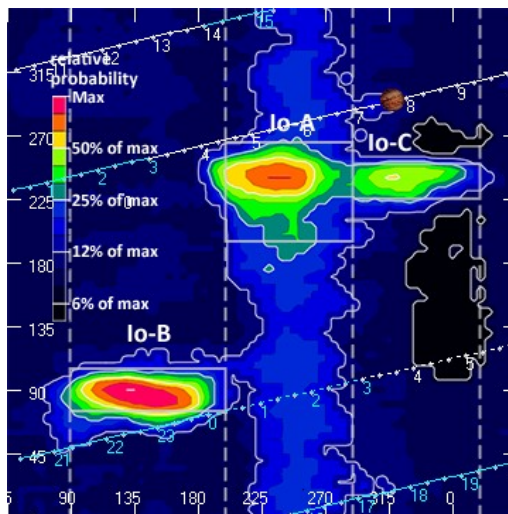
1. FSX-8S fed by the TFD array
 - a. 7.7 dB loss between TFD and Multicouplers.
 - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 – TFD/LCP
 - ii. HNRAO Multicoupler #2 – TFD/RCP
 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.
2. FSX-2 fed 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

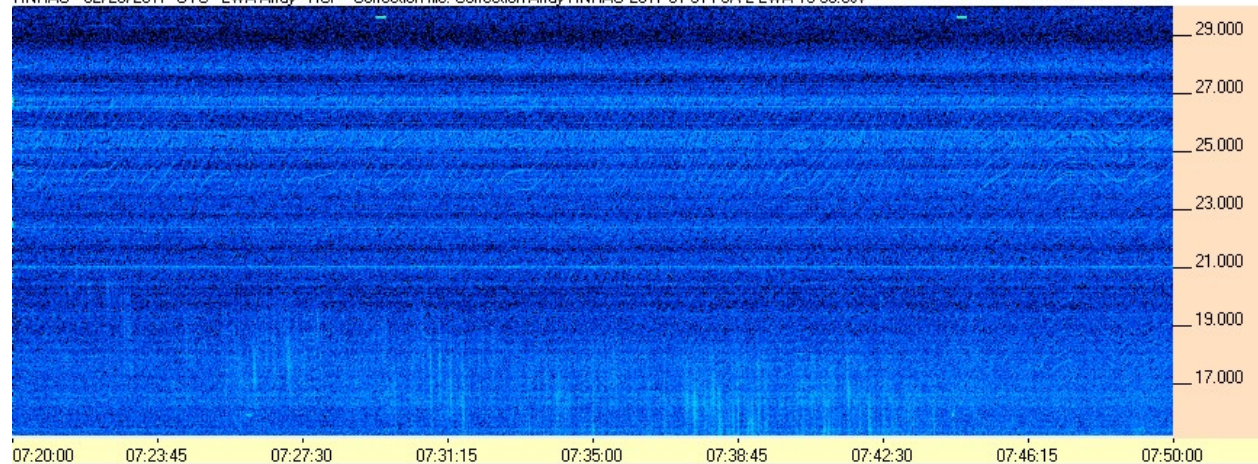
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A very weak, negative drift, late vertex emission, in the CML of Non-Io-C. Appear to be L-burst. No discernable modulation lanes. 19-15 MHz.

FSX-2/LWA Pair

HNRAO - 02/20/2017 UTC - LWA Array - RCP - Correction file: CorrectionArray HNRAO 2017 01 31 FSX-2 LWA 15-30.csv

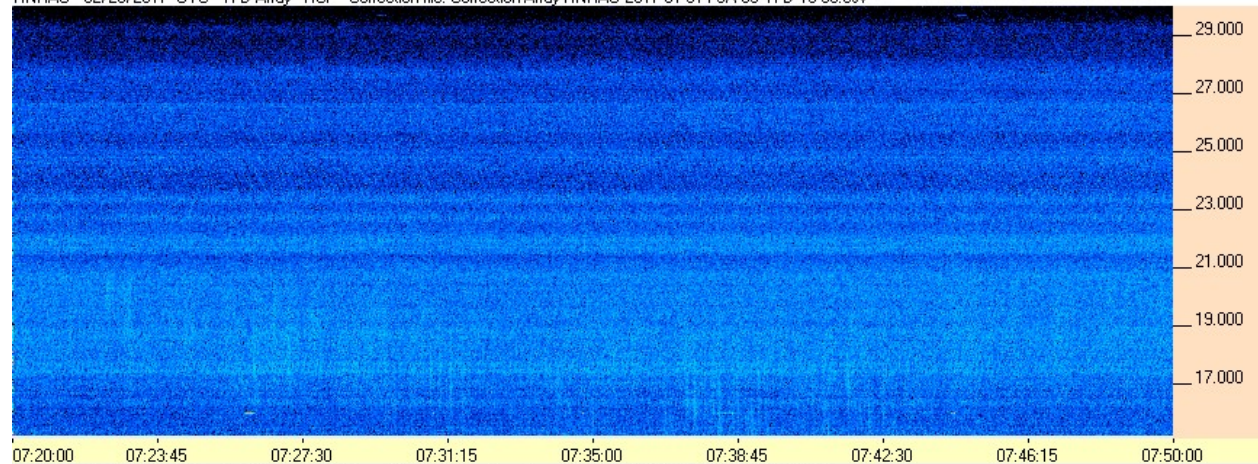


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FSX-8S/TFD Pair

HNRAO - 02/20/2017 UTC - TFD Array - RCP - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv



HNRAO - 02/20/2017 UTC - TFD Array - LCP - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv

