

EW_Drift-Faraday-Imaging November-December 2016 Campaign Report

This is an analysis of RTIs during EWDrift-Faraday-Imaging campaign from November 28 to December 03, 2016. We show the RTIs and results.

EW_DRIFT-FARADAY-IMAGING:

November, 28:

_ Start the campaign from 17:50 hours.

_ Spread F from 19 to 24 hours.

_ % Operation/6h: 100.00

Log:

_ 28 Nov 17:50 Start campaign.

_ 28 Nov 19:00 VIPIR system was stopped.

Staff in charge

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

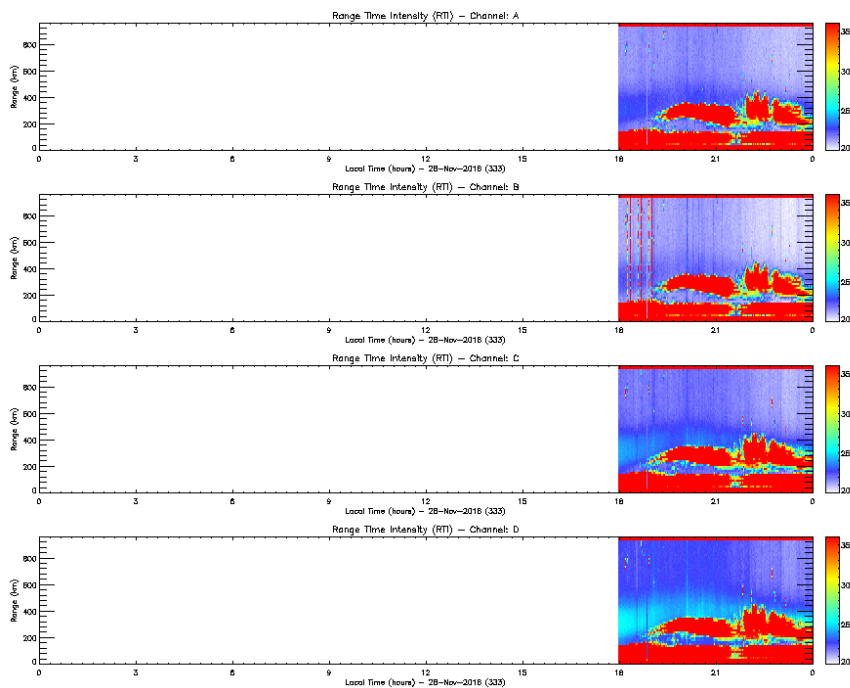


Figure 1.Rti EW_DRIFT 2016-11-28.

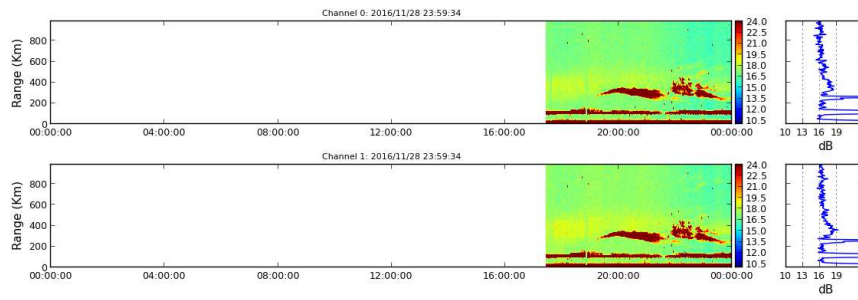


Figure 2. Rti FARADAY 2016-11-28.

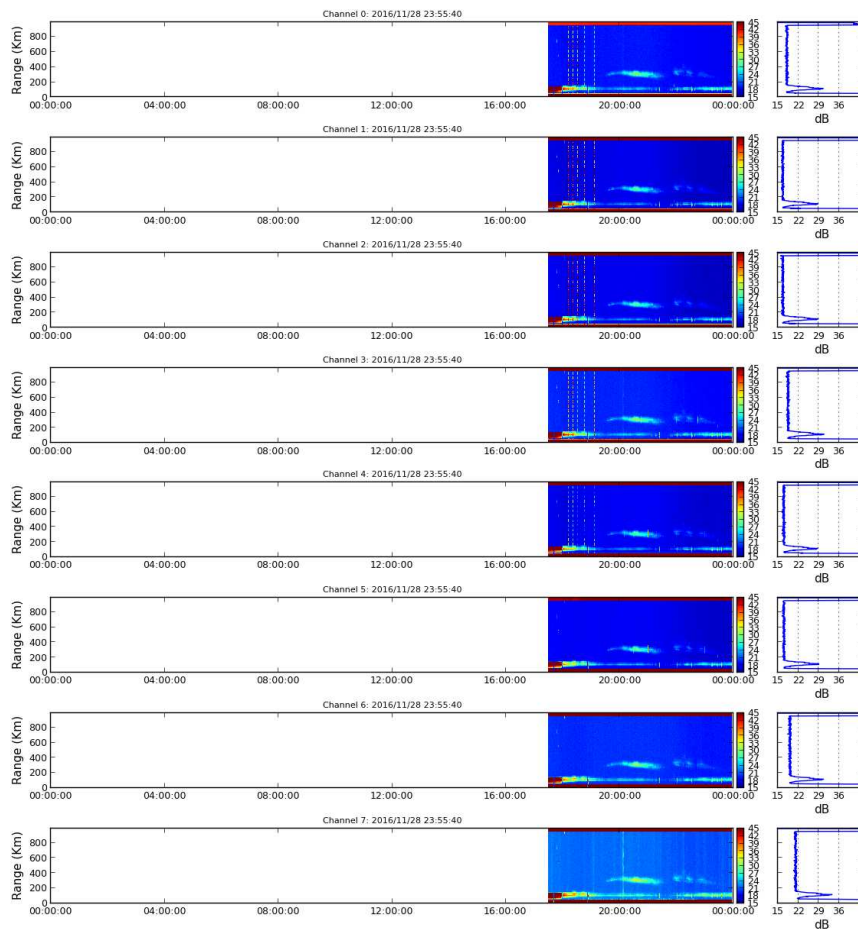


Figure 3. RTI IMAGING 2016-11-28.

Drifts obtained:

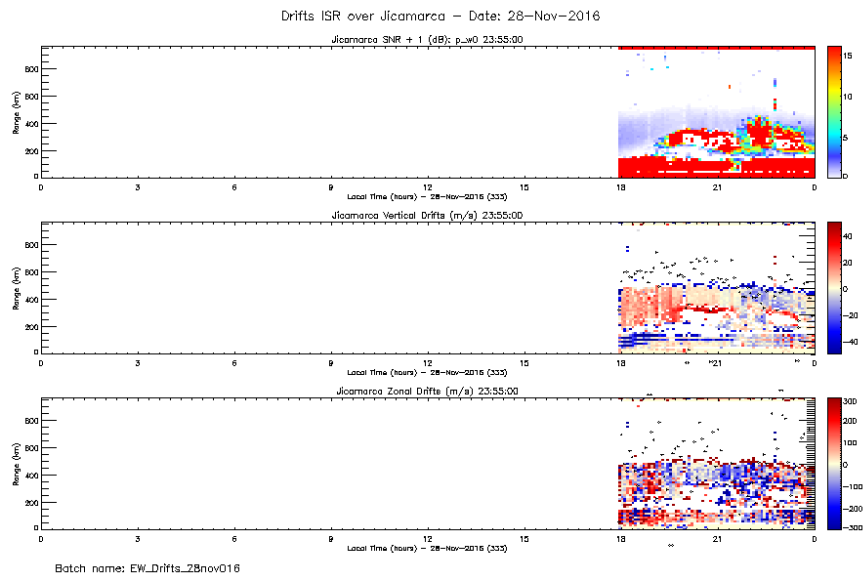


Figure 4. Drifts 2016-11-28.

November, 29:

- _ At 03, 10, 11, 12 and 14 hours problem with transmitter or off for check the system.
- _ At 15 hours the code of EW Drifts was changed. Then EW_drifts does not have interference.
- _ Spread F from 19 to 24 hours and 0 to 5 hours.
- _ % operation/24h: 88.2.

Log:

- _ 29 Nov 03:40 Fall Transmitter.
- _ 29 Nov 08:12 Channel B of EW Drift now have more 1 db of gain.
- _ 29 Nov 10:03 VIPIR is turned off.
- _ 29 Nov 10:45 Transmitter on.
- _ 29 Nov 12:20 Digisonde off.
- _ 29 Nov 12:45 Transmitter on.
- _ 29 Nov 15:33 The pulse of EW Drift is 128 random Barker 3.
- _ 29 Nov 16:05 VIPIR on.
- _ 29 Nov 21:09 Pc Ares is restarted.

Staff in charge

00-08: A. Belleza. 08-20: R. Yanque. 20-24: A. Valdez.

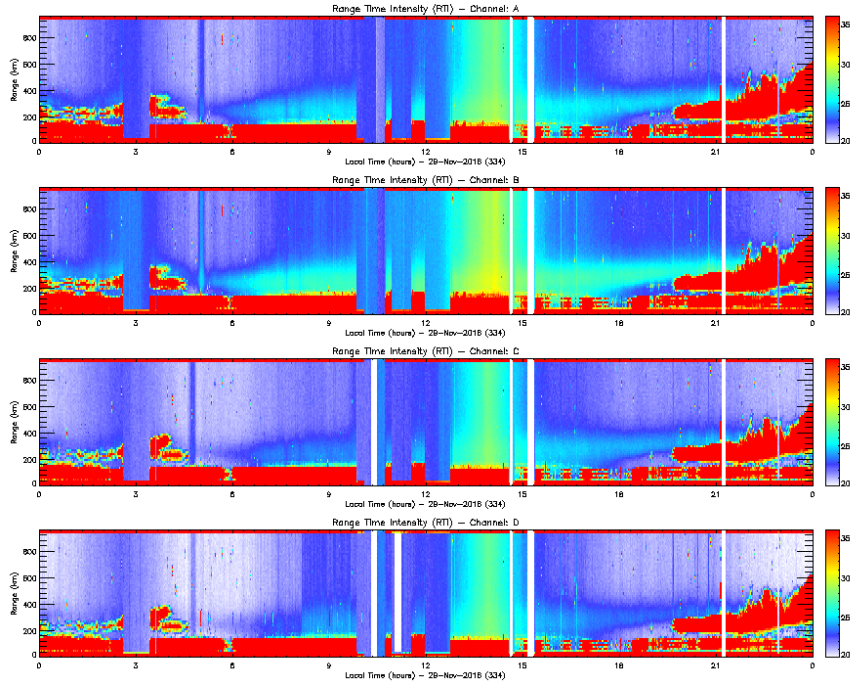


Figure 5. Rti EW_DRIFT 2016-11-29.

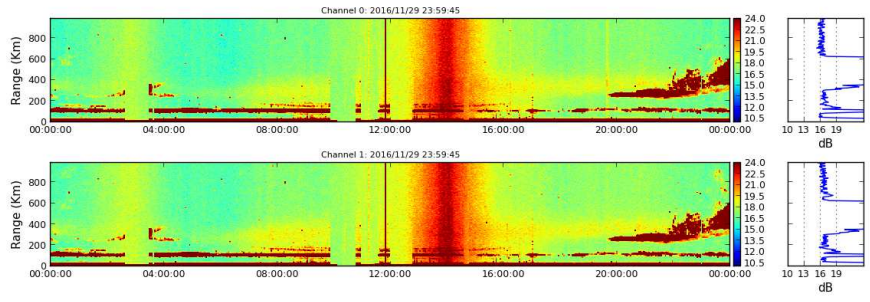


Figure 6. Rti FARADAY 2016-11-29.

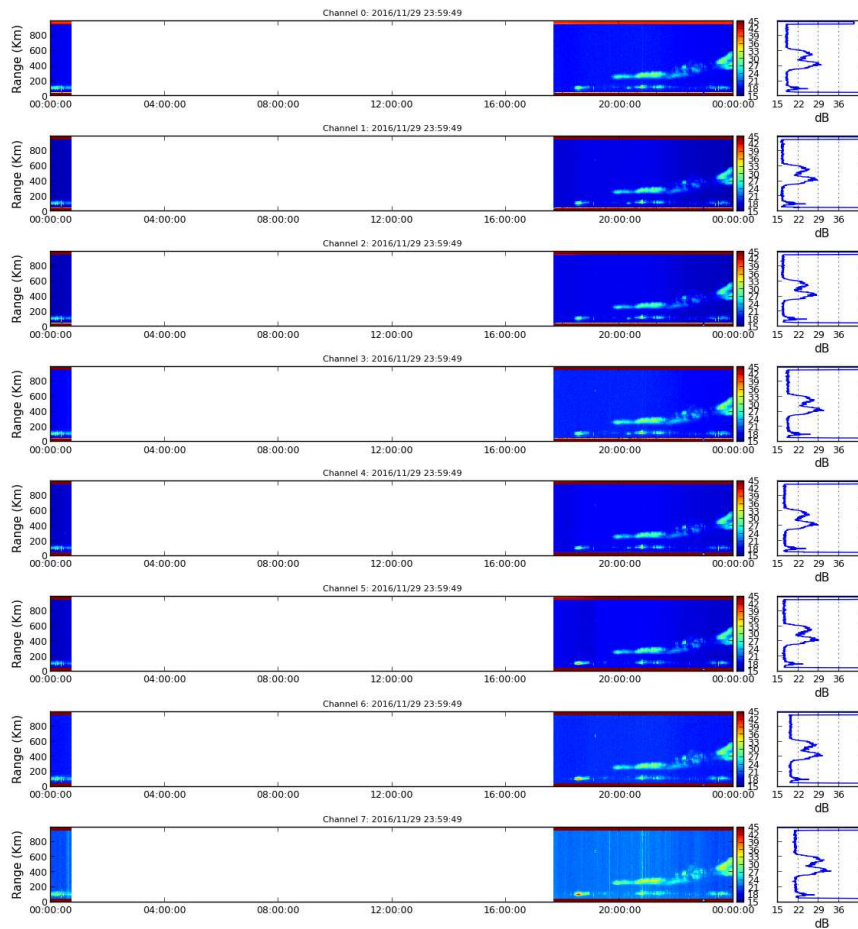


Figure 7. Rti IMAGING 2016-11-29.

Drifts obtained:

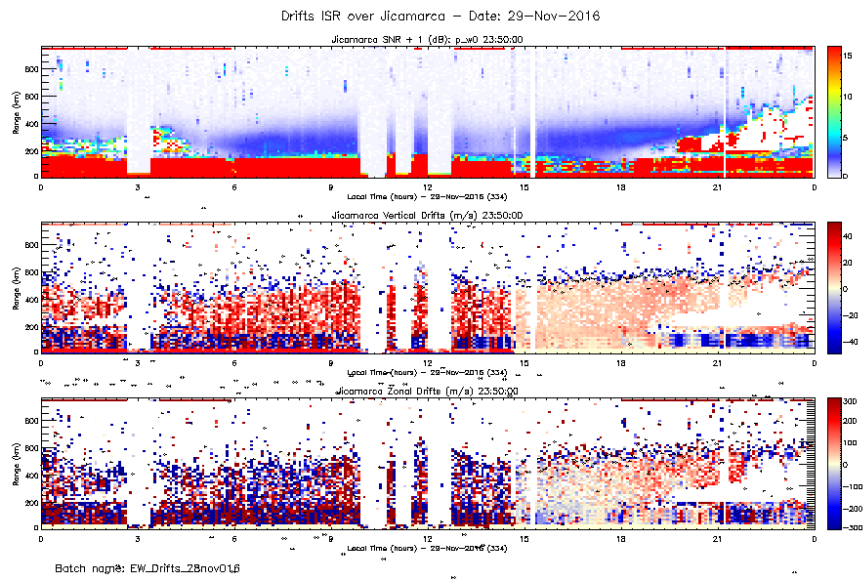


Figure 8. Drifts 2016-11-29.

November, 30:

- _ Problem with Pc Ares and disk of Imaging had fulfilled.
- _ Problem with the transmitter at 1 and 20 hours of only one minute.
- _ Spread F from 0 to 4 and 19 to 24 hours.
- _ % operation/24h: 99.2

Log:

- _ 30 Nov 09:43 Pc Ares is restarted.
- _ 30 Nov 11:35 Now is running new programs of Faraday.
- _ 30 Nov 18:02 Starting Imaging.
- _ 30 Nov 19:10 The disk of Imaging is full. Imaging is off and moved any files to do space. After is on.

Staff in charge:

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

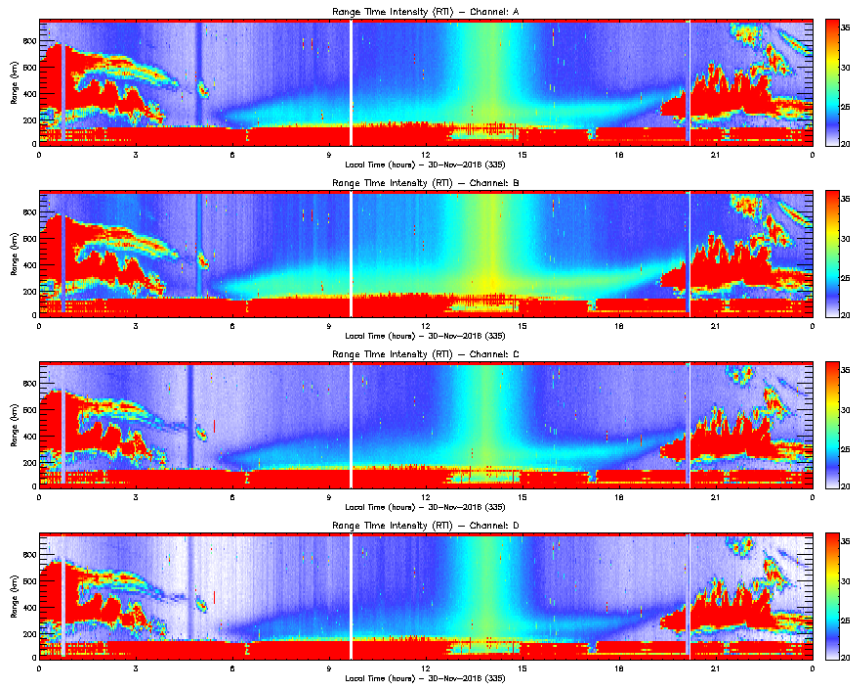


Figure 9. Rti EW_DRIFT 2016-11-30.

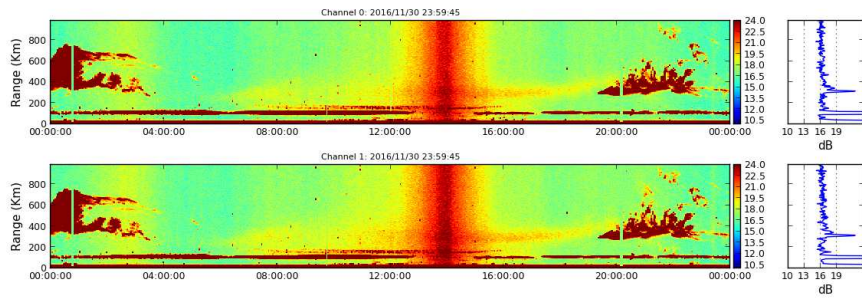


Figure 10. Rti FARADAY 2016-11-30.

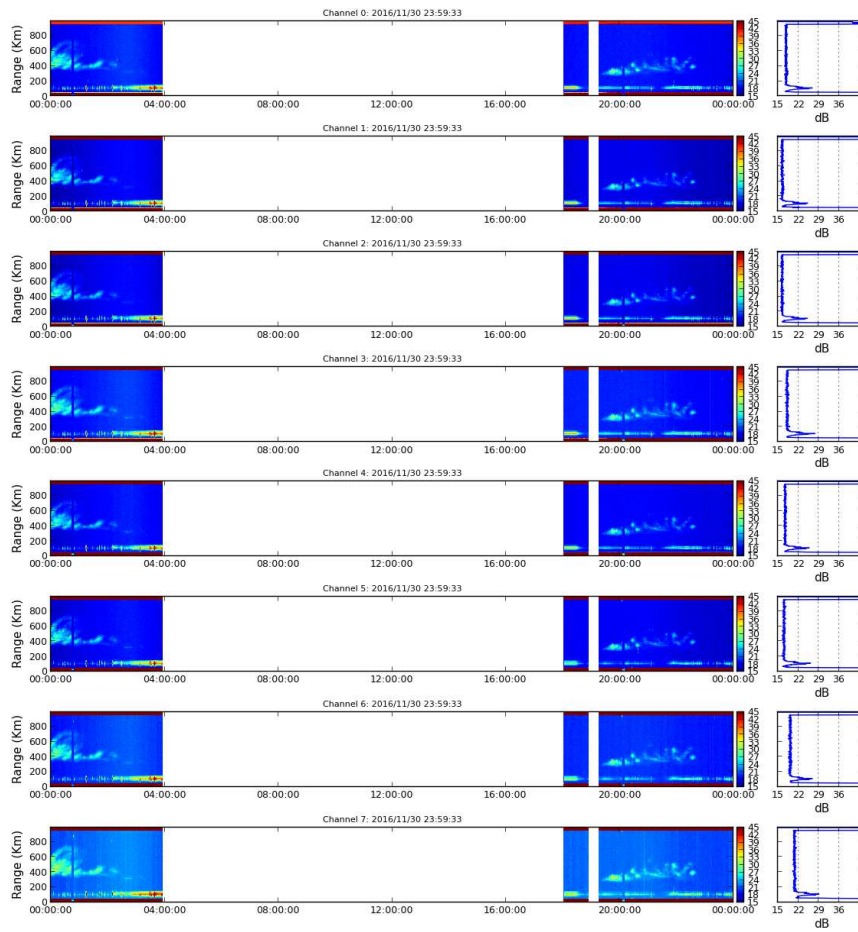


Figure 11. Rti IMAGING 2016-11-30.

Drifts obtained:

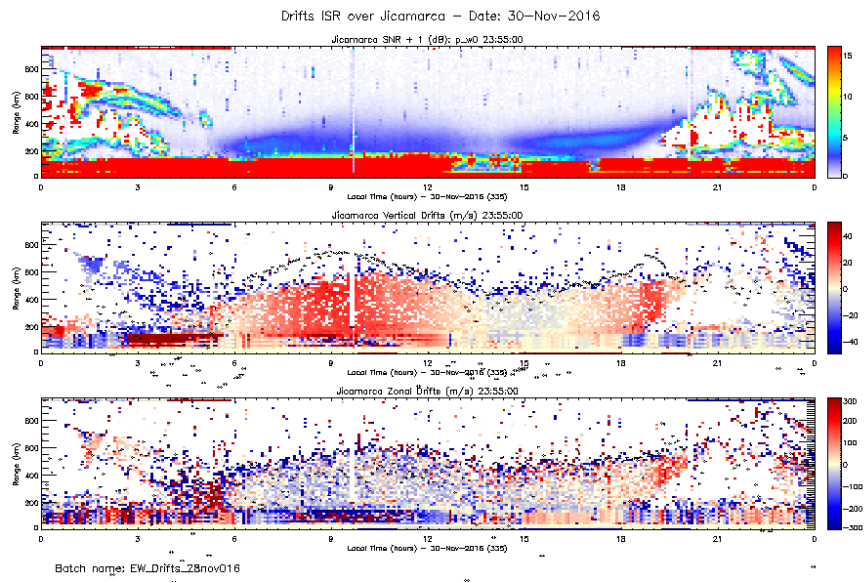


Figure 12. Drifts 2016-11-30.

December, 01:

_ Problem with Pc Ares at 06 and 16 hours.

_ Spread F from 0 to 5 and 19 to 24 hours.

Log:

_ 01 Dec 05:15 Off Imaging. Before at 00:48 was off but after on at 01:53.

_ 01 Dec 06:00 Restart Pc Ares.

_ 01 Dec 16:50 Restart Pc Ares because it was stopped from 16:16.

_ 01 Dec 17:48 Starting Imaging.

_ % operation/24h: 96.9

Staff in charge:

00-08: I. Manay. 08-20: K. Kuyeng. 20-24: P. C3ndor.

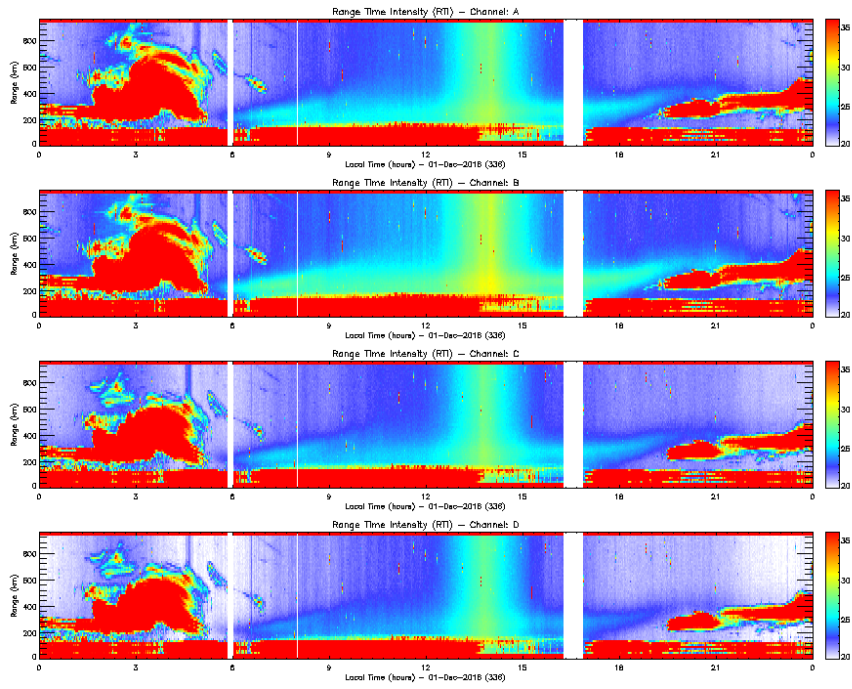


Figure 13. Rti EW_DRIFT 2016-12-01.

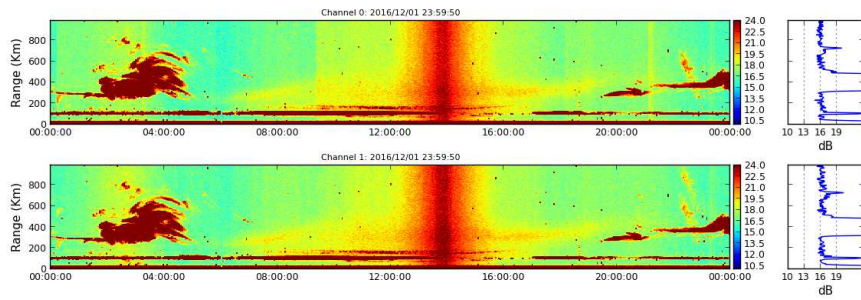


Figure 14. Rti FARADAY 2016-12-01.

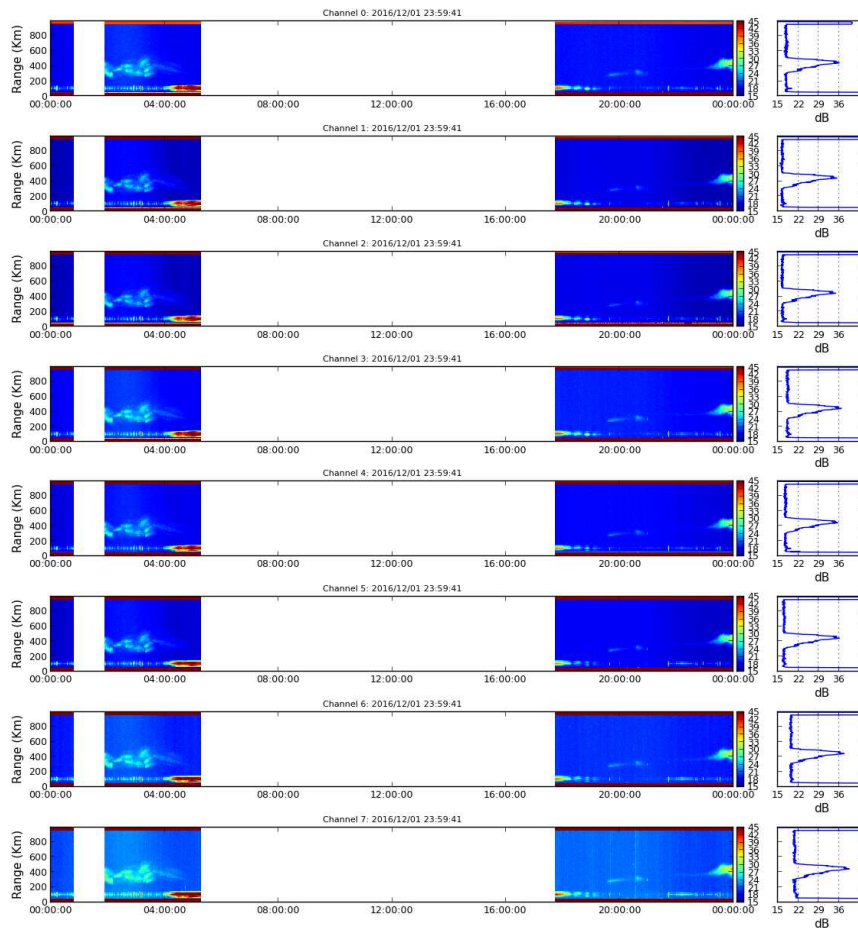


Figure 15. Rti IMAGING 2016-12-01.

Drifts obtained:

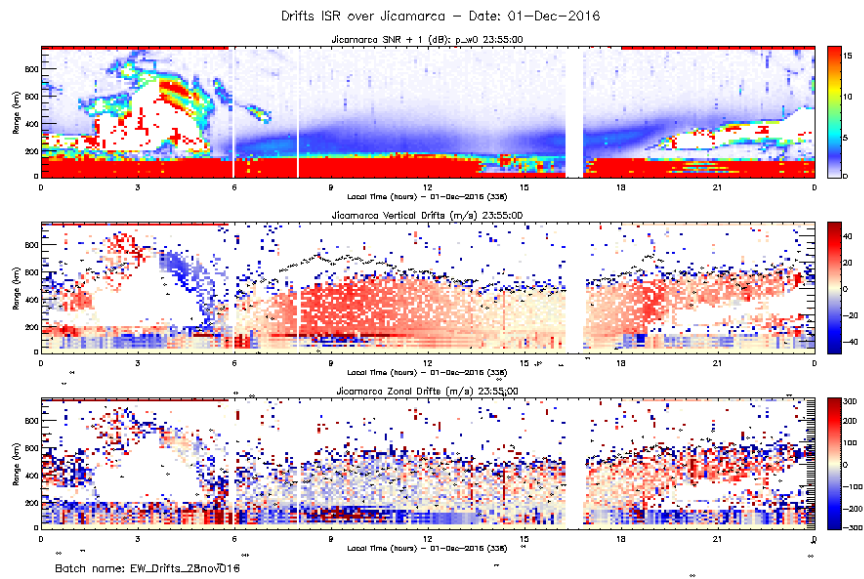


Figure 16. Drifts 2016-12-01.

December, 02:

_ There was Spread F from 0 to 5 and 19 to 24 hours.

_ % operation/24h: 100

Log:

_ 02 Dec 06:17 Imaging is Off.

_ 02 Dec 06:22 Faraday was restarted because it was desynchronized, also at 11 and 14 hours.

_ 02 Dec 11:11 and 16:00 Restart Faraday.

_ 02 Dec 17:25 Imaging is on.

Staff in charge:

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

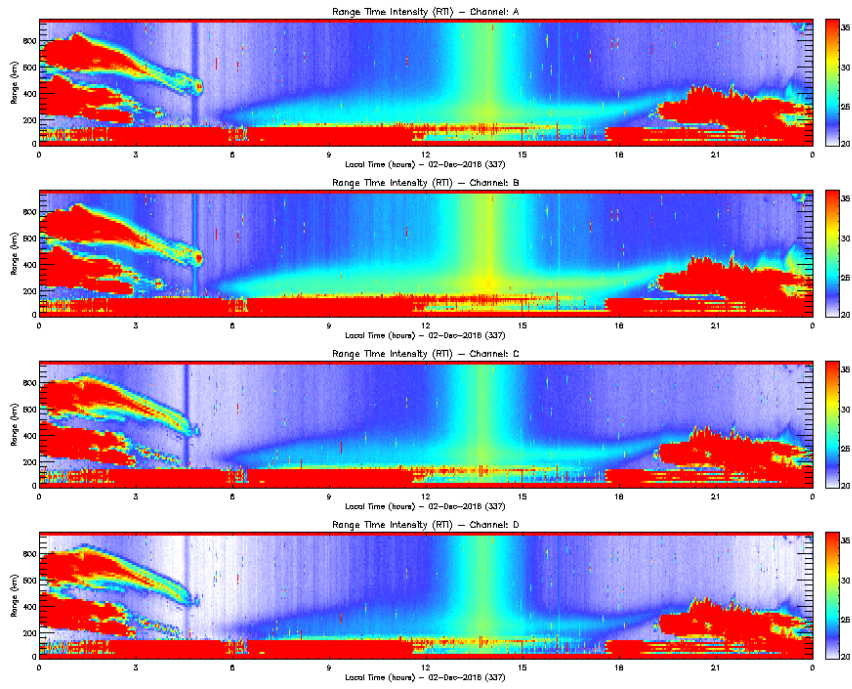


Figure 17. Rti EW_DRIFTS 2016-12-02.

