

HNRAO Observing Log
40.673181 N – 80.437885 W
EN90sq



Date: 4 March 2017

Object: Jupiter – Non-Io-A

Observer: JB

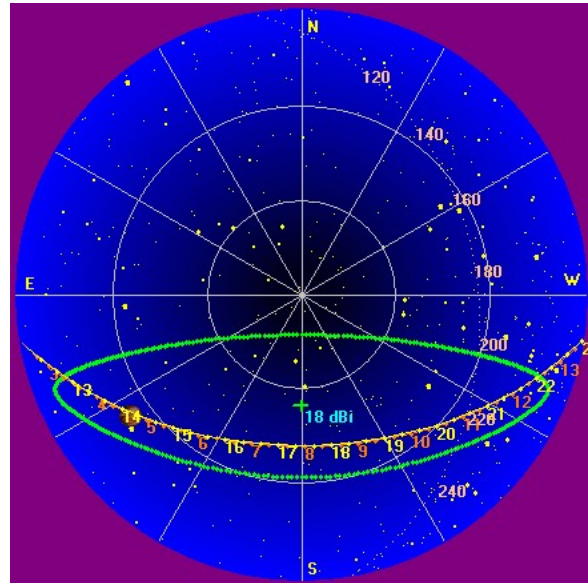
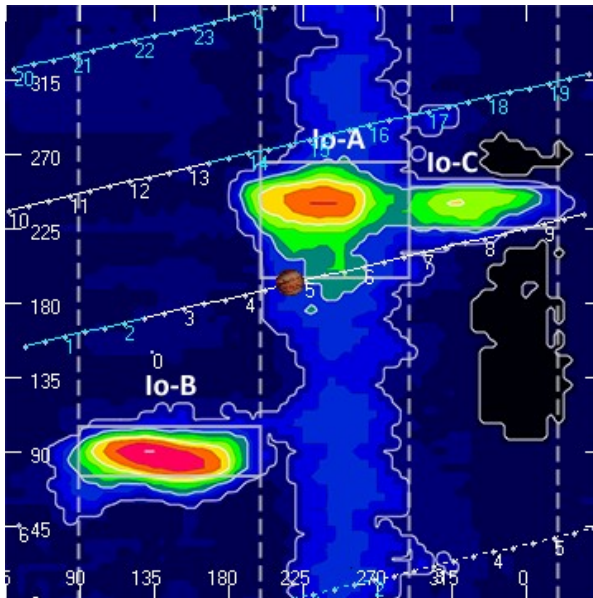
Start of pass:	0446 UT	Planetary K-index:	5
Jupiter Altitude:	25.2 degrees	Jupiter Azimuth:	125.8 degrees
Jupiter CML:	217.4	Jupiter Io Phase:	191.76
Jupiter RA:	13:23	Jupiter Dec:	-07:08
Hour Angle:	-03:11	Polarization	RCP
Sun Altitude:	-55.2 degrees	Sun Azimuth:	342.2 degrees
Sun RA:	22:53	Sun Dec:	-07:06

End of pass:	0500 UT		
Jupiter Altitude:	27.3 degrees	Jupiter Azimuth:	128.9 degrees
Jupiter CML:	225.87	Jupiter Io Phase	193.74
Hour Angle:	-02:57		
Sun Altitude:	-55.9 degrees	Sun Azimuth:	348.3

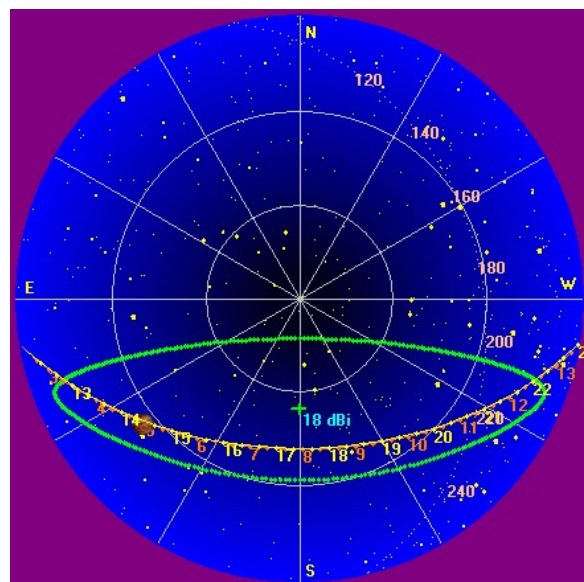
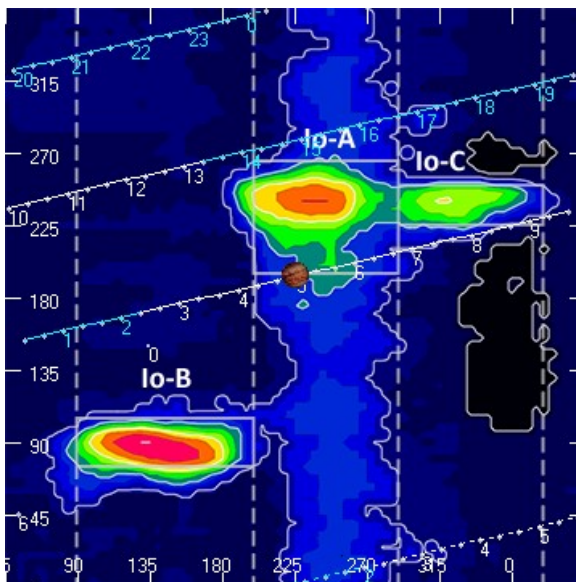
Observations made using:

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 @ 10'
 - a. 12' phase cable - phased for 2016-17 season
 - b. Calibrated 4 February 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 4 February 2017
5. SDRPlay
 - a. RSP1 and RSP2

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Beginning of Pass



End of Pass

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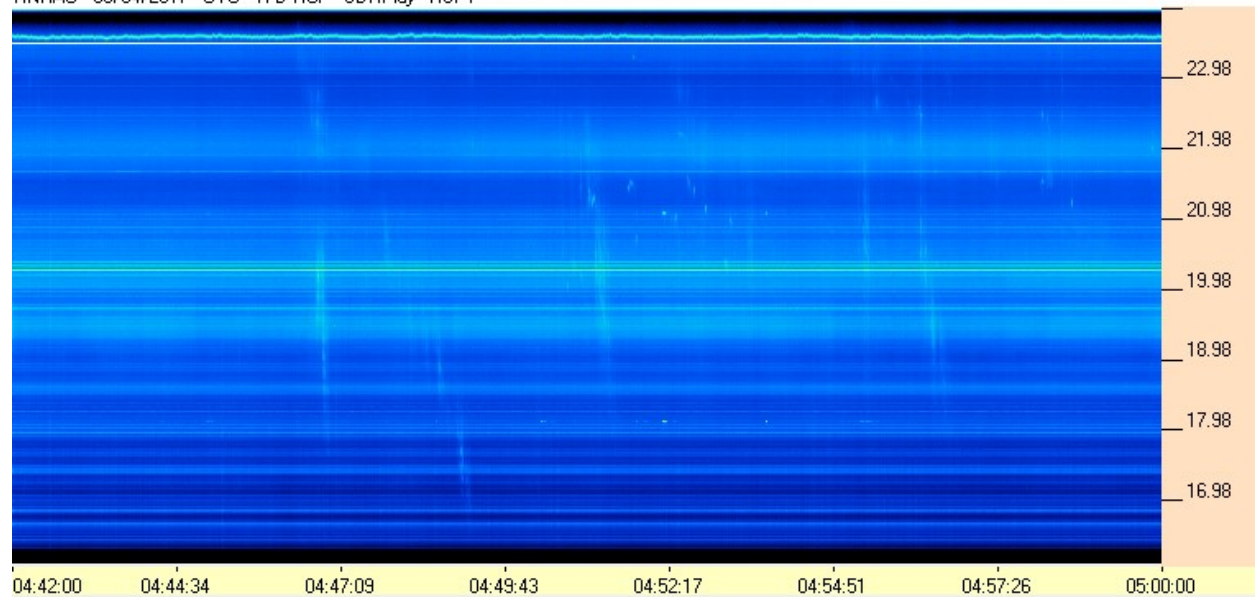
An unremarkable, brief and short Non-Io-A. Weak L-bursts spanning 24 – 17 MHz. A measured negative drift of approximately 100 to 118 kHz/sec. Modulation lanes present. Only two emissions stand out in this event. At 0450:56 UT and again at 0451:39, two features that appear to be short lived N-events.

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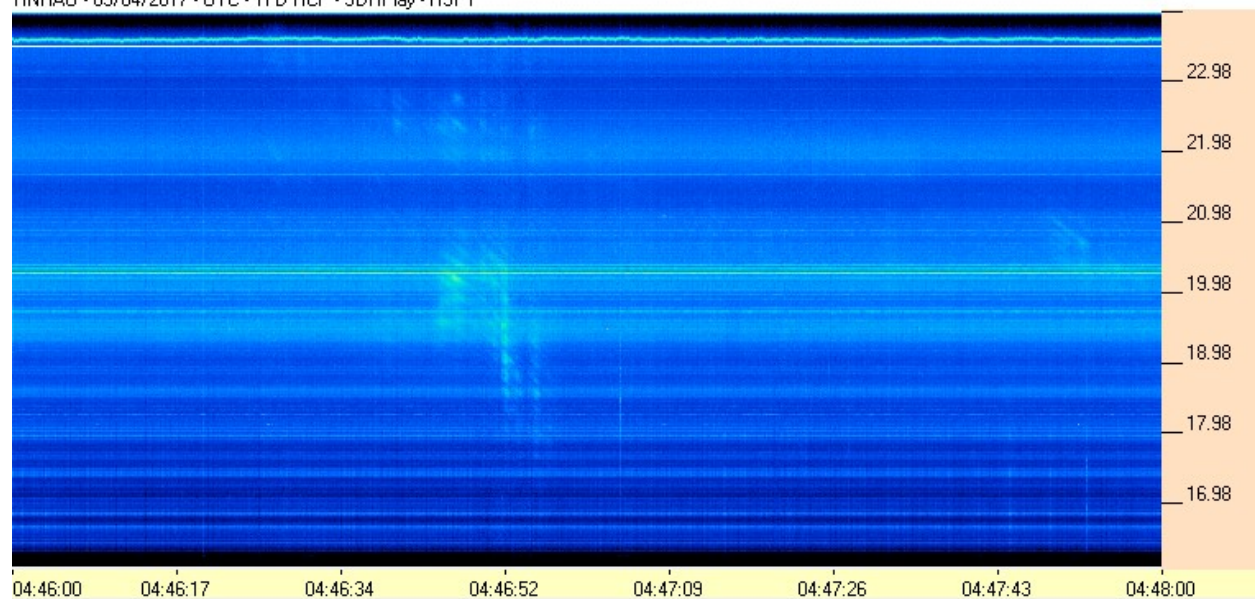


SDRPlay/RSP1/TFD Pair

HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



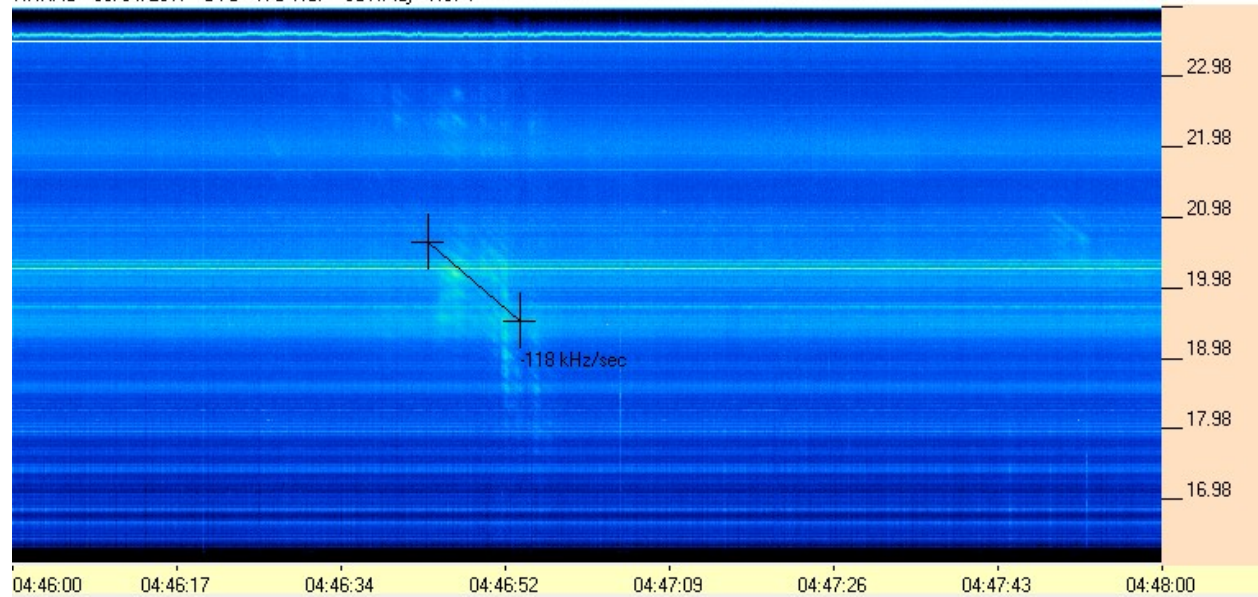
HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



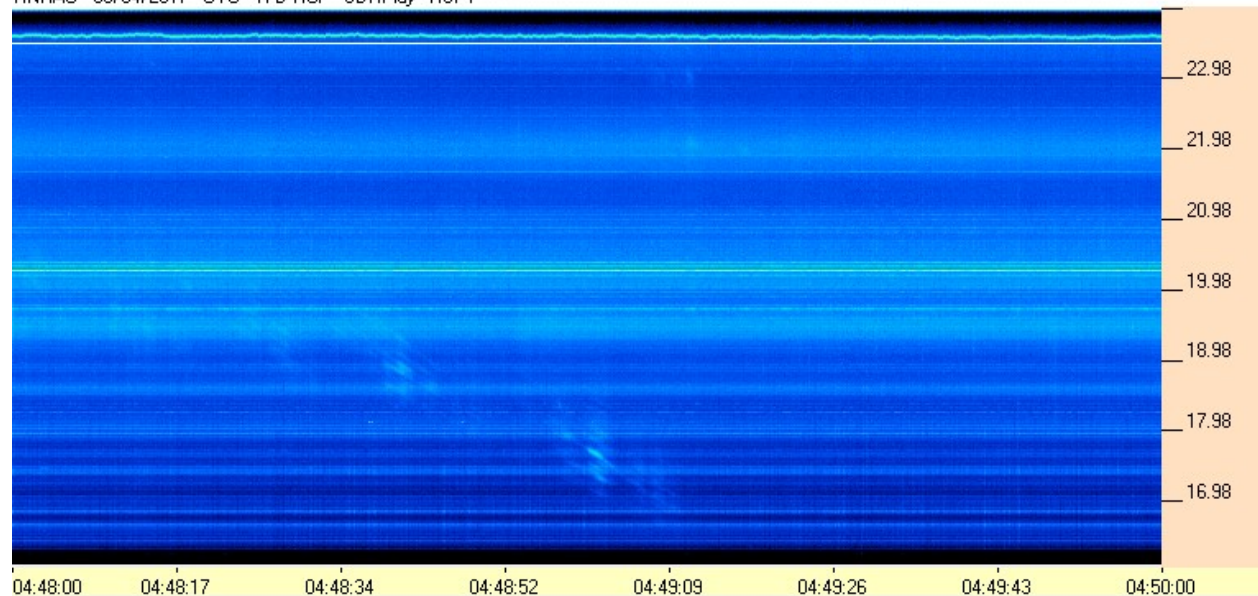
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HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



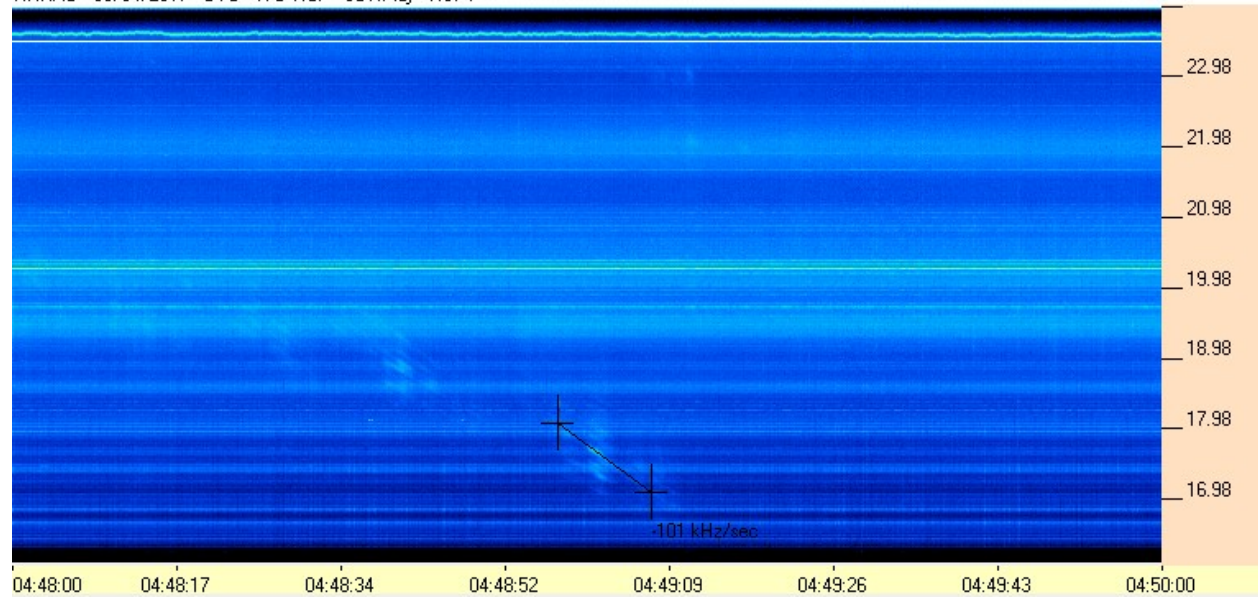
HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



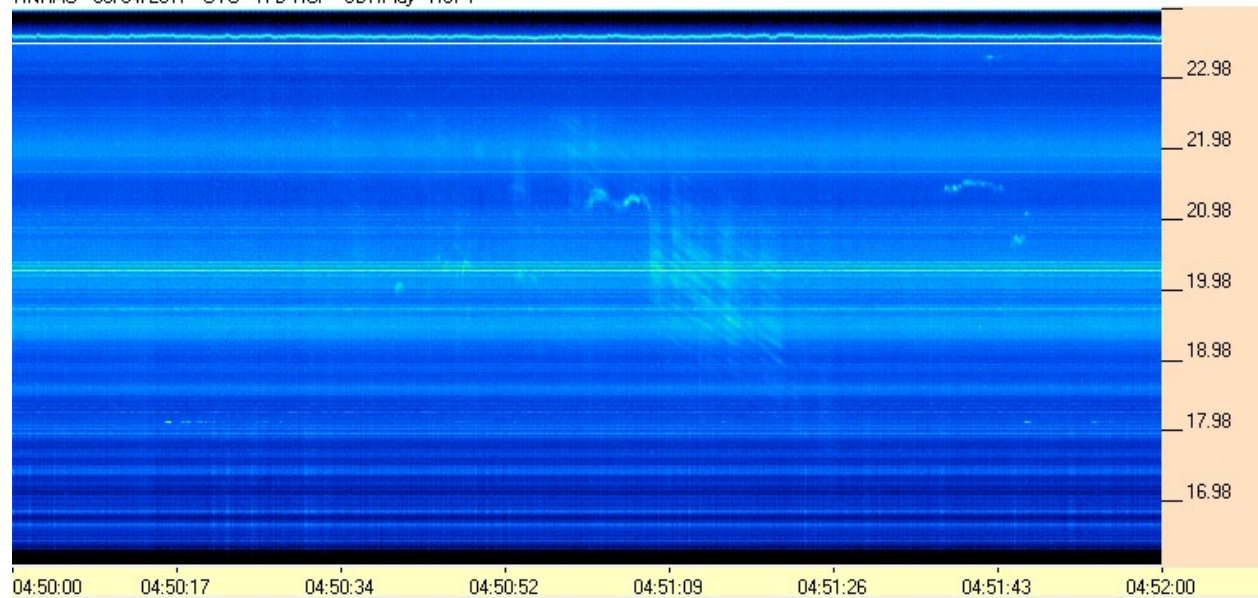
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HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



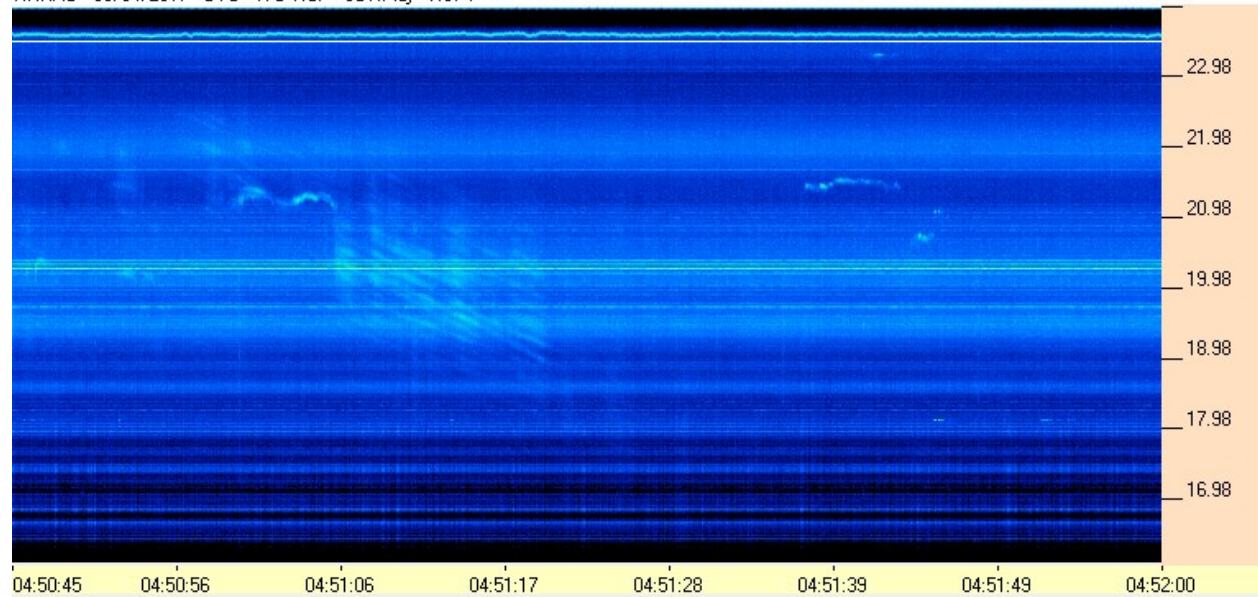
HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



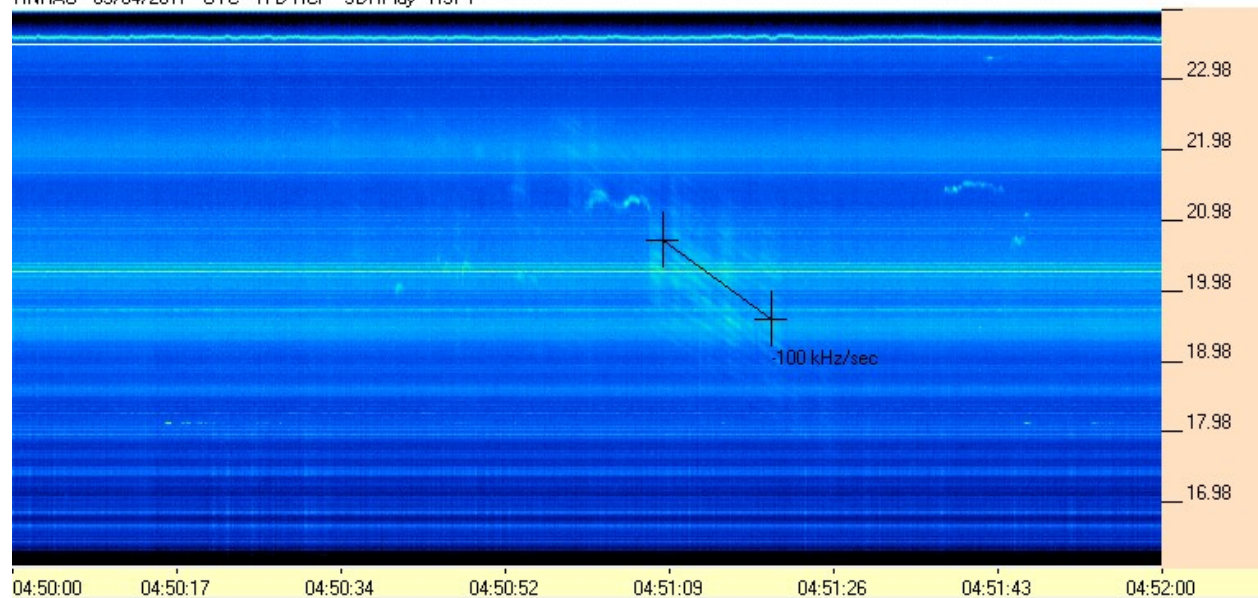
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HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



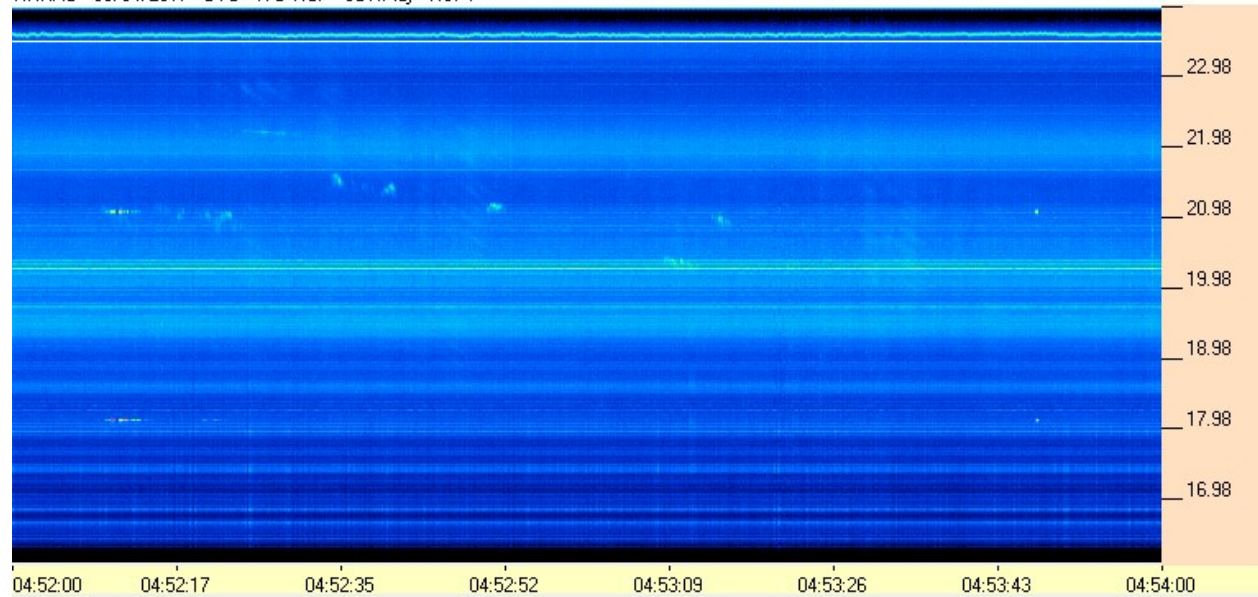
HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



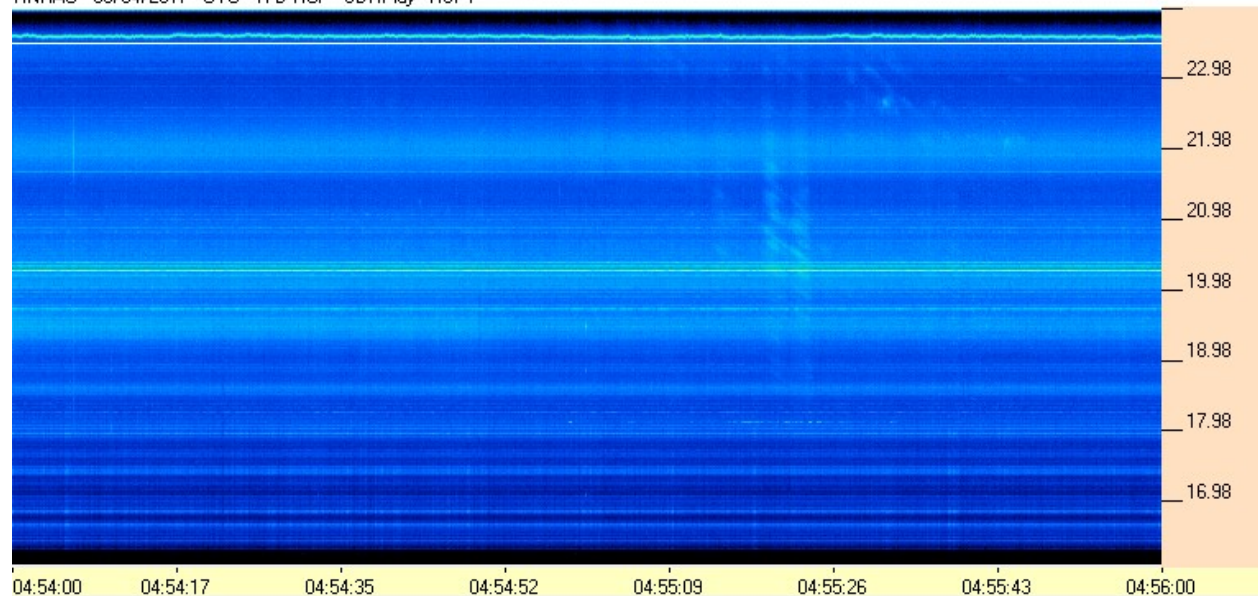
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HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



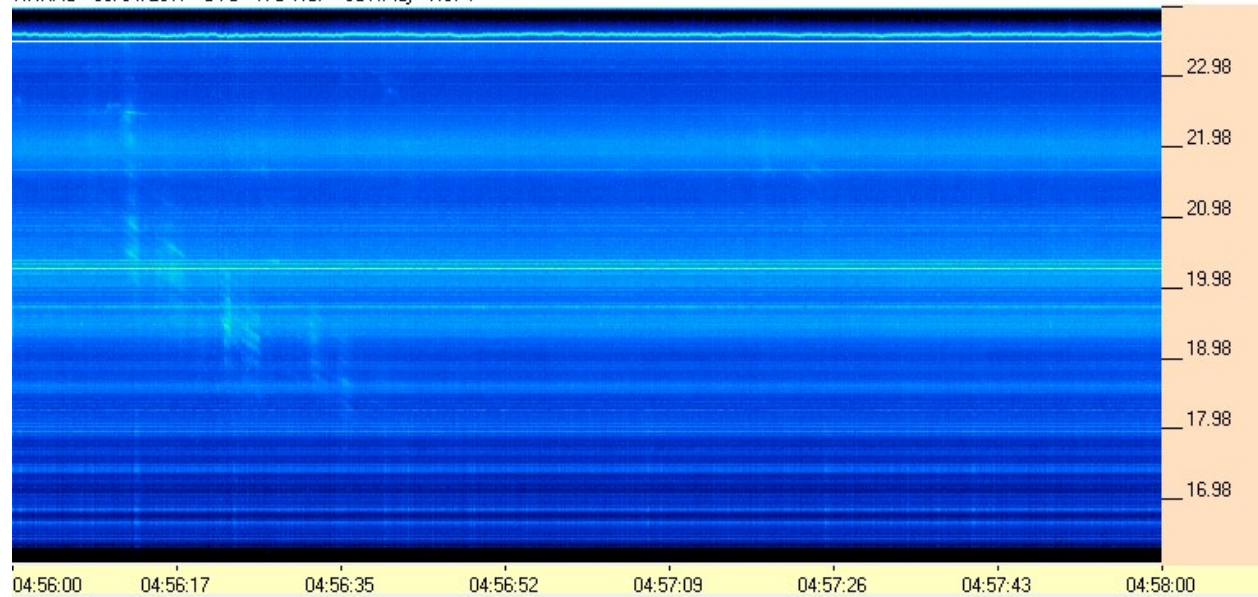
HNRAO - 03/04/2017 - UTC - TFD RCP - SDRPlay - RSP1



