

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 28 February 2017

Object: Jupiter – Io-D

Observer: Unattended

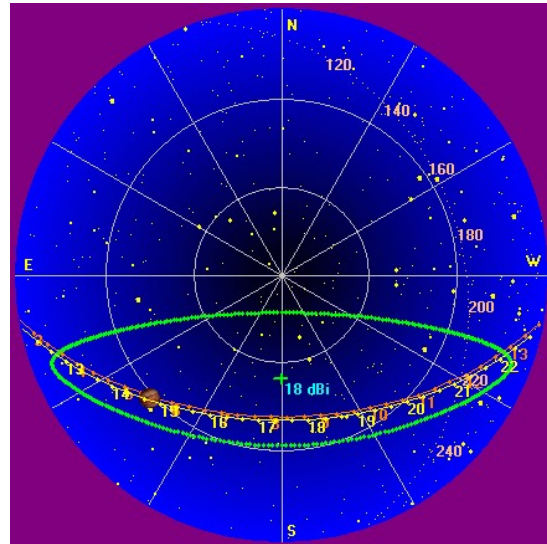
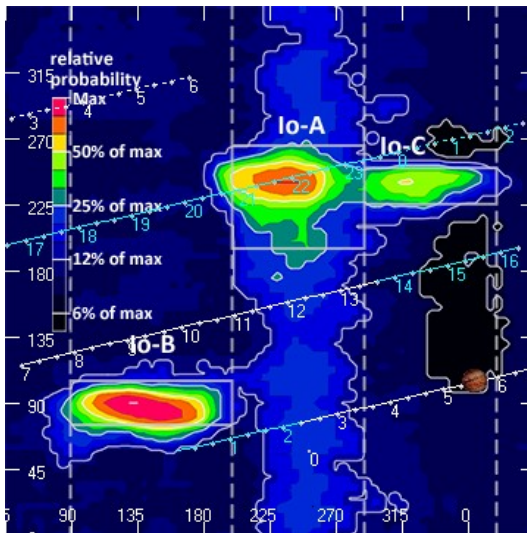
Start of pass:	0535 UT	Planetary K-index:	
Jupiter Altitude:	29.8 degrees	Jupiter Azimuth:	133.2 degrees
Jupiter CML:	4.38	Jupiter Io Phase:	104.51
Jupiter RA:	13:24	Jupiter Dec:	-07:15
Hour Angle:	-02:38	Polarization	LCP
Sun Altitude:	-57.9 degrees	Sun Azimuth:	003.7 degrees
Sun RA:	22:38	Sun Dec:	-08:36

End of pass:	0607 UT		
Jupiter Altitude:	34.04 degrees	Jupiter Azimuth:	141.3 degrees
Jupiter CML:	23.73	Jupiter Io Phase	109.00
Hour Angle:	-02:06		
Sun Altitude:	-56.7 degrees	Sun Azimuth:	018.2 degrees

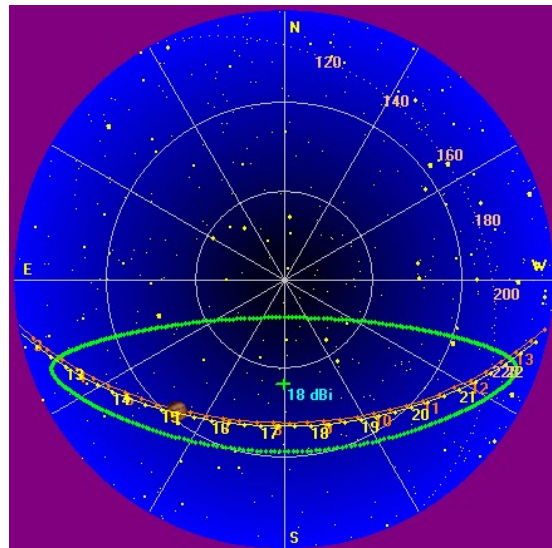
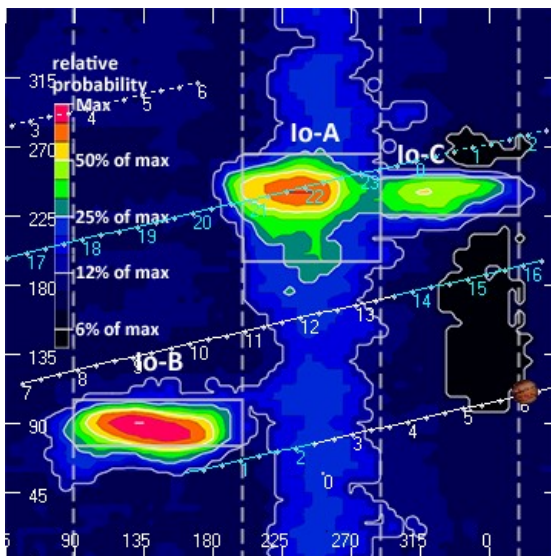
Observations made using:

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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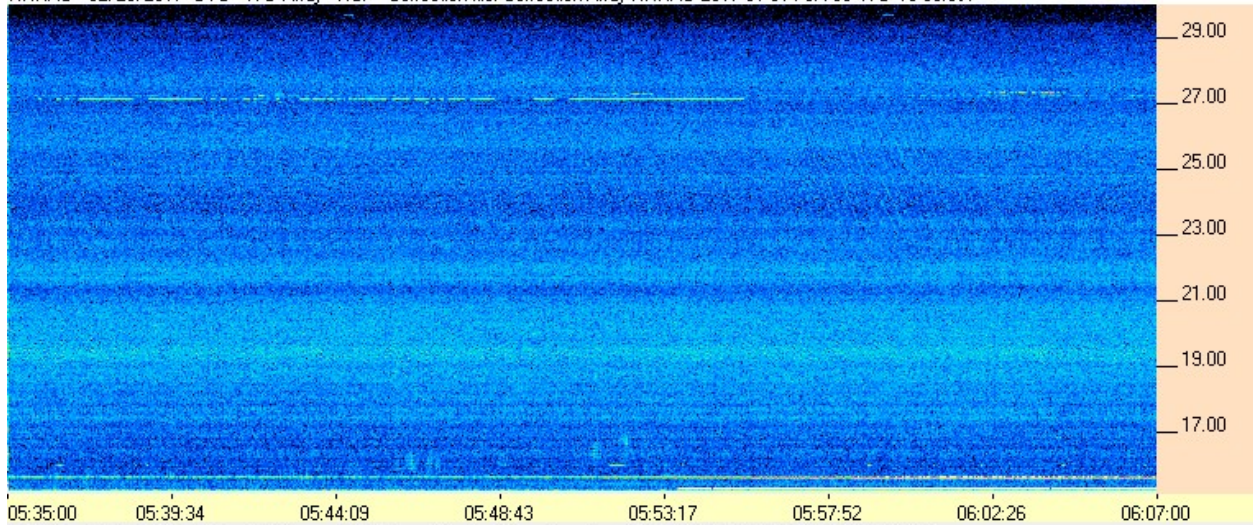


Censuses is this is Io-D. Very weak L-bursts and all LCP. The only RCP present appears to be bleed over from the LCP channel. Began below 15 MHz and ended approximately at 17 MHz with a positive slope of 2 kHz/sec.

