

EW_Drifts-Faraday-Imaging January 2018 Campaign Report

This is an analysis of RTIs during EW_Drifts-Faraday-Imaging campaign from January 10 to 13, 2018. We show the RTIs and results.

EW_DRIFT-FARADAY-IMAGING:

January, 10:

_ Start the campaign from 15:20 hours.

_ Spread F from 19 to 24 hours.

_ % Operation/8h: 100.0

Log:

_ 10 Jan 16:00 Start campaign.

_ 10 Jan 17:30 Start Imaging.

Staff in charge

08-20: I. Manay. 20-24: A. Belleza.

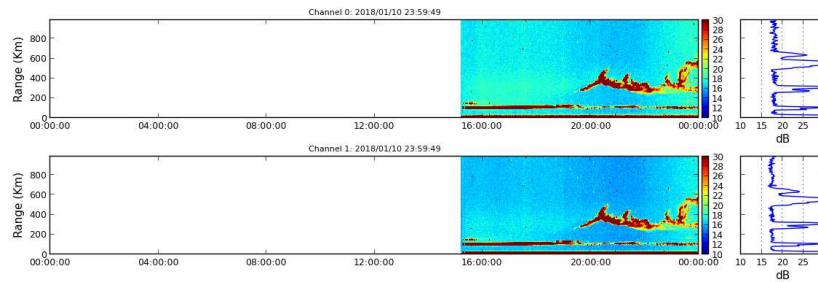


Figure 1. Rti FARADAY 2018-01-10.

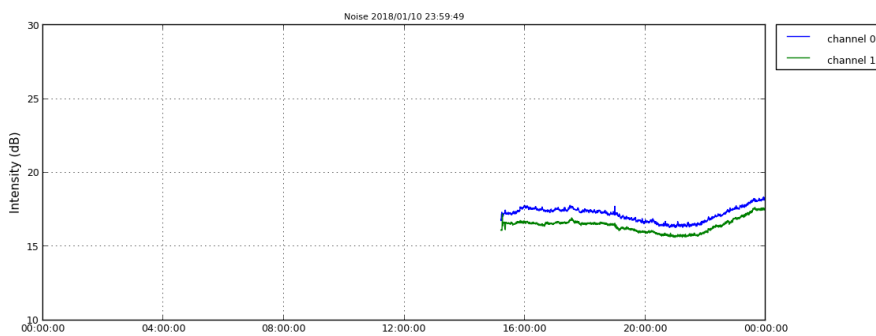


Figure 2. Faraday Noise 2018-01-10.

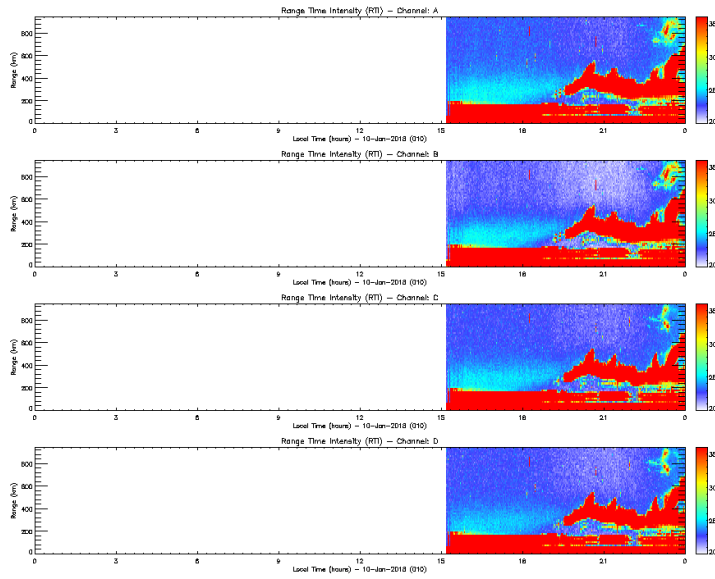


Figure 3.Rti EW_DRIFT 2018-01-10.

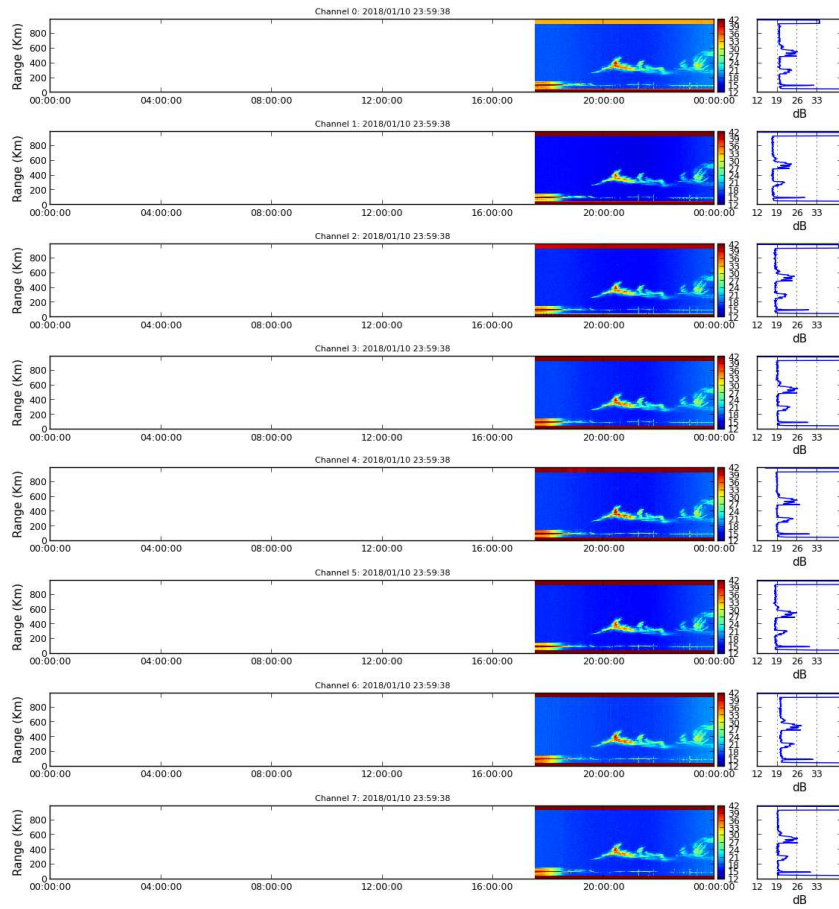


Figure 4. RTI IMAGING 2018-01-10.

Drifts obtained:

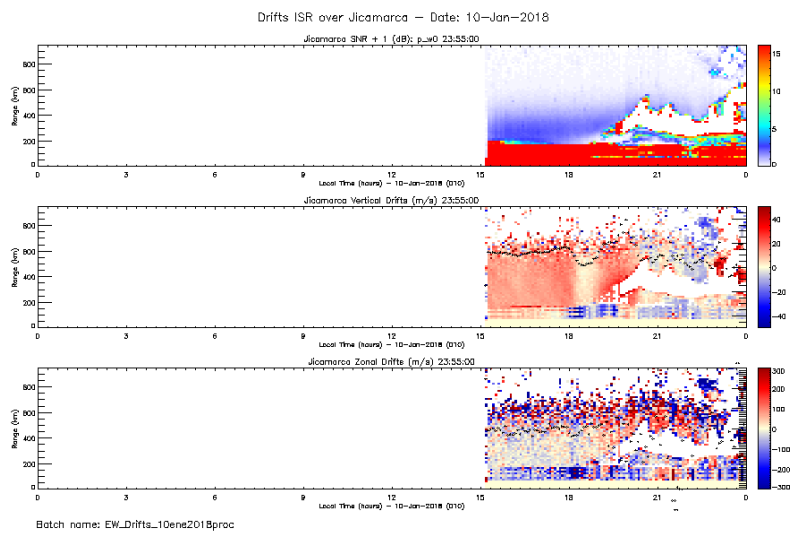


Figure 5. Drifts 2018-01-10.

January, 11:

- _ Spread F from 00 to 06 and 21 to 24 hours.
- _ Lost data at 8 hours for ten minutes.
- _ Faraday lost synchronization at 20 and 22 hours.
- _ % operation/24h: 99.31.

Log:

- _ 11 Jan 17:35 Start Imaging.
- _ 11 Jan 20:47 Restart Faraday.
- _ 11 Jan 22:32 Restart Faraday.

Staff in charge

00-08: A. Belleza. 08-20: K. Kuyeng. 20-24: P. C6ndor.

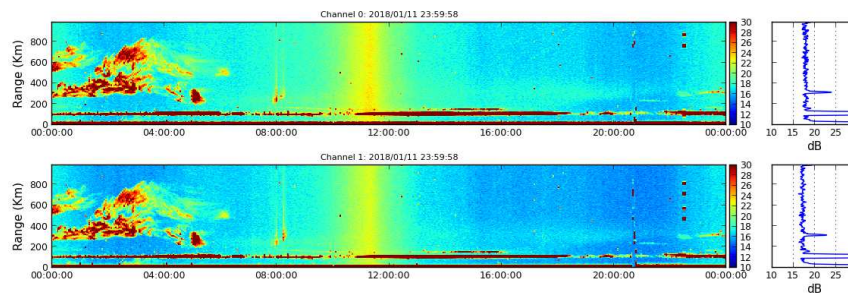


Figure 6. Rti FARADAY 2018-01-11.

