MST-ISR-EEJ April 2015 Campaign Report

This is an analysis of RTIs during MST-ISR-EEJ campaign from April 14 to April 17, 2015.

MST-ISR-EEJ:

April, 14:

_ Lost of data due to transmitter (2 minutes).

_ % Operation/17h: 99.9%

Log:

_ 14 April 07:15 Start campaign.

_ 14 April 07:43 Problem with transmitter.

_ 14 April 09:55 Adjustment of the vipir clock.

_14 April 14:42 Interference at Channel A.

_14 April 20:00 High noise in Channel B.

Staff in charge

07-20: I. Manay. 20-24: P. Cóndor.

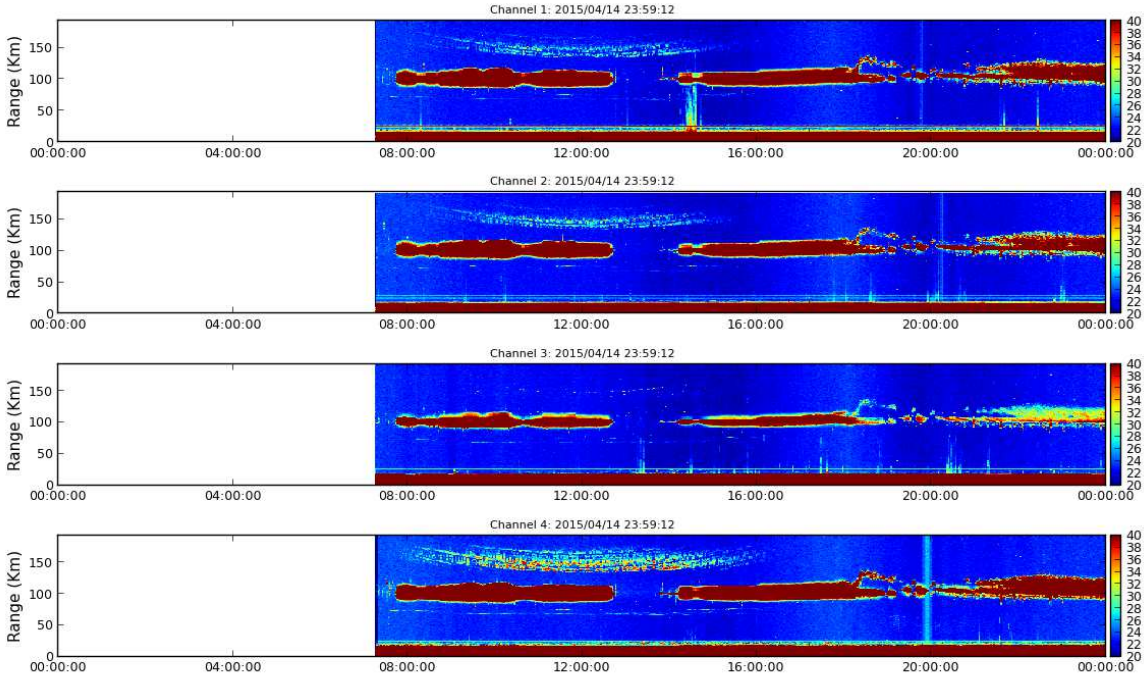


Figure 1 MST RTI Apr 14 2015

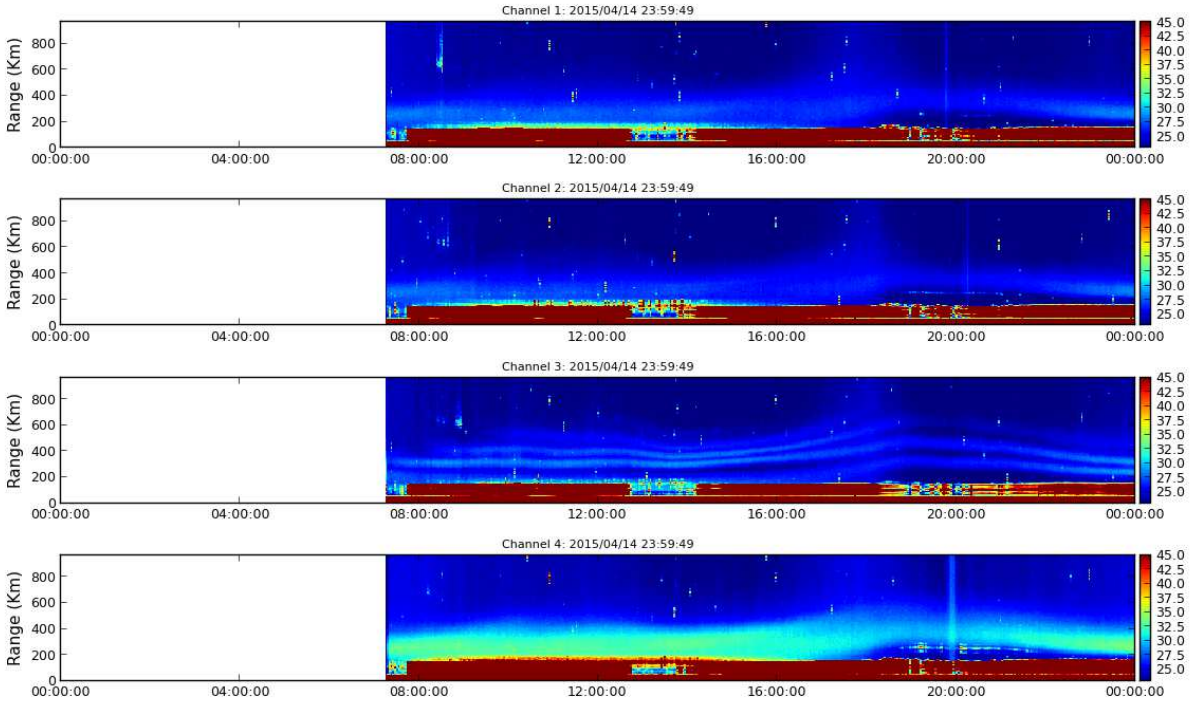


Figure 1. Rti ISR 2015-04-14.

