

EW_Drift-Faraday-Imaging September 2015 Campaign Report

This is an analysis of RTIs during EWDrift-Faraday-Imaging campaign from September 22 to September 25, 2015. We show the RTIs and results.

EW_DRIFT-FARADAY-IMAGING:

September, 22:

_ Start the campaign from 07:00 hours.

_ Moon event around 07:20.

_ Falls of transmitters at 11:45 and 16:55.

_ Spread F from 19 to 23:30 hours.

_ % Operation/17h: 99.41

Log:

_ 22 Sep 07:10 Start campaign.

Staff in charge

07-20: I. Manay. 20-24: A. Belleza.

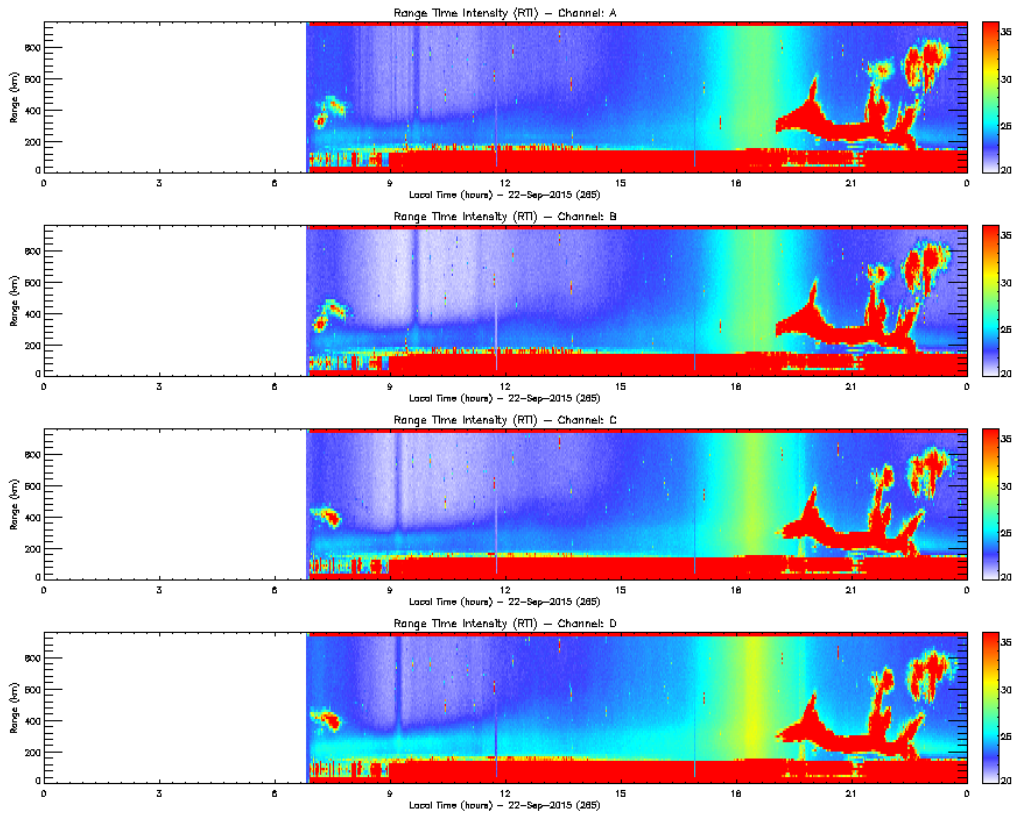


Figure 1.Rti EW_DRIFT 2015-09-22.

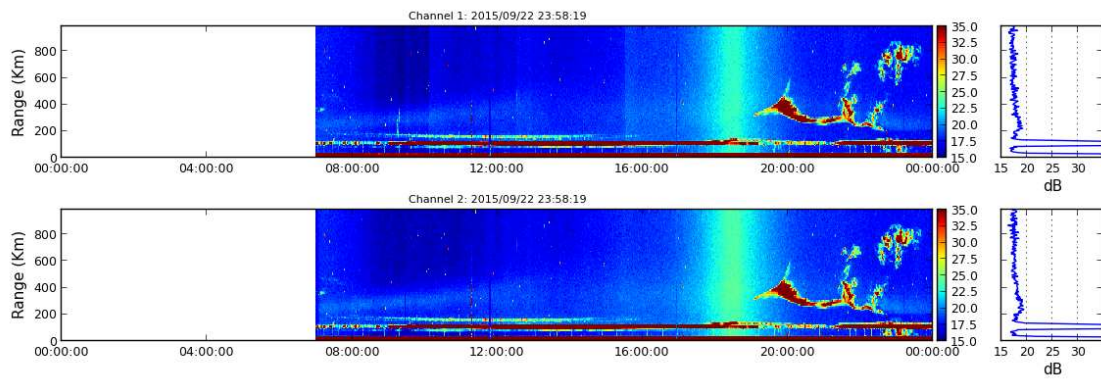


Figure 2. Rti FARADAY 2015-09-22.

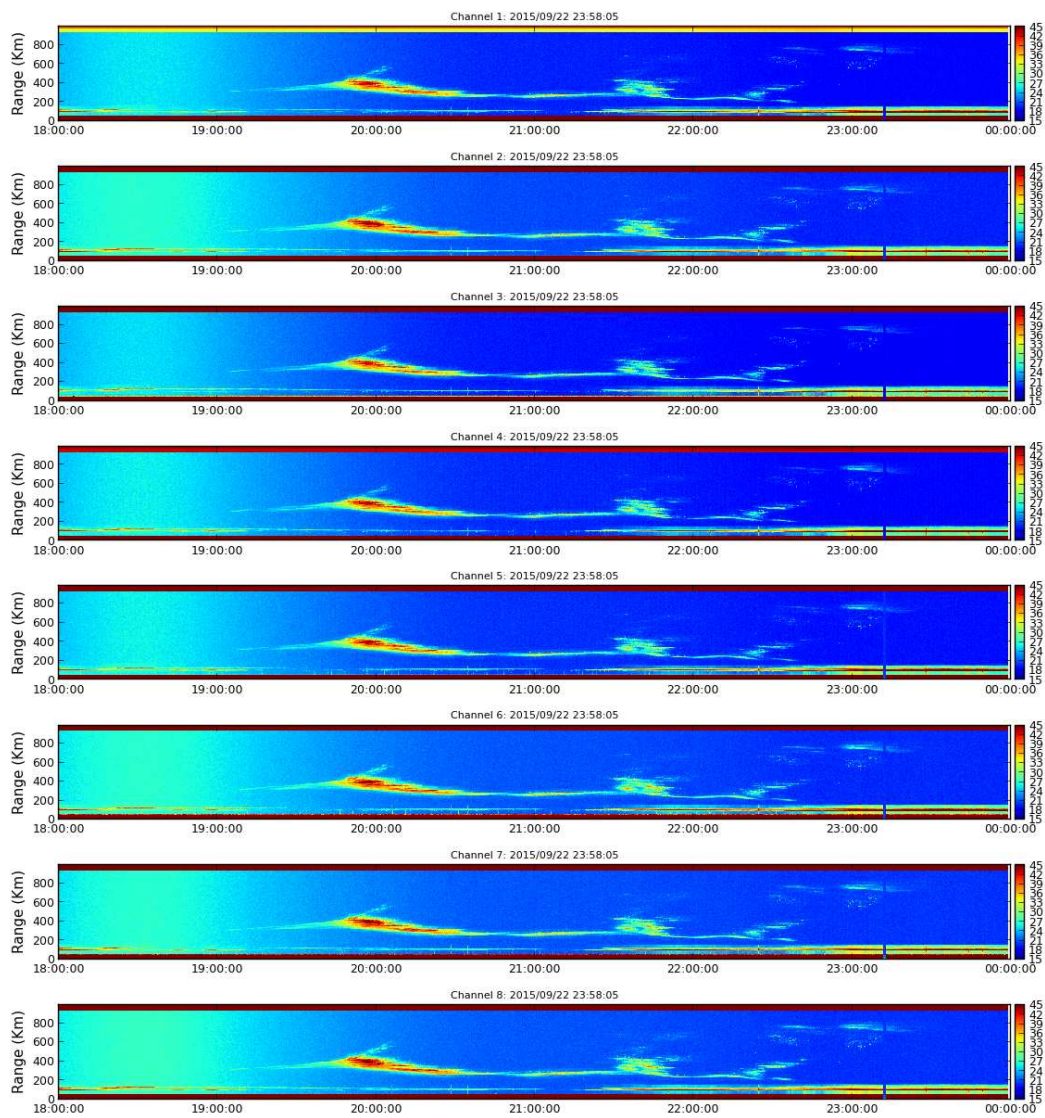


Figure 3. RTI IMAGING 2015-09-22 18:00-24:00.

Drifts obtained:

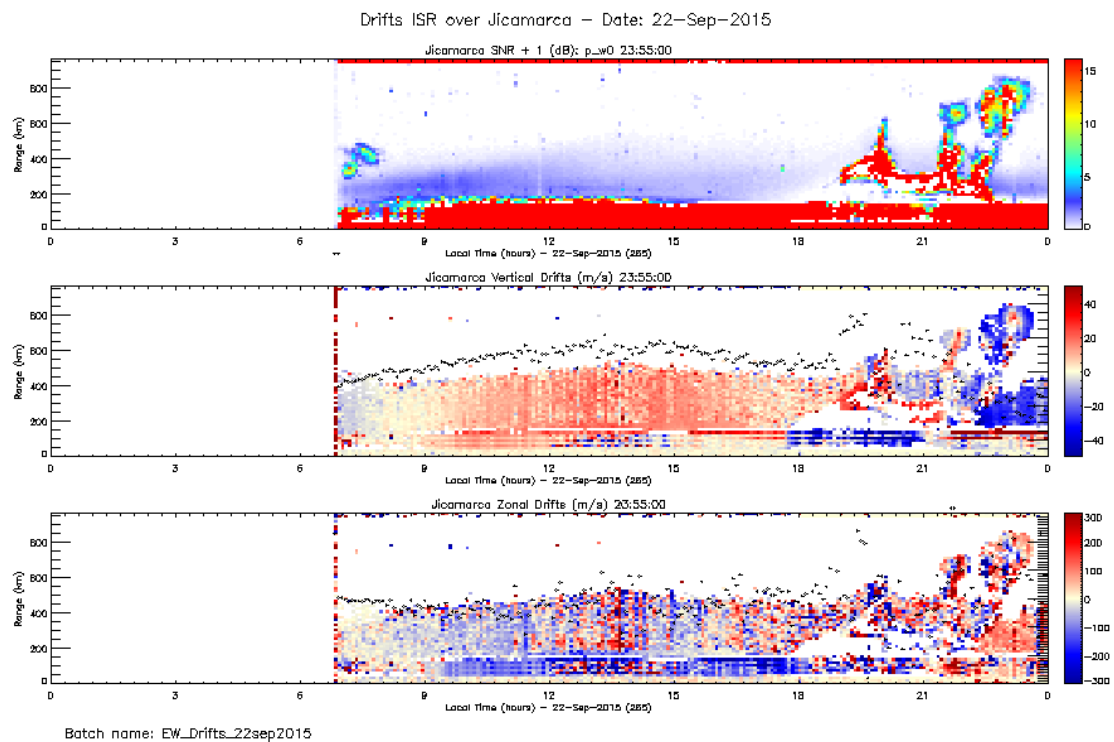


Figure 4. Drifts 2015-09-22.

September, 23:

- _ Falls of transmitters at 03:40, 07:22, 08:50, 11:00, 18:12.
- _ Spread F from 19 to 24 hours.
- _ % operation/24h: 97.97.

Log:

- _ 23 Sep 07:22 Fall of transmitters.
- _ 23 Sep 08:50 Transmitter went down.
- _ 23 Sep 11:00 Transmitter turned off for a connection checking. The channel A noise floor was too strong.
- _ 23 Sep 18:12 Transmitter went down.
- _ 23 Sep 23:15 Restart EW Drift and Faraday batches.

Staff in charge

00-08: A. Belleza. 08-20: J. Verástegui. 20-24: P. Córdor.