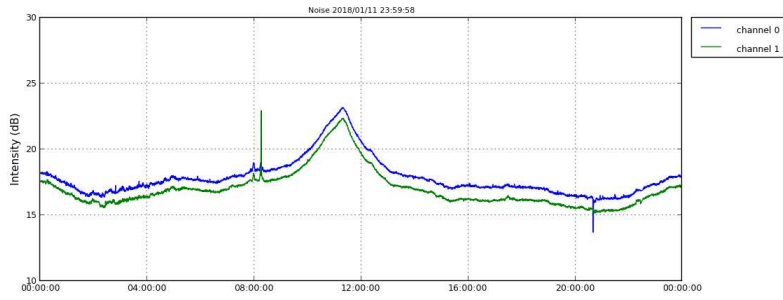


Figure 7. Faraday Noise 2018-01-11.

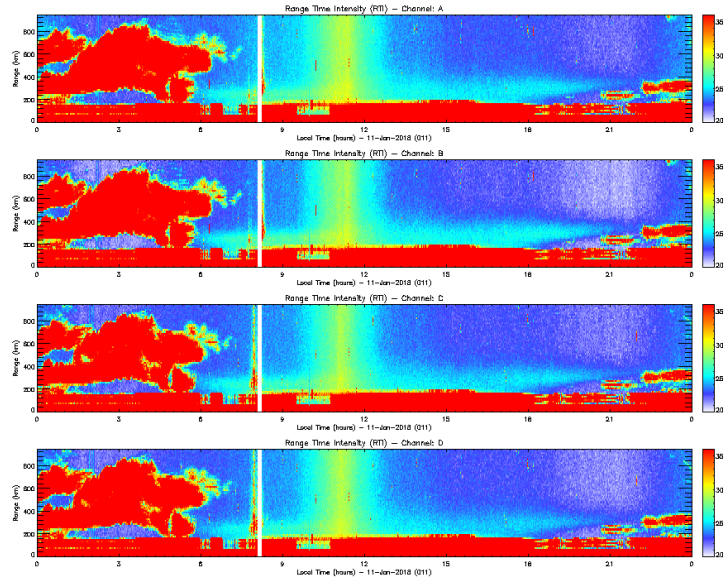


Figure 8. Rti EW_DRIFT 2018-01-11.

Drifts obtained:

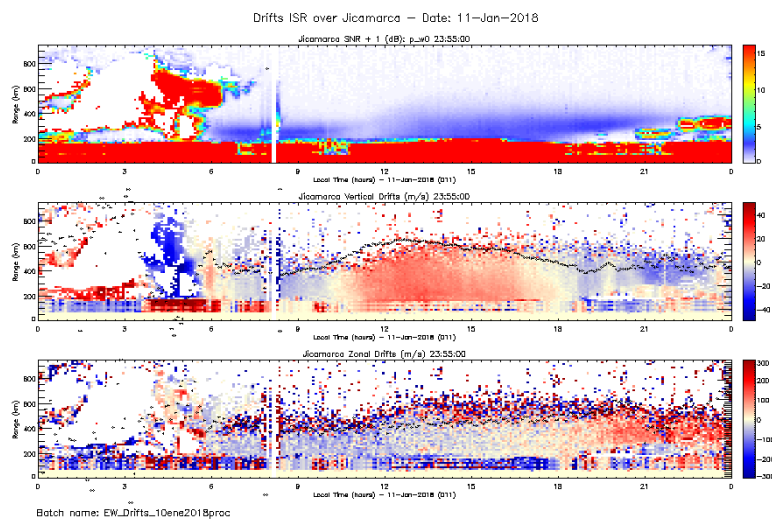


Figure 1. Drifts 2018-01-11.