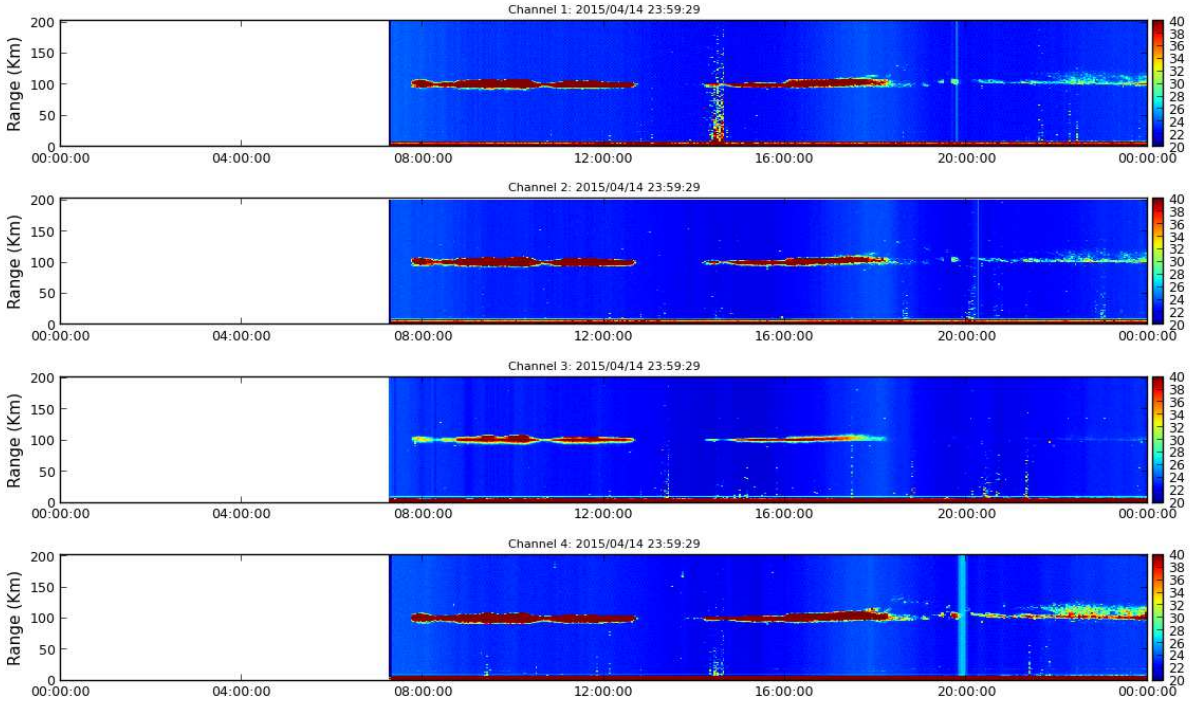


Figure 2. RTI EEJ 2015-04-14.

April, 15:

_ Lost of data due to transmitter (40 minutes).

_ Lost of data due to acquisition system and disk drive change (30 minutes)

_ % operation/24h: 95.14 %

Log:

_ 15 April 10:00 Vipir stopped for a few minutes.
_ 15 April 10:56 Transmitter turned off.
_ 15 April 11:38 Transmitter turned on.
_ 15 April 13:40 Acquisition software halted, processing software stopped for some minutes.
_ 15 April 14:00 Acquisition software halted, processing software stopped for some minutes.
_ 15 April 16:00 Acquisition system hard drive changed.
_ 15 April 16:10 End of hard drive change.
_15 April 19:30 Spark gaps problem detected,it caused the channel 2 attenuation.

Staff in charge

00-08: P. Cóndor. 08-20: J. Verástegui. 20-24: J. Oscanoa.

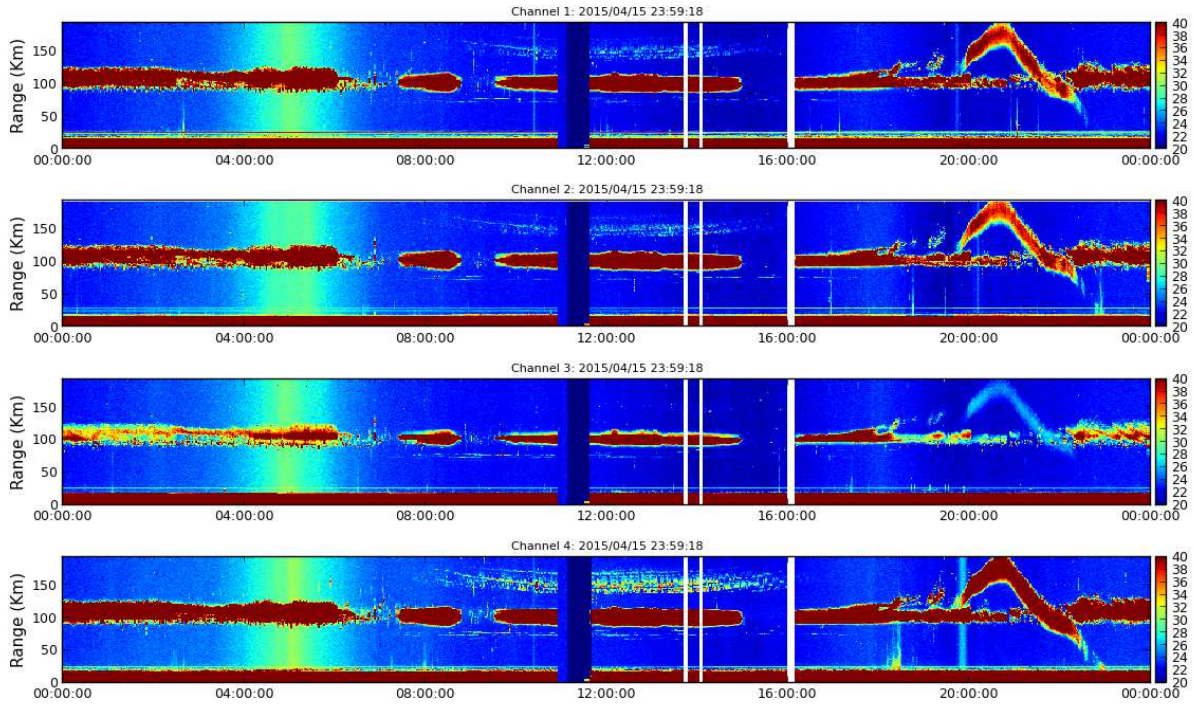


Figure 3. Rti MST 2015-04-15.

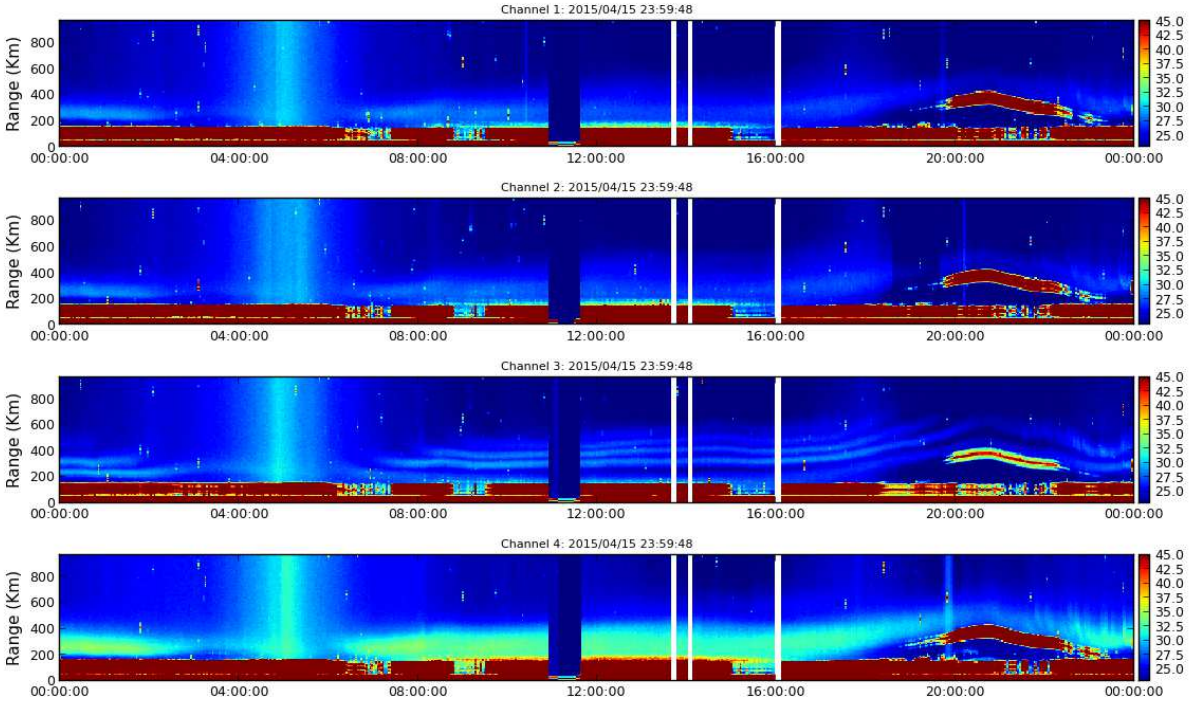


Figure 4. Rti ISR 2015-04-15.

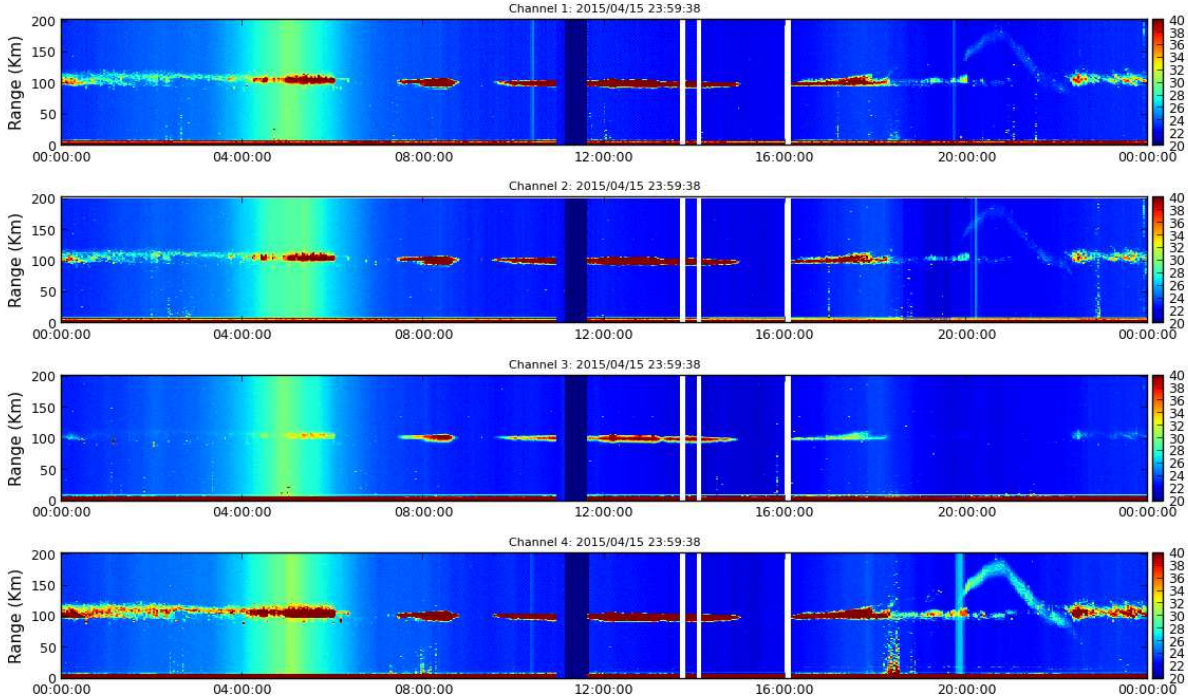


Figure 5. Rti EEJ 2015-04-15.

April 16:

_ Problems due to line failure (30 minutes)

_ Problems due to transmitter (1h 03).

_ % operation/24h: 93.54 %

Log:

_ 16 April 15:25 Problem with transmitter due to vaccum pump TX 4.

_ 16 April 15:55 Transmitter turned on.

_16 April 20:03 Problem with transmitter

_ 16 April 20:17 Transmitter turned on.

_17 April 00:28 Problem with transmitter

_ 17 April 00:57 Transmitter turned on.

Staff in charge:

00-08: J. Oscanoa, 08-20: R. Yanque, 20-24: P. Cóndor.

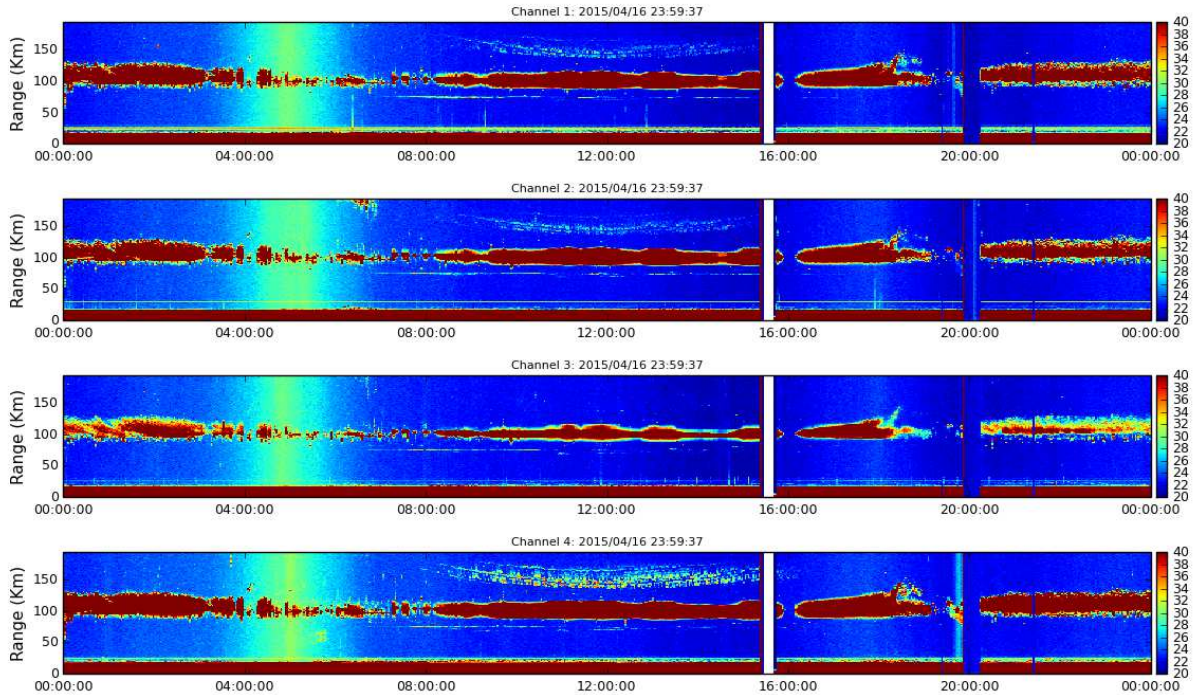


Figure 6. Rti MST 2015-04-16.

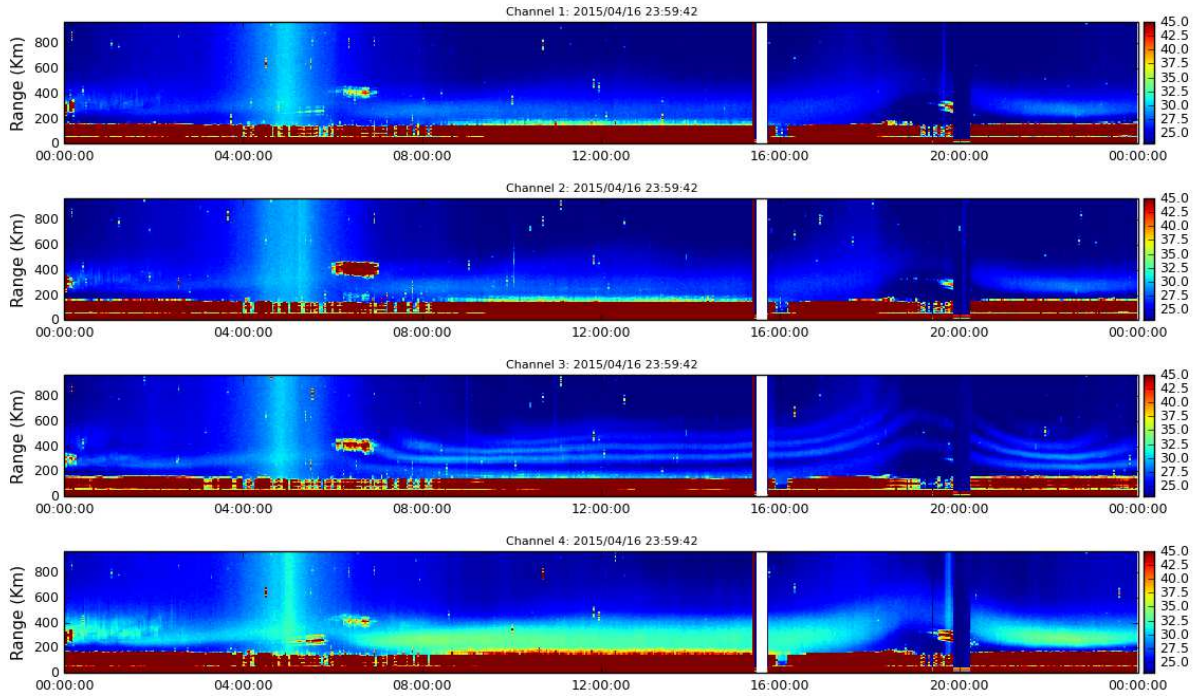


Figure 7. Rti ISR 2015-04-16

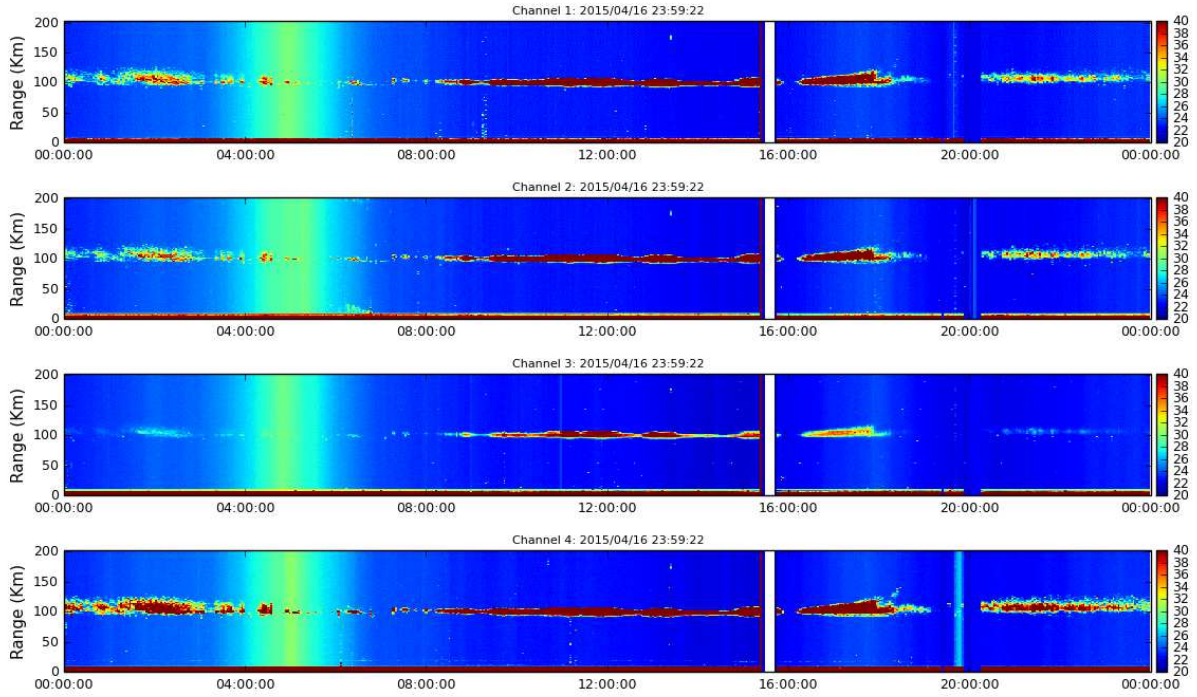


Figura 9. Rti EEJ 2015-04-16.

April 17:

_ Lost of data due to transmitter (3 minutes).

_ % operation/12h: 99.58 %

Log:

_ 17 Jan 12:46 Problem with transmitter (3 minutes).

