HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq

Date: 17 January 2017

Object: Jupiter – Io-C

Observer: Unattended

Start of pass:	**0940 UT**		
Jupiter Altitude:	**38.7 degrees**	**Jupiter Azimuth:**	**155.0 degrees**
Jupiter CML:	**30684**	**Jupiter Io Phase:**	**231.68**
Jupiter RA:	**13:24**	**Jupiter Dec:**	**-07:23**
Sun Altitude:	**-32.9 degrees**	**Sun Azimuth:**	**090.4 degrees**
Sun RA:	**19:50**	**Sun Dec:**	**-21.02**

End of pass:			
Jupiter Altitude:		**Jupiter Azimuth:**	
Jupiter CML:		**Jupiter Io Phase**	
Sun Altitude:		**Sun Azimuth:**	

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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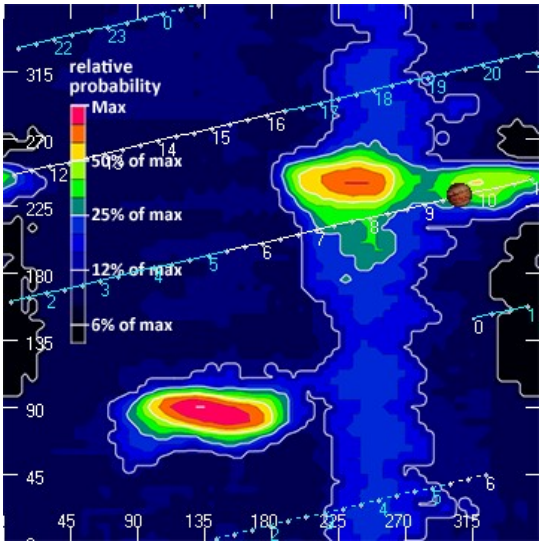
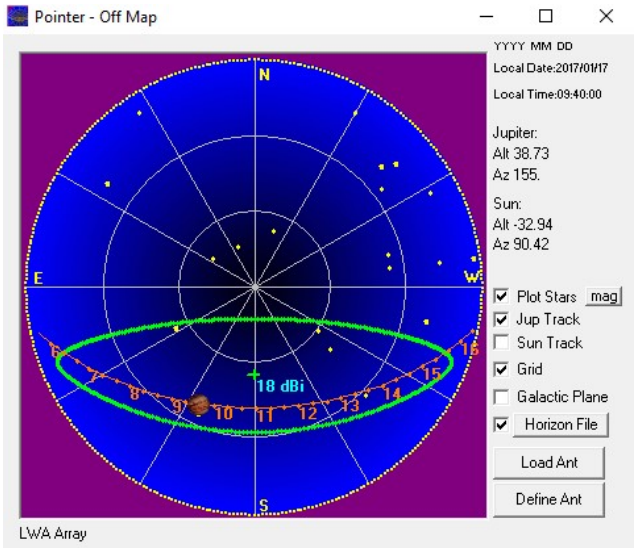
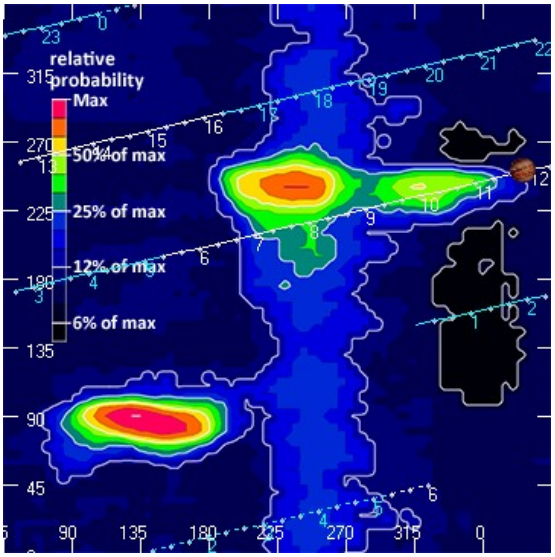
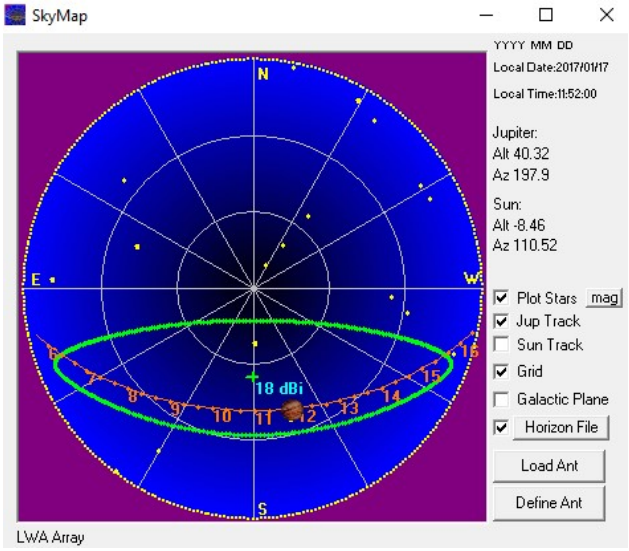




Beginning of Pass





End of Pass

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Observing conditions here were not ideal. Line noise that has plagued the observatory for the past week continues unabated. In spite of that, the emissions were strong enough to resolve. Outside temperatures were in the upper 40's F, cloudy with light precipitation.

An early morning Io-C on the east coast. Early emissions were RCP from 0940 UT through 0950 UT. All emissions were below 18 MHz. LHC emissions resumed at about 11:18 UT in a short lived N-event. Following that were apparent L-bursts or possibly S-bursts but resolution makes positive identifications difficult. These emissions were seen between 1121 UT and 1137 UT. All emissions between 16-18 MHz. At about 1145 UT emissions resumed with what appear to be L-bursts, again between 16-18 MHz.

As an unattended observation, no galactic background measurements were made. There were no emissions at the Radio JOVE frequency.

End of report.

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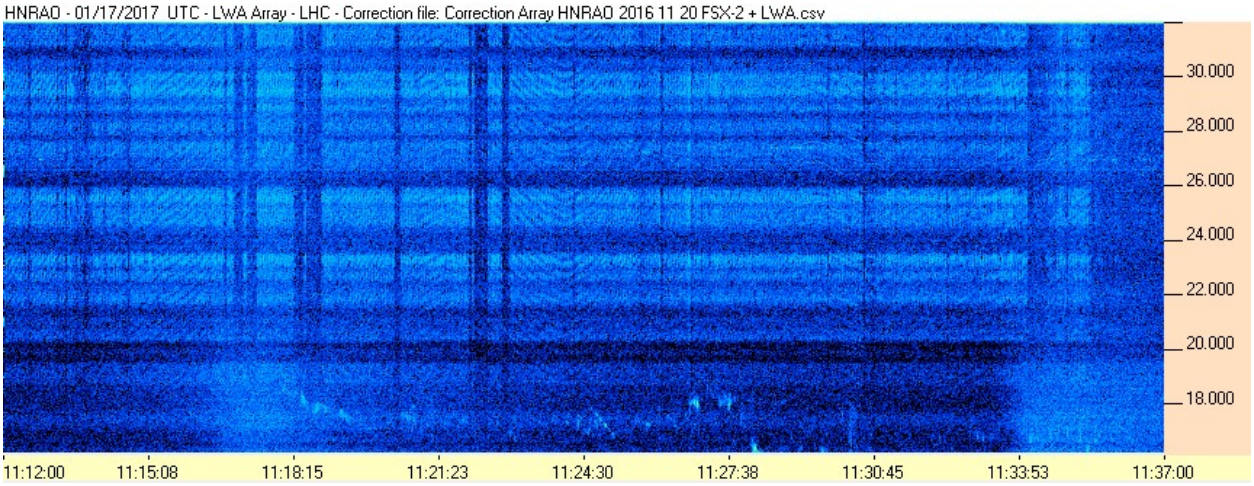
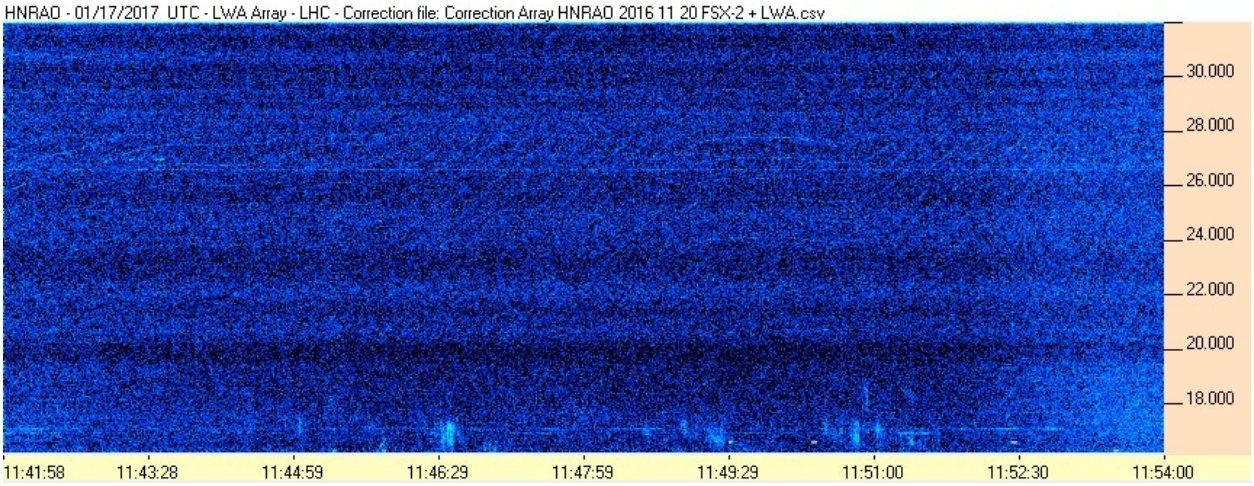
FSX-2





