### **International EISCAT Radar School**

Kilpisjärvi, Finland, 14-18 August 2023



# **Agenda**

- 17:00 Dinner (until 18:00, reserved in fridge for late arrivals)
- 17:50 Bus from Rovaniemi and Kittilä arrives at Kilpisjärvi Biological Station (own stop!)

### Monday, 14th August

- 08:00 Breakfast
- 10:31 Bus from Tromsø arrives at Kilpisjärvi Biological Station (own stop!) Accommodating participants
- 11:00 Welcome (*Thomas Ulich, Axel Steuwer*) Introductions, practicalities
- 11:15 EISCAT Scientific Association (Axel Steuwer)
- 12:00 Lunch
- 12:45 Introduction to Ionosphere (Anita Aikio)
- 13:30 Radar Data Examples (Anita Aikio)
- 13:45 Introduction to Radar (Maxime Grandin)
- 14:30 Coffee Break
- 15:00 Data Handling at EISCAT (Carl-Fredrik Enell, Anders Tjulin)
- 15:45 Group assignments (Thomas Ulich)
- 16:00 Group Work (*Carl-Fredrik Enell, Anders Tjulin*)Using Madrigal to find analysed EISCAT data from historical events
- 17:00 Dinner

# **Tuesday, 15th August**

- 08:00 Breakfast
- 08:30 ISR-1: Introduction to Incoherent Scatter Radar (Anja Strømme)
- 09:30 Radar Data Examples: Answers and Discussion (Anita Aikio)
- 10:00 Coffee Break
- 10:30 Radar 2 Pulse Coding, Compression, Statistical Signal Processing (Ilkka Virtanen)
- 12:00 Lunch
- 13:00 ISR-2 (*Ian McCrea*)
- 14:00 EISