

Date: 28 March 2017

Object: Jupiter – Non-Io-A

Observer: JB

Start of pass:	0452 UT	Planetary K-index:	5
Jupiter Altitude:	39.6 degrees	Jupiter Azimuth:	153.5 degrees
Jupiter CML:	237.23	Jupiter Io Phase:	039.53
Jupiter RA:	13:15	Jupiter Dec:	-06:10
Hour Angle:	-01:21	Polarization	RCP
Sun Altitude:	-46.5 degrees	Sun Azimuth:	349.8 degrees
Sun RA:	00:21	Sun Dec:	02:18

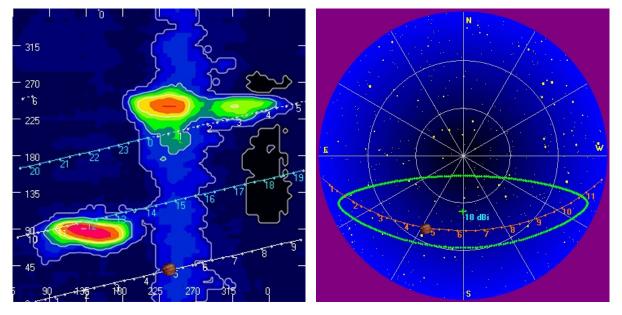
End of pass:	0520 UT		
Jupiter Altitude:	41.6 degrees	Jupiter Azimuth:	162.3 degrees
Jupiter CML:	254.16	Jupiter Io Phase	043.45
Hour Angle:	-00:53		
Sun Altitude:	-47.0 degrees	Sun Azimuth:	000.0 degrees

Observations made using:

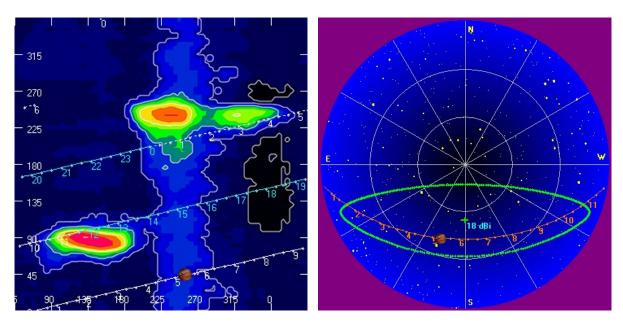
- 1. FSX-8S fed by the TFD array
 - a. 7.7 dB loss between TFD and Multicouplers.
 - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 TFD/LCP
 - ii. HNRAO Multicoupler #2 TFD/RCP
 - 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.
- 2. FSX-2 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 (2) and RSP2 (1)

HNRAO Observing Log 40.673181 N – 80.437885 W EN90sq



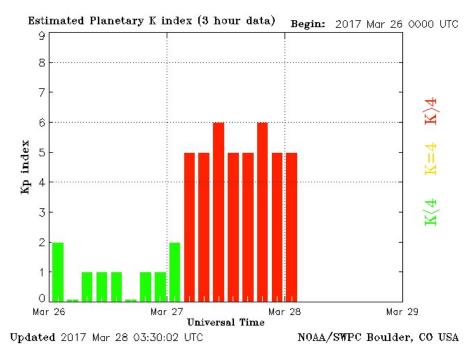


Beginning of Pass



End of Pass





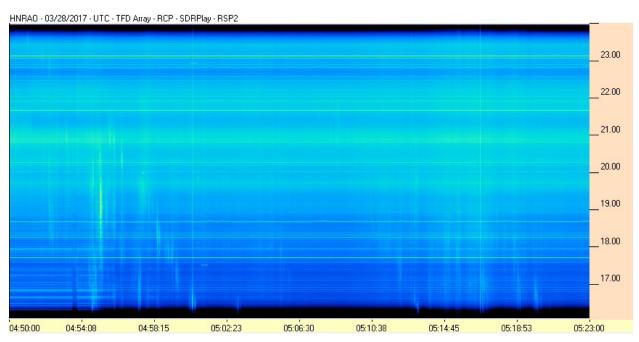
This will be the first Jupiter emissions observed with the SDRPlay, RSP2 SDR receiver.

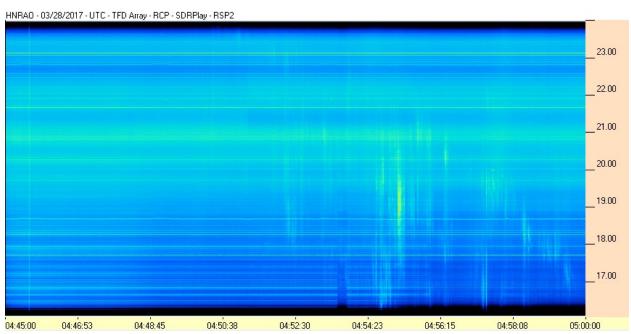
A stronger Non-Io-A storm than has been seen lately. Negative drift L-bursts with negative drift modulation lanes. A particularly strong period of L-burst emission at 0455 UT. All spectrographs compared to show a frequency range of 15-24 MHz observed here.

Measured modulation lanes at various parts of the pass ranged from a low of -84 kHz/sec to a high of -105 kHz/sec with an average of 96 kHz/sec.

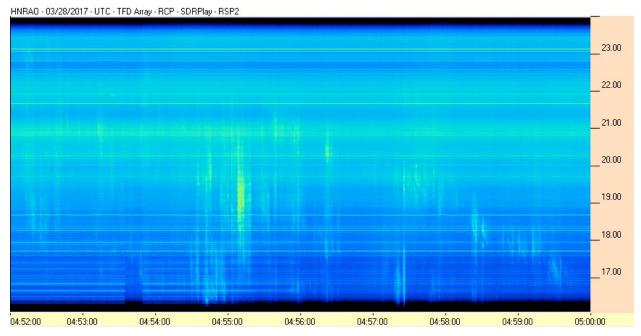


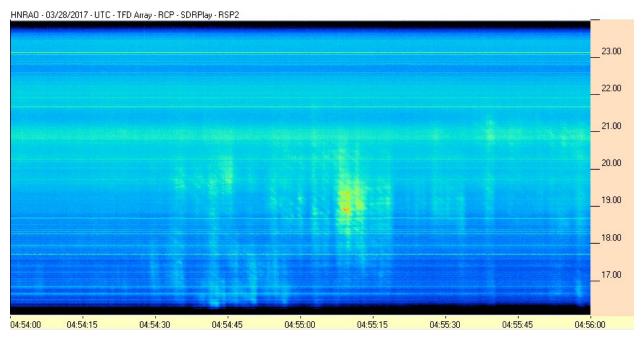
RSP2/TFD Pair



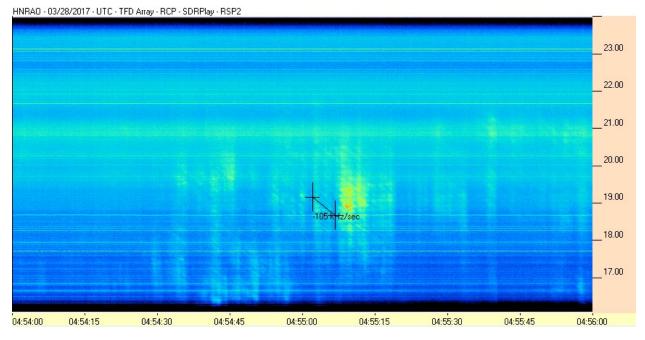


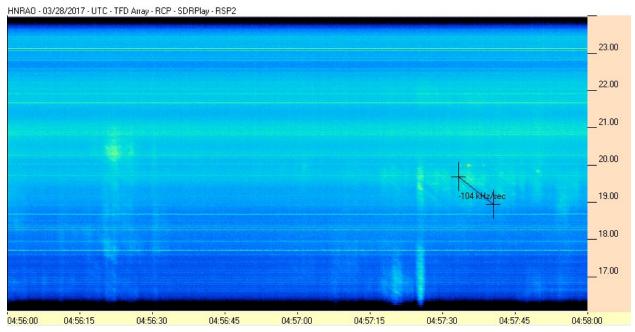




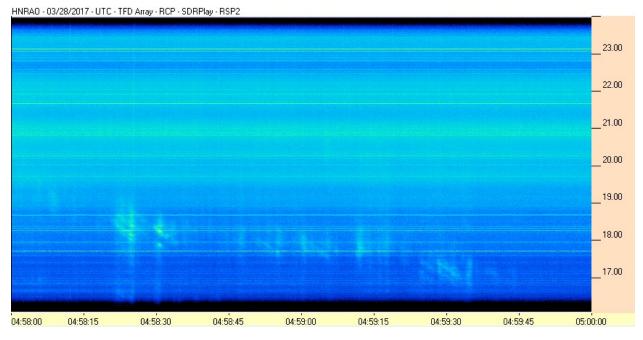