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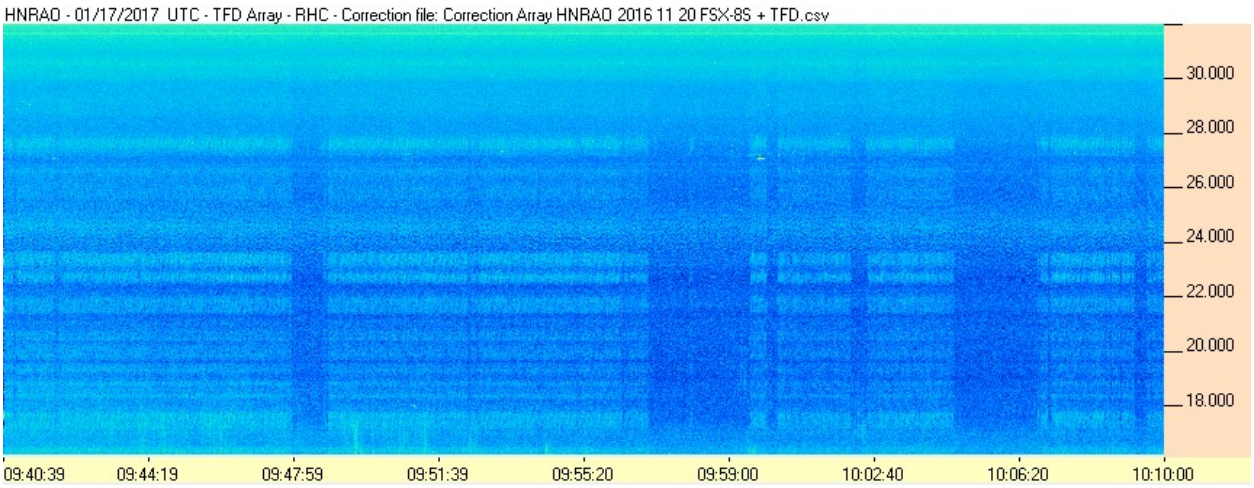
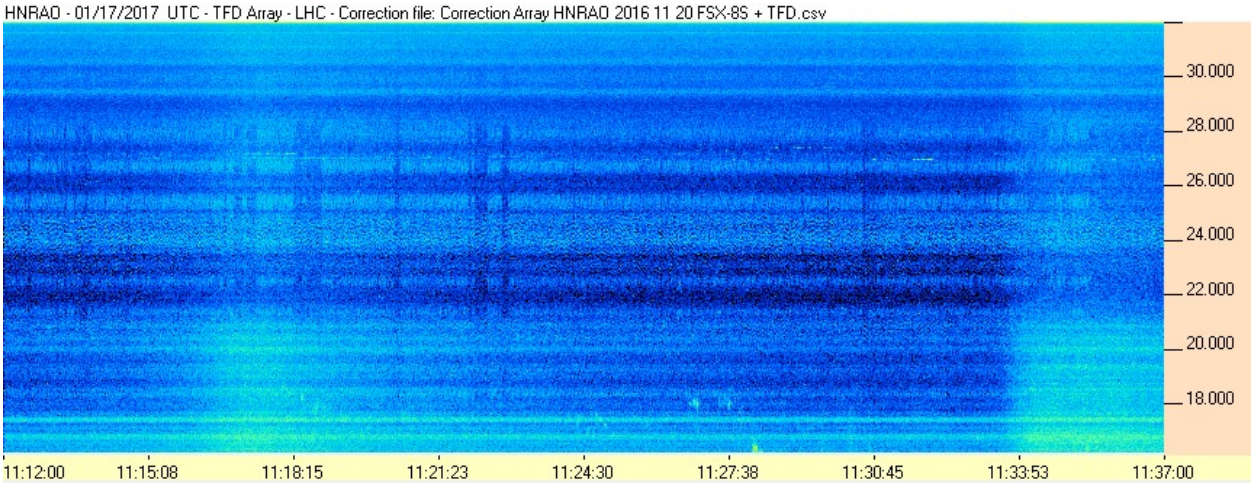
FSX-8S





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