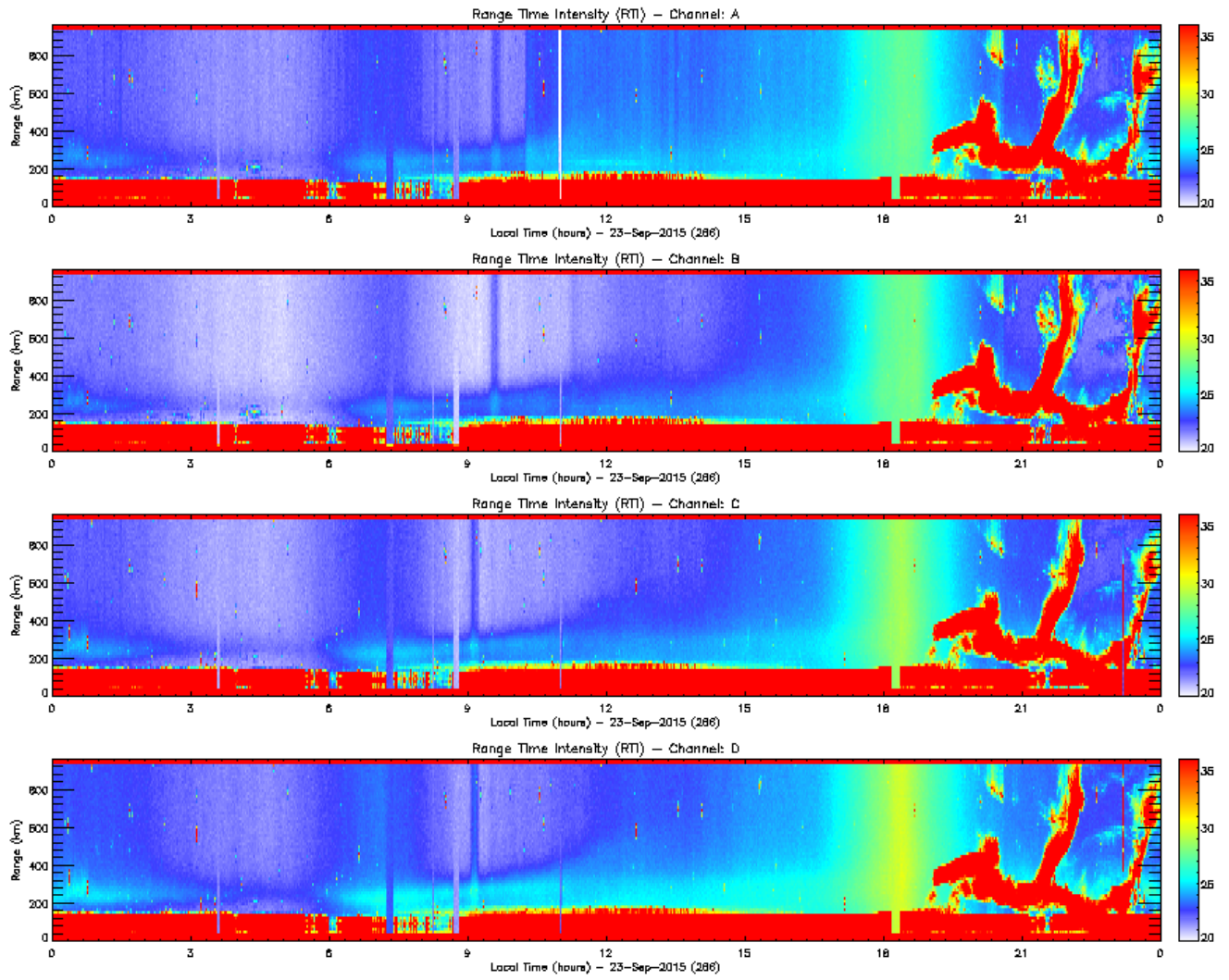


Figure 5. Rti EW_DRIFT 2015-09-23.

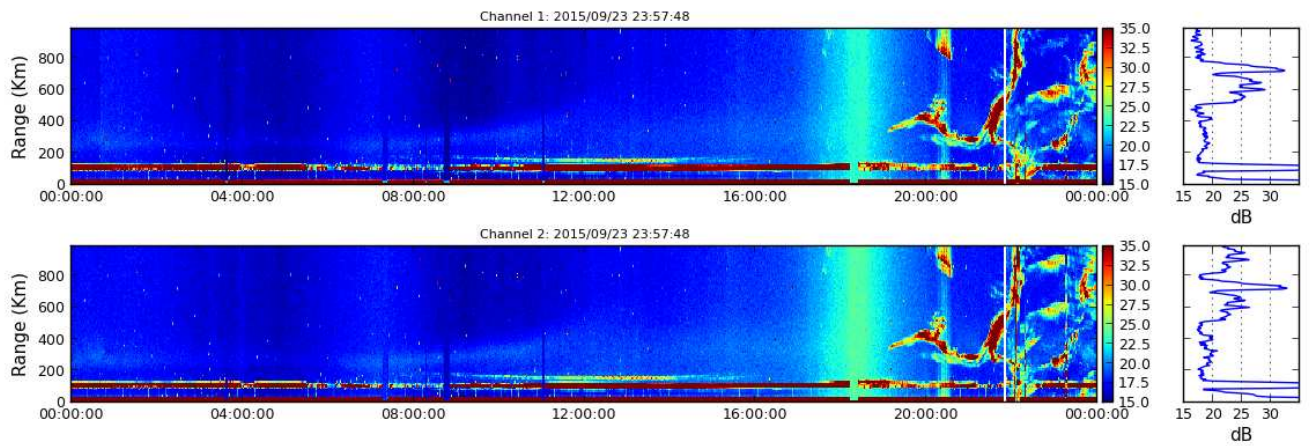


Figure 6. Rti FARADAY 2015-09-23.

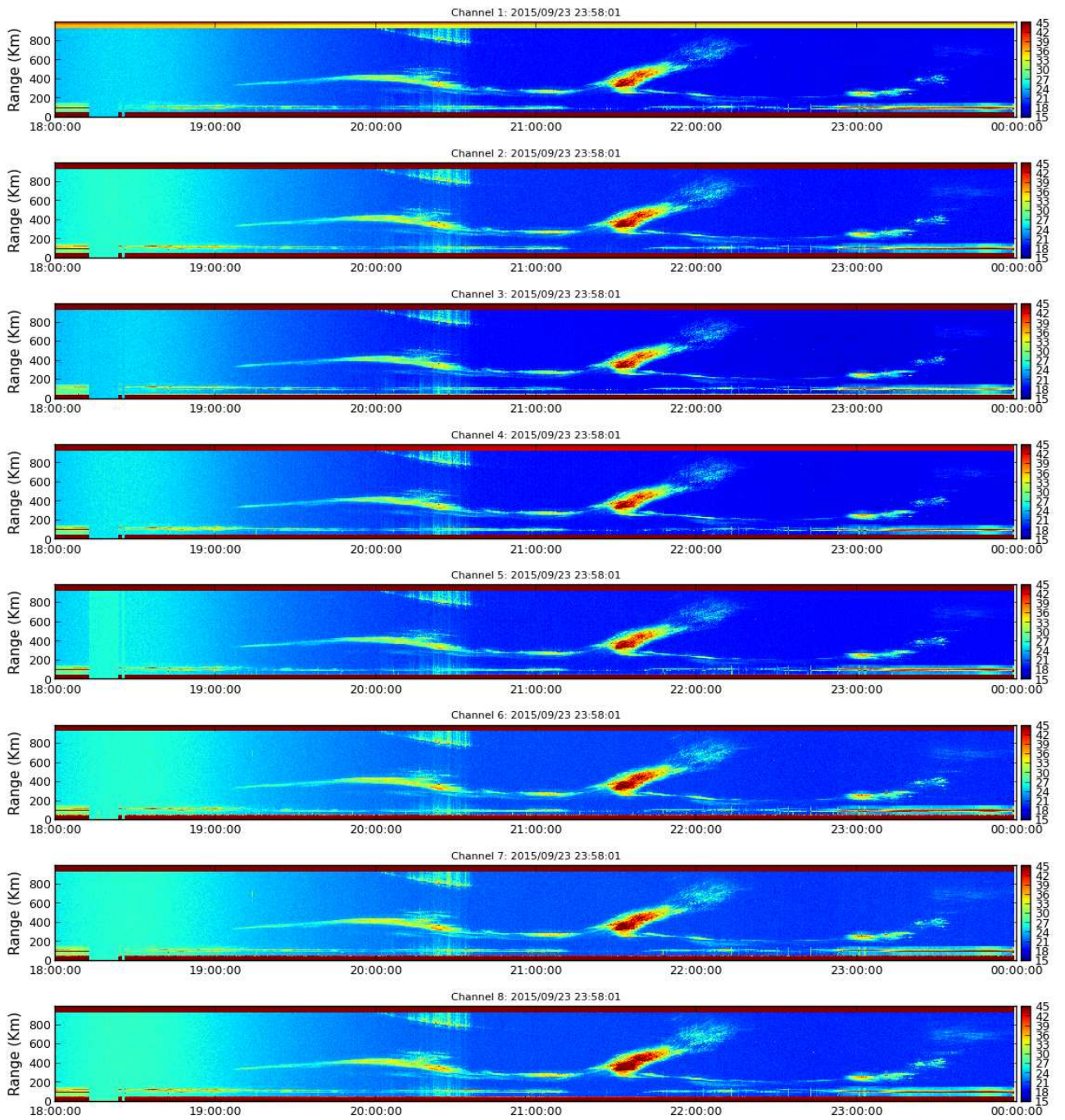


Figure 7. Rti IMAGING 2015-09-23 18:00-24:00.

Drifts obtained:

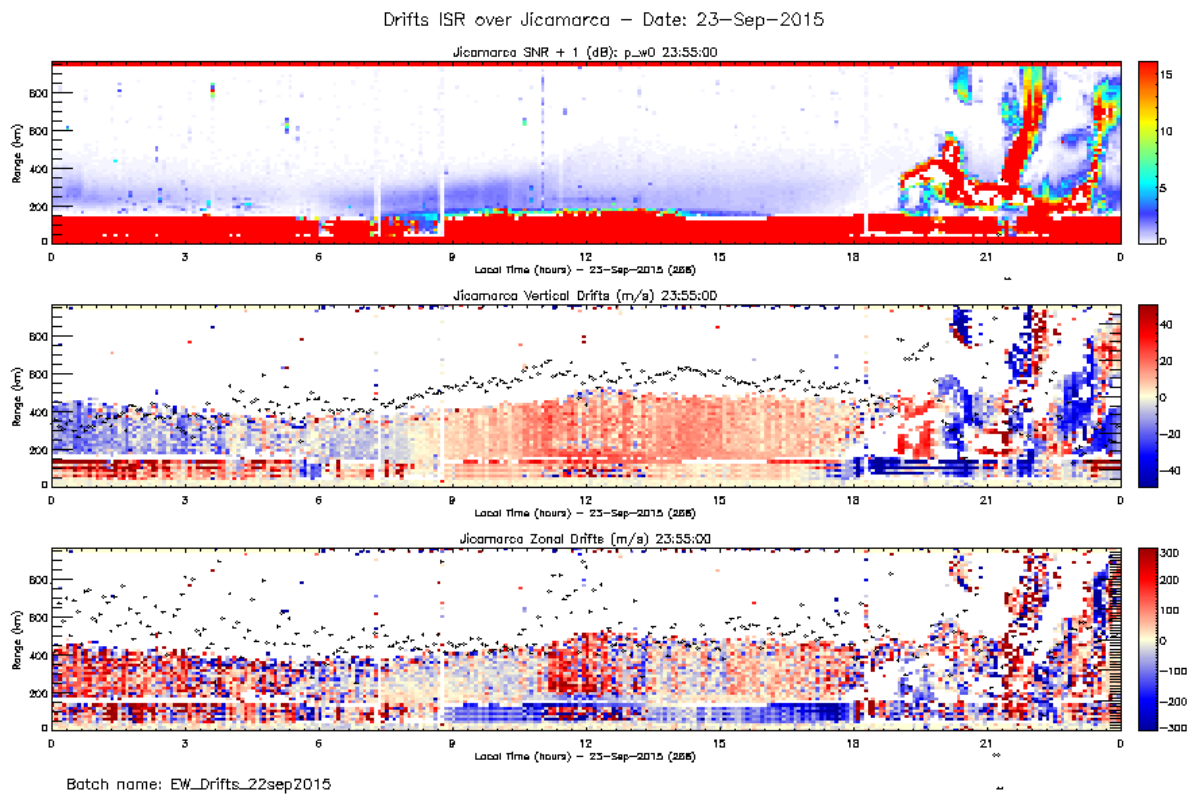


Figure 8. Drifts 2015-09-23.

September, 24:

_ Spread F from 19 to 22 hours.

_ % operation/24h: 99.72

Log:

_ 24 Sep 01:43 Off Imaging. (Not Spread-F)

_ 24 Sep 05:50 Restart EW Drifts and faraday batches.

_ 24 Sep 19:30 Weird behaviour at ew_drift A channel.

Staff in charge:

00-08: P. Córdor. 08-20: I. Manay. 20-24: A. Valdez.

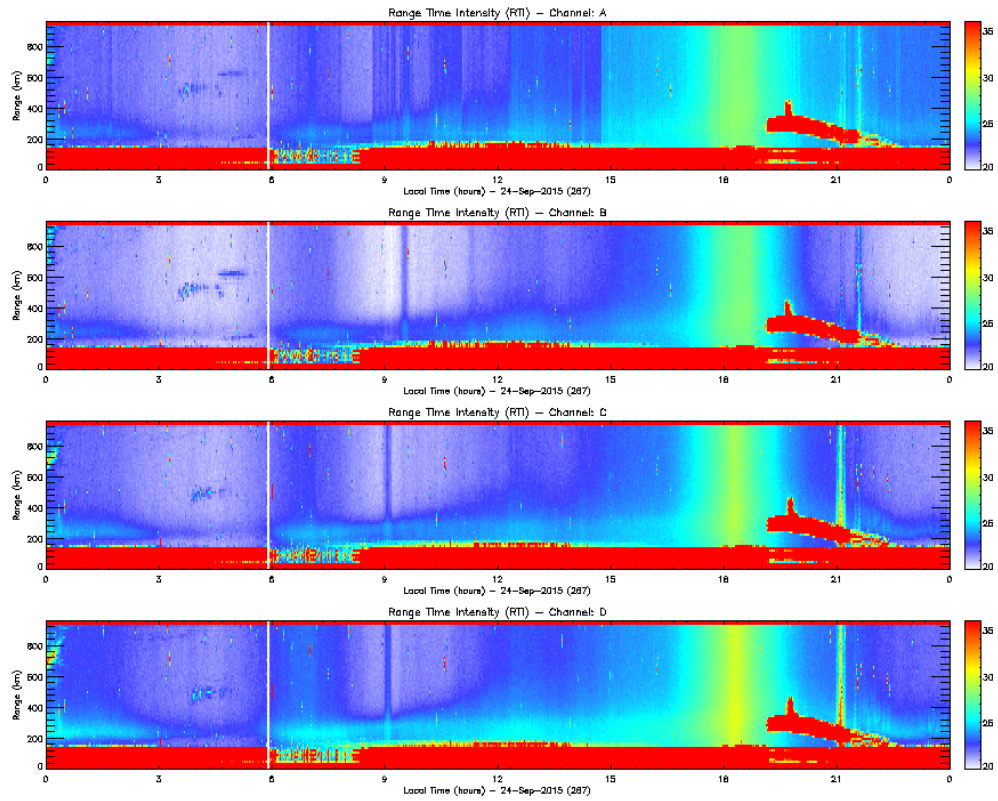


Figure 9. Rti EW_DRIFT 2015-09-24.

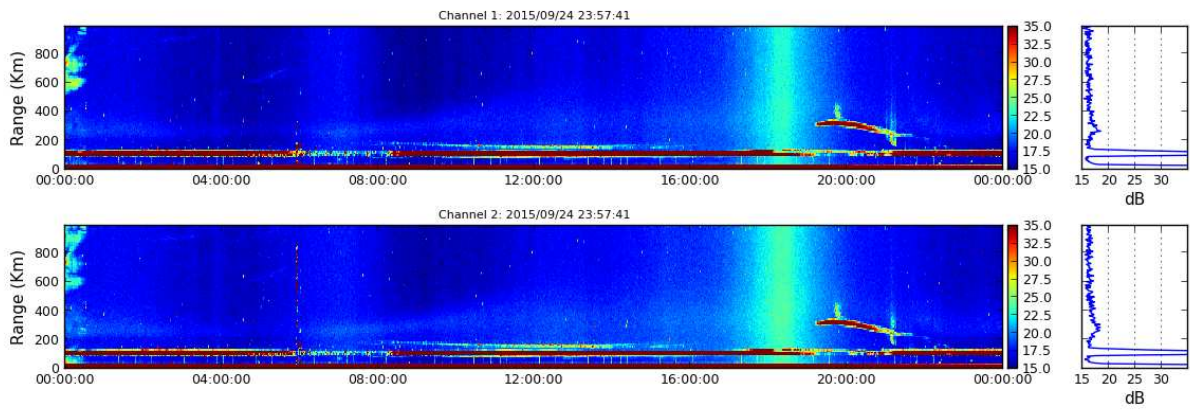


Figure 7. Rti FARADAY 2015-09-24.

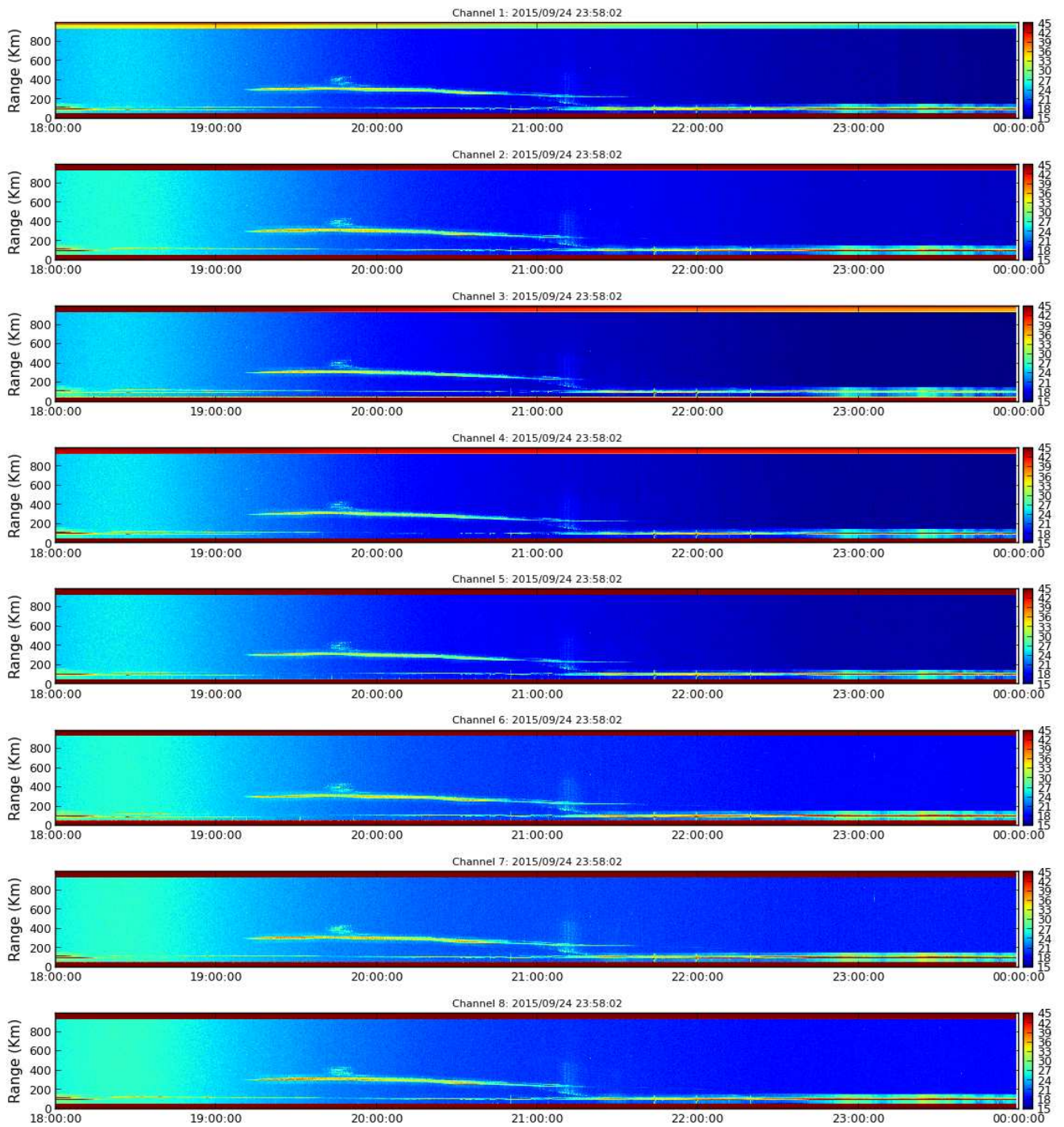


Figure 8. Rti IMAGING 2015-09-24 18:00-24:00.

