

**Date: 21 May 2017** 

**Object: Jupiter – Non-Io-C** 

**Observer: Unattended** 

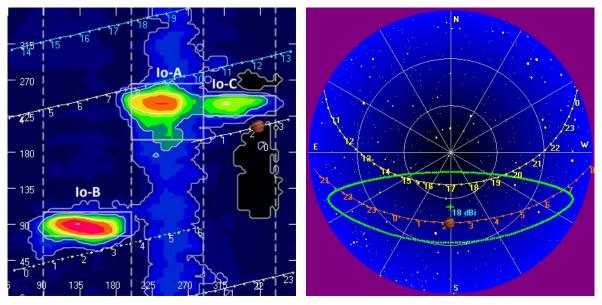
Start of pass:	0217 UT	Planetary K-index:	3
Jupiter Altitude (deg):	45.3	Jupiter Azimuth (deg):	179.6
Jupiter CML:	357.34	Jupiter Io Phase:	211.63
Jupiter RA (hr/min):	12:52	Jupiter Dec (hr/min):	-03:59
Hour Angle (hr/min):	-00:01	Polarization	LCP
Sun Altitude (deg):	-17.4	Sun Azimuth (deg):	317.5
Sun RA (hr/min):	03:45	Sun Dec (hr/min):	19:48

End of pass:	
Jupiter Altitude (deg):	Jupiter Azimuth (deg):
Jupiter CML:	Jupiter Io Phase
Hour Angle (hr/min):	
Sun Altitude (deg):	Sun Azimuth (deg):

#### Observations made using:

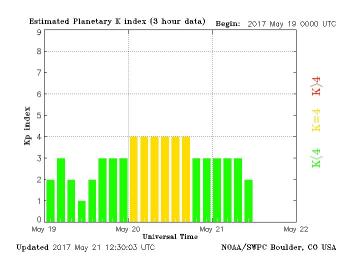
- 1. FSX-8S fed by the TFD array
  - a. 7.7 dB loss between TFD and Multicouplers.
  - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
    - i. HNRAO Multicoupler #1 TFD/LCP
    - ii. HNRAO Multicoupler #2 TFD/RCP
      - 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.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





#### **Beginning of Pass**

#### **End of Pass**





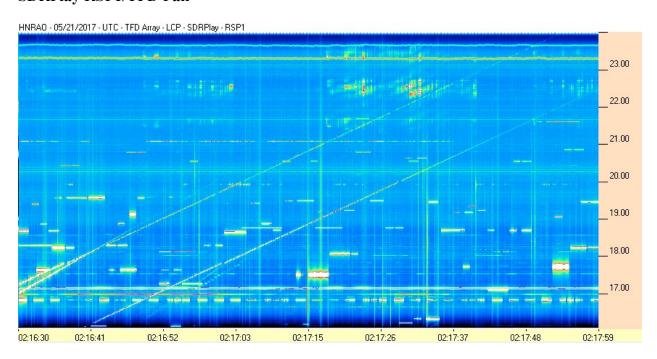
MODE	CML RANGE	Io RANGE	MAX F	POLAR	ARC	NOTES
Io-D	0-200	95-130	18	LH	Early	Also called "fourth source"
Io-B	(105 - 185)	(80-110)	39.5	RH	Early	Also called "early source"
non Io-B	80-200	0-360	38	RH	Early	Voyager info
Io-A	(200-270)	(205-260)	38	RH	Late	Also called "main source"
non-Io-A	(230-280)	0-360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

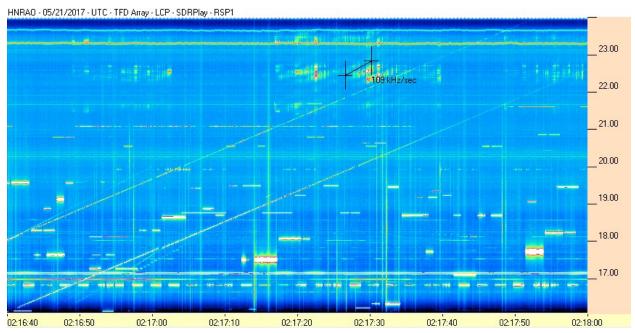
Captured about 15 seconds of an LCP emission. Positive drift modulation lanes. A measurement shows 109 kHz/sec. No other activity.

No Radio JOVE activity.

#### SDRPlay RSP1/TFD Pair









#### FSX-8S/TFD Pair

