



The deadline for the international peer review program for EISCAT radars is **November 1, 2024**. For more information, see the following link:
<https://eiscat.se/scientist/schedule/eiscat-peer-reviewed-program/>

Title: Cosmic Dust Injection into the Upper Earth Atmosphere
PI: Dr. Ingrid Mann
 Institute: UiT The Arctic University of Norway
 Programme: Researcher Project for Experienced Scientists, Research Council of Norway

The main objective is to study cosmic dust injection into the upper atmosphere and the resulting formation of meteoric smoke particles (MSP), the MSP interactions, and their role in the formation of ice particles. The secondary objectives are to develop the use of the new EISCAT_3D (E3D) radar for meteor and D-region ionosphere studies and to investigate the predicted space debris particles if they are found.

The project starts in January of 2025 and two Ph.D. positions will be hired associated with the project. Interested students are encouraged to contact Dr. Ingrid Mann (ingrid.b.mann@uit.no).

The EISCAT Symposium 2024 was hosted by UiT The Arctic University of Norway and occurred from July 29 to August 2, 2024. Over 100 participants registered with presentations on a wide range of topics regarding the upper atmosphere and ionosphere of the Earth.



EISCAT Symposium at UiT
Photo Credit: Devin Huyghebaert



EISCAT Symposium at Skibotn
Photo Credit: Juha Vierinen

The Local Organizing Committee at UiT thanks everyone who attended for an excellent conference.

Sincerely, the LOC,
Björn Gustavsson
Devin Huyghebaert
Inger Solheim
Ingrid Mann
Theresa Rexer

International EISCAT Radar School 2024

The International EISCAT Radar School was held August 12–16, 2024, at the Kilpisjärvi Biological Station in Finland. The school was organized by UiT The Arctic University of Norway and the international EISCAT Scientific Association. Participants attended lectures on incoherent scatter radars and the ionosphere, and were able to run their own experiment on the EISCAT radars.



EISCAT School at the Kilpisjärvi Biological Station
Photo Credit: Thomas Ulich



EISCAT School at EISCAT_3D
Photo Credit: Thomas Ulich

Organizing Committee:

Devin Huyghebaert (UiT, Norway)

Thomas Ulich (EISCAT)

Ingrid Mann (UiT, Norway)

Yasunobu Ogawa (NIPR, Japan)

EISCAT Norway Meeting

An EISCAT Norway Meeting is planned to be held near the end of November. A poll for selecting a date and time will be sent out in the coming week.

Recent EISCAT Norway Publications

ESA/NASA (2024). Exploring Earth's Interface with Space – The Scientific Case for a Satellite Mission to the Lower Thermosphere-Ionosphere Transition Region, European Space Agency (ESA), Noordwijk, The Netherlands and National Aeronautics and Space Administration (NASA), Washington DC, United States of America, ESA-EOPSM-ELTI-RP-4592, 128 pp., <http://doi.org/10.5270/ESA-NASA.LTI-SC.2024-07-v1.0>

Gunnarsdottir, T. L., Mann, I., Feng, W., Huyghebaert, D. R., Haeggstroem, I., Ogawa, Y., Saito, N., Nozawa, S., and Kawahara, T. D.: Influence of meteoric smoke particles on the incoherent scatter measured with EISCAT VHF, *Ann. Geophys.*, 42, 213–228, <https://doi.org/10.5194/angeo-42-213-2024>, 2024.

Reistad, J. P., Hatch, S. M., Laundal, K. M., Oksavik, K., Zettergren, M., Vanhamäki, H., & Virtanen, I. (2024). Volumetric reconstruction of ionospheric electric currents from tri-static incoherent scatter radar measurements. *Journal of Geophysical Research: Space Physics*, 129, e2024JA032744. <https://doi.org/10.1029/2024JA032744>

van Hazendonk, C. M., Baddeley, L., Laundal, K. M., & Chau, J. L. (2024). Detection and energy dissipation of ULF waves in the polar ionosphere: A case study using the EISCAT radar. *Journal of Geophysical Research: Space Physics*, 129, e2024JA032633. <https://doi.org/10.1029/2024JA032633>

M -T Walach, Y Soobiah, J A Carter, D K Whiter, A J Kavanagh, M D Hartinger, K Oksavik, M L Salzano, M O Archer, SMILE Winter Campaign, RAS Techniques and Instruments, Volume 3, Issue 1, January 2024, Pages 556–564, <https://doi.org/10.1093/rasti/rzae038>

Future International EISCAT_3D Meetings

Information about EISCAT and EISCAT_3D User Meetings is distributed via the mailing list moderated by EISCAT. To subscribe, email listmaster@eiscat.se.

Questions, Suggestions, Changes?

The next newsletter will be released in December, 2024. If there are any questions about EISCAT_3D, suggestions for the format of this newsletter, or changes that should be implemented, please let us know with the contact information at the bottom of the page. Thank you.