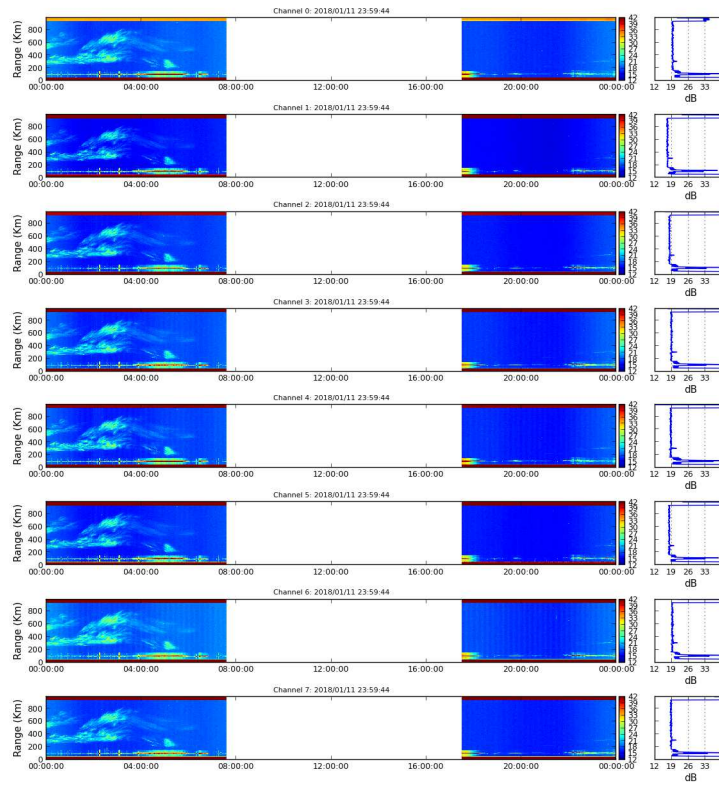


Figure 10. Rti IMAGING 2018-01-11.

January, 12:

_ There is Spread F from 00 to 04 and from 19 to 24 hours.

_ Problem with transmitter at 21 hours for 2 minutes.

_ % operation/24h: 99%

Log:

_ 12 Jan 06:06 Imaging off.

_ 12 Jan 06:40 Restart Faraday.

_ 12 Jan 17:30 Start Imaging.

Staff in charge: 00:08: P. C3ndor 08-20: I. Manay. 20-24: A. Valdez.

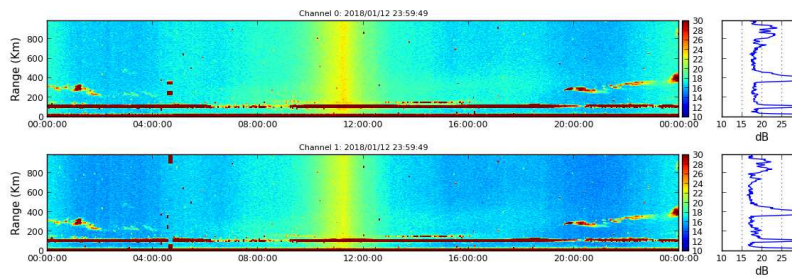


Figure 11. Rti FARADAY 2018-01-12.

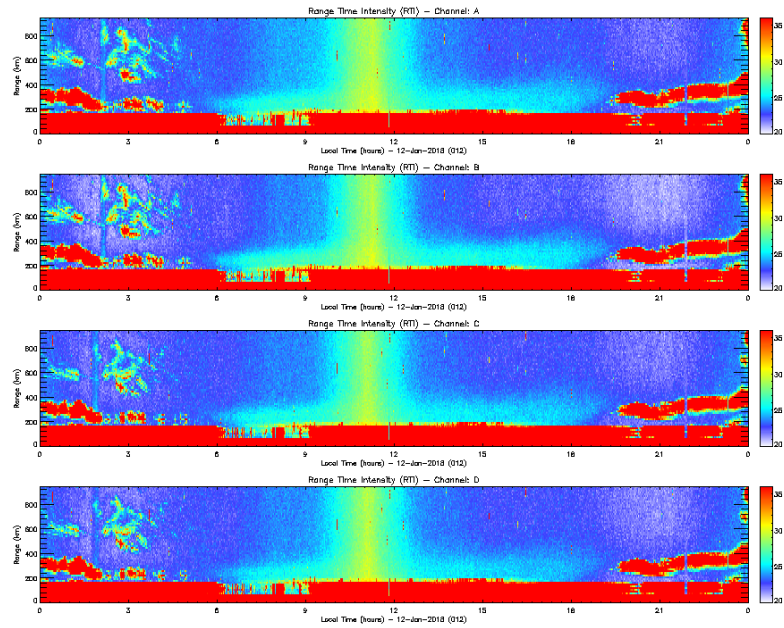


Figure 12. Rti EW_DRIFT 2018-01-12.

