

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 16 January 2017

Object: Jupiter – Non-Io-A

Observer: Unattended

Start of pass:	1223 UT		
Jupiter Altitude:	38.4 degrees	Jupiter Azimuth:	206.3 degrees
Jupiter CML:	254.83	Jupiter Io Phase:	051.98
Jupiter RA:	13:24	Jupiter Dec:	-07:21
Sun Altitude:	-03.1 degrees	Sun Azimuth:	115.5 degrees
Sun RA:	19:46	Sun Dec:	-21:12

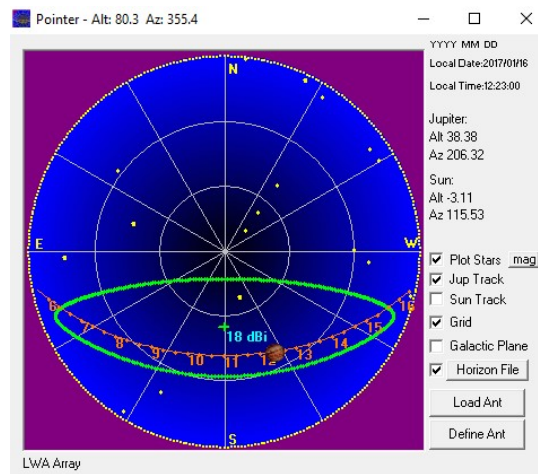
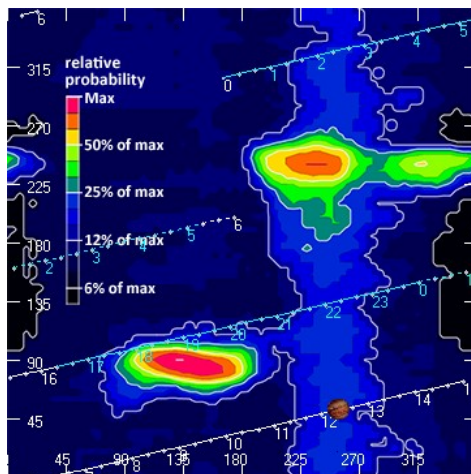
End of pass:	1226 UT		
Jupiter Altitude:	38.1 degrees	Jupiter Azimuth:	207.2
Jupiter CML:	256.64	Jupiter Io Phase	052.40
Sun Altitude:	-02.6 degrees	Sun Azimuth:	116.0 degrees

Observations made using:

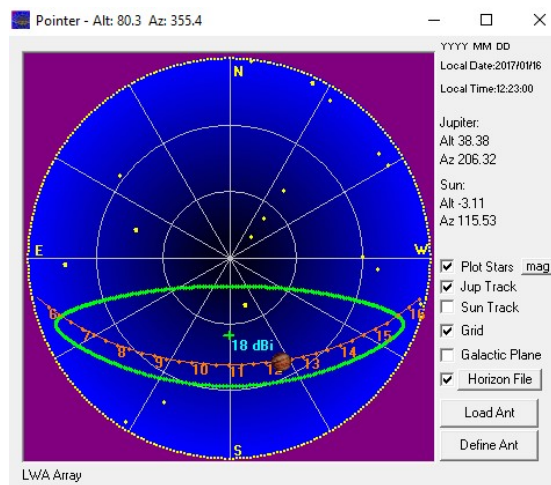
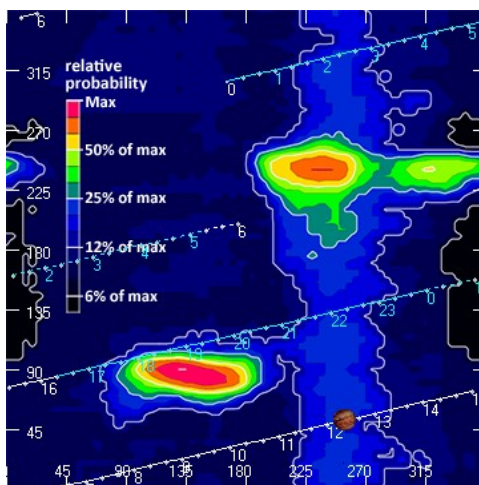
1. FSX-8S fed by the TFD array
 - a. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 – TFD/LCP
 - ii. HNRAO Multicoupler #2 – TFD/RCP
 - iii. Port 1 having 10 dB of gain, all other ports on Multicoupler have approximately 3 dB gain.
2. FSX-2 fed by the LWA array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

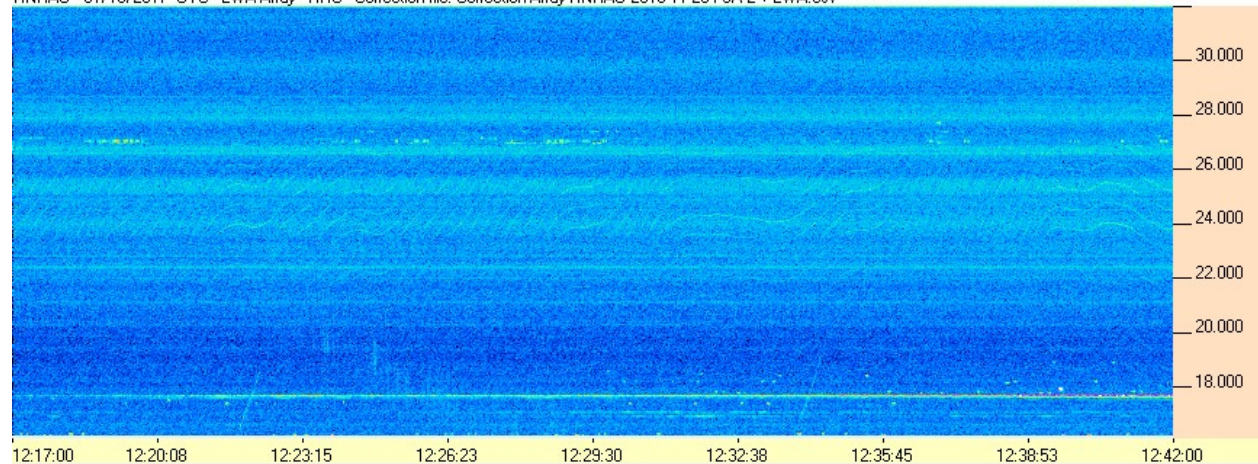
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A Non-Io-A event that was observed here so weak as to have almost been unnoticed. Seen from this location, the event began at approximately 1223 UT and ended about 1226 UT. Composed of vertical L-bursts, it began around 20 MHz and had a negative slope until it's end about 17 MHz.

FSX-2

HNRAO - 01/16/2017 UTC - LWA Array - RHC - Correction file: Correction Array HNRAO 2016 11 20 FSX-2 + LWA.csv



FSX-8S

HNRAO - 01/16/2017 UTC - TFD Array - RHC - Correction file: Correction Array HNRAO 2016 11 20 FSX-8S + TFD.csv

