

EISCAT 3D Norway Newsletter

Newsletter Introduction

The newsletter will be released every 3 months and cover recent contributions and developments involving the Norwegian EISCAT 3D community. Norwegian EISCAT news and contributions are also welcome to be posted. If you wish to be included in the mailing list for the newsletter distribution, please use the contact details at the bottom of the page.

EISCAT Symposium

The EISCAT Symposium will be held August 15-19, 2022 in the Sundbyholm castle near the town of Eskilstuna in central Sweden. Multiple participants from the EISCAT Norway group will be in attendance. For more details on the workshop, please visit: <https://www.space.irfu.se/workshops/LPMR-EISCAT/>

EISCAT_3D Norway Meeting

An EISCAT_3D Norway meeting was held on May 10, 2022. The minutes from the meeting have been posted to the EISCAT_3D Norway website. Some of the topics discussed were:

- The potential for an EISCAT 3D Norway charter
- Revisiting Science Objectives for EISCAT 3D Norway
- Determining a set of Key Performance Indicators for EISCAT 3D Norway
- The EISCAT 3D Andøya receiver array

AGU Fall Meeting Abstract Deadline

The deadline for AGU abstracts for the 2022 Conference in Chicago, USA from December 12-16, 2022 is on August 3, 2022. Further details on the conference and the abstract submission can be found at: <https://www.agu.org/Fall-Meeting>

Posted Ph.D. Position in Space Physics at UiT

A position for a Ph.D. Fellow in Space Physics has been posted for UiT. The deadline to apply is July 8, 2022. More information can be found at: <https://www.jobbnorge.no/en/available-jobs/job/227796/phd-fellow-in-space-physics>

IAGA Early Career Scientist Workshop

The International Association of Geomagnetism and Aeronomy Workshop for early career scientists will occur outside Berlin in July, 2023. The deadline to apply for the workshop is September 30, 2022. For more information, see: <https://iaga-aiga.org/iagaschool/>

Recent Successful Ph.D. Defences

Dr. Johann Stamm

Title: Advanced Signal Processing Techniques with EISCAT3D

Date: May 24, 2022

Supervisor: Juha Vierinen

Affiliation: UiT The Arctic University of Norway

Congratulations!

Highlighting Postdoctoral Research

Dr. Lakshmi Narayanan Viswanathan

Lakshmi was a postdoctoral researcher at UiT and has recently accepted a Research Associate position at the University of Bath in the United Kingdom. One of the research topics he worked on while at UiT was examining PMSE echoes with the EISCAT VHF radar. A publication resulting from this research is listed below.

Narayanan, V. L., Häggström, I., Mann, I. (2022), Effects of particle precipitation on the polar mesospheric summer echoes observed by EISCAT VHF 224 MHz radar, *Advances in Space Research*, In press, <https://doi.org/10.1016/j.asr.2022.02.015>

We wish you all the best at your new position in the United Kingdom!

Recent EISCAT Norway Publications

Some recent publications related to EISCAT Norway are provided below. If you have a publication that should be included in the list and is missing, please contact us and it will be included in the next issue!

Bosse L, Liliensten J, Johnsen MG, Gillet N, Rochat S, et al. 2022. The polarisation of auroral emissions: A tracer of the E region ionospheric currents. *J. Space Weather Space Clim.* 12, 17. <https://doi.org/10.1051/swsc/2022014>.

S. M. Brask, S. Marholm, F. Di Mare, S. Adhikari, A. Spicher, T. Takahashi, and W. J. Miloch, "Electron-neutral collisions effects on Langmuir probe in the lower E-region ionosphere", *Physics of Plasmas* 29, 033511 (2022) <https://doi.org/10.1063/5.0079761>

Belakhovsky, V.B., Jin, Y. & Miloch, W. Day-side Scintillations of GPS Signals According to the Observations on the Svalbard Archipelago. *Bull. Russ. Acad. Sci. Phys.* 86, 348–353 (2022). <https://doi.org/10.3103/S1062873822030066>

Rietveld, M. T. and Stubbe, P.: History of the Tromsø ionosphere heating facility, *Hist. Geo Space. Sci.*, 13, 71–82, <https://doi.org/10.5194/hgss-13-71-2022>, 2022.

Yamauchi, M., De Keyser, J., Parks, G. et al. Plasma-neutral gas interactions in various space environments: Assessment beyond simplified approximations as a Voyage 2050 theme. *Exp Astron* (2022). <https://doi.org/10.1007/s10686-022-09846-9>

Future International EISCAT 3D Meetings

Information about EISCAT and the EISCAT 3D User Meetings is distributed via the mailing list moderated by EISCAT. To subscribe, email listmaster@eiscat.se. A Slack account is also organized for EISCAT 3D Discussions. To receive an invitation for the Slack channels, email channelmaster@eiscat.se.

Questions, Suggestions, Changes?

The next newsletter will be released in September, 2022. 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.