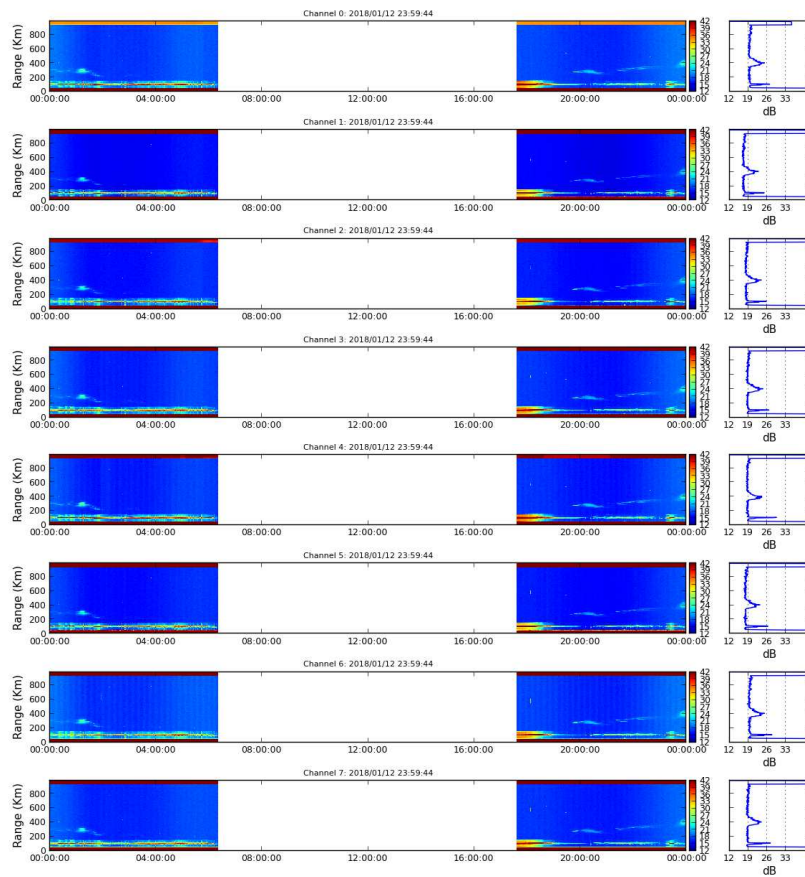


Figure 13. Rti IMAGING 2018-01-12.

Drifts obtained:

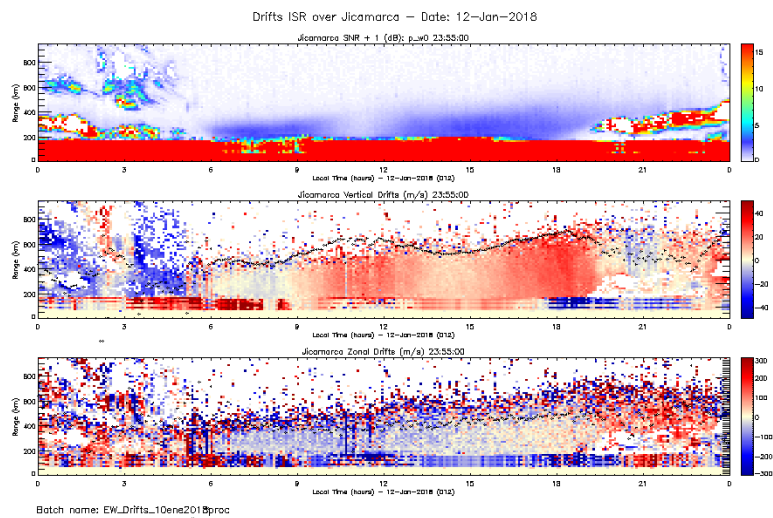


Figure 2. Drifts 2018-01-12.

Faraday Noise:

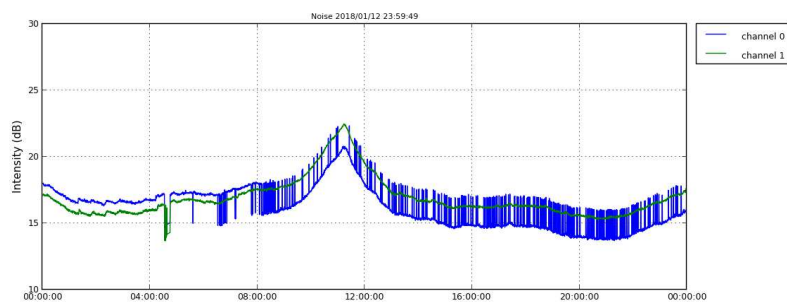


Figure 3. Faraday Noise 2018-01-12.

January, 13:

- _ There is Spread F from 00 to 06 hours.
- _ Problem with transmitter at 7 hours for 2 minutes.
- _ End of campaign at 8 hours.
- _ % operation/8h: 100.

Staff in charge: 00-08: A. Valdez.

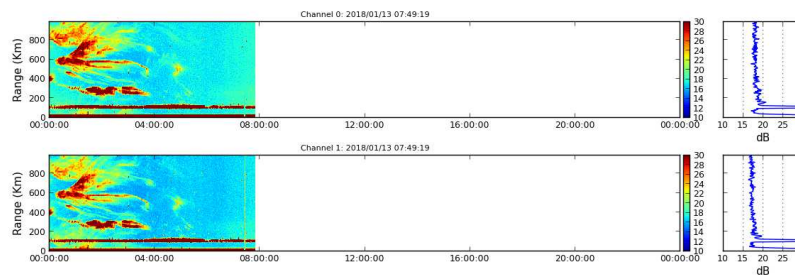


Figure 4. Rti FARADAY 2018-01-13.