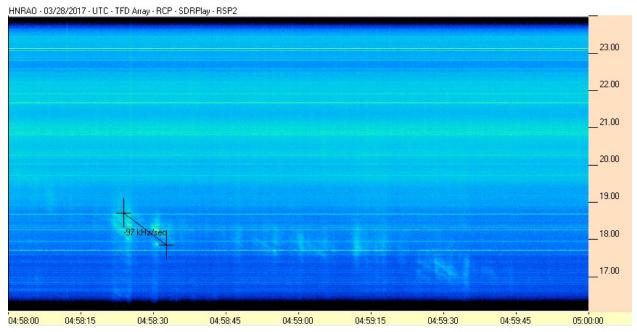




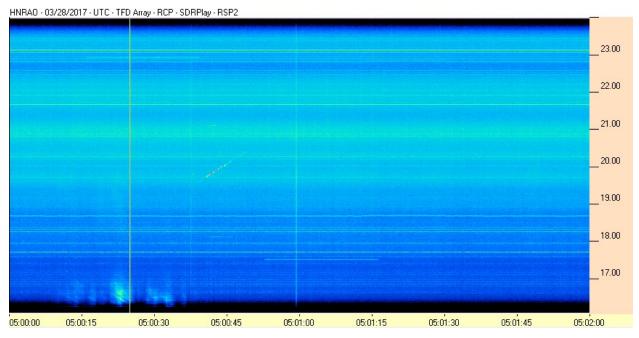


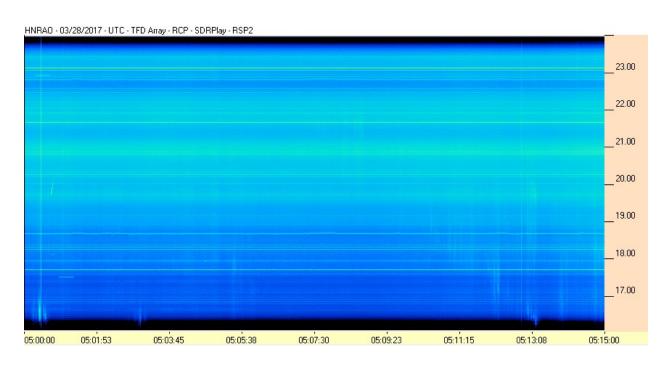




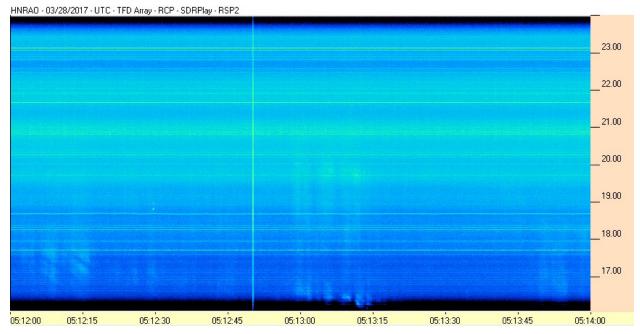


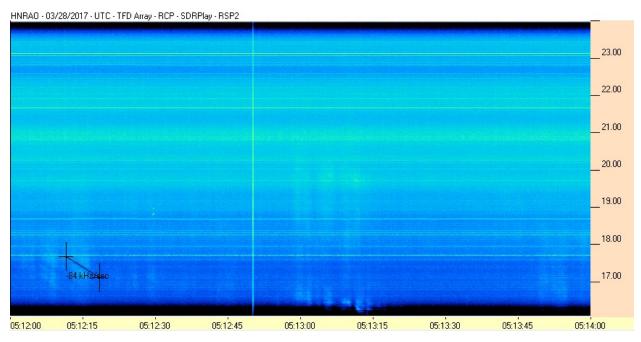




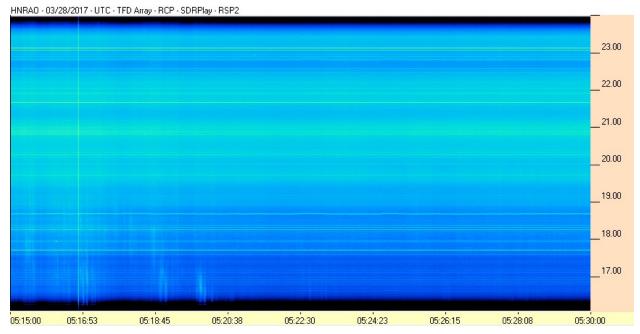




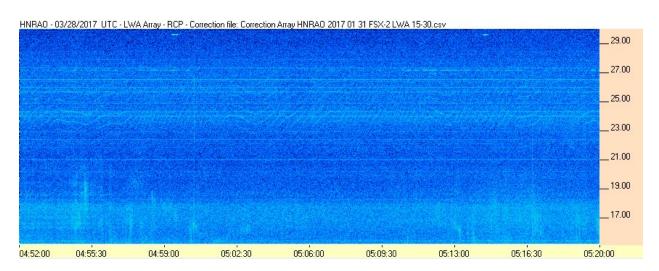








FSX-2/LWA Pair





FSX-8S/TFD Pair

