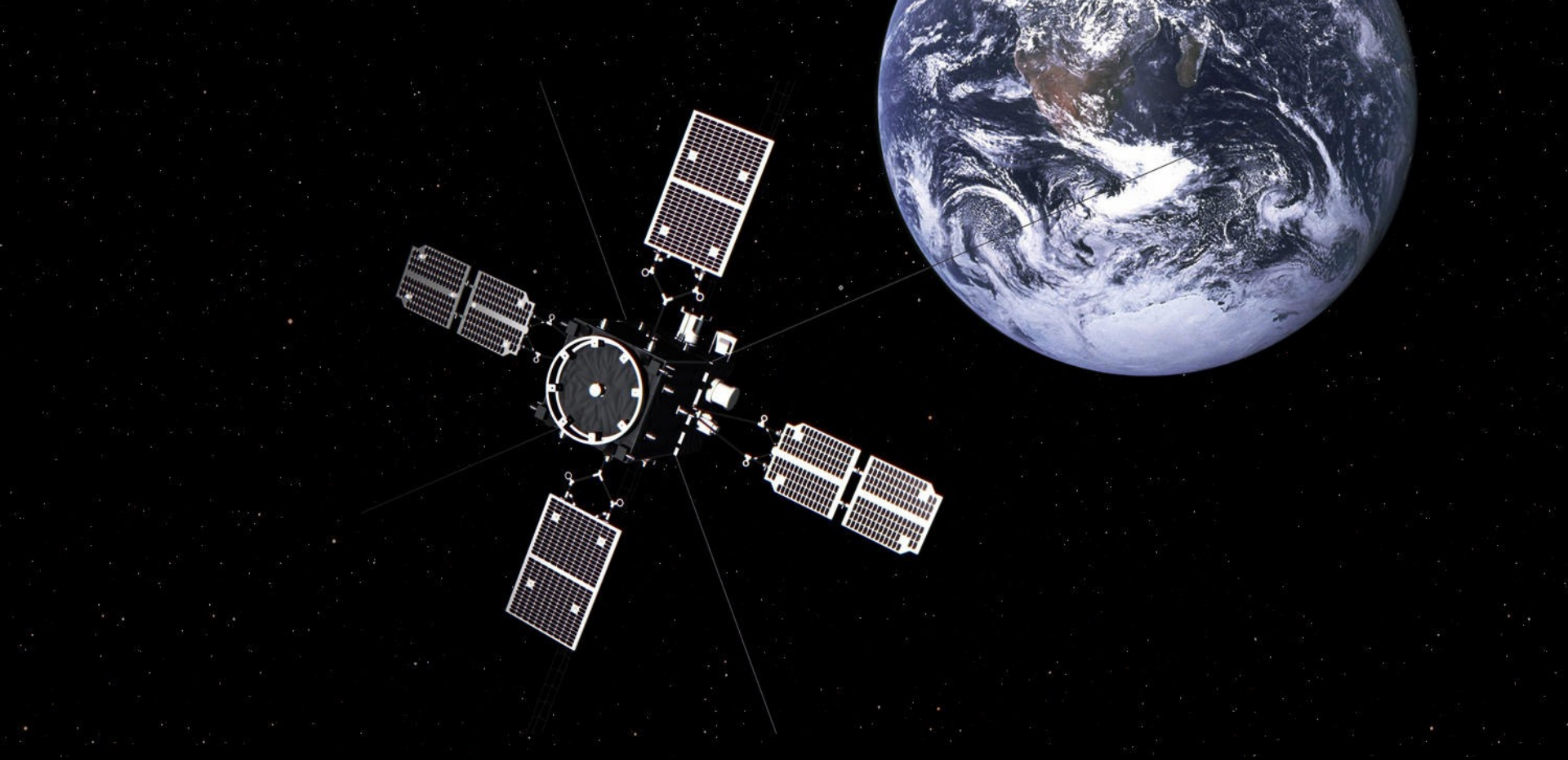




4.4 The latest status of relevant satellite missions

4.5 All-Associate (AA) pool and its past and future allocations

ERG (Arase) mission

Status of the ERG (Arase) satellite

- As already reported in the previous SAC meetings, the extension of the mission was approved by JAXA **until the end of March 2032**
- Joint observations with EISCAT_3D will be feasible
- Quick look plots, orbit data, science data (in CDF format, Level-2) and Doi list for the ERG satellite data are available at:
https://ergsc.isee.nagoya-u.ac.jp/data_info/index.shtml.en
- SPEDAS Plug-in for ERG (PySPEDAS is also available):
https://ergsc.isee.nagoya-u.ac.jp/data_info/howto.shtml.en
- Rules of the road:
https://ergsc.isee.nagoyau.ac.jp/data_info/rules_of_the_road.shtml.en
- Data requests and suggestions on coordinated observations are welcome, PoC: miyoshi@isee.nagoya-u.ac.jp, iku@stp.isas.jaxa.jp

ERG-EISCAT coordinated observations

- Summary and plan of the Arase-EISCAT coordinated observations are available at the ERG science center:
<https://ergsc.isee.nagoya-u.ac.jp/mw/index.php/ErgGround/ErgEiscat>
- EISCAT summary plots and ASCII-format data files during Jan-Mar 2025 conjunctions are available at:
http://pc115.seg20.nipr.ac.jp/www/eiscat/EISCAT_SP/2025/202501_202503_KST_AA/
- EISCAT CDF-format data files are available at the NIPR database:
<http://esr.nipr.ac.jp/www/eiscatdata/cdf.html>
- Conjunction Interval Finder (CIF) for ERG:
<https://ergsc.isee.nagoya-u.ac.jp/psa-gnd/bin/cif.cgi>
- A summary list of the Arase-EISCAT coordinated observation events will be published with Doi

ERG-EISCAT coordinated observations last winter

- Coordinated observations in Jan-Mar 2025
- Several cancellations due to hardware problems
- All the AA experiments were carried out with VHF
- Total number of hours used : 25 h / 60 h (35 h under use)
- 75 h remaining in 2025 (double-check is needed)

Observations for January-March, 2025 [\[edit\]](#)

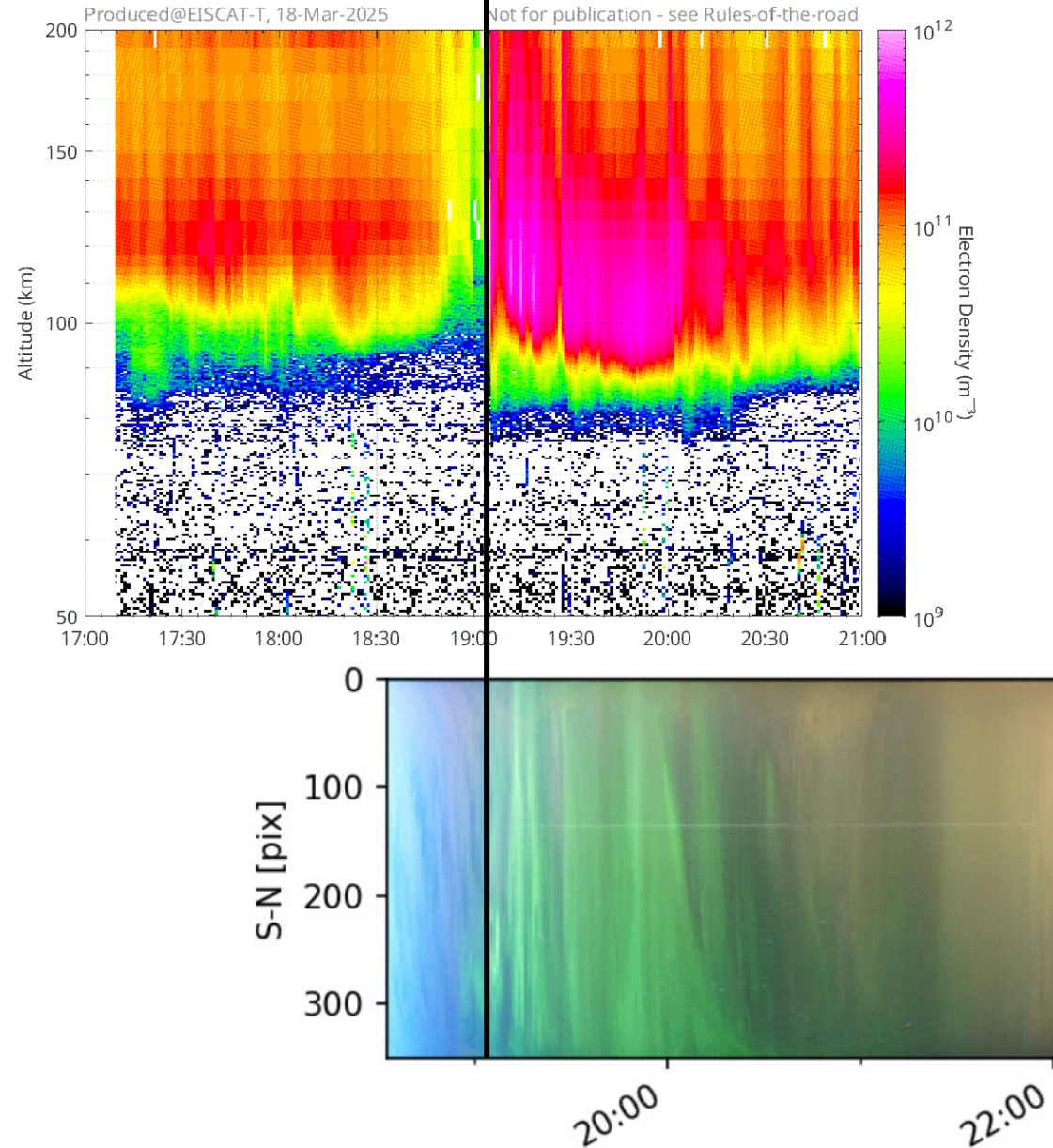
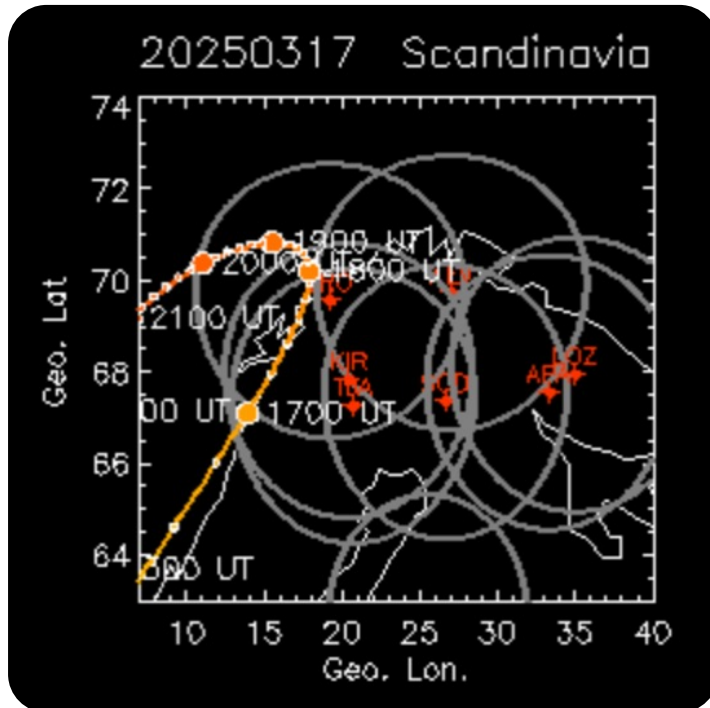
ERG Conjunction Period	UHF	VHF	SWARM Conjunction	Orbit Plot	Summary Plot	Notes
2025/01/07 22-26 UT	AA (22-26 UT)	SP_NI_ONST		orbit plot orbit plot		Cancelled due to hardware problem
2025/01/14 21-25 UT	x	AA (21-25 UT)		orbit plot orbit plot		Cancelled due to hardware problem
2025/01/23 22-26 UT	x	AA (22-26 UT)		orbit plot	EISCAT plot	
2025/01/30 20-25 UT	x	AA (21-25 UT)		orbit plot orbit plot	EISCAT plot	
2025/02/06 18-24 UT	x	AA (18-24 UT)		orbit plot	EISCAT plot	
2025/02/13 18-22 UT	x	AA (18-22 UT)		orbit plot	EISCAT plot	
2025/02/22 19-23 UT	x	AA (19-23 UT)		orbit plot	EISCAT plot	
2025/03/01 17-21 UT	x	AA (17-21 UT)		orbit plot	EISCAT plot	
2025/03/10 17-21 UT	x	AA (17-21 UT)		orbit plot	EISCAT plot	
2025/03/17 17-21 UT	x	AA (17-21 UT)		orbit plot	EISCAT plot	
2025/03/24 16-20 UT	x	AA (16-20 UT)		orbit plot	EISCAT plot	
2025/03/31 15-19 UT	x	AA (15-19 UT)		orbit plot	EISCAT plot	

http://pc115.seg20.nipr.ac.jp/www/eiscat/EISCAT_SP/2025/202501_202503_KST_AA/

A case on Mar 17, 2025

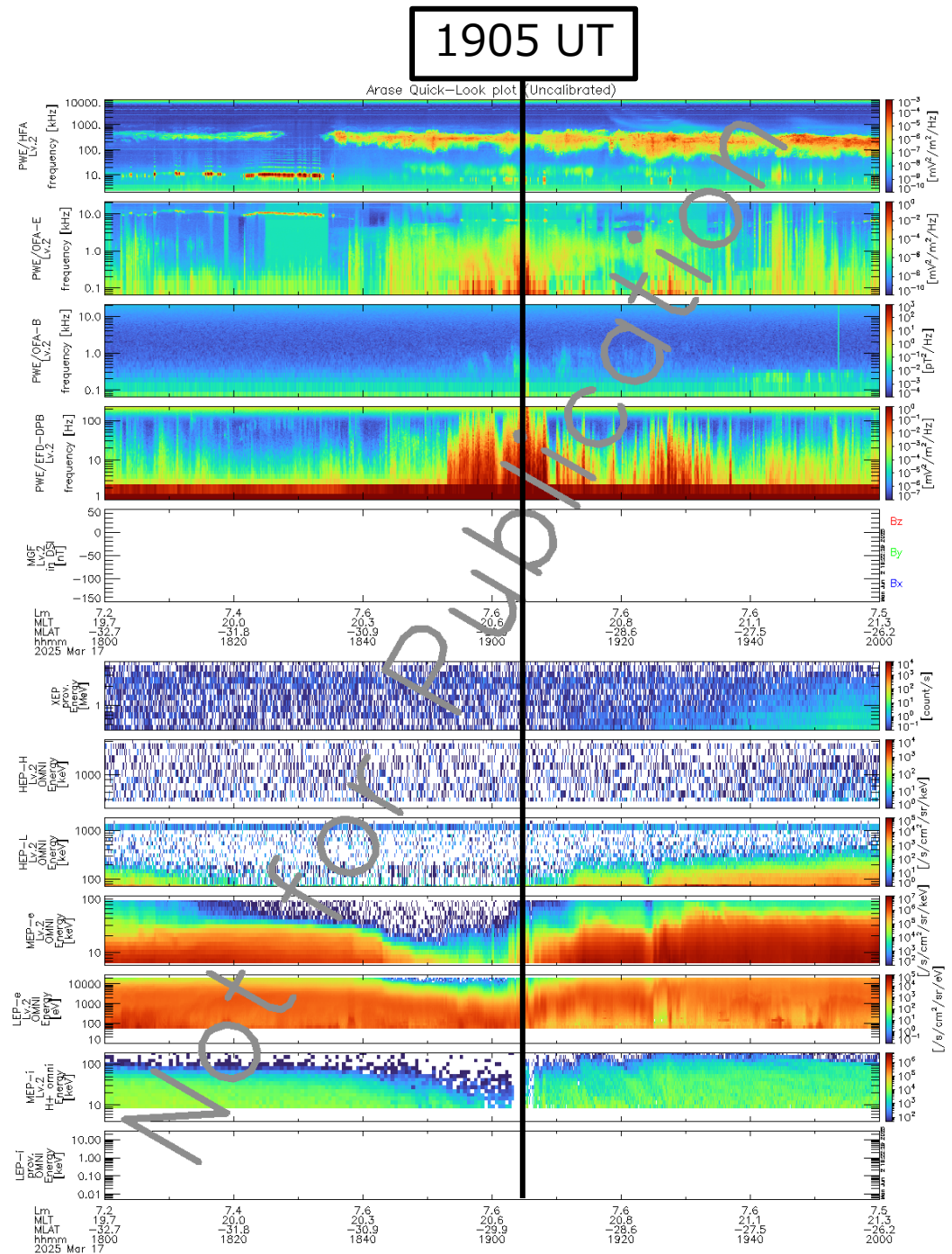
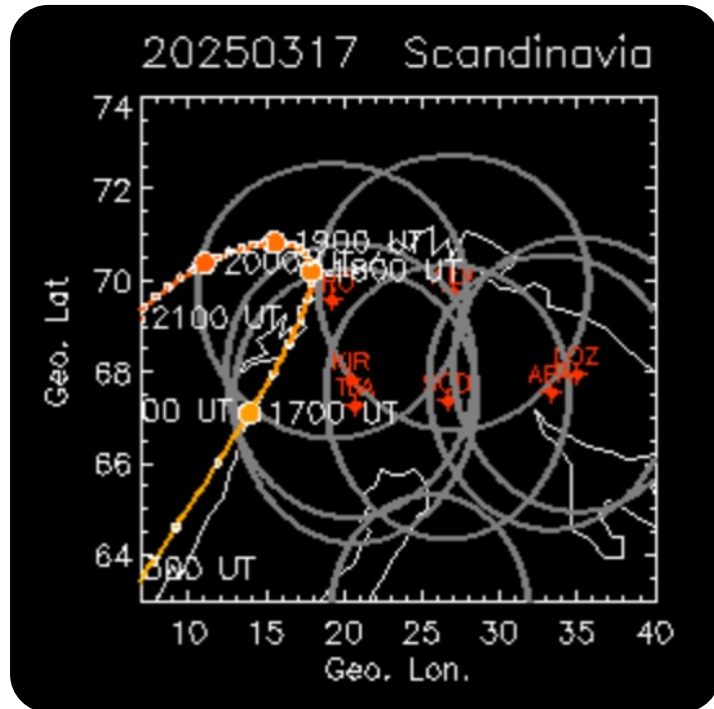
1905 UT

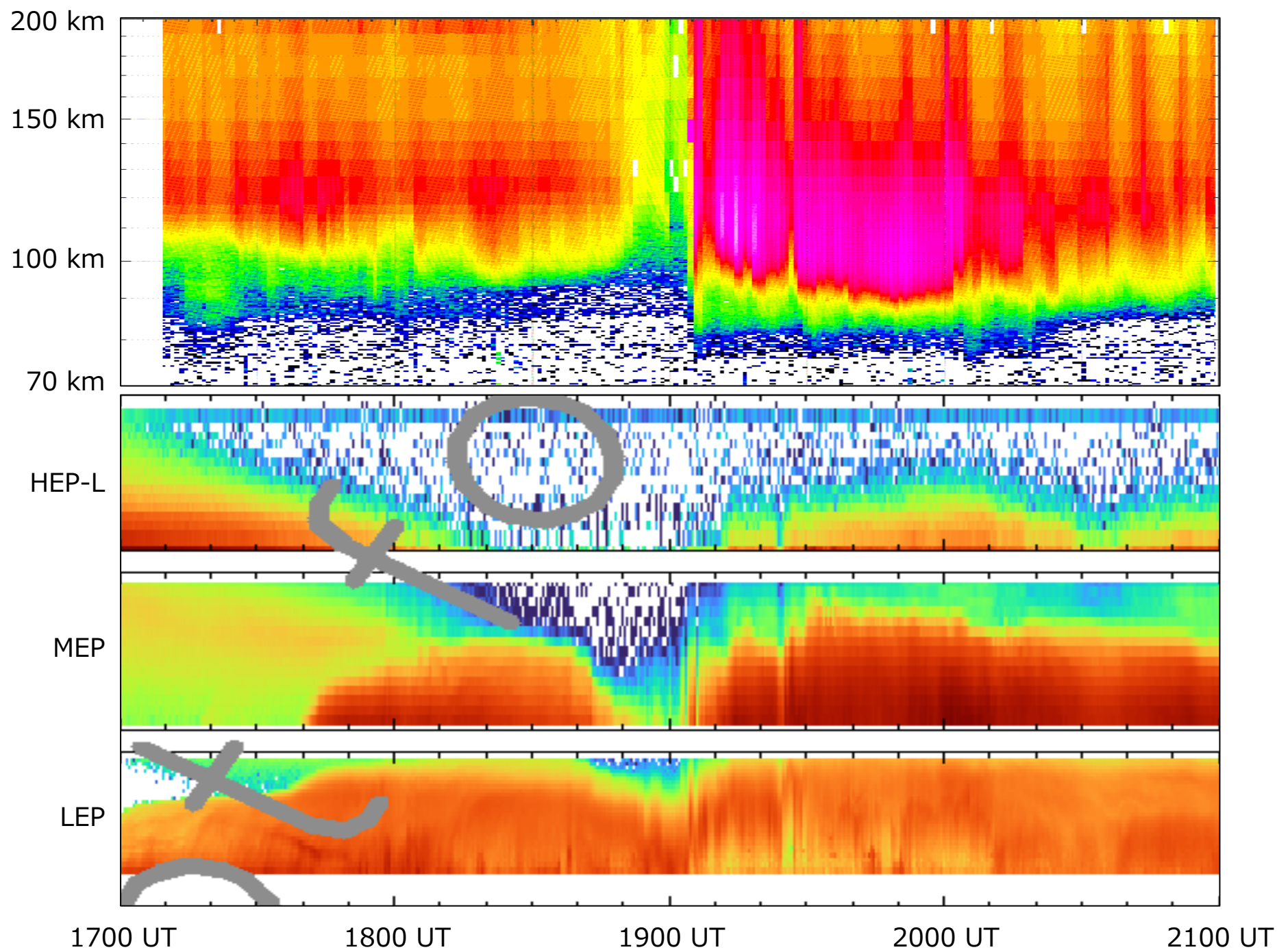
- 17-21 UT (19-23 MLT)
- Sudden and intense precipitation at 1905 UT near the closest approach of Arase