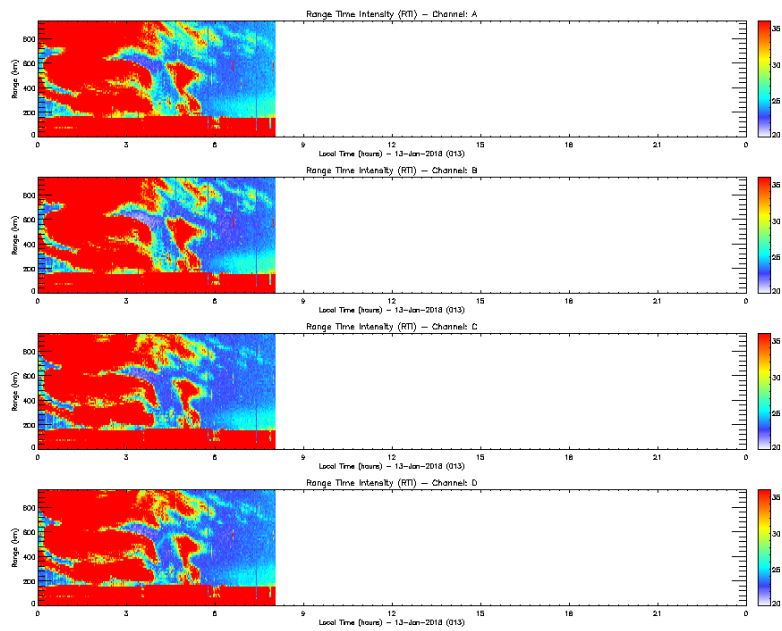


Figure 5. Rti EW_DRIFT 2018-01-13.

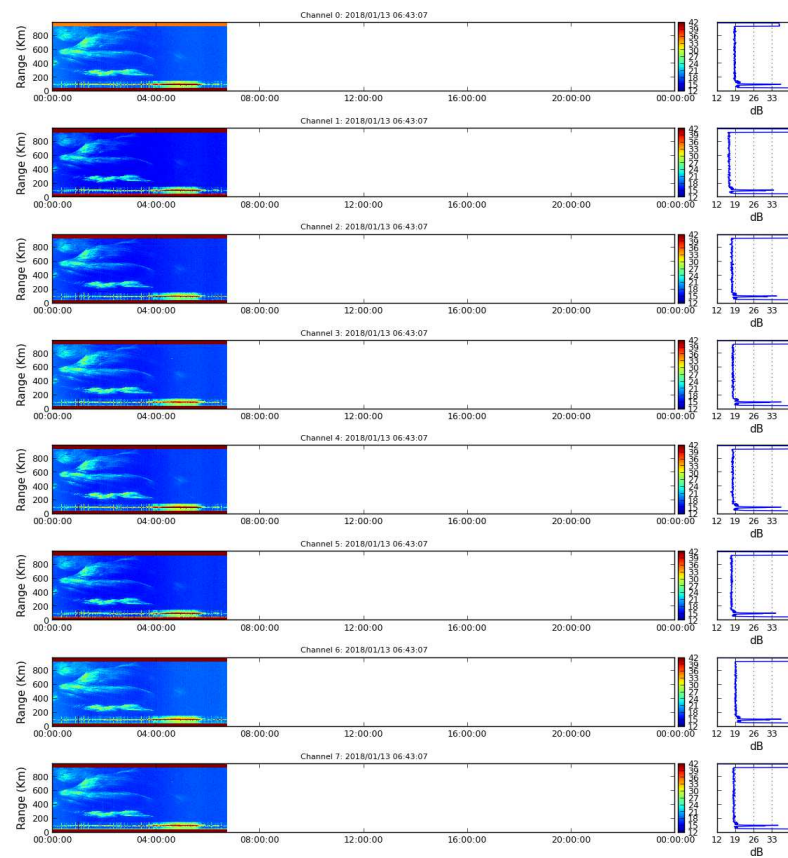


Figure 6. Rti IMAGING 2018-01-13.