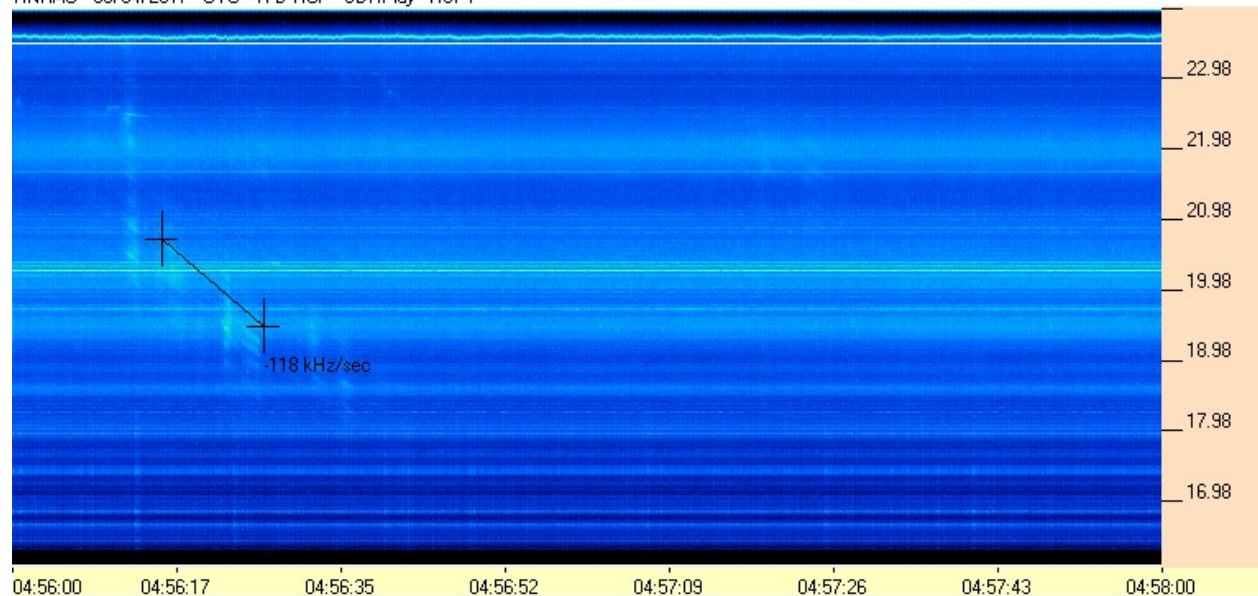
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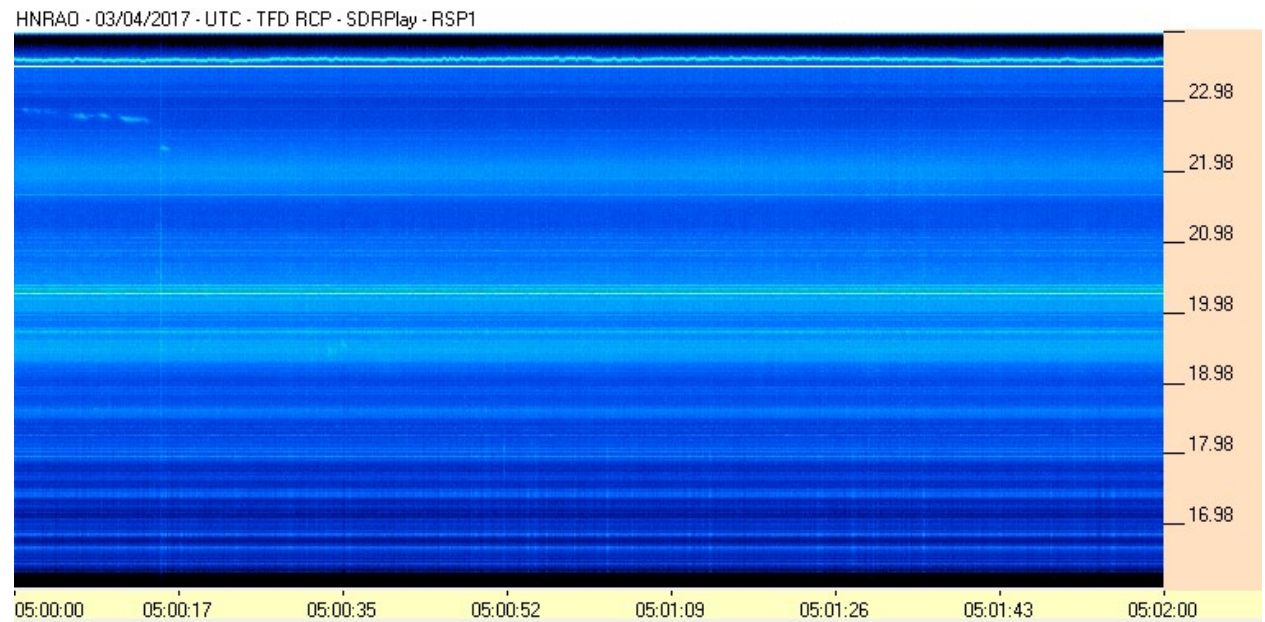
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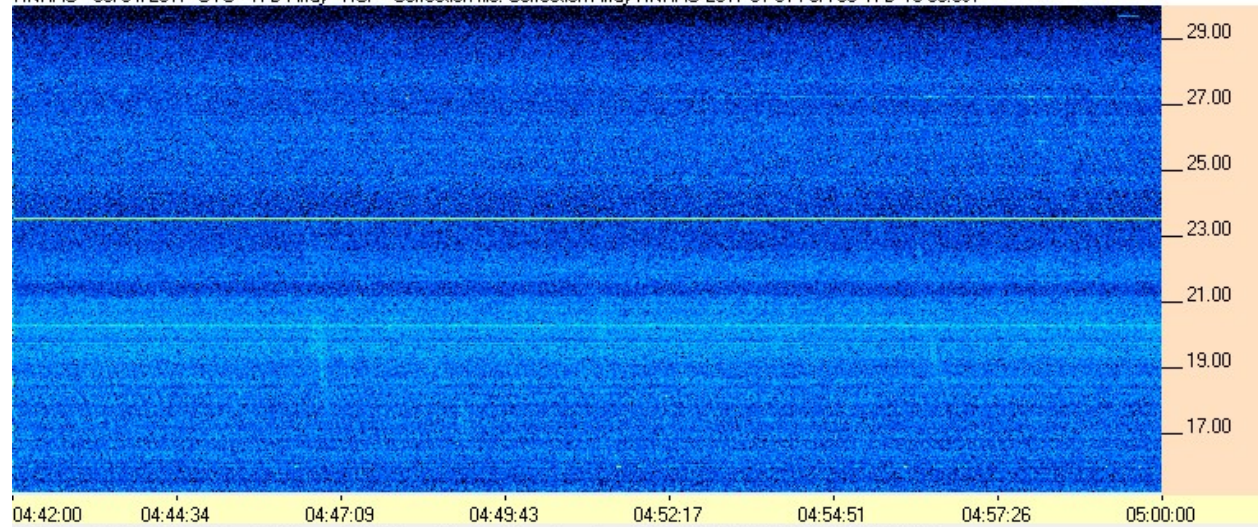


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FSX-8S/TFD Pair

HNRAO - 03/04/2017 UTC - TFD Array - RCP - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv



HNRAO - 03/04/2017 UTC - TFD Array - LCP - Correction file: Correction Array HNRAO 2017 01 31 FSX-8S TFD 15-30.csv