Total operativity: 96.98%

Staff in charge:

00-08: P. Condor, 08-20: I. Manay.

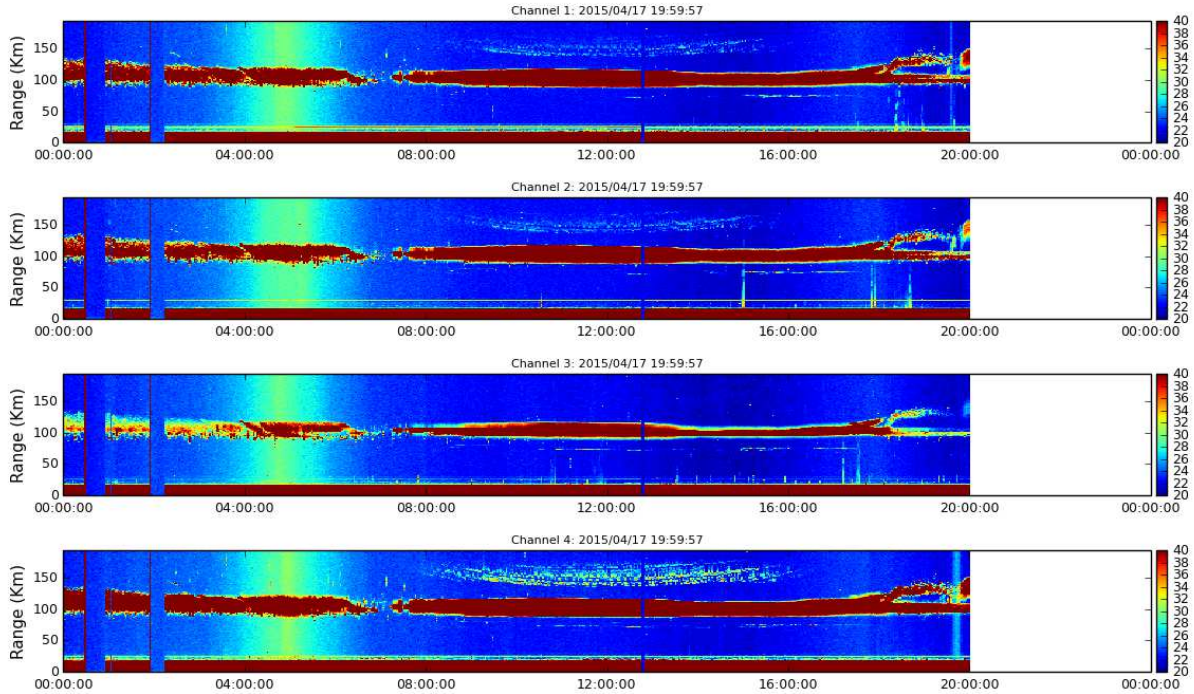


Figure 10. Rti MST 2015-04-17.

