

EW_Drifts-Faraday-Imaging September 2018 Campaign Report

This is an analysis of RTIs during EW_Drifts-Faraday-Imaging campaign from September 21 to 26, 2018. We show the RTIs and results.

EW_DRIFT-FARADAY-IMAGING:

September, 21:

_ Bad data from 08 to 20 hours.

_ % Operation/12h: 77.7

Log:

_ 21 Sep 08:39 Start campaign.

Staff in charge

08-20: A. Valdez.

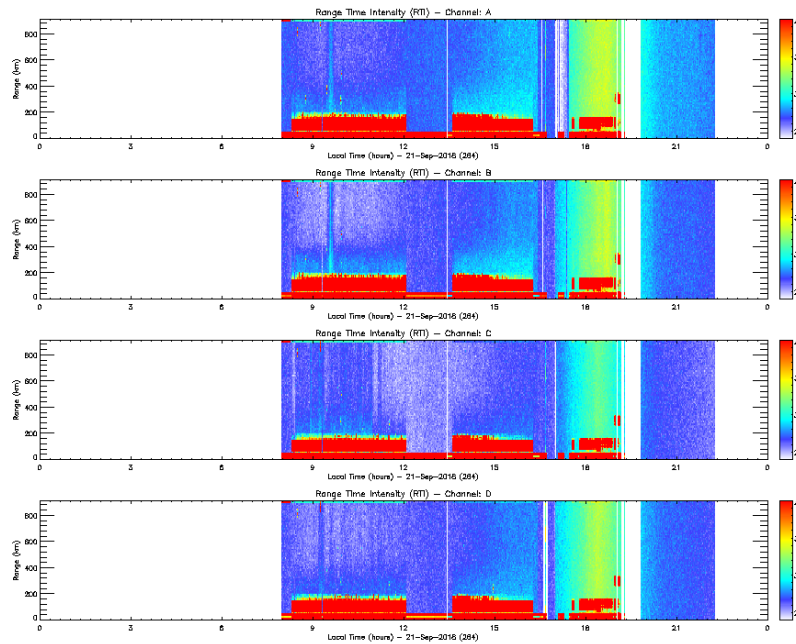


Figure 1.Rti EW_DRIFT 2018-09-21.

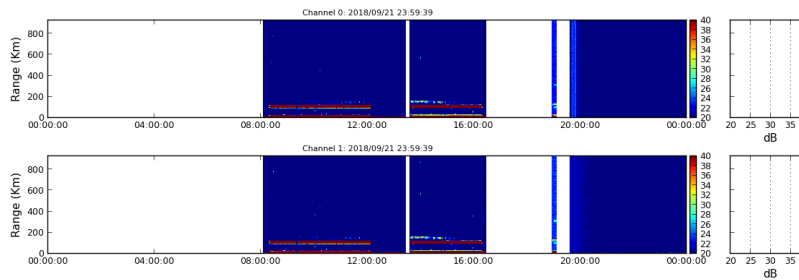


Figure 2. Rti FARADAY 2018-09-21.

Drifts obtained:

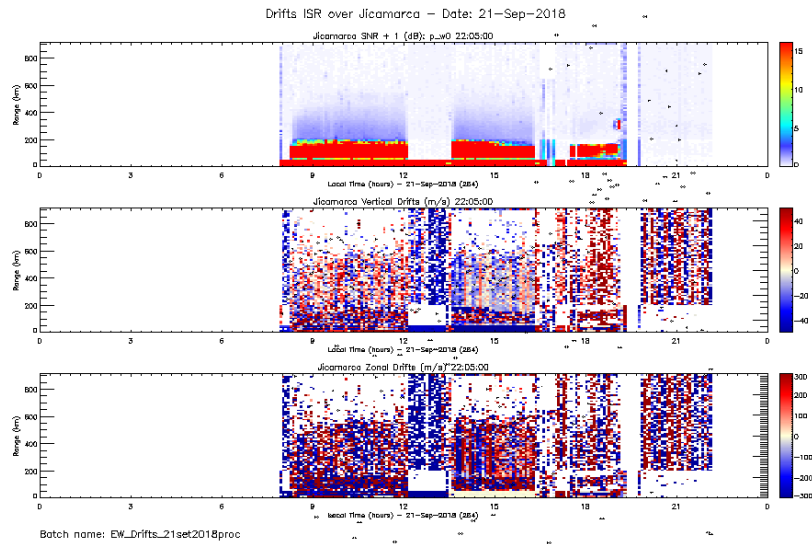


Figure 3. Drifts 2018-09-21.

Faraday Noise:

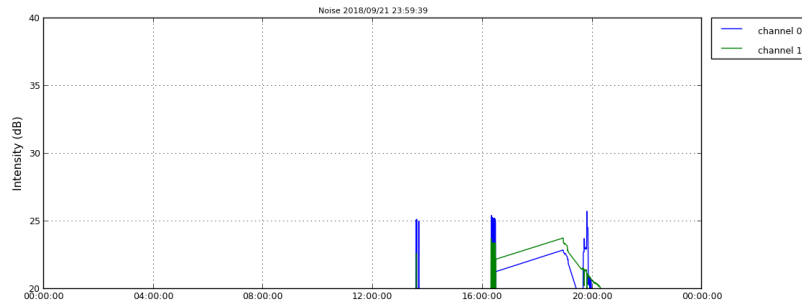


Figure 4. Faraday Noise 2018-09-21.

September, 22:

_ Spread F from 19 to 24 hours.

_ % operation/16h: 100.0

Log:

_ 22 Sep 06:58 Change of configuration of EW Drifts.

_ 22 Sep 07:34 Restart experiment.

_ 22 Sep 08:49 VIPIR is off.

_ 22 Sep 17:47 Imaging is on.

Staff in charge

07-20: P. C3ndor. 20-24: J. Rojas.

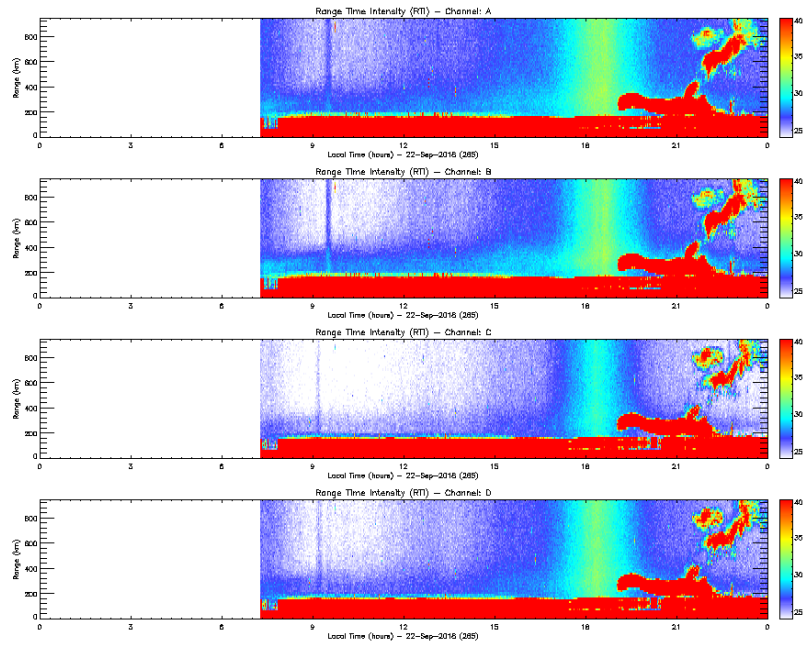


Figure 5. Rti EW_DRIFT 2018-09-22.

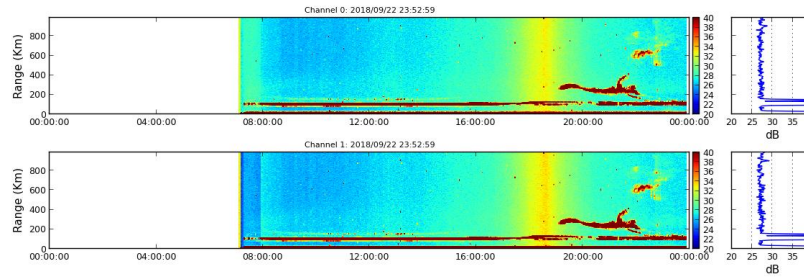


Figure 6. Rti FARADAY 2018-09-22.

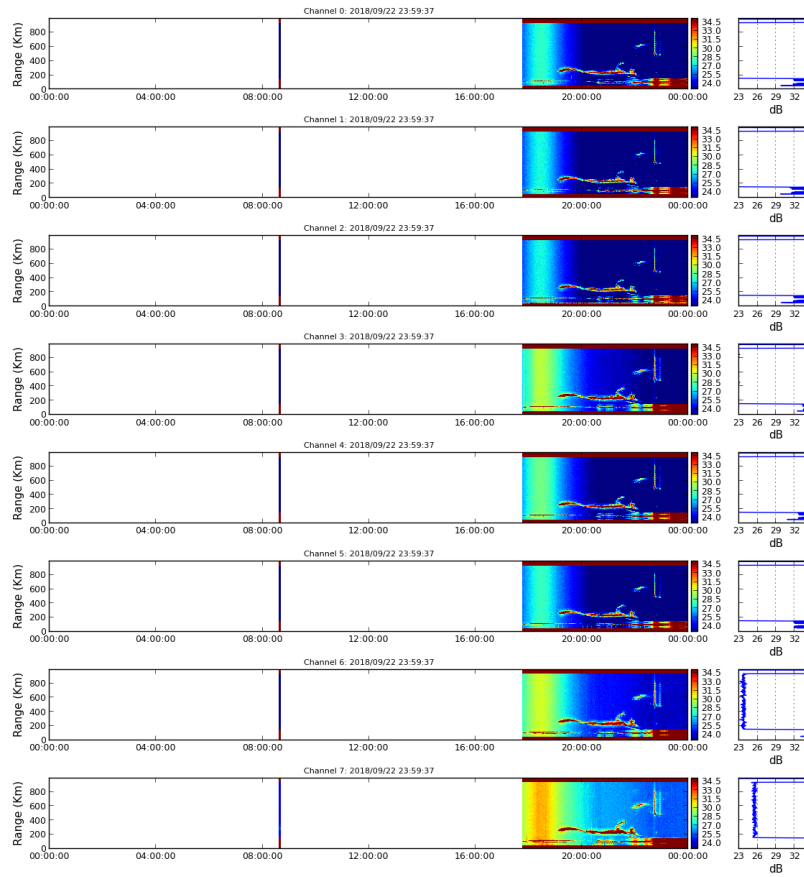


Figure 7. Rti IMAGING 2018-09-22.

Drifts obtained:

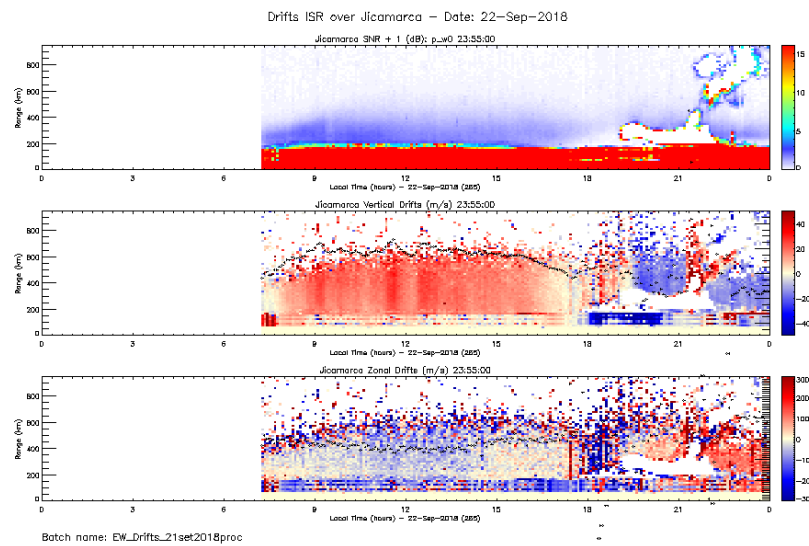


Figure 8. Drifts 2018-09-22.

Faraday Noise:

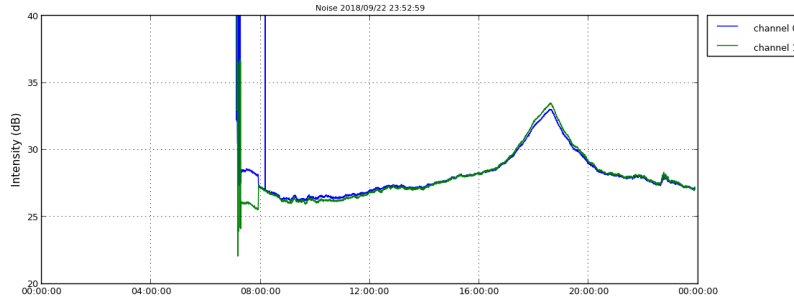


Figure 9. Faraday Noise 2018-09-22.

September, 23:

_ There is Spread F from 1 to 06 hours and 19 to 24 hours.

_ There is no data at 08 hours for many minutes.

_ % operation/24h: 96.74

Log:

_ 23 Sep 06:09 Imaging is off.

_ 23 Sep 09:10 Transmitter is off for one hour to change limiter resistor.

_ 23 Sep 21:33 Problem with transmitter.

Staff in charge:

00:08: J. Rojas 08-20: I. Manay. 20-24: P. C3ndor.

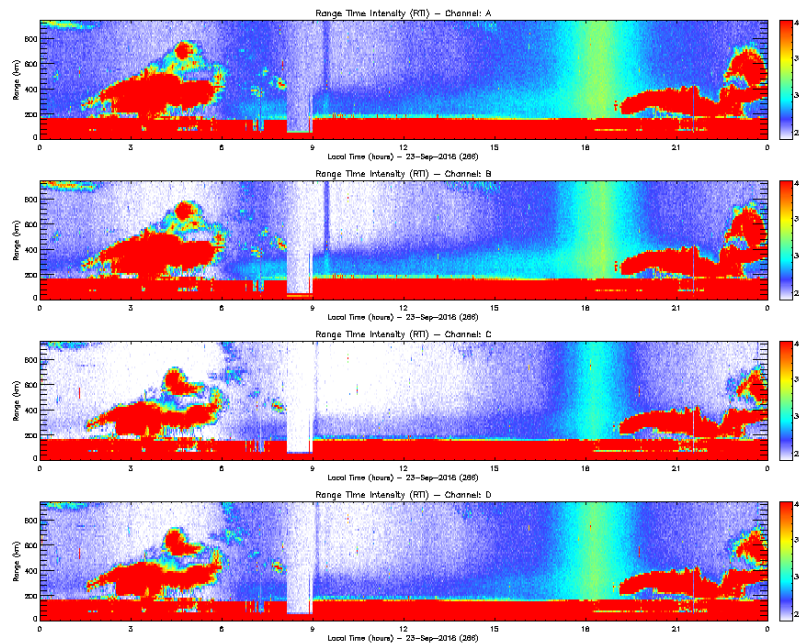


Figure 10. Rti EW_DRIFT 2018-09-23.

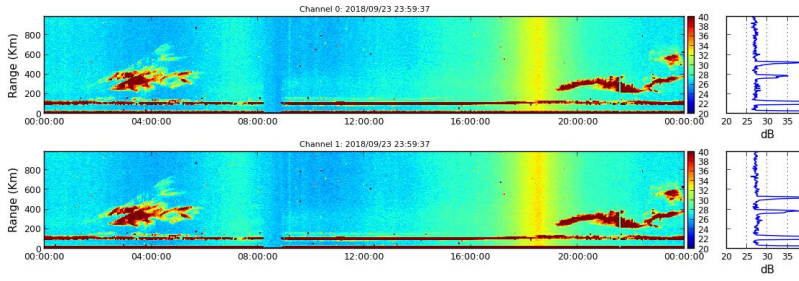


Figure 11. Rti FARADAY 2018-09-23.

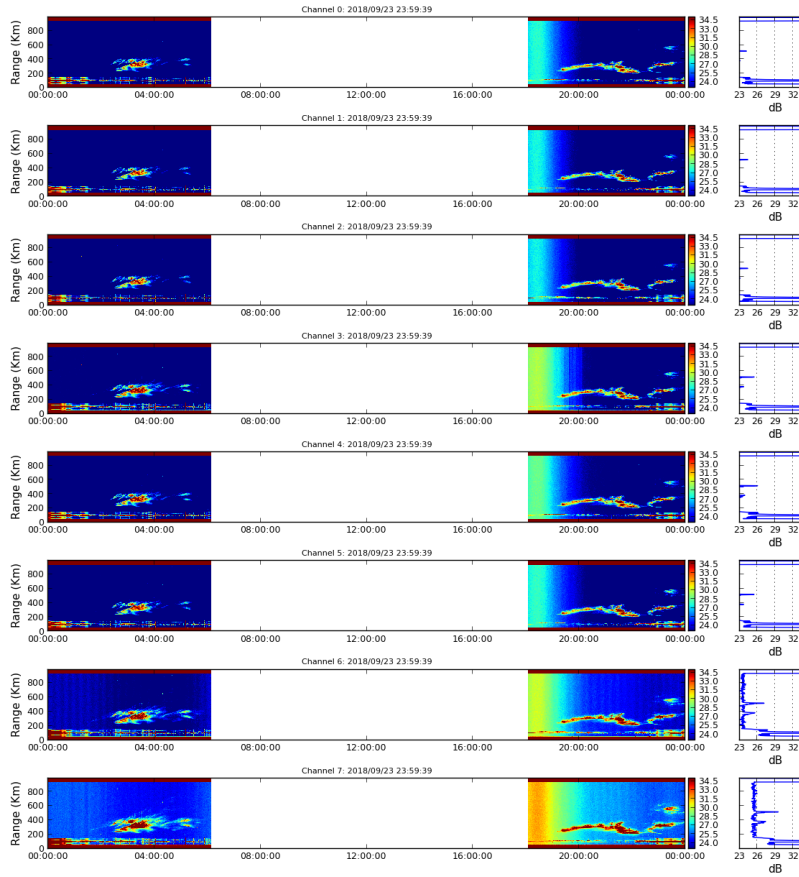


Figure 12. Rti IMAGING 2018-09-23.

Drifts obtained:

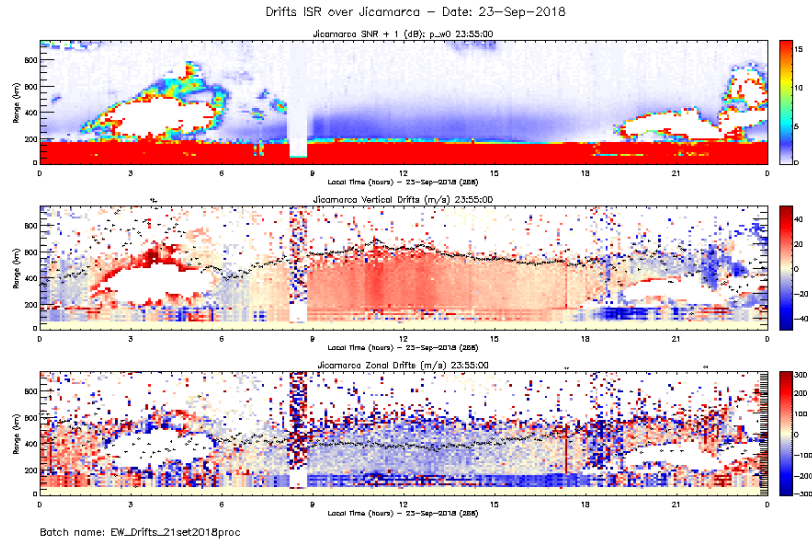


Figure 13. Drifts 2018-09-23.

Faraday Noise:

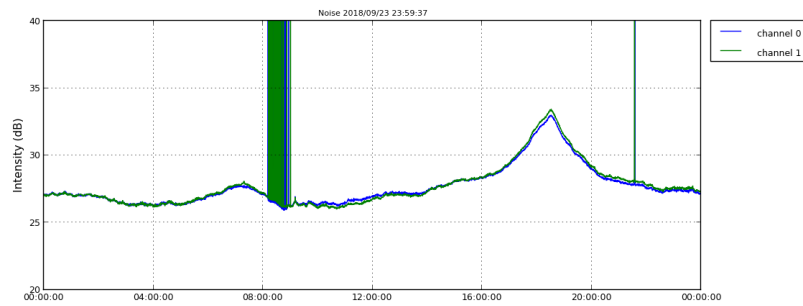


Figure 14. Faraday Noise 2018-09-23.

September, 24:

_ There is Spread F from 19 to 24 hours.

_ % operation/24h: 100.0

Log:

_ 24 Sep 06:02 Imaging off.

_ 24 Sep 17:30 Imaging on.

Staff in charge:

00-08: P. Córdor. 08-20 J. Rojas. 20-24 A. Valdez.

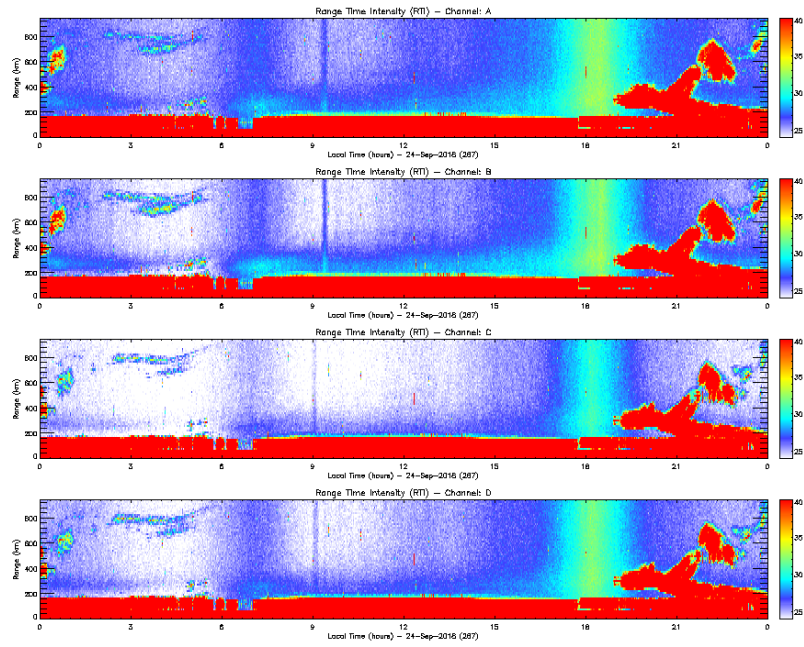


Figure 15. Rti EW_DRIFT 2018-09-24.

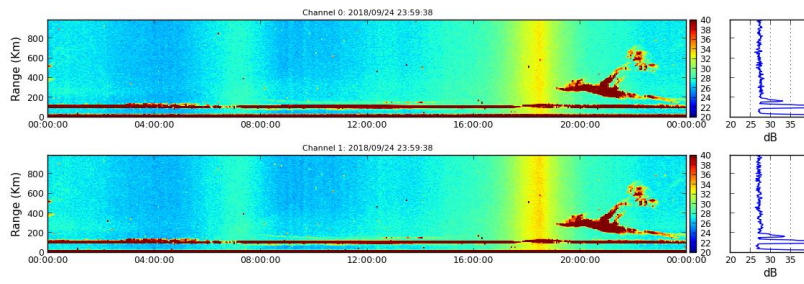


Figure 16. Rti FARADAY 2018-09-24.

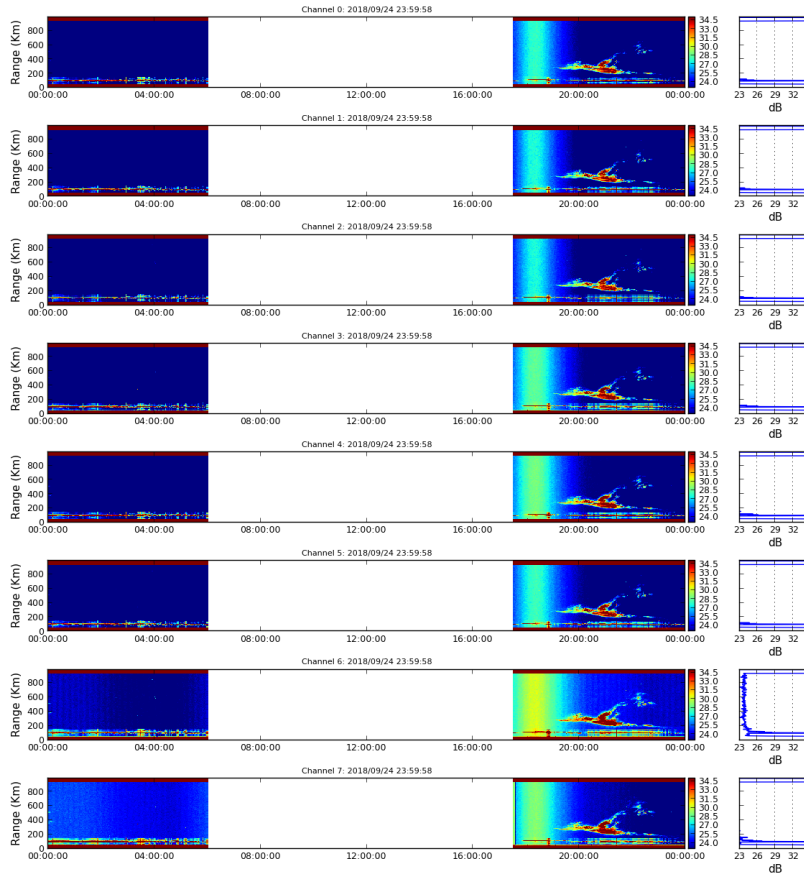


Figure 17. Rti IMAGING 2018-09-24.

Drifts obtained:

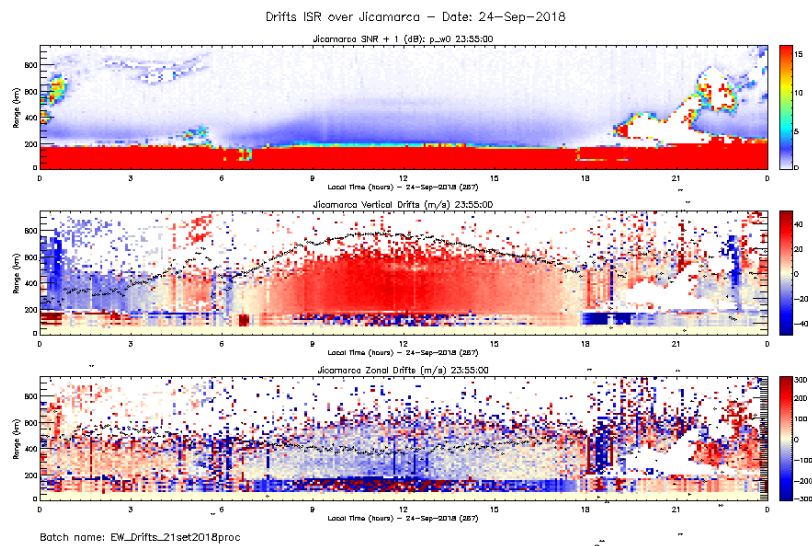


Figure 18. Drifts 2018-09-24.

Faraday Noise:

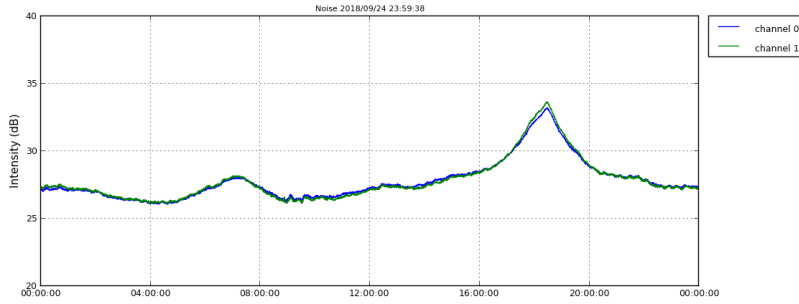


Figure 19. Faraday Noise 2018-09-24.

September, 25:

_ There is Spread F from 02 to 06 hours and from 20 to 24 hours.

_ % operation/24h: 100.

Log:

_ 25 Sep 17:28 Imaging is on.

Staff in charge:

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

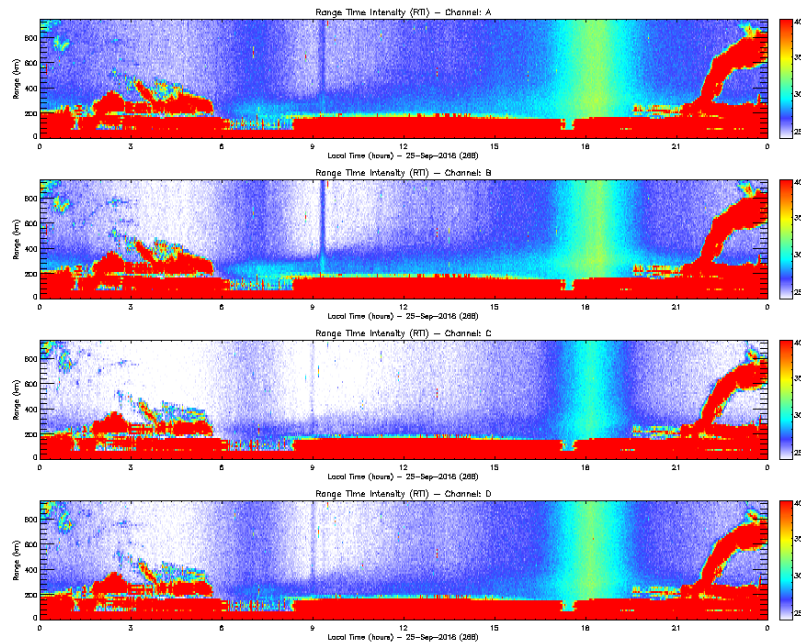


Figure 20. Rti EW_DRIFT 2018-09-25.

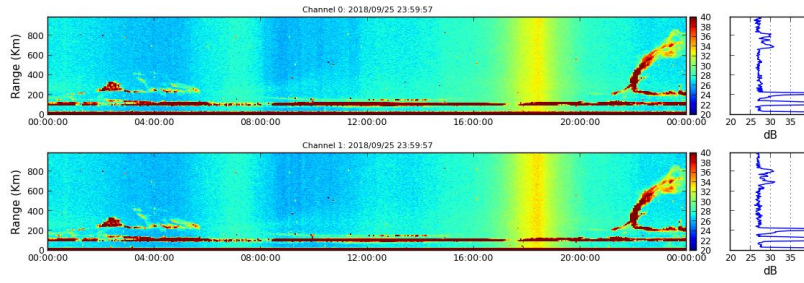


Figure 21. Rti FARADAY 2018-09-25.

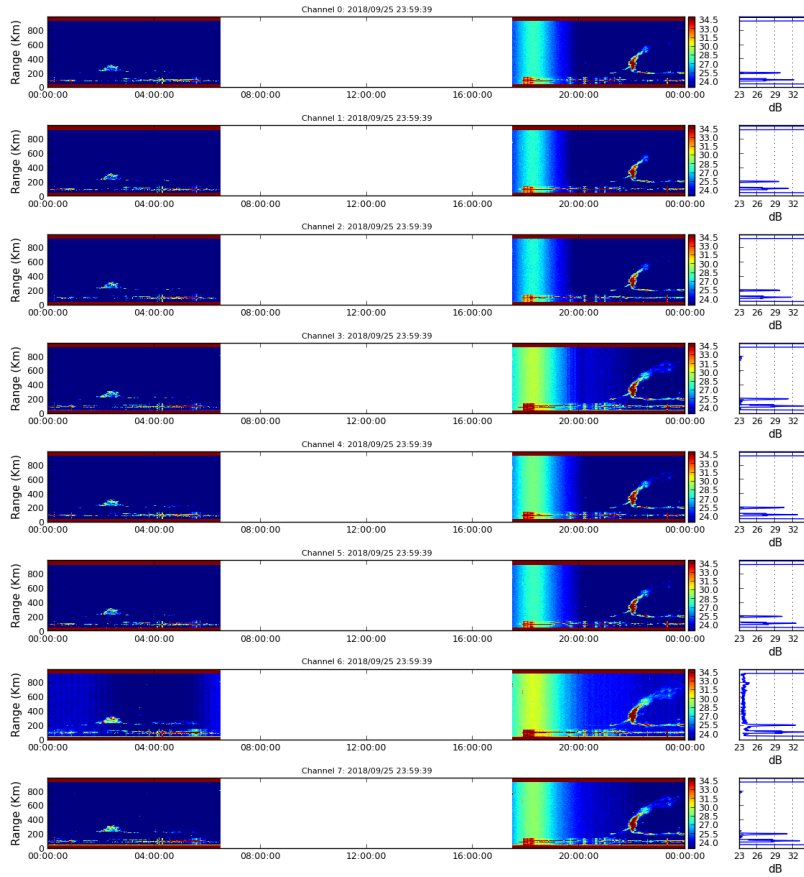


Figure 22. Rti IMAGING 2018-09-25.

Drifts obtained:

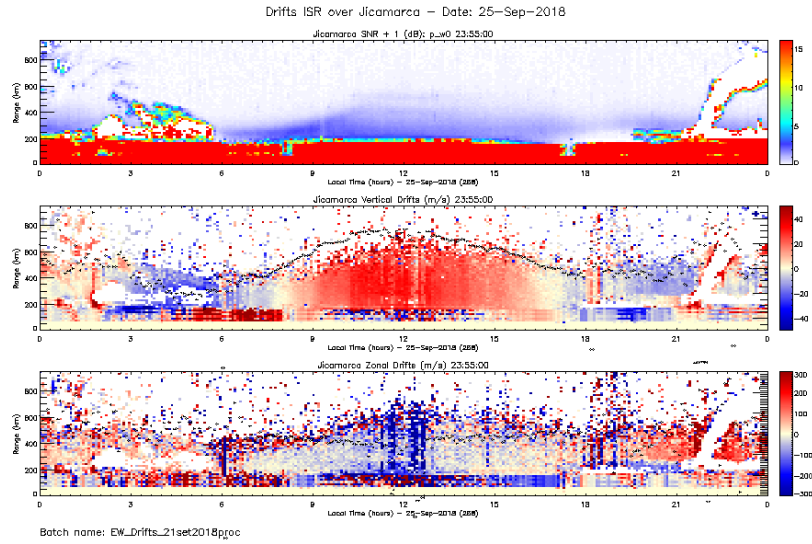


Figure 23. Drifts 2018-09-25.

Faraday Noise:

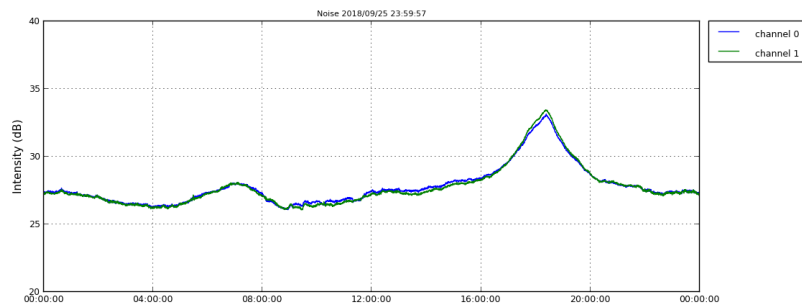


Figure 24. Faraday Noise 2018-09-25.

September, 26:

_ There is Spread F from 00 to 06 hours.

_ End of experiment.

_ % operation/8h: 100.

Log:

_ 26 Sep 08:00 End.

Staff in charge:

00-08: A. Belleza.

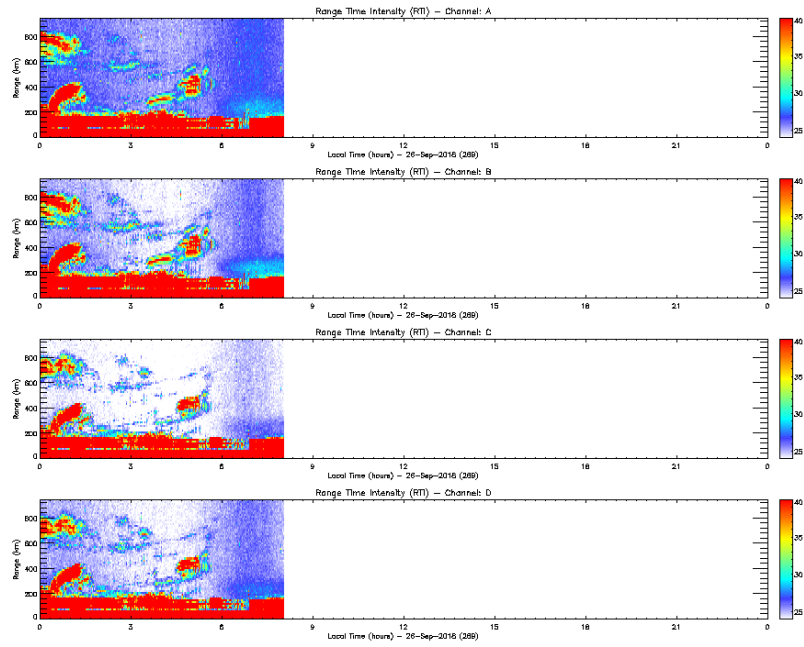


Figure 25. Rti EW_DRIFT 2018-09-26.

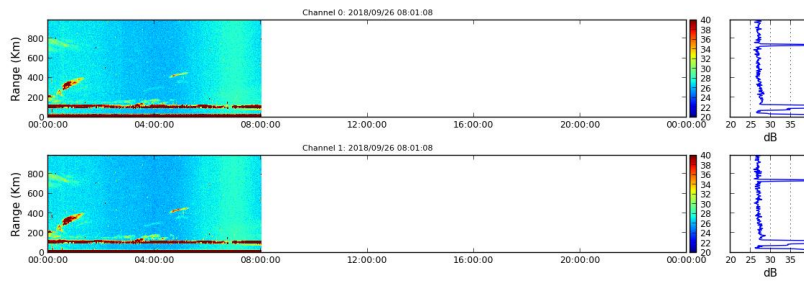


Figure 26. Rti FARADAY 2018-09-26.

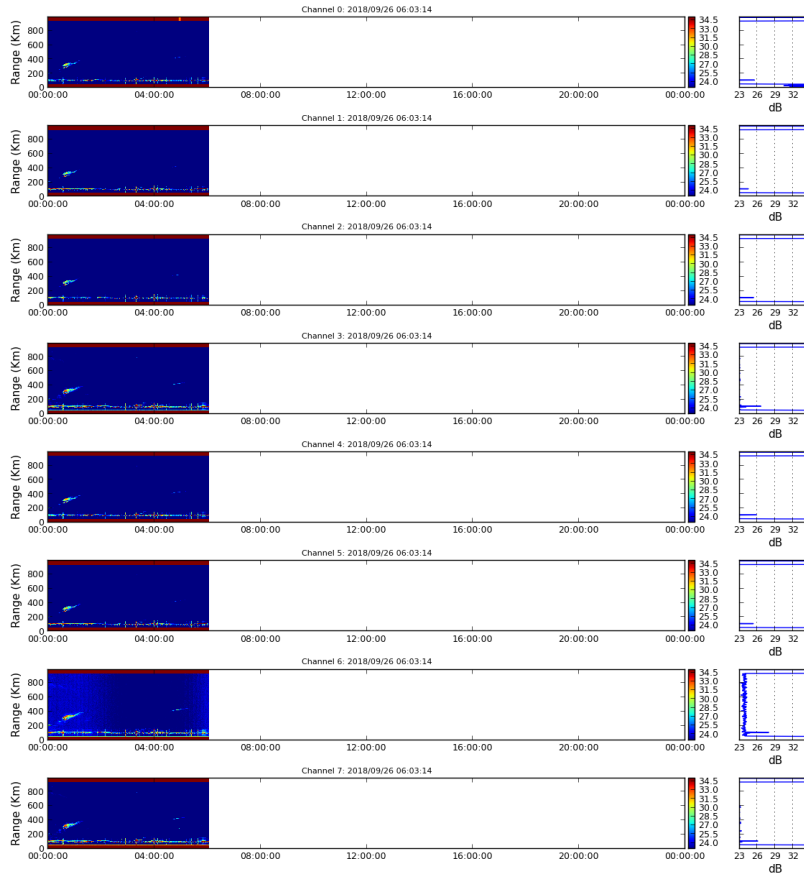


Figure 27. Rti IMAGING 2018-09-26.

Drifts obtained:

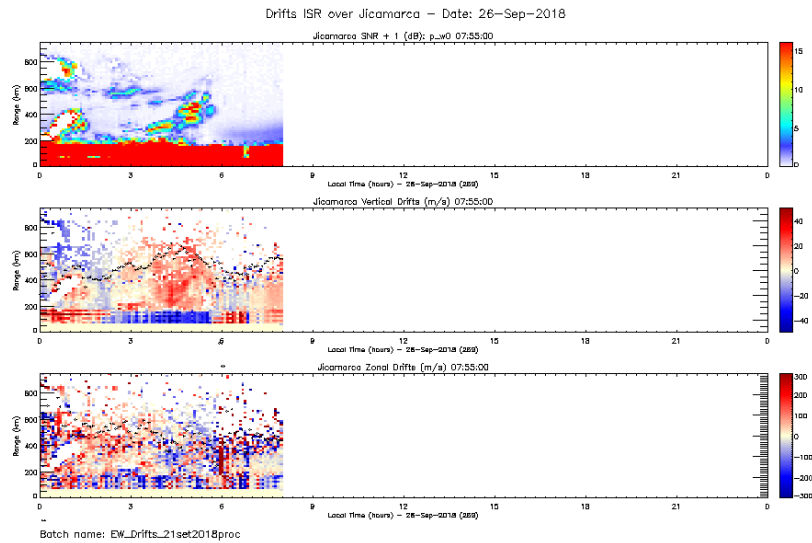


Figure 28. Drifts 2018-09-26.

Faraday Noise:

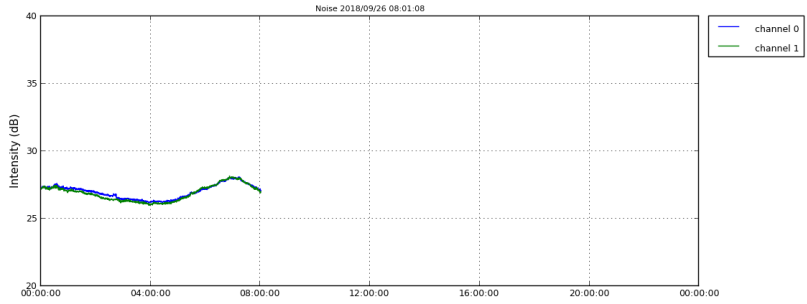


Figure 29. Faraday Noise 2018-09-26.

Annex:

Sky noise for September 21, 2018:

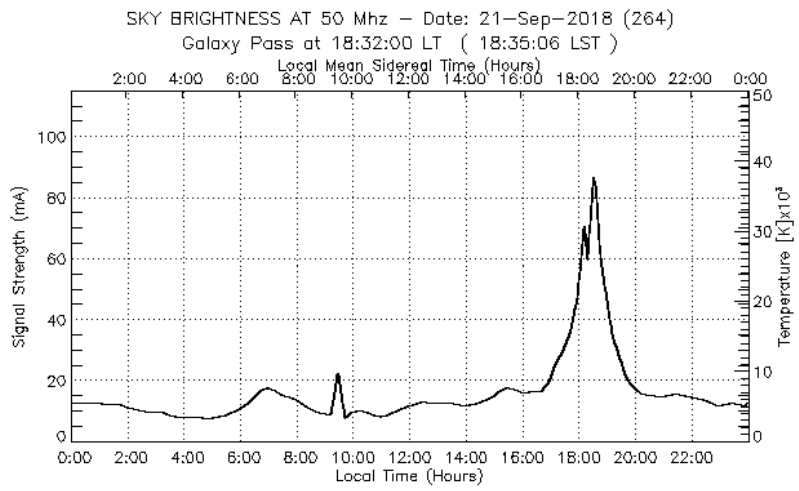
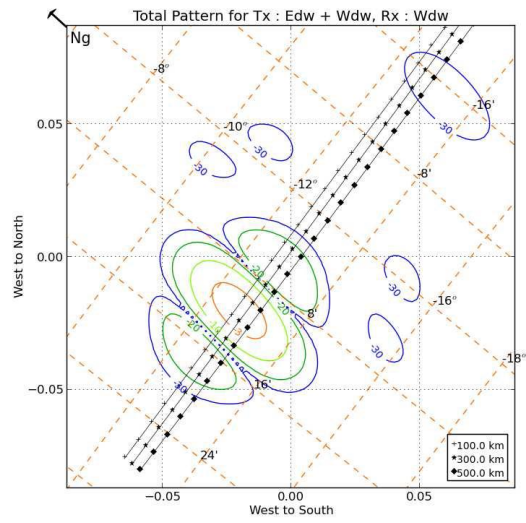
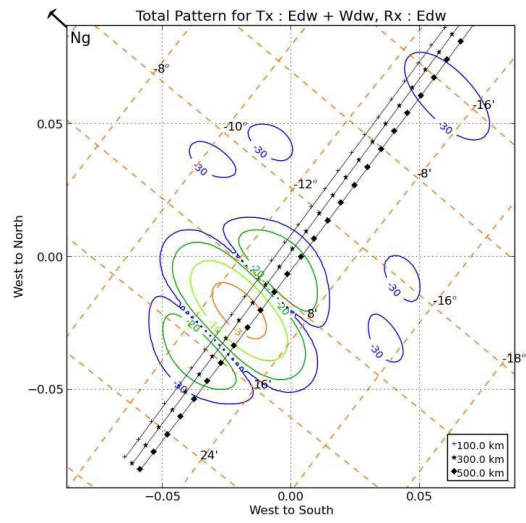


Figure 30. Sky noise.

Antenna pattern

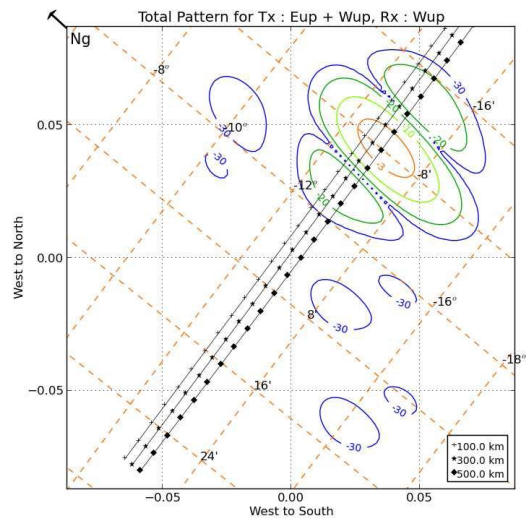


Over Jicamarca: 23-Sep-2018 (266)

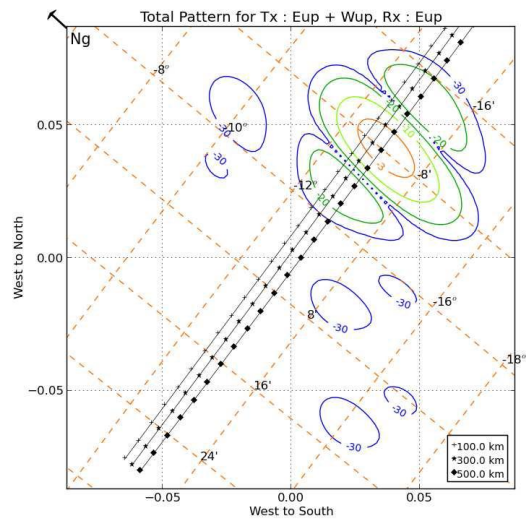


Over Jicamarca: 23-Sep-2018 (266)

Figure 31. Antennas pattern EW_Drifts: Ch A and Ch B.

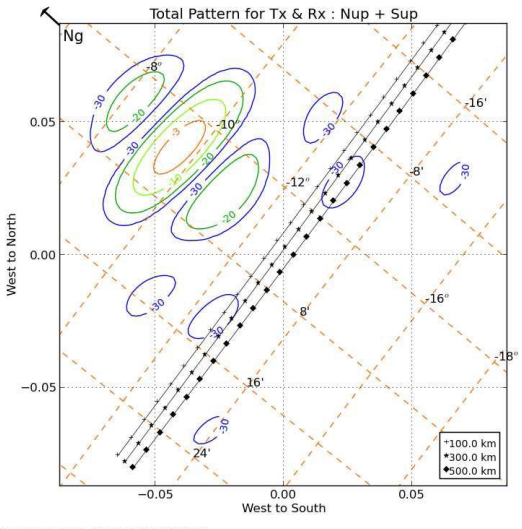


Over Jicamarca: 23-Sep-2018 (266)

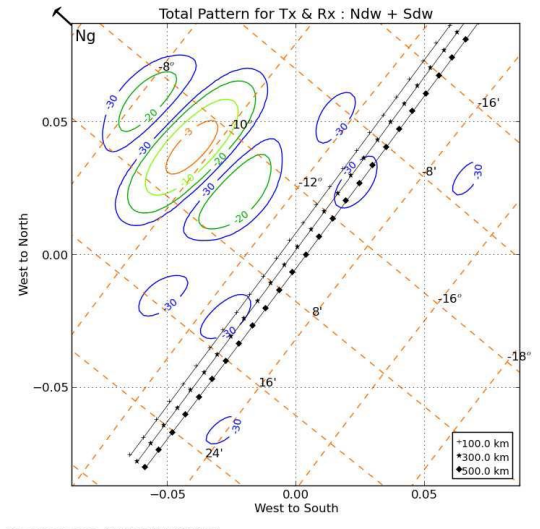


Over Jicamarca: 23-Sep-2018 (266)

Figure 32. EW_Drifts: Ch C and Ch D.



Over Jicamarca: 23-Sep-2018 (266)



Over Jicamarca: 23-Sep-2018 (266)

Figure 33. Faraday: Ch A and Ch B.