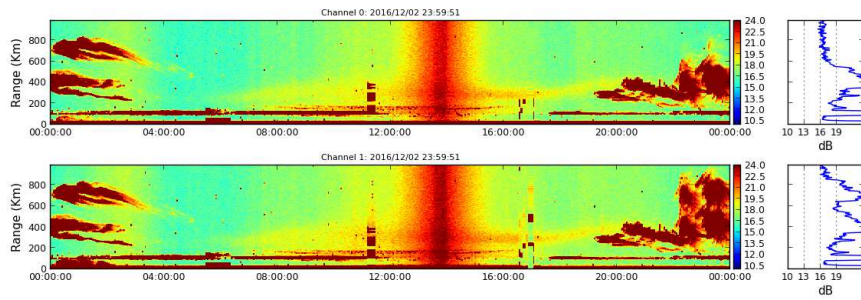


Figure 18. Rti FARADAY 2016-12-02.

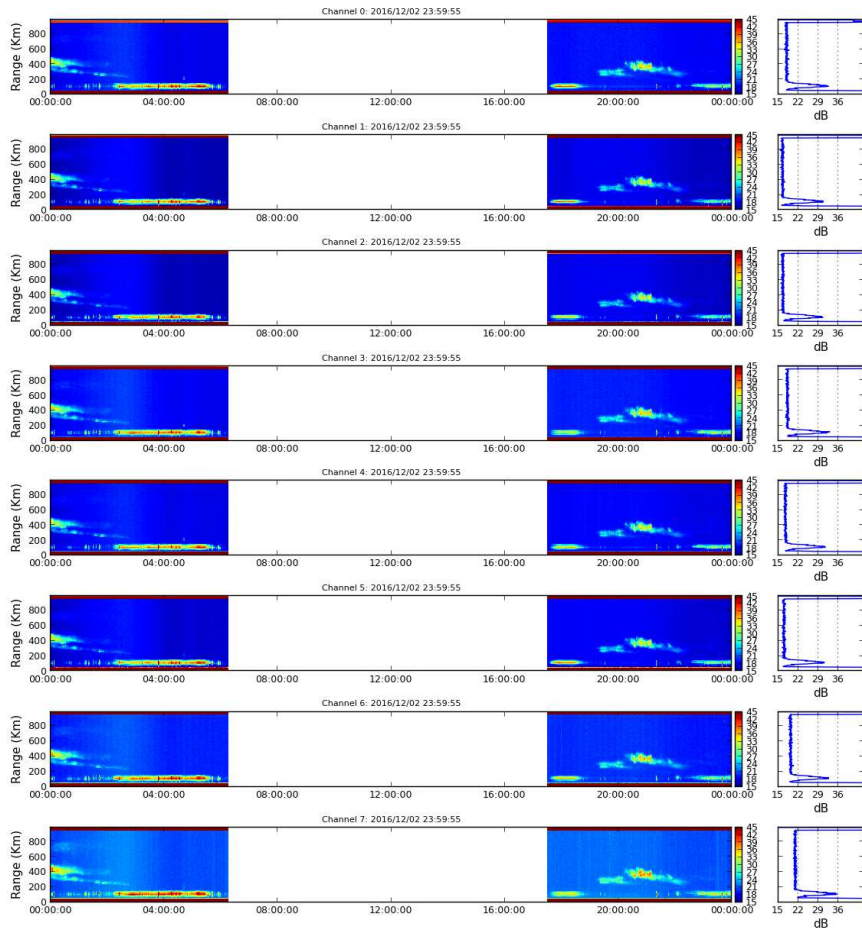


Figure 19. Rti IMAGING 2016-12-02.

Drifts Obtained:

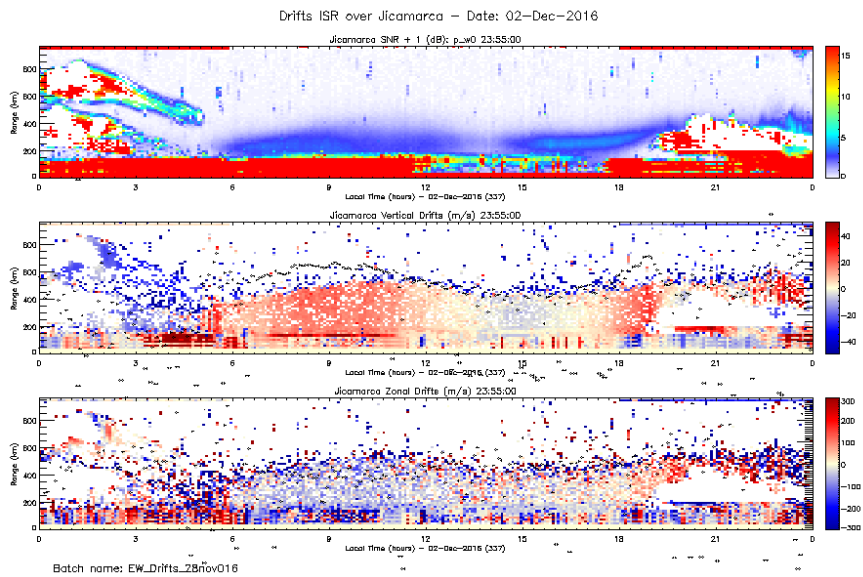


Figure 20. Drifts 2016-12-02.

December, 03:

- _ End campaign at 08 hours.
- _ There was very little Spread F.
- _ % operation/8h: 100

Log:

- _ 03 Dec 06:12 Imaging is Off.
- _ 03 Dec 08:00 End campaign.

Staff in charge:

00-08: A. Belleza.

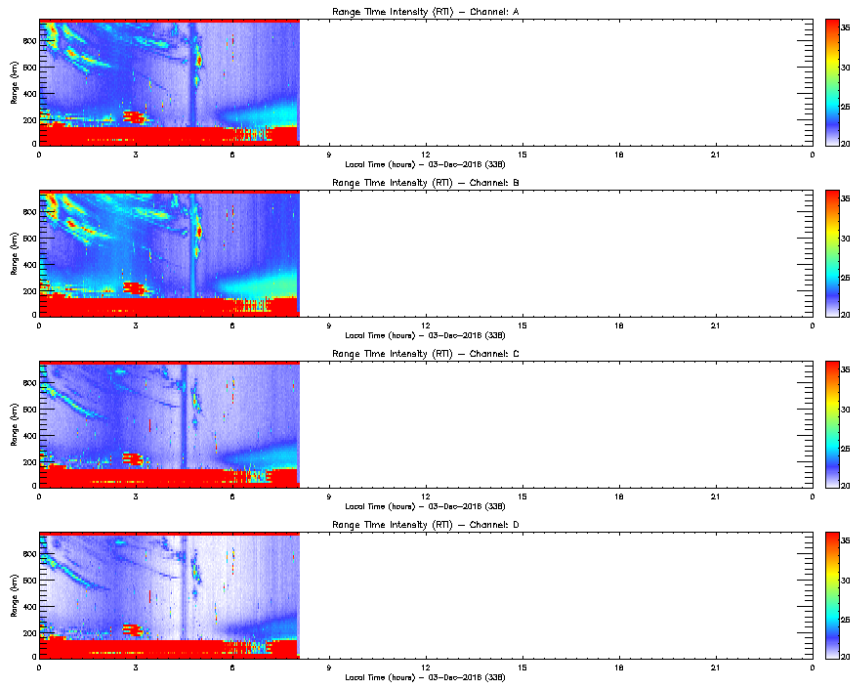


Figure 21. Rti EW_DRIFTS 2016-12-03.

