

EISCAT NORWAY Newsletter

Congratulations

We are happy to **congratulate Charlotte Maartje van Hazendonk** with her successful defence of her PhD: "The effect of ultra-low frequency waves on magnetosphere-ionosphere coupling at high-latitude". The ULF-waves are found to transfer energy into the upper atmosphere, and they play an important role in the coupling between the magnetosphere and the ionosphere.

Lotte was awarded her PhD by the University of Bergen but was a full time student at the University Centre in Svalbard. Her defence took place on 10th Feb 2026.

A copy of her thesis can be found here: [LINK](#)

We congratulate **Mahith Madhanakumar** with his successful defence of his PhD: "Ionospheric Plasma Structuring Across a Range of Scale Sizes and GNSS Scintillation During Different Geomagnetic Conditions". The purpose of this thesis is to expand the current knowledge on the ionospheric conditions during periods of GNSS scintillation and the associated structuring of plasma across different scale sizes in the high latitude ionosphere.

Mahith was awarded his PhD by UiT the Arctic University of Norway. During his PhD fellowship he was funded by UiT and associated with the CASCADE project (NFR Grant 326039). The defence took place at UiT on February 5th, 2026

A copy of his thesis can be found here: [LINK](#)

The New York Times:

Norway's Century-Long Watch on the Northern Lights:

<https://www.nytimes.com/2026/02/24/science/norway-auroras-northern-lights-observatory.html>

Open Position:

Tromsø Geophysical Observatory within the field of geomagnetism at UiT-Tromsø has announced a researcher position within the field of geomagnetism to work on quality control related to geomagnetic observations, research on external magnetic field topics and acquisition of external funding. [LINK](#)

Application deadline 15th March 2026.

News from Kjell Henriksen Observatory:

The KHO yearly report is now available:

kho.unis.no/doc/Reports/KHO_2025.html

News for 2026 is also found here:

kho.unis.no/index.html

Observational time on the radars:

As of now we are accepting time applications for the UHF, VHF and ESR systems only. Updates regarding EISCAT-3D will follow as and when. There is a greatly reduced number of SP hours in 2026 compared to previous years. EISCAT is working on a solution to this currently.

The next deadline on August 20th 2026 (for experiment to be run from 1/11/2026 – 28/02/2027).

Further information can be found on the UiT/EISCAT website: [LINK](#)

Remember that you need to have an account with the EISCAT VO to schedule experiments and download data. Information can be found on the website: [LINK](#)

For Norwegian users – use your FEIDE login details.

Any questions about applying for time / scheduling experiments, email Lisa Baddeley: lisab@unis.no

EISCAT Heating project:

The Heating Workgroup is continuously working towards a renovation of the current Heater and eventually building a new Heater in Skibotn. We are currently writing the Science Case for the new Heater. If you want to join the effort, have comments or suggestions, you can contact Thomas Ulich or Theresa Rexer. If you are interested in what needs to be done for the renovation or funding of the current Heater, you can also contact these two.

EISCAT Norway 2025 Project: Norwegian membership in EISCAT: is funded by the Research Council of Norway (**Contract no 350179 EISCAT2025**) **Please acknowledge in publications with EISCAT data.**

The project reference group includes Prof. Ingrid Mann, (chair), UiT; Prof. Kjellmar Oksavik, UiB; Dr. Martin Fluegge, AS; Prof. Lasse Clausen, UiO; Prof. Dag, Lorentzen, UNIS. Dr. Inger Solheim, UiT is the project administrator and Prof. Lisa Baddeley, UNIS, is observation time coordinator.

EISCAT AB New web pages eiscat.se/ has a new design and new contents

Norwegian participation in EISCAT AB Committees

Associates forum members: Pål Sørgeard (RCN), Ingrid Mann (UiT)

SAC member: Lasse Clausen (UiO)

Save the dates:

EISCAT User Meeting, at IRF Upsala, Sweden and online 19-20 May 2026.

Second General Assembly of the Norwegian Geophysical Society, 10-12 June 2026, Oslo [Link](#)

Newsletter from the Norwegian EISCAT Norway Group Norway ([EISCAT Norway | UiT](#))
e-mail: EISCAT_Norway@uit.no

EISCAT Radar School, Kilpisjärvi, 17-21 August 2026

EISCAT Symposium and 49 AM, Kiruna 24-28 August 2026. Registration deadline: 21st April 2026; Abstract deadline: 21st April 2026 [Link](#)

New PhD student:
Andrea Dahlmo Løkke has taken up a three-year position at UiT to work on her doctoral thesis in the CODIA project from January 2026. Her thesis work includes PMSE and meteor studies with EISCAT and on: “Diurnal, seasonal and secular variation in cosmic dust influx and its impact on the mesosphere and lower thermosphere region.”

Recent Publications:

Tesfaw, H. W., Vanhamäki, H., Virtanen, I., Hatch, S., Zettergren, M., & Laundal, K. (2025). Modeling regional electric field using EISCAT3D observations. *Journal of Geophysical Research: Space Physics*, 130, e2024JA033625. [Link](#)

Kian Sartipzadeh, Andreas Kvammen, Björn Gustavsson, Njål Gulbrandsen, Magnar G. Johnsen, Devin Huyghebaert, and Juha Vierinen. Plasma density estimation from ionograms and geophysical parameters with deep learning. *ANGEOS*, 44, 85–107, 2026 [Link](#)

Gupta, M. and Guio, P.: Data reduction of incoherent scatter plasma line parameters, *Ann. Geophys.*, 44, 109–122, 2026 [LINK](#)

Partamies, N., Dayton-Oxland, R., Herlingshaw, K., Virtanen, I., Gallardo-Lacourt, B., Syrjäso, M., ... & Ledvina, V. E. (2025). First observations of continuum emission in dayside aurora. In *Annales Geophysicae* (Vol. 43, No. 2, pp. 349-367). [Link](#)