

Date: 7 May 2017

Object: Jupiter – Non-Io-B

Observer: Unattended

Start of pass:	0348 UT	Planetary K-index:	2
Jupiter Altitude (deg):	44.4	Jupiter Azimuth (deg):	190.6
Jupiter CML:	104.25	Jupiter Io Phase:	254.93
Jupiter RA (hr/min):	12:57	Jupiter Dec (hr/min):	-04:22
Hour Angle (hr/min):	00:30	Polarization	RCP
Sun Altitude (deg):	-29.8	Sun Azimuth (deg):	337.0
Sun RA (hr/min):	02:50	Sun Dec (hr/min):	16:19

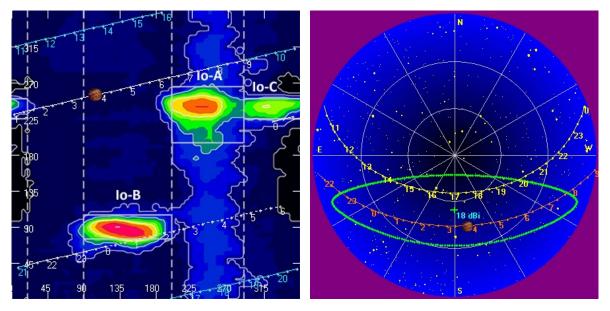
End of pass:	0502 UT		
Jupiter Altitude (deg):	39.0	Jupiter Azimuth (deg):	214.4
Jupiter CML:	148.99	Jupiter Io Phase	265.45
Hour Angle (hr/min):	01:45		
Sun Altitude (deg):	-33.0	Sun Azimuth (deg):	357.5

Observations made using:

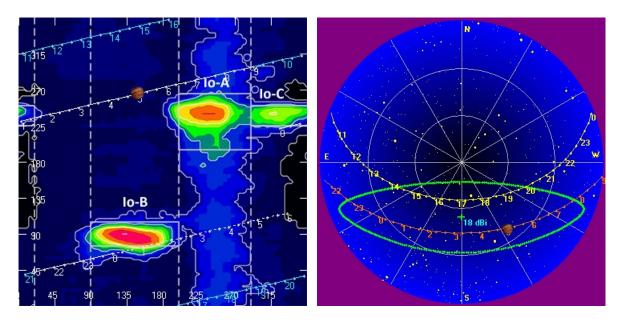
- 1. FSX-8S fed by the TFD array
 - a. 7.7 dB loss between TFD and Multicouplers.
 - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 TFD/LCP
 - ii. HNRAO Multicoupler #2 TFD/RCP
 - 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.
- 2. FSX-2 fed by the LWA array directly
 - a. LWA element configuration 90 degrees
- 3. JOVE 2 receiver fed by phased JOVE dipoles @ 13'
 - a. 12' 6" phase cable phased for 2016-17 season
 - b. Calibrated 19 April 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 19 April 2017
- 5. SDRPlay
 - a. RSP1 (2) and RSP2 (1)

HNRAO Observing Log 40.673181 N – 80.437885 W EN90sq

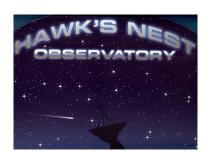


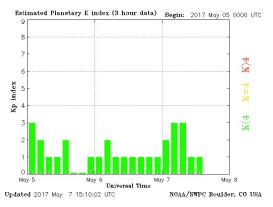


Beginning of Pass



End of Pass





MODE	CML RANGE	Io RANGE	MAX F	POLAR	ARC	NOTES
Io-D	0-200	95-130	18	LH	Early	Also called "fourth source"
Io-B	(105 - 185)	(80-110)	39.5	RH	Early	Also called "early source"
non Io-B	80-200	0-360	38	RH	Early	Voyager info
Io-A	(200-270)	(205-260)	38	RH	Late	Also called "main source"
non-Io-A	(230-280)	0-360	38	RH	Late	
Io-C	(300-20)	(225-260)	36	RH&LH	Late	Also called "third source"
non-Io-C	300-360	0-360	32	RH&LH	Late	Voyager info

https://www.radiosky.com/jupmodes.html

An extremely weak Non-Io-B storm with positive drift modulation lanes. All emissions barely above galactic background. L-burst emissions between 16 MHz and 20 MHz.



SDRPlay RSP2/TFD Pair