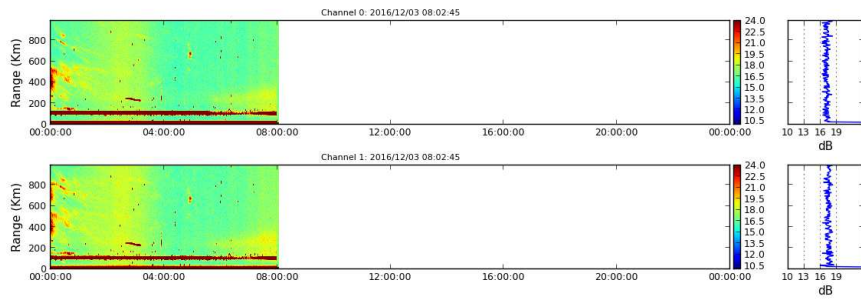


Figure 22. Rti FARADAY 2016-12-03.

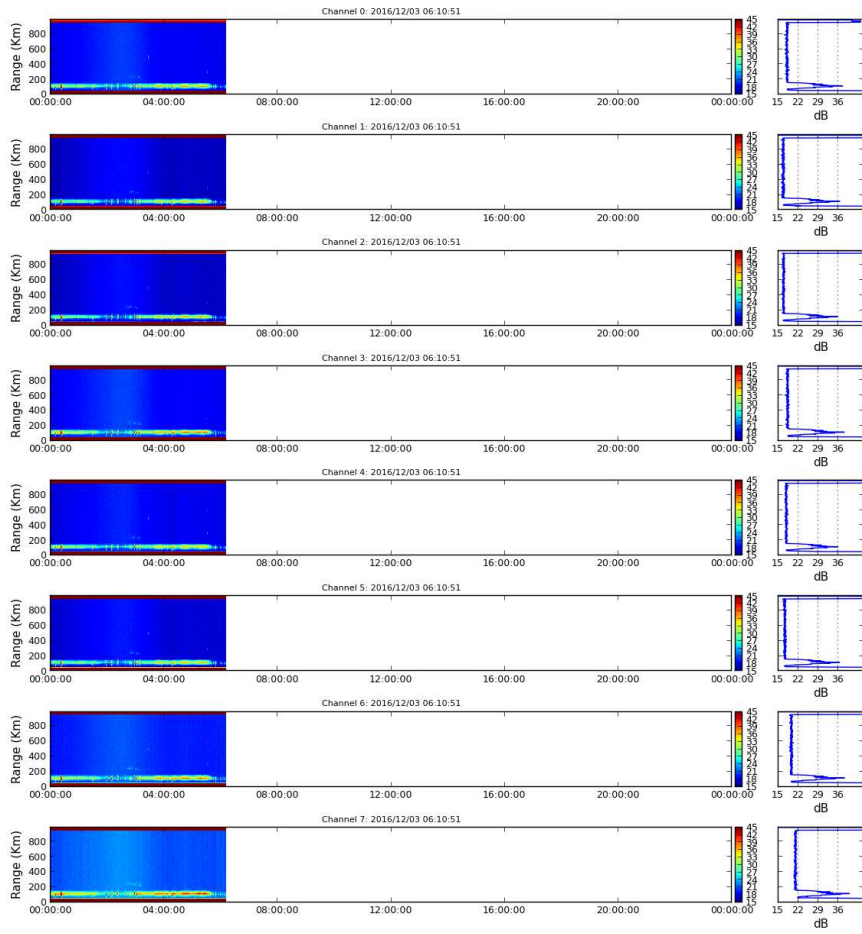


Figure 23. Rti IMAGING 2016-12-03.

Drifts Obtained:

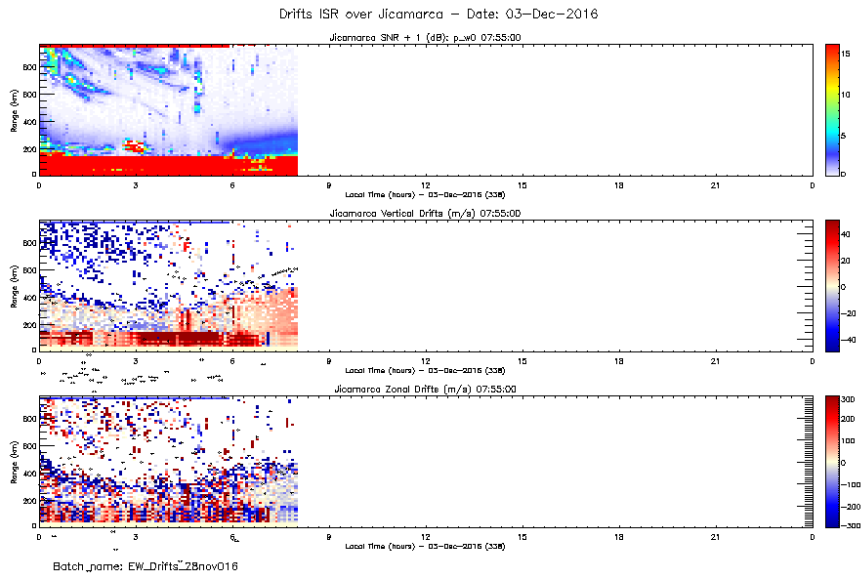


Figure 24. Drifts 2016-12-03.

