

Date: 1 May 2017

Object: Jupiter – Non-Io-A

Observer: Unattended

Start of pass:	0218 UT	Planetary K-index:	2
Jupiter Altitude (deg):	40.6	Jupiter Azimuth (deg):	151.3
Jupiter CML:	226.25	Jupiter Io Phase:	099.95
Jupiter RA (hr/min):	12:59	Jupiter Dec (hr/min):	12:59
Hour Angle (hr/min):	-01:26	Polarization	RCP
Sun Altitude (deg):	-21.7	Sun Azimuth(deg):	314.3
Sun RA (hr/min):	02:27	Sun Dec (hr/min):	14:31

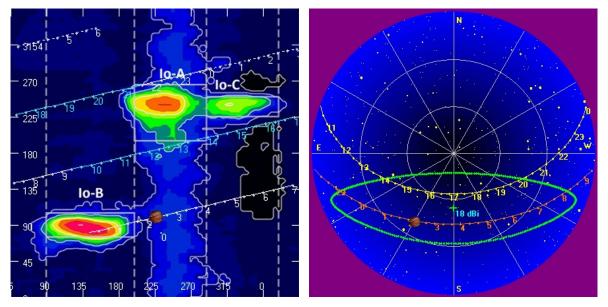
End of pass:	0256 UT		
Jupiter Altitude (deg):	43.4	Jupiter Azimuth (deg):	163.5
Jupiter CML:	249.22	Jupiter Io Phase	105.31
Hour Angle (hr/min):	-00:48		
Sun Altitude (deg):	-26.5	Sun Azimuth (deg):	322.9

Observations made using:

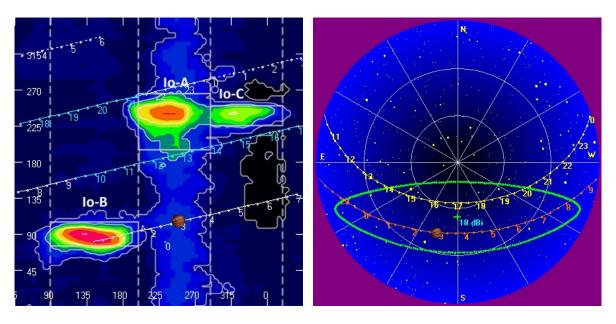
- 1. FSX-8S fed by the TFD array
 - a. 7.7 dB loss between TFD and Multicouplers.
 - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
 - i. HNRAO Multicoupler #1 TFD/LCP
 - ii. HNRAO Multicoupler #2 TFD/RCP
 - 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.
- 2. FSX-2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



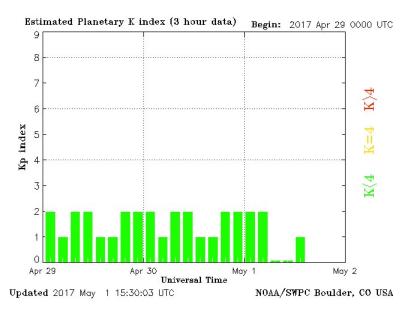


Beginning of Pass



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

A weak Non-Io-A storm. Positive drift L-bursts with negative drift modulation lanes from 16 MHz to 18 MHz.

Several modulation lanes were measured. -114 kHz/sec, -118 kHz/sec and -107 kHz/sec.

Nothing else of note.



SDRPlay RSP2/TFD Pair