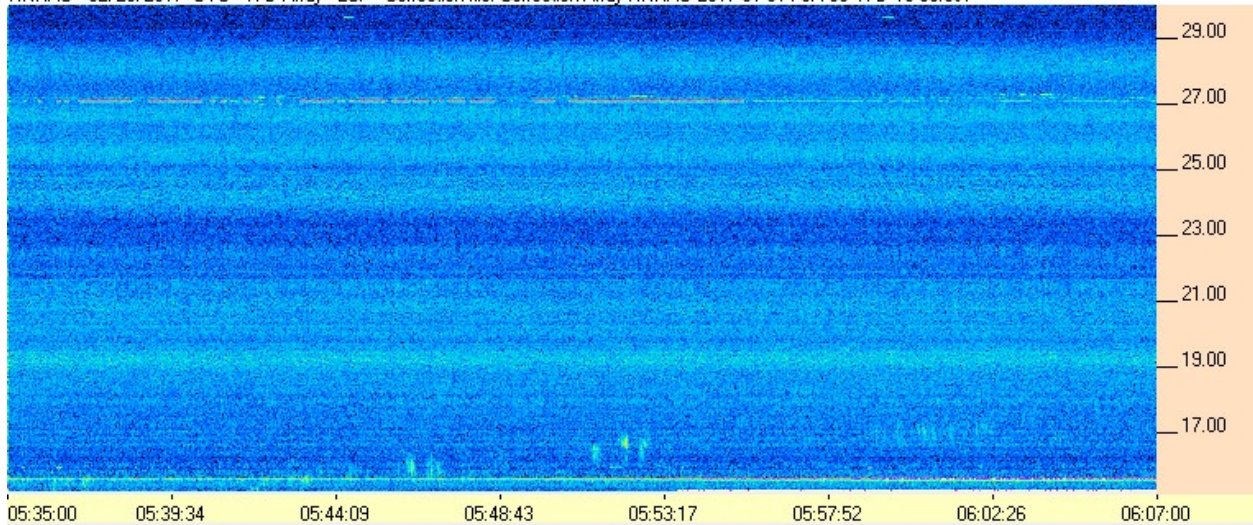
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HNRAO - 02/28/2017 UTC - TFD Array - RCP - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv



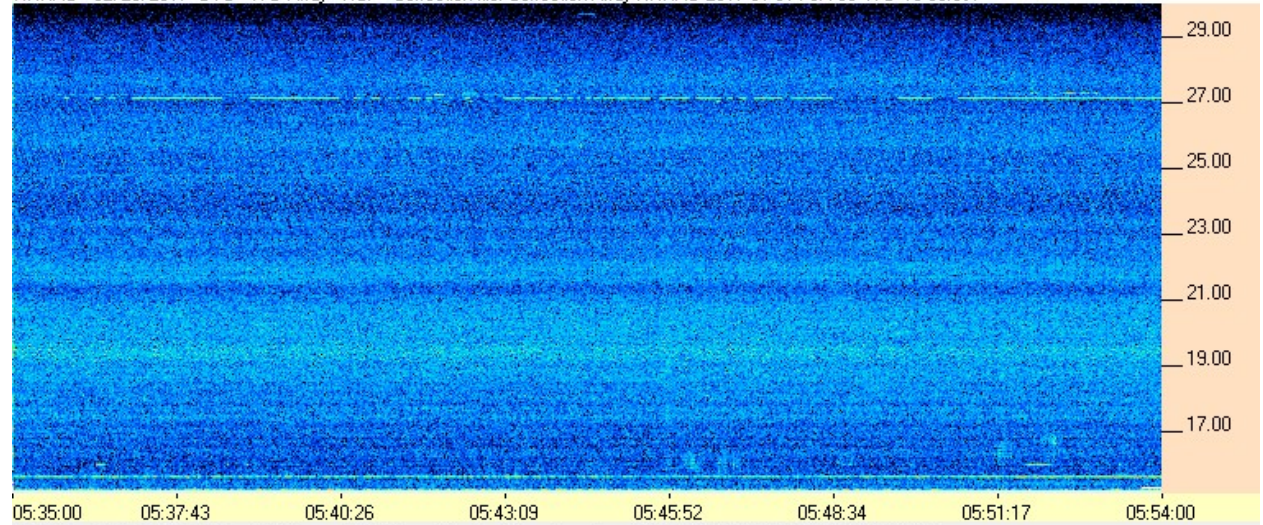
HNRAO - 02/28/2017 UTC - TFD Array - LCP - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv



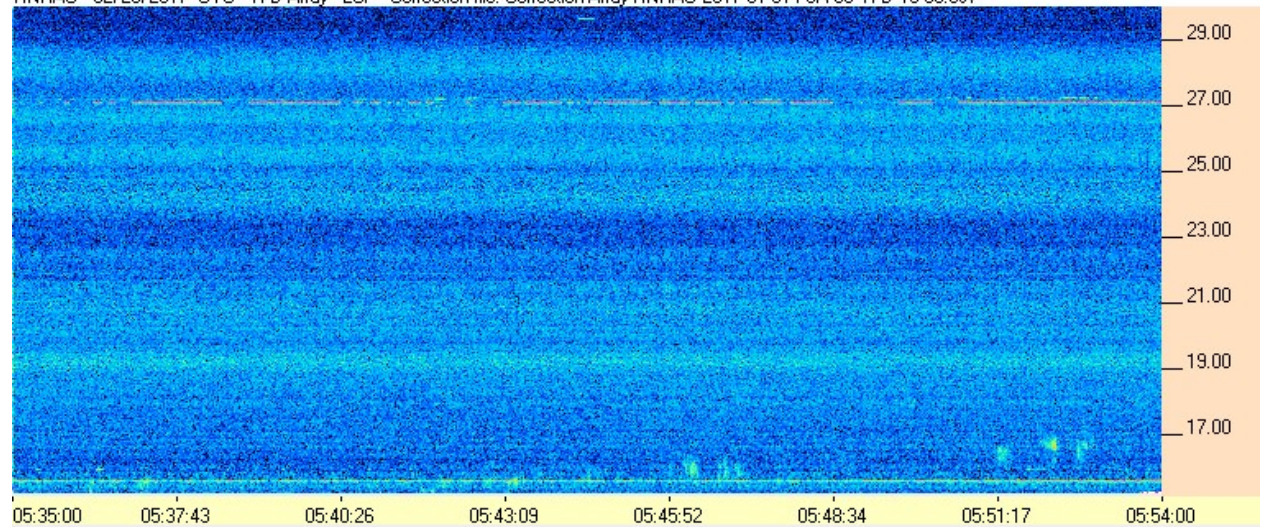
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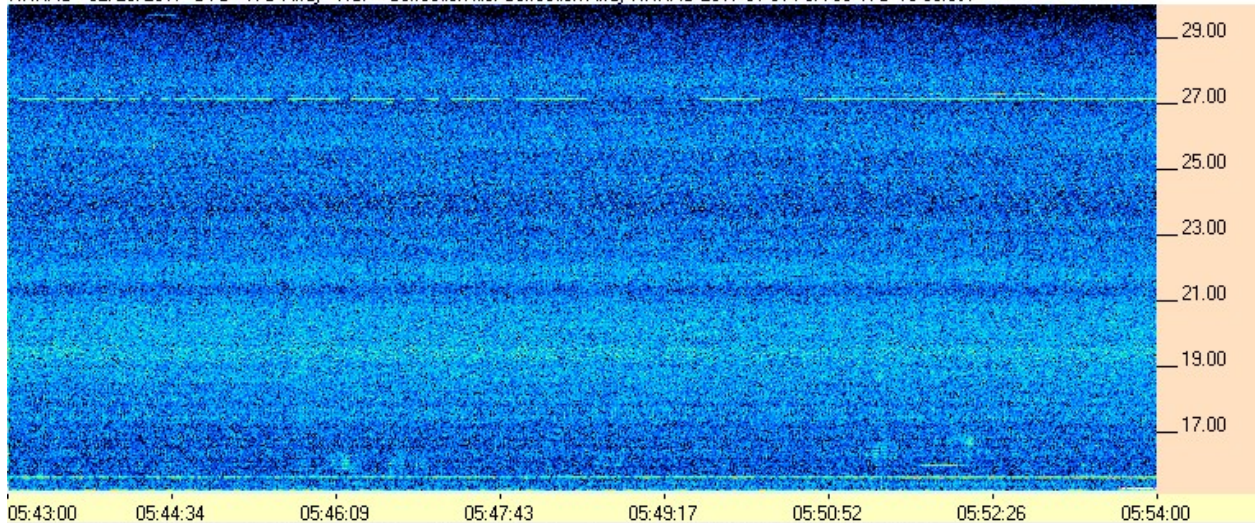
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