Drifts obtained:

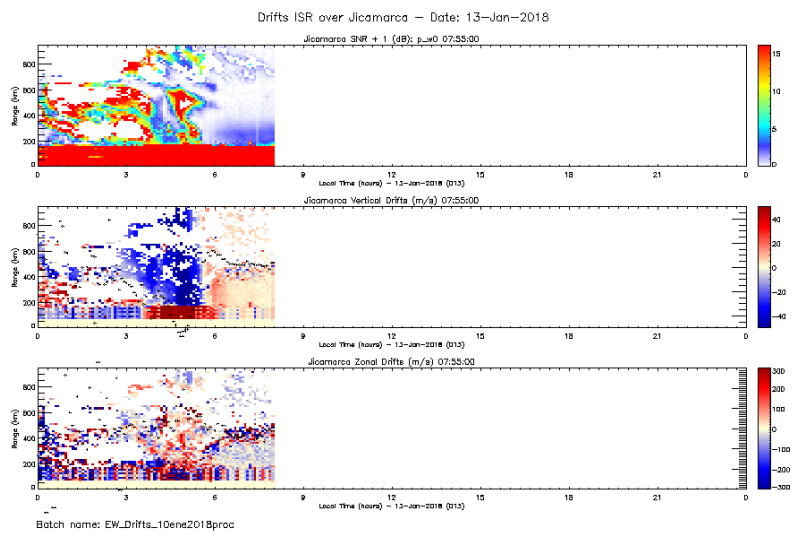


Figure 7. Drifts 2018-01-13.

Faraday Noise:

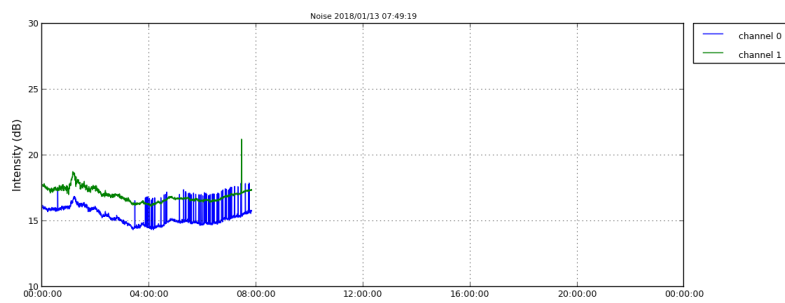


Figure 8. Faraday Noise 2018-01-13.

Observation:

Faraday noise is not Ok, should be corrected before next campaign.

Appendant:

Sky noise for January 10, 2018:

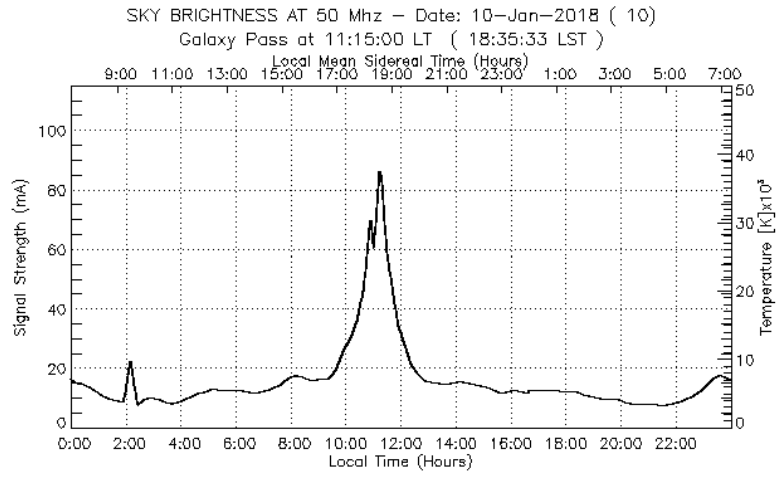


Figure 9. Sky noise.