Drifts obtained:

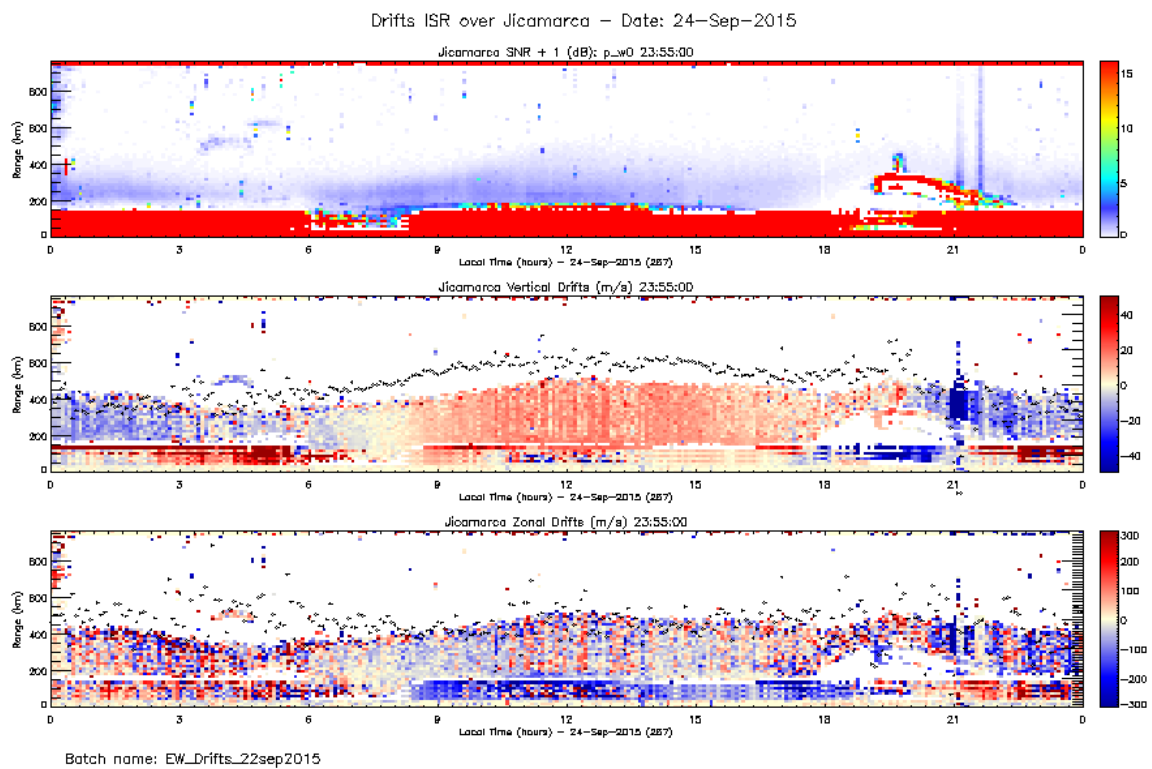


Figure 9. Drifts 2015-09-24.

September, 25:

_ EW_Drift B channel with low noise and signal level, the opposite happened with the A channel.

_ % operation/8h: 100

Log:

_ No error from transmitter or acquisition was reported.

Staff in charge:

00-08: A. Valdez.

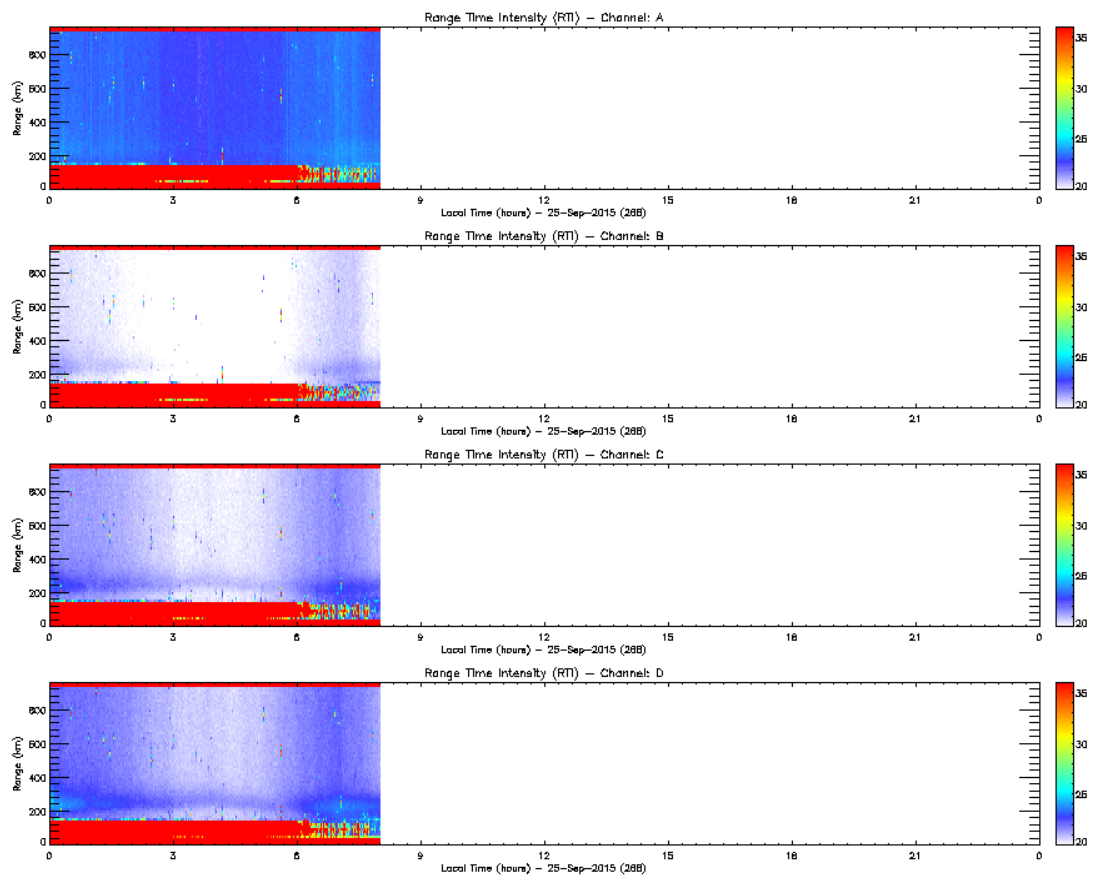


Figure 13. Rti EW_DRIFT 2015-09-25.

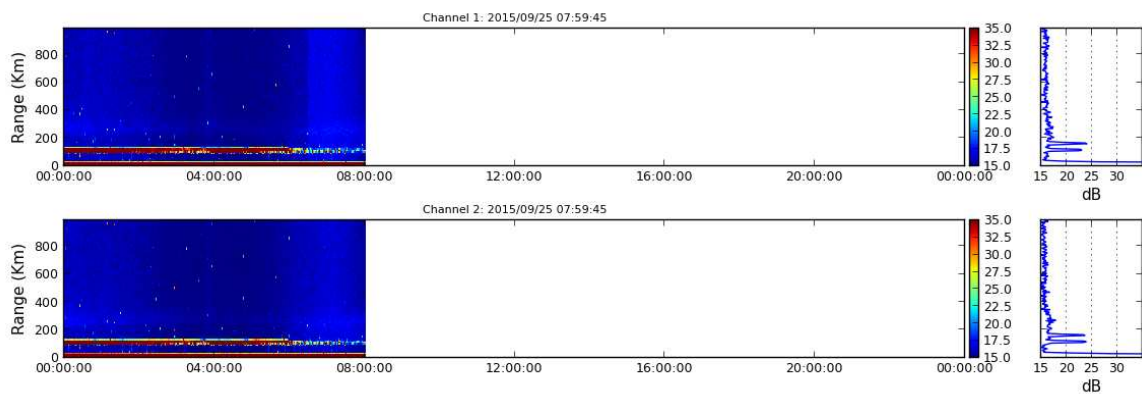


Figure 10. Rti FARADAY 2015-09-25.

Drifts obtained:

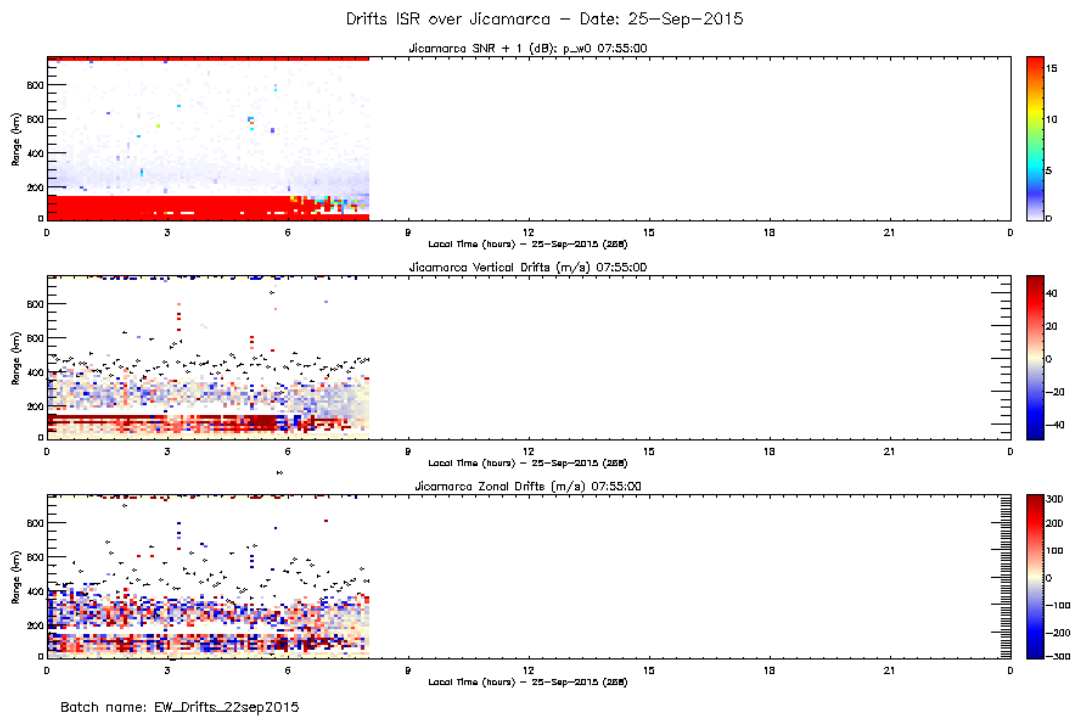


Figure 11. Drifts 2015-09-25.

Annex:

Sky noise for March 23, 2015:

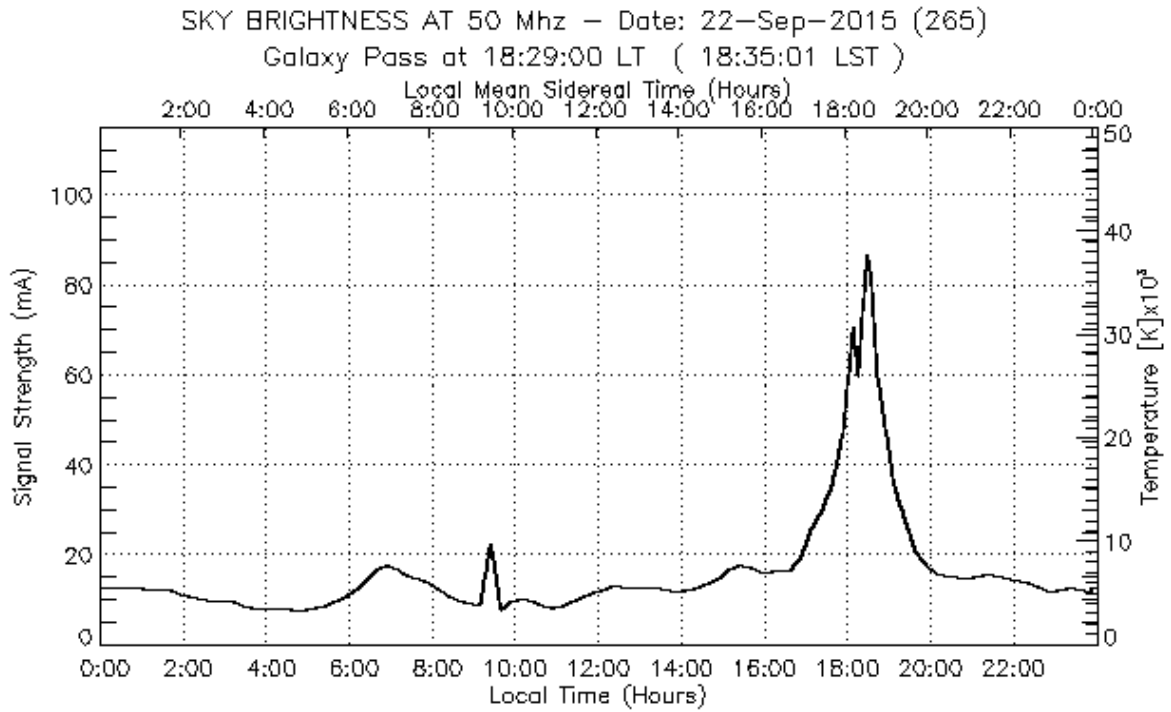


Figure 17. Sky noise.

Antenna pattern

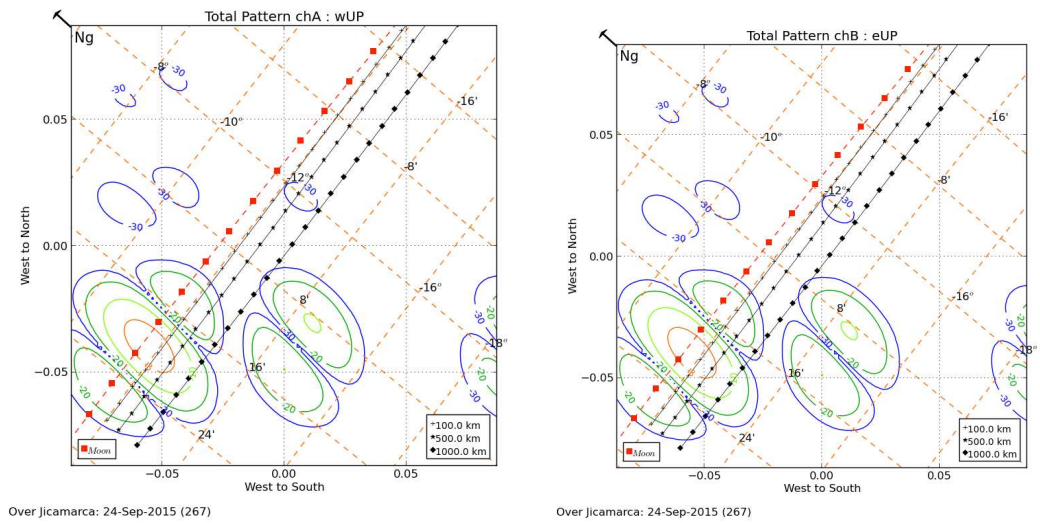
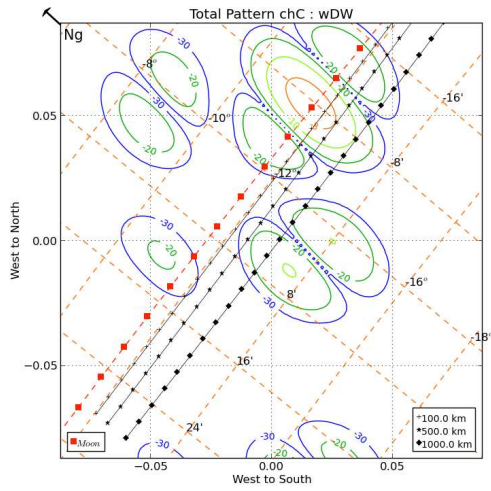
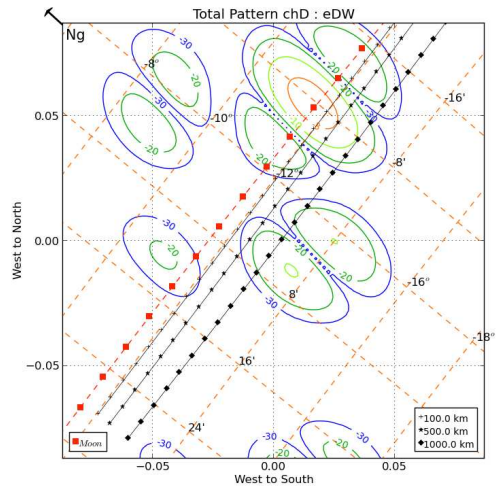


Figure 18. Antennas pattern EW_Drifts: Ch A and Ch B.

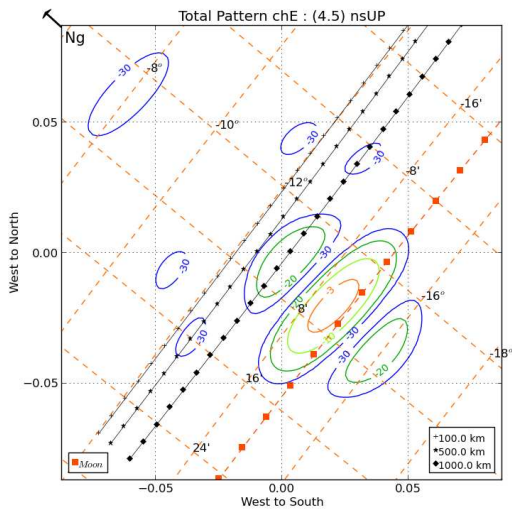


Over Jicamarca: 24-Sep-2015 (267)

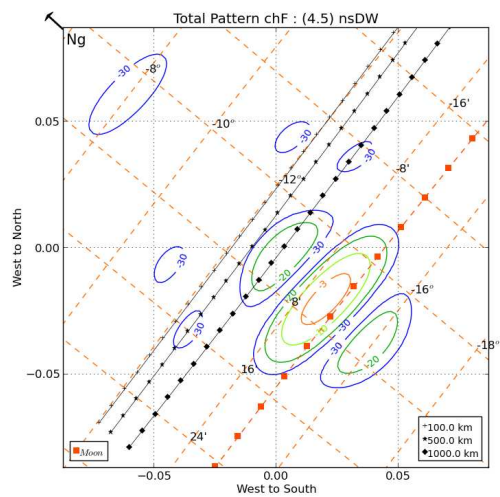


Over Jicamarca: 24-Sep-2015 (267)

Figure 19. EW_Drifts: Ch C and Ch D.



Over Jicamarca: 23-Sep-2015 (266)



Over Jicamarca: 23-Sep-2015 (266)

Figure 20. Faraday: Ch A and Ch B.