

**Date: 22 April 2017** 

**Object: Jupiter – Io-C** 

**Observer: Unattended** 

Start of pass:	2333 UT	Planetary K-index:	
<b>Jupiter Altitude:</b>	10.5 degrees	Jupiter Azimuth:	106.0 degrees
Jupiter CML:	1.52	Jupiter Io Phase:	248.54
Jupiter RA:	13:02	Jupiter Dec:	-04:57
Hour Angle:	-04:46	Polarization	RCP?
Sun Altitude:	04.0 degrees	Sun Azimuth:	282.3 degrees
Sun RA:	01:56	Sun Dec:	11:52

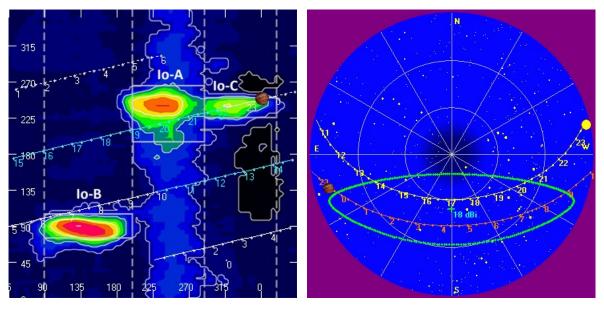
End of pass:	2344 UT		
Jupiter Altitude:	12.5 degrees	Jupiter Azimuth:	107.9 degrees
Jupiter CML:	8.17	Jupiter Io Phase	250.11
Hour Angle:	-04:35		
Sun Altitude:	01.9 degrees	Sun Azimuth:	284.0 degrees

#### Observations made using:

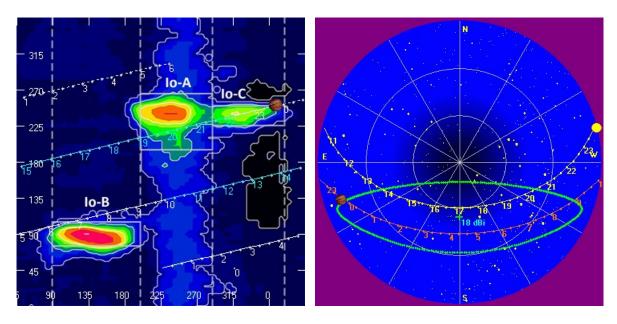
- 1. FSX-8S fed by the TFD array
  - a. 7.7 dB loss between TFD and Multicouplers.
  - b. Connect to array through HNRAO Multicoupler #1 and #2, port 2
    - i. HNRAO Multicoupler #1 TFD/LCP
    - ii. HNRAO Multicoupler #2 TFD/RCP
      - 1. Port 1 having 10 dB of gain, all other ports have 3 dB gain.
- 2. FSX-2 fed by the LWA array directly
  - a. LWA element configuration 90 degrees
- 3. JOVE 2 receiver fed by phased JOVE dipoles @ 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** 



Very brief L-burst emission in the Io-C CML. No LCP emissions observed at this time and only registered on the RCP spectrograph. Due to the degree of off axis, polarity would be uncertain, but probably RCP.

18-19 MHz. No detectable modulation lanes.