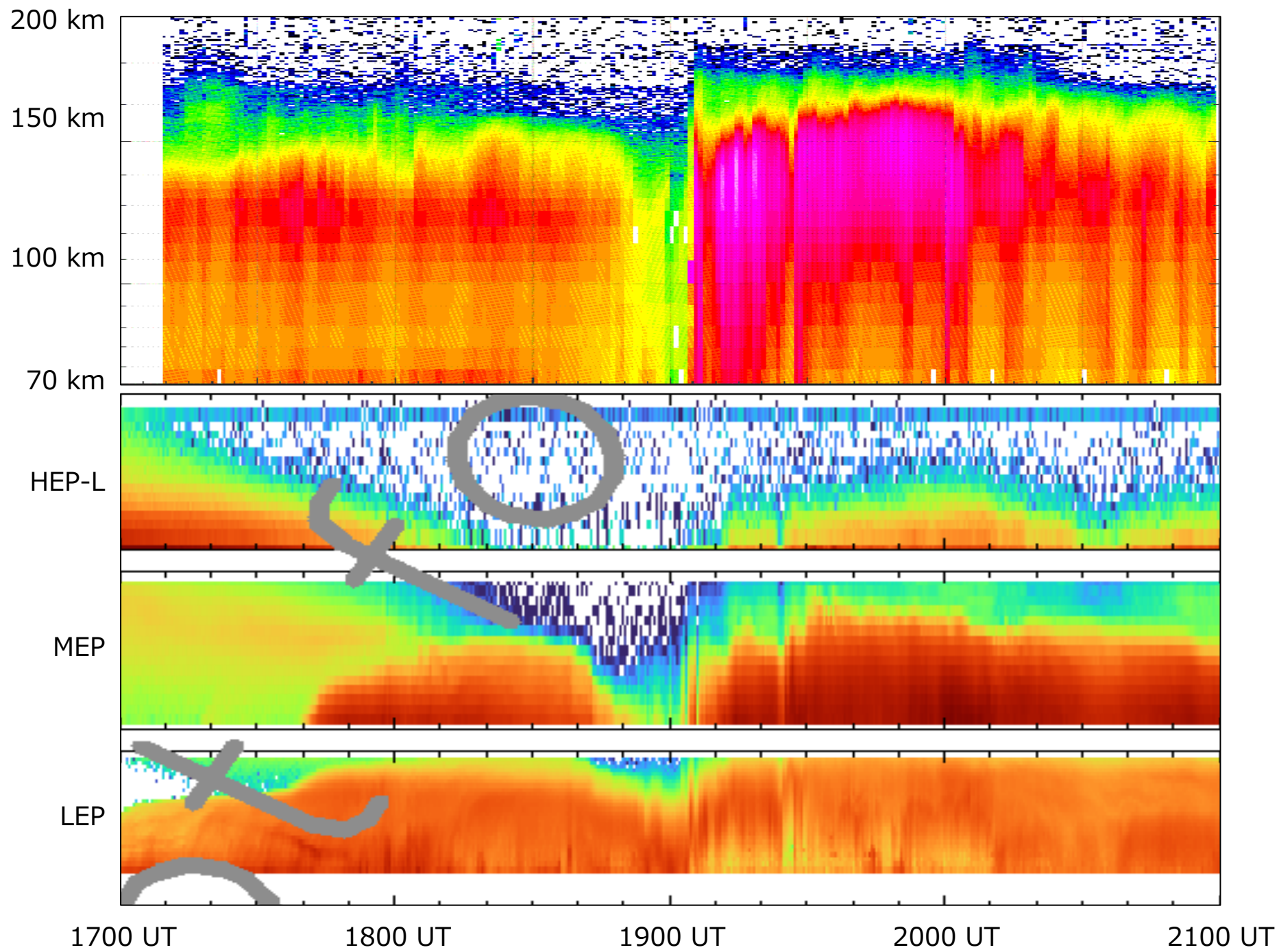


Data from Arase

- 17-21 UT (19-23 MLT)
- Sudden and intense precipitation at 1905 UT near the closest approach of Arase







ERG-EISCAT coordinated observations this winter

- Total number of hours used in 2025: 25 h
- 75 h remaining in 2025 (double-check is needed)

Nov to Dec, 2025:

- Arase will be mostly on the dayside in November
- Morning side observations with optics will be possible in December
- Swarm will be on the nightside during these periods
- Should use more time in support of Swarm?

Jan to Mar, 2026:

- Arase will be in the morning/midnight
- Good conjunctions are expected

Figure from Stephan

- Swarm A/C will be on the nightside in Nov and Dec

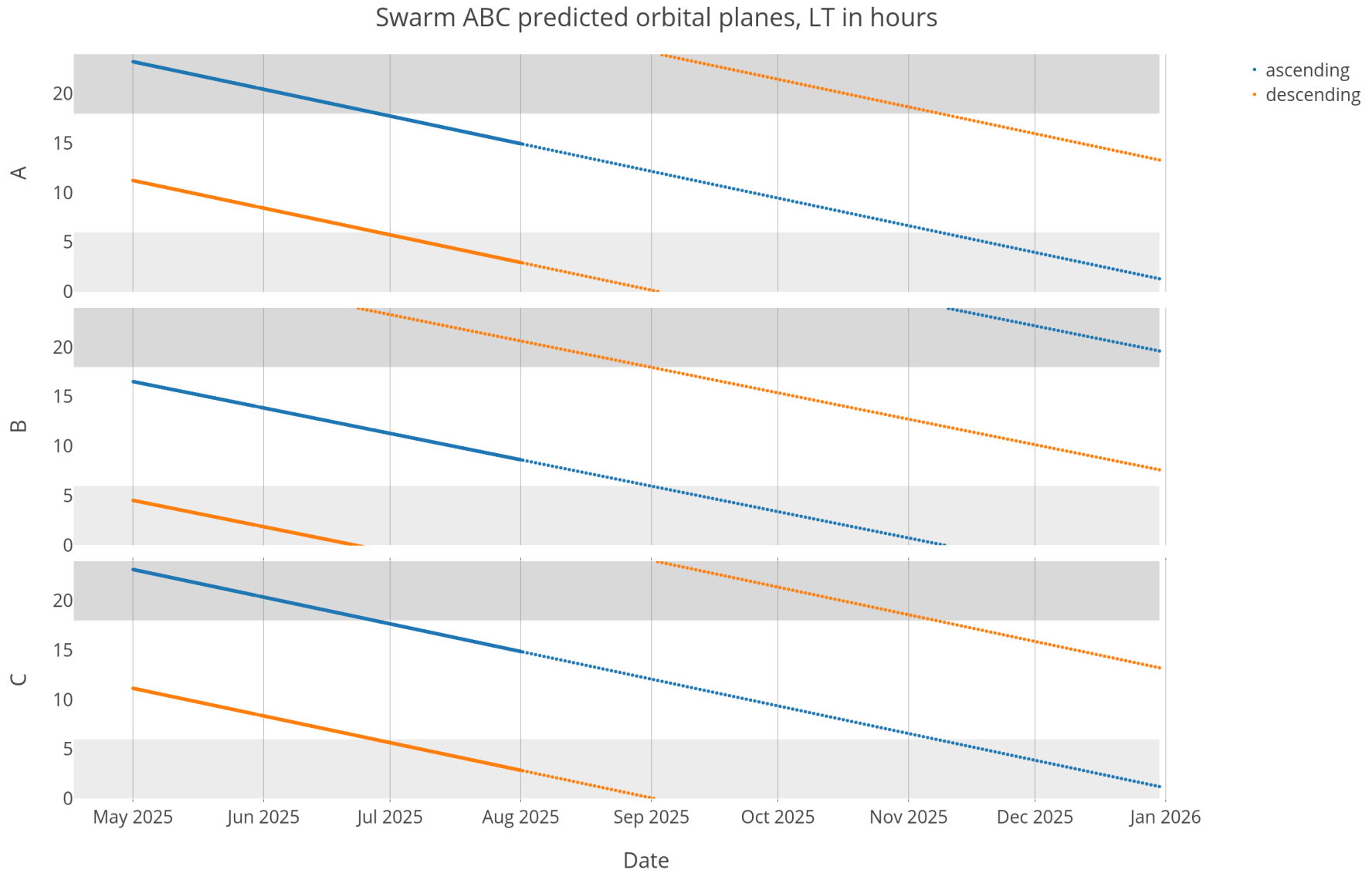
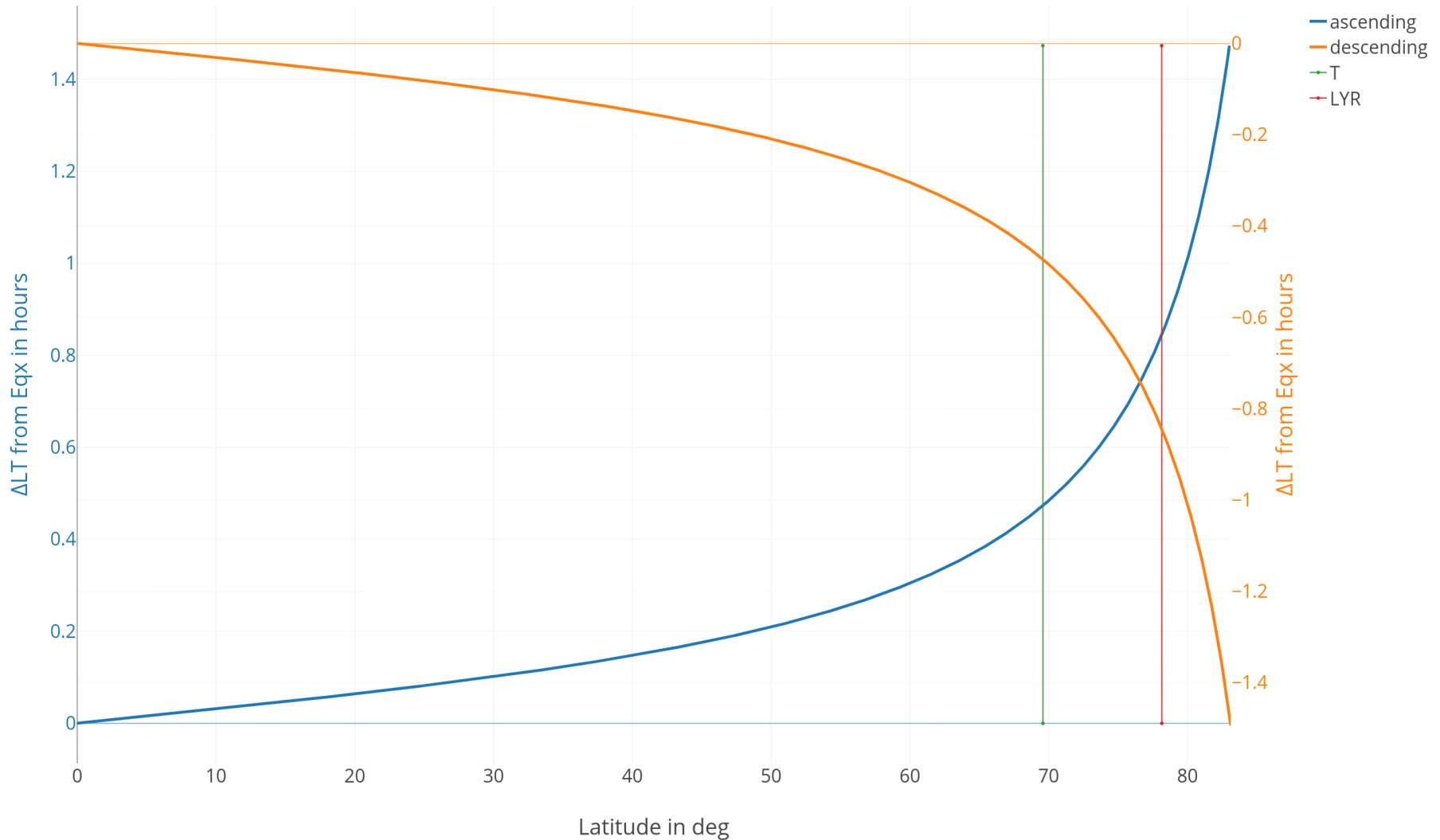


Figure from Stephan

- Stephan: let us know how to interpret this figure

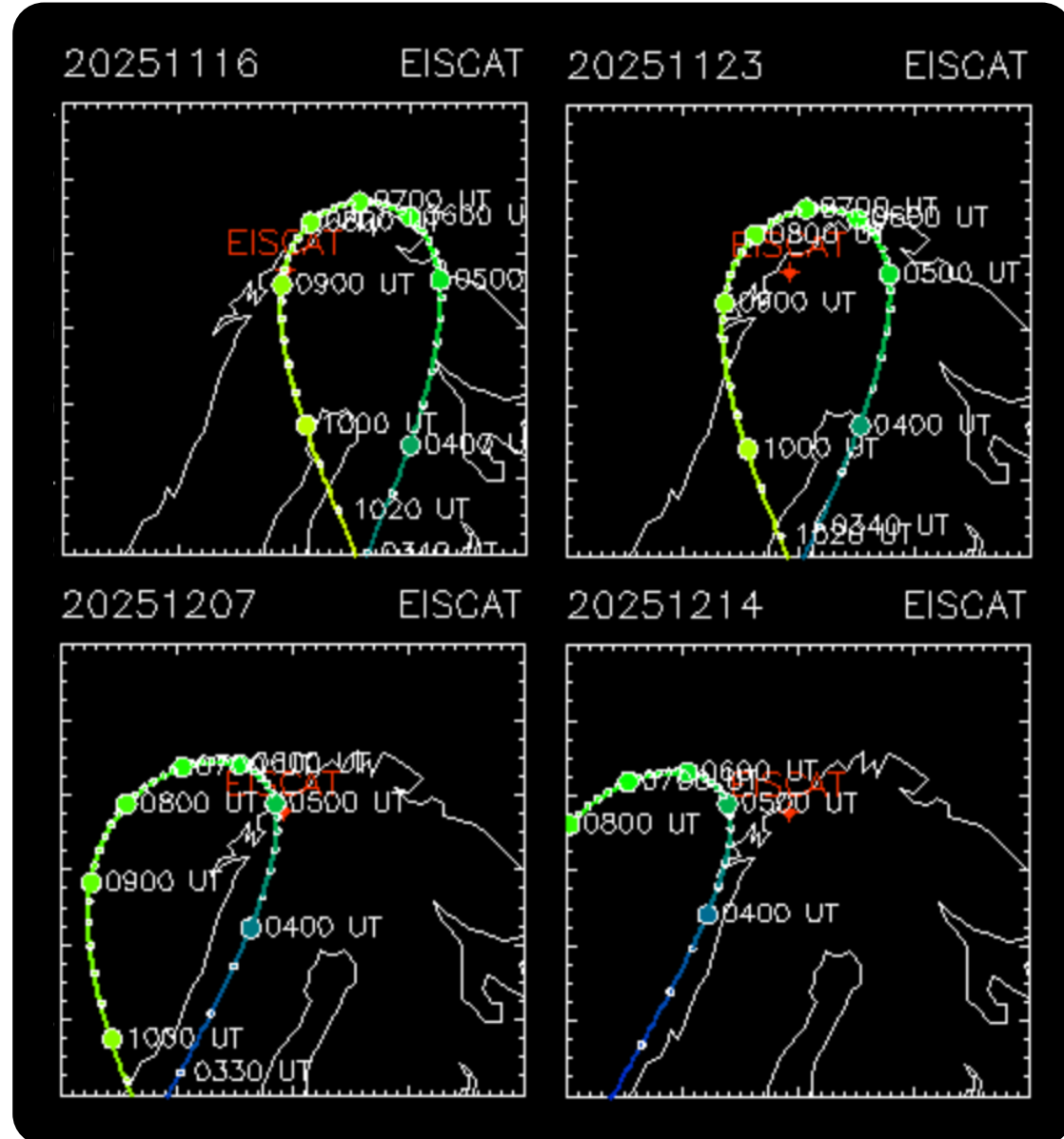
Swarm AC LT relative to Eqx



Candidates periods in Nov-Dec 2025 – 20 h in total

1. 2025-11-30 0400-0800 UT
 2. 2025-12-02 0400-0800 UT
 3. 2025-12-07 0400-0800 UT
 4. 2025-12-09 0400-0800 UT
 5. 2025-12-16 0300-0700 UT
-

Total 20 hours



Candidates periods in Jan-Mar 2026 – 48 h in total

1. 2026-01-14 0200-0600 UT
2. 2026-01-21 0100-0500 UT
3. 2026-01-23 0100-0500 UT
4. 2026-01-28 0100-0500 UT
5. 2026-01-30 0100-0500 UT
6. 2026-02-04 0100-0500 UT
7. 2026-02-06 0100-0500 UT
8. 2026-02-13 0000-0400 UT
9. 2026-02-20 0000-0400 UT
10. 2026-02-28 2300-2700 UT
11. 2026-03-08 2300-2700 UT
12. 2026-03-15 2300-2700 UT

Total 48 hours