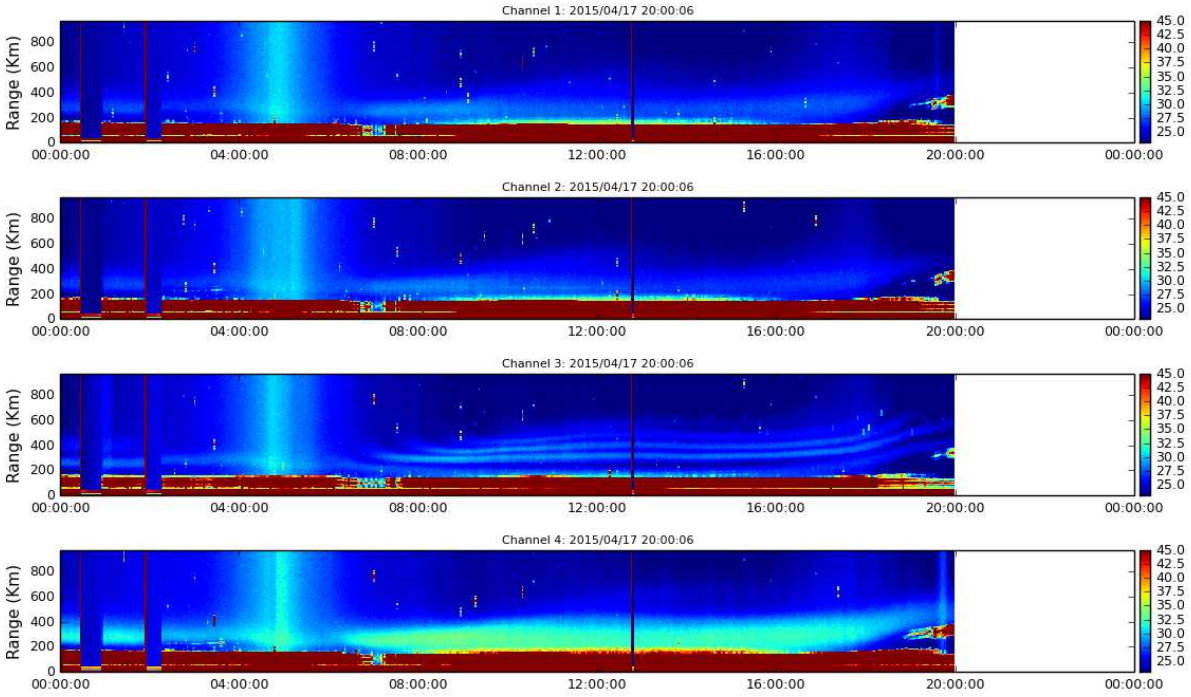


Figure 11 RTI ISR 2015-04-17

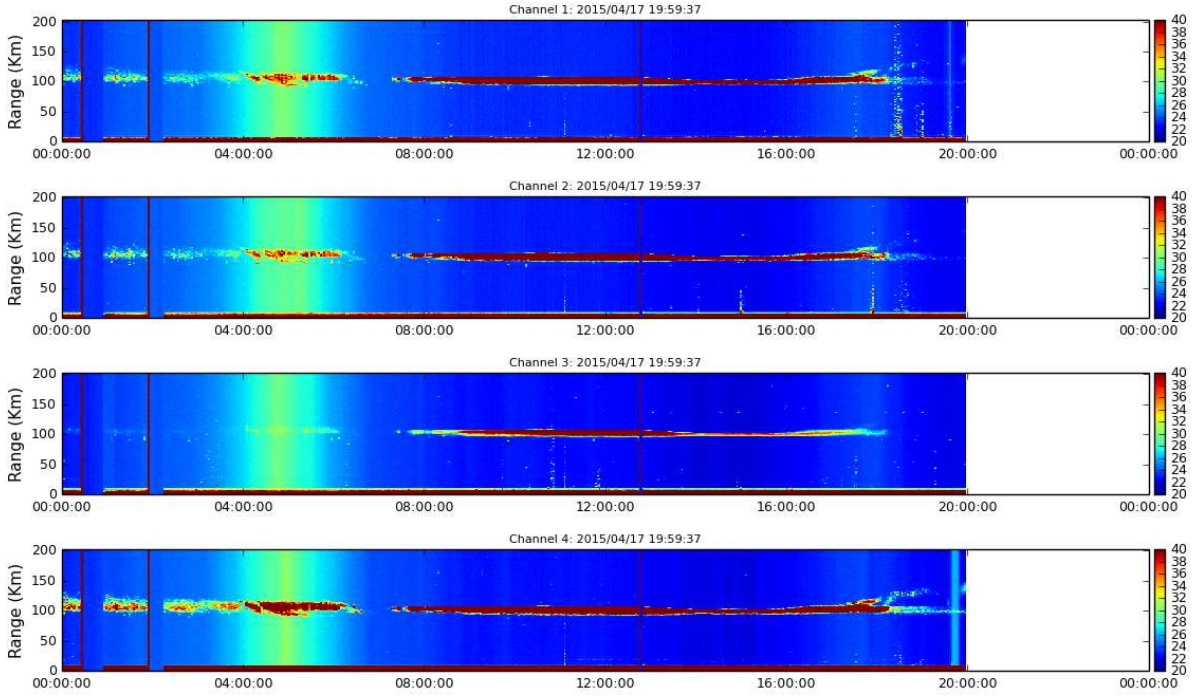


Figure 12 RTI EEJ 2015-04-17

Annex:

Sky noise for April 14, 2015:

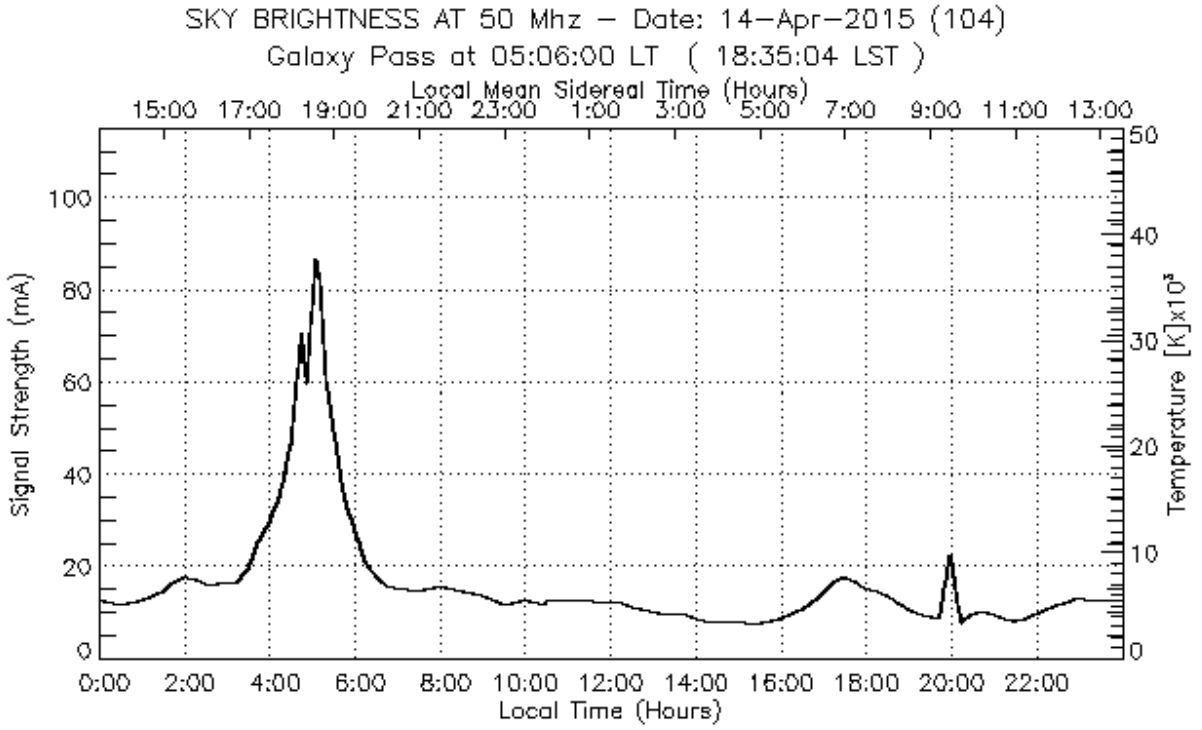
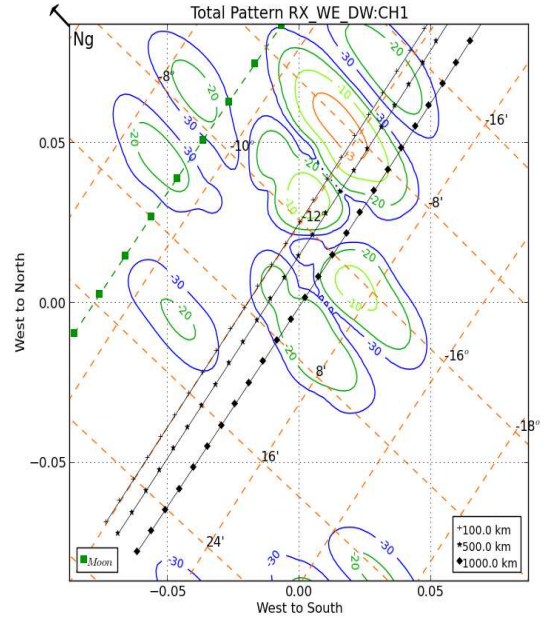
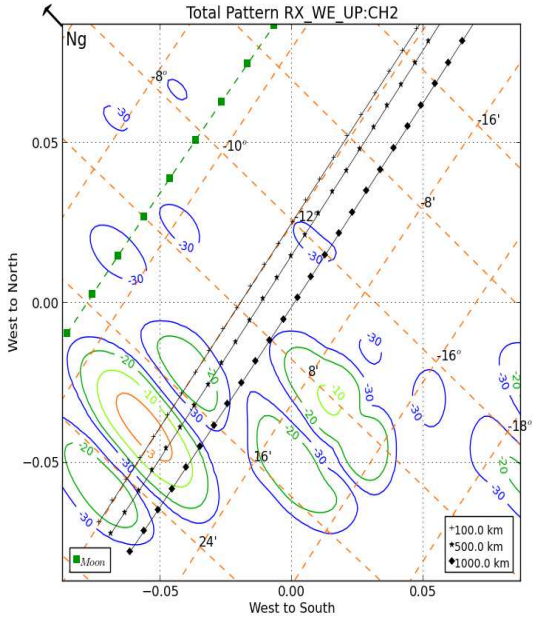


Figure 8. Sky noise.

Antenna pattern

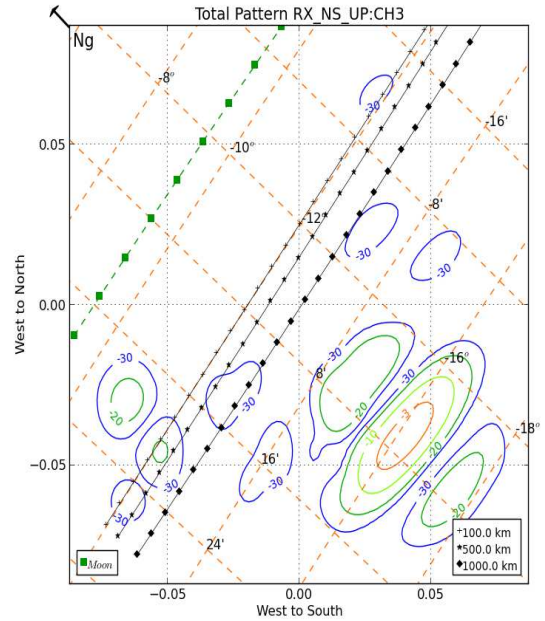


Over Jicamarca: 14-Apr-2015 (104)

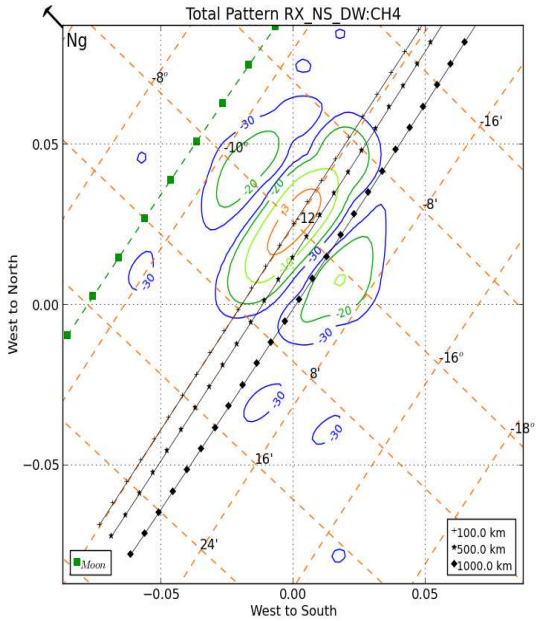


Over Jicamarca: 14-Apr-2015 (104)

Figure 9. Antennas pattern.



Over Jicamarca: 14-Apr-2015 (104)



Over Jicamarca: 14-Apr-2015 (104)

Figure 10. Antennas pattern.