

## MRAO - SUG OBSERVATION REPORT

Observatory: MRAO

Location: Mountain Rest, South Carolina

Observer: Andrew S. Mount

Instrumentation: FSX-3,10bit

RJ-1@20.1MHz

*Event*

|                         |                      |
|-------------------------|----------------------|
| Start Date of Event:    | 21 Oct 2013          |
| End Date of Event:      | 21 Oct 2013          |
| Storm Type:             | Io A Event –low pass |
| Observer On Duty (UTC)  | Unattended           |
| Observer Off Duty (UTC) | Unattended           |

*Spectrograph Settings*

| Channels | Range MHz | Color Offset | Color Gain | Comments |
|----------|-----------|--------------|------------|----------|
| 400      | 17-27     | 350          | 5          |          |

*Jovian Storm Ephemerides*

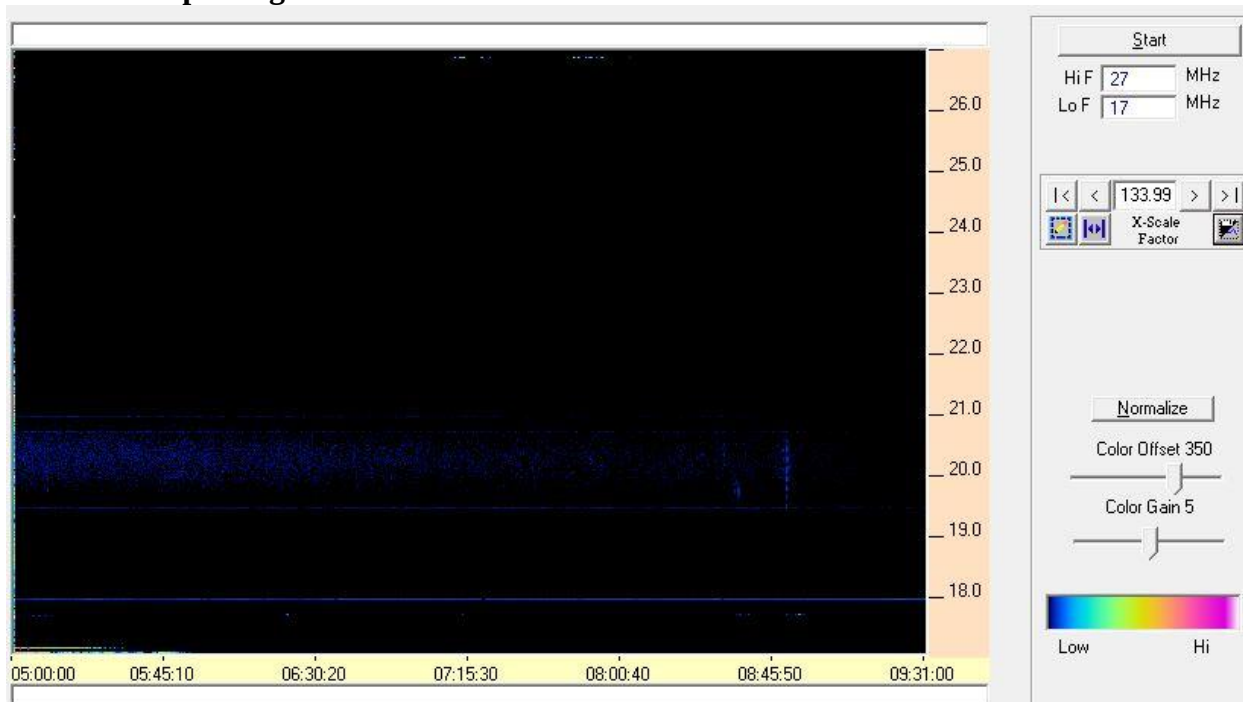
| Interval | UTC     | CML-III  | Io SGC   | Off Axis | D <sub>E</sub> | J→S ∠      | Δ J→E       |
|----------|---------|----------|----------|----------|----------------|------------|-------------|
| Begin    | 8:00:00 | +306.688 | +221.363 | +41.131  | +1.68764701    | - 98.04975 | +4.93145319 |
| Center   | 8:45:00 | +333.893 | +227.752 | +30.918  | +1.68754420    | - 98.07912 | +4.93097650 |
| End      | 9:30:00 | +1.098   | +234.136 | +20.688  | +1.68744146    | - 98.10849 | +4.93049984 |

*Data Files*

| Instrumentation | (MRAO-DMY- STORM)                   | Size (MB) |
|-----------------|-------------------------------------|-----------|
| FSX-3           | 20131021-MRAO-IoAC-0500-931 utc.sps | 63        |
| RJ-1            |                                     |           |

Notes: Low Io A Pass

## FSX3- Full Spectrogram:



## RJ-1 Tracing:

## CML-Io Phase Plane & Sky-Antenna Map:

