

High Altitude Echoes January 2023 Campaign Report

This is a report on the High Altitude Echoes campaign from January 23rd to January 26th consisting of daily RTIs, noise plots and a summary of the most important incidents occurred during data taking.

HIGH ALTITUDE ECHOES:

January 23rd:

- Campaign starts at 15:54 hours.
- Operation/8h: 98%.

Log:

- Jan. 23, 16:00: Campaign starts.
- Jan. 23, 22:15: AMISR restarted but not synchronized.

Staff in charge:

08-20: K, Kuyeng. 20-24: R. Flores.

RTI:

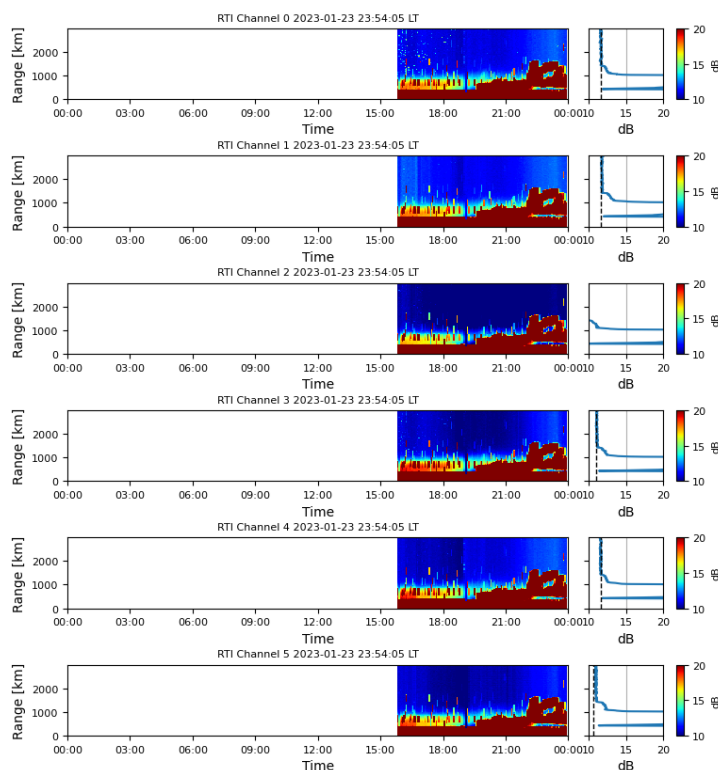


Figure 1. RTI corresponding to 2023-01-23.

Noise obtained:

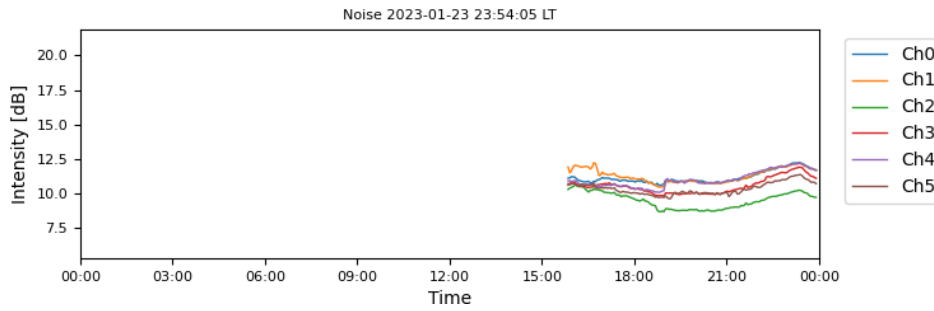


Figure 2. Noise corresponding to 2023-01-23.

January 24th:

- Data loss due to a problem with the transmitter.
- % operation/11h16m: 91%

Logs:

- Jan. 24th. 03:33 Problem with transmitter.

Staff in charge:

0-8: R. Flores. 17-24: A. Belleza

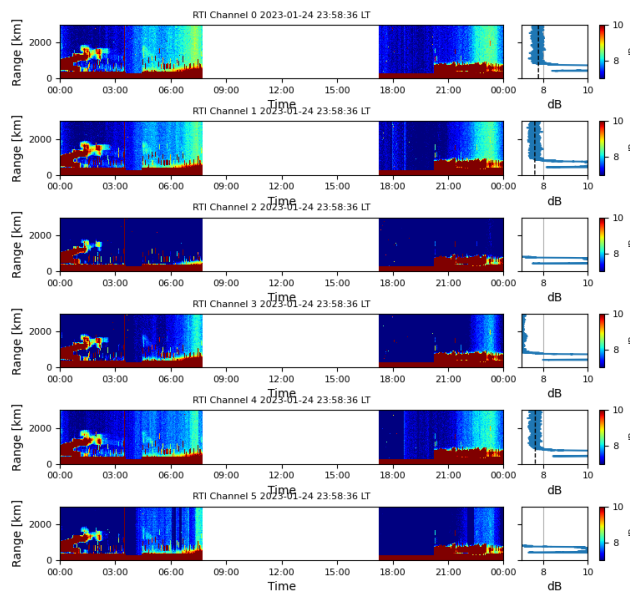


Figure 3. RTI corresponding to 2023-01-24.

Noise obtained:

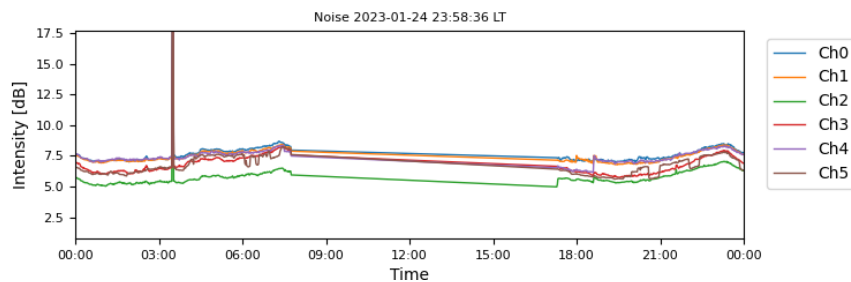


Figure 4. RTI corresponding to 2023-01-24.

January 25th:

- % operation/12h: 99%

Logs:

- Jan. 25th. 05:45: Problem with transmitter.

Staff in charge:

20:00-08:00 A. Belleza. 20:00-24:00: J. Rojas.

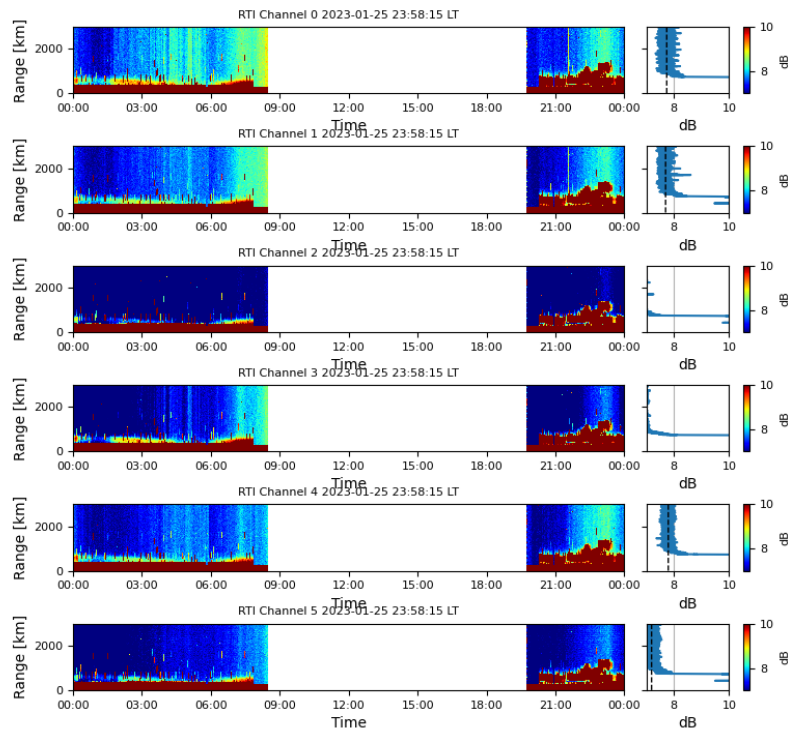


Figure 5. RTI corresponding to 2023-01-25.

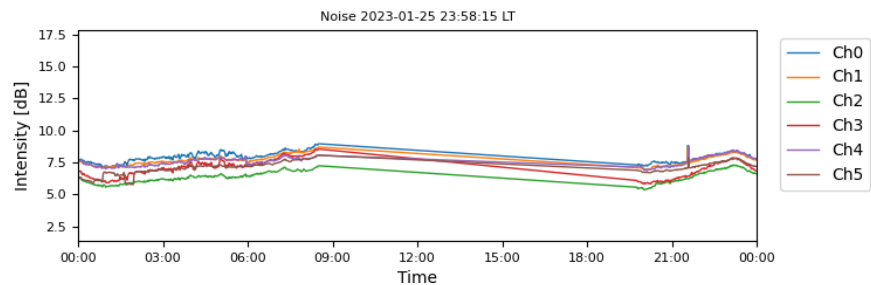


Figure 6. Noise corresponding to 2023-01-25.

January 26th:

-Data loss at 5 AM for a few minutes.

-% operation/7h: 99%

Staff in charge:
0:00-07:00: J. Rojas.

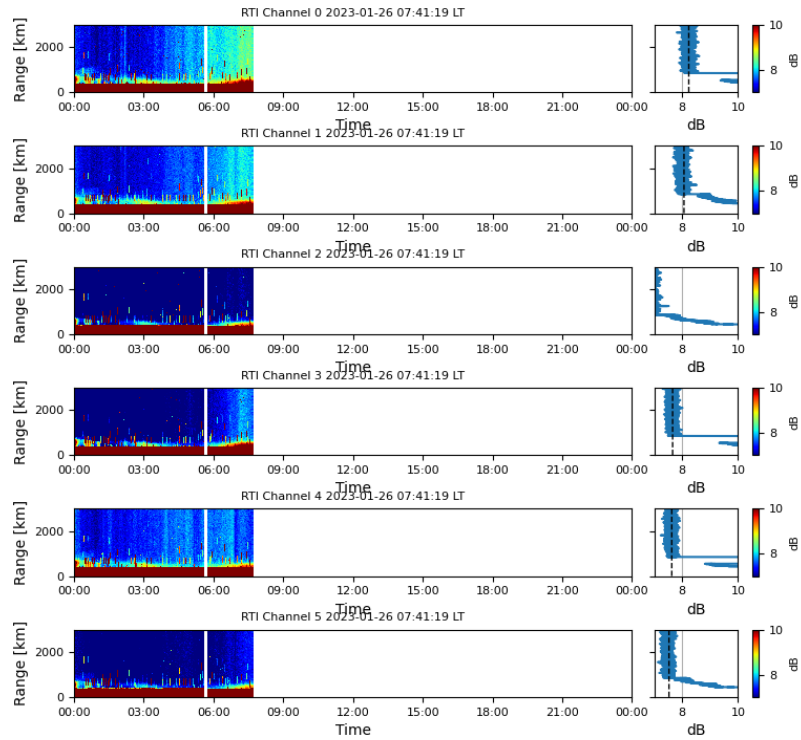


Figure 7. RTI corresponding to 2023-01-26.

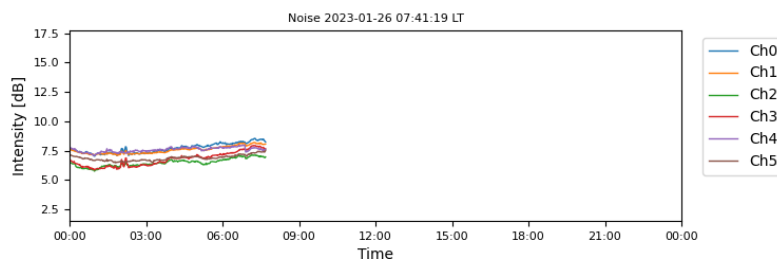


Figure 8. Noise corresponding to 2023-01-26.

Annex:
Sky noise for January 24th 2022:

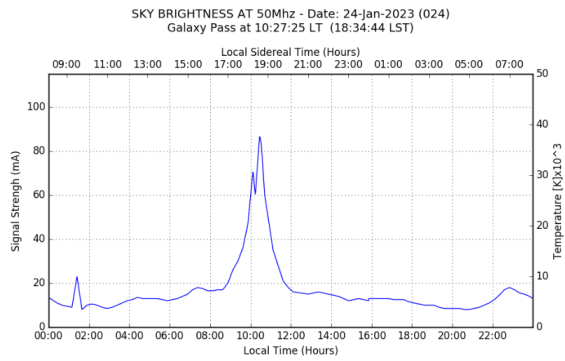


Figure 5
Figure 9. Sky noise.

Antenna pattern

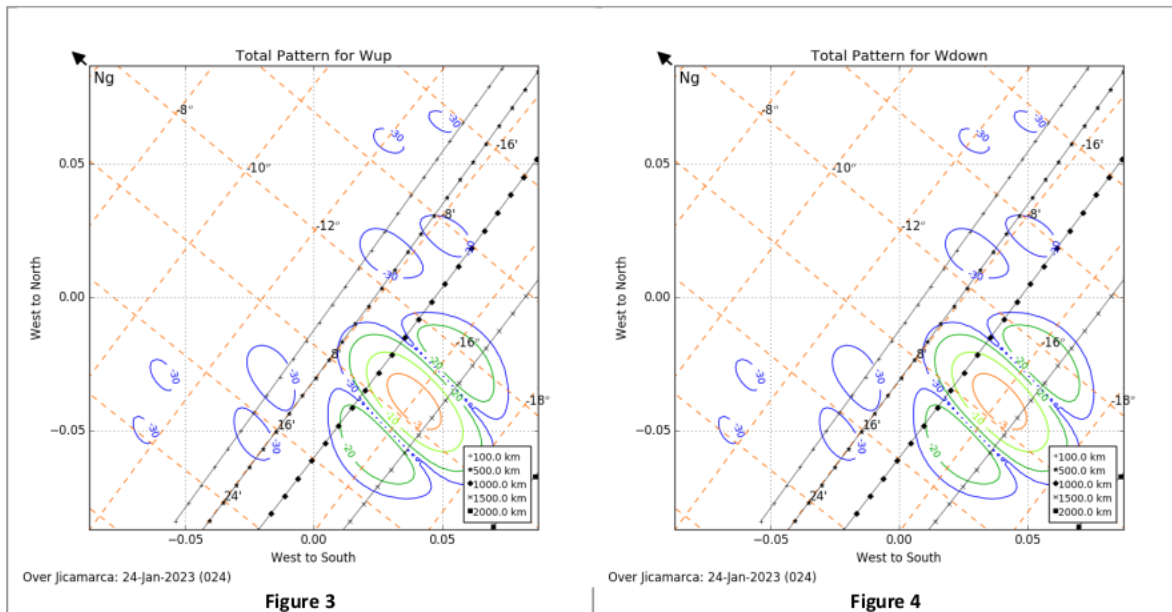


Figure 10. Antennas pattern High Altitude Echoes: Ch A and Ch B.