Antenna pattern

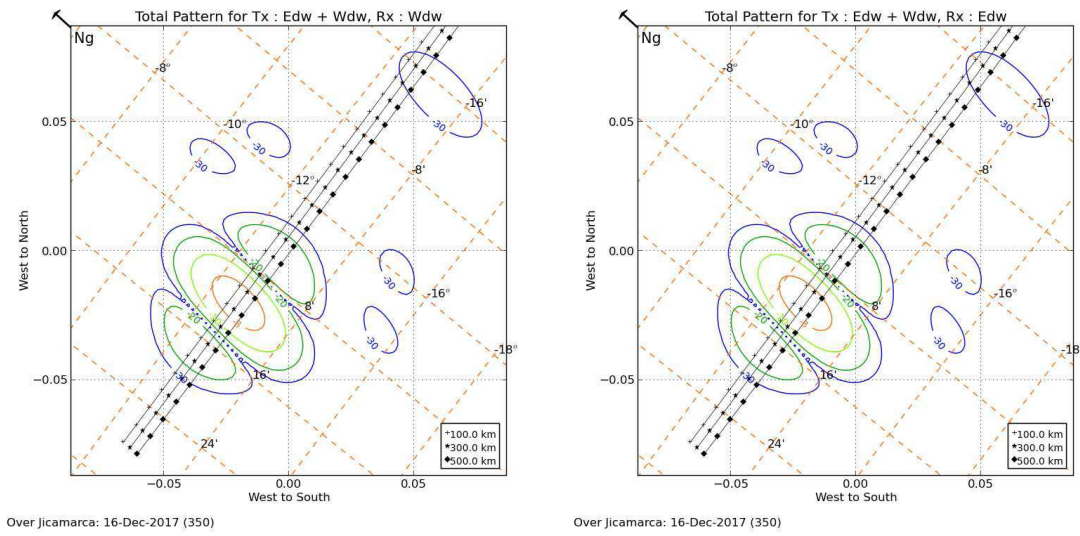
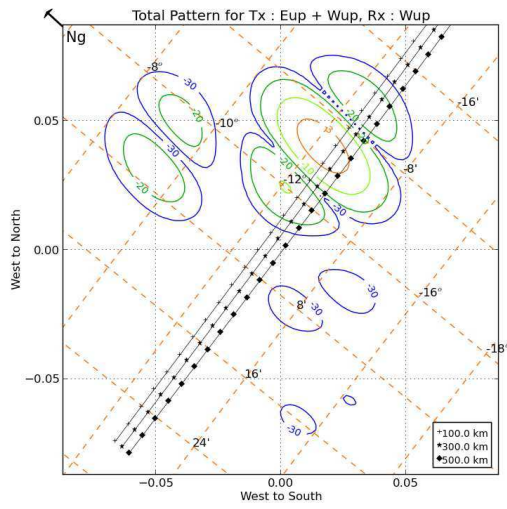
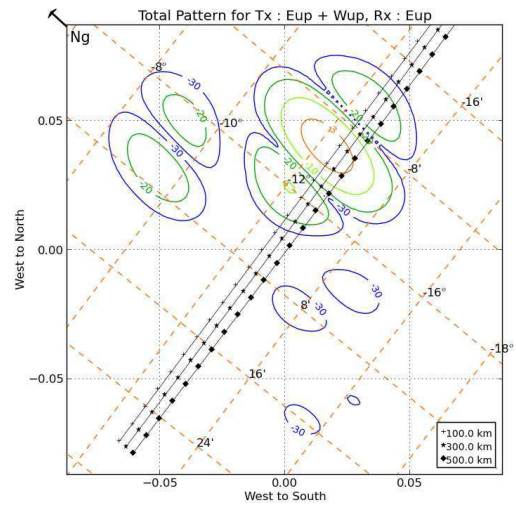


Figure 10. Antennas pattern EW_Drifts: Ch A and Ch B.

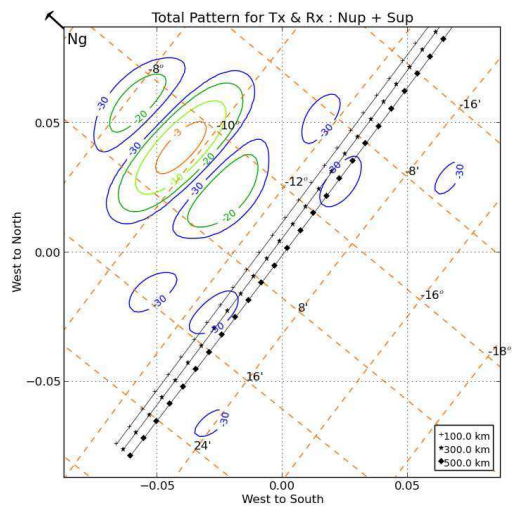


Over Jicamarca: 16-Dec-2017 (350)

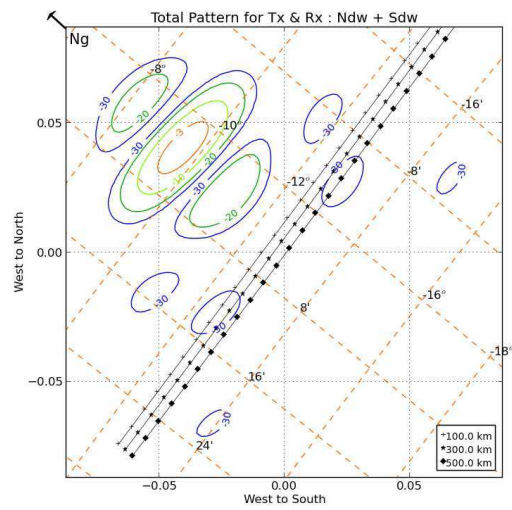


Over Jicamarca: 16-Dec-2017 (350)

Figure 11. EW_Drifts: Ch C and Ch D.



Over Jicamarca: 16-Dec-2017 (350)



Over Jicamarca: 16-Dec-2017 (350)

Figure 12. Faraday: Ch A and Ch B.