

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 19 March 2017

Object: Jupiter – Non-Io-A

Observer: JB

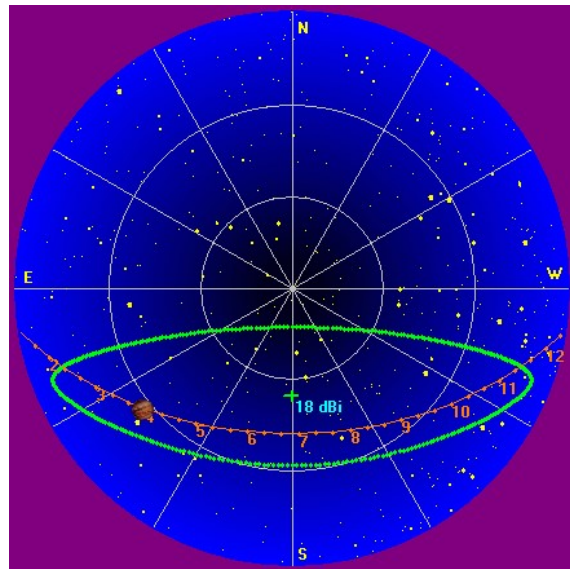
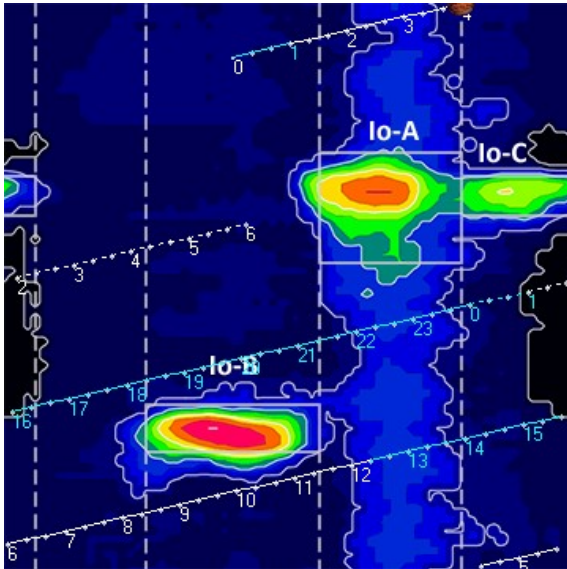
Start of pass:	0400 UT	Planetary K-index:	
Jupiter Altitude:	28.4 degrees	Jupiter Azimuth:	129.5 degrees
Jupiter CML:	289.69	Jupiter Io Phase:	359.96
Jupiter RA:	13:18	Jupiter Dec:	-06:35
Hour Angle:	-02:53	Polarization	RCP
Sun Altitude:	-46.4 degrees	Sun Azimuth:	329.2 degrees
Sun RA:	23:48	Sun Dec:	-01:15

End of pass:	0415 UT		
Jupiter Altitude:	30.5 degrees	Jupiter Azimuth:	133.0 degrees
Jupiter CML:	298.76	Jupiter Io Phase	002.07
Hour Angle:	-02:37		
Sun Altitude:	-47.7 degrees	Sun Azimuth:	334.4 degrees

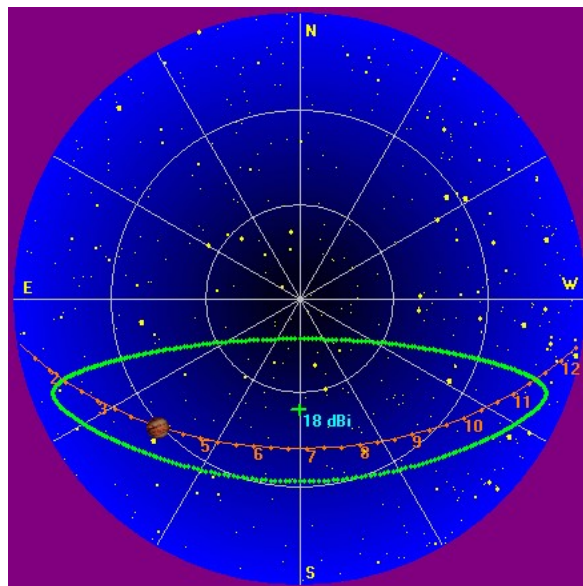
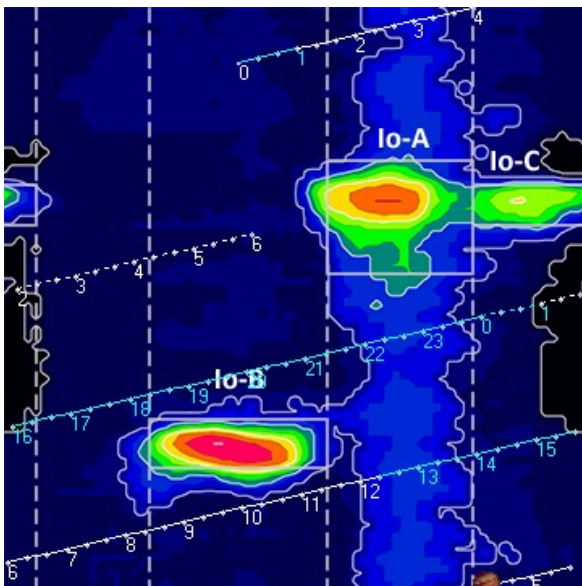
Observations made using:

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 6 March 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 6 March 2017
5. SDRPlay
 - a. RSP1 and RSP2

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Beginning of Pass



End of Pass

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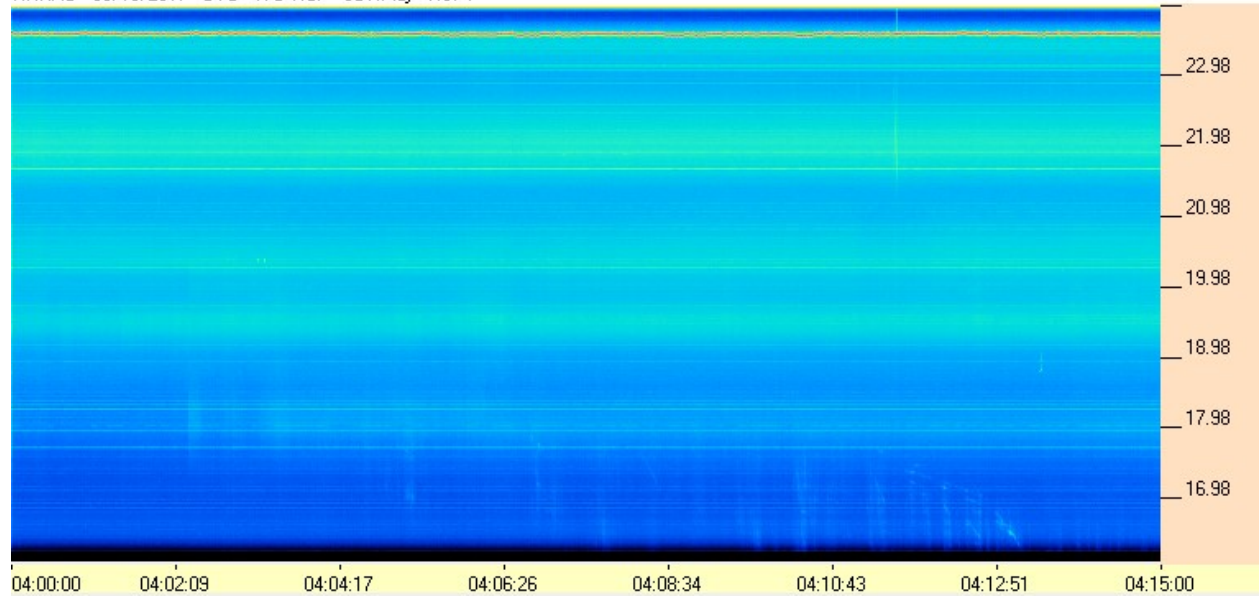
Brief Non-Io-A. Very weak. Emissions from 19 MHz to 16 MHz. Negative drift. Modulation lanes but not strong enough for reliable measurement.

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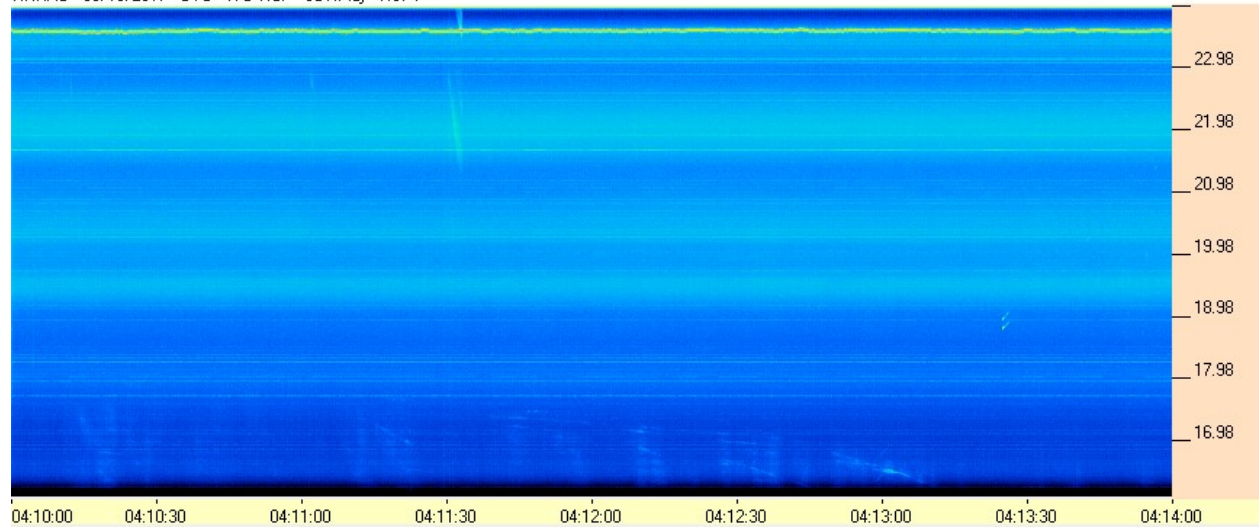


SDRPlay/RSP1 TFD Pair

HNRAO - 03/19/2017 - UTC - TFD RCP - SDRPlay - RSP1



HNRAO - 03/19/2017 - UTC - TFD RCP - SDRPlay - RSP1



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HNRAO - 03/19/2017 - UTC - TFD RCP - SDRPlay - RSP1