Annex:

Sky noise for November 28, 2016:

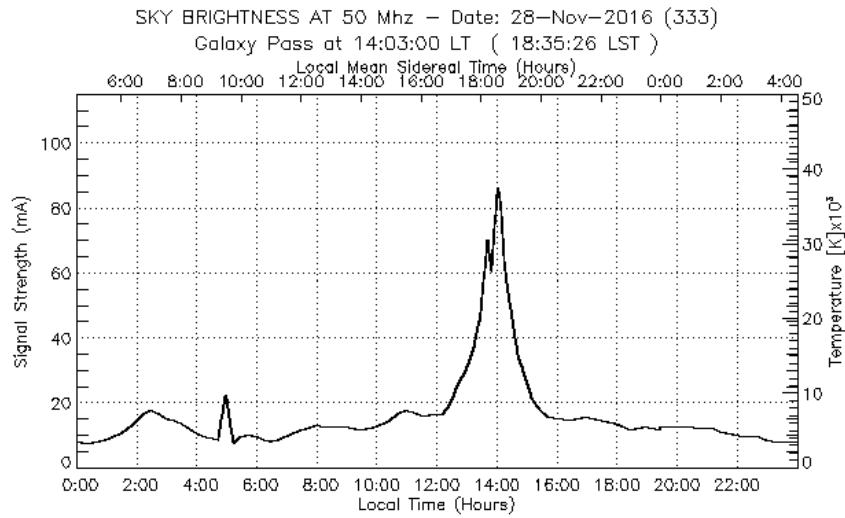
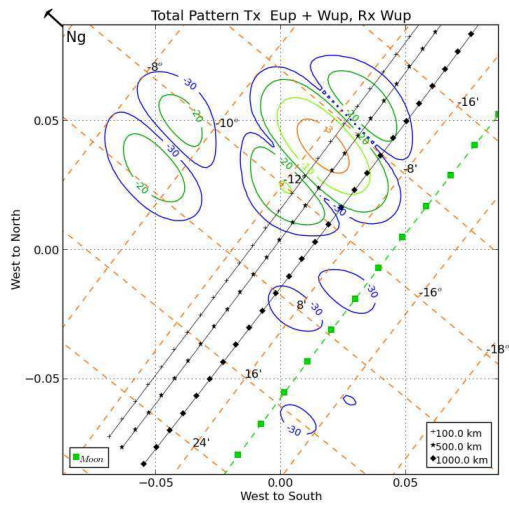
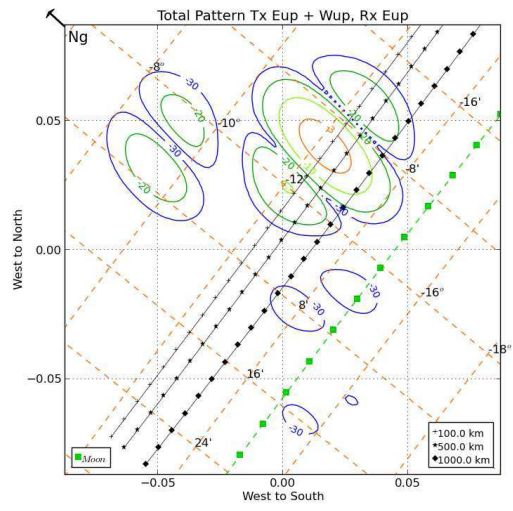


Figure 25. Sky noise.

Antenna pattern

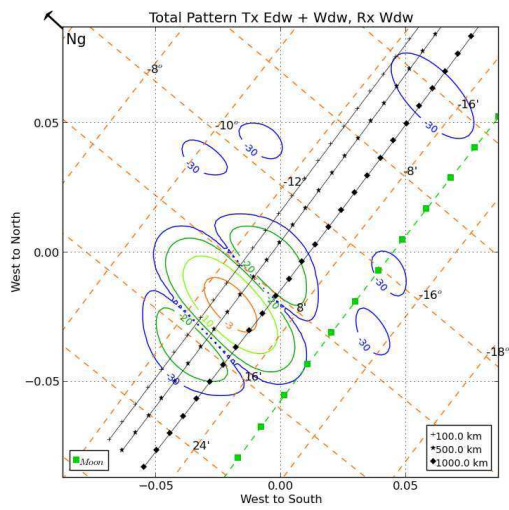


Over Jicamarca: 28-Nov-2016 (333)

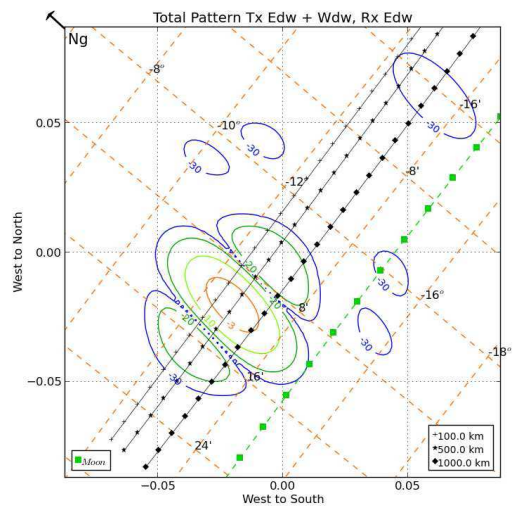


Over Jicamarca: 28-Nov-2016 (333)

Figure 26. Antennas pattern EW_Drifts: Ch A and Ch B.

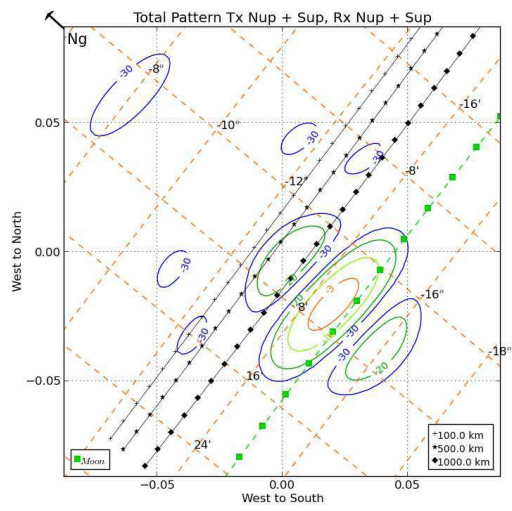


Over Jicamarca: 28-Nov-2016 (333)

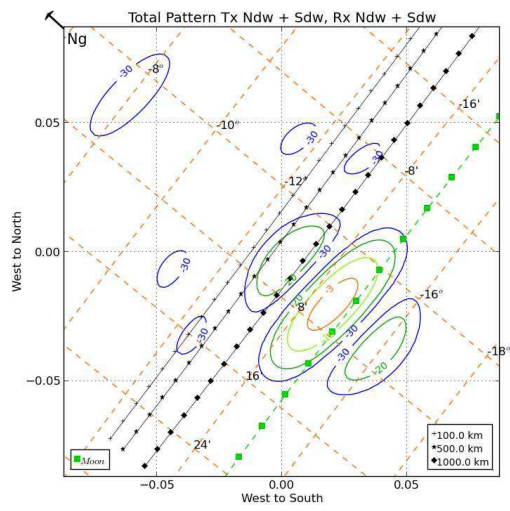


Over Jicamarca: 28-Nov-2016 (333)

Figure 27. EW_Drifts: Ch C and Ch D.



Over Jicamarca: 28-Nov-2016 (333)



Over Jicamarca: 28-Nov-2016 (333)

Figure 28. Faraday: Ch A and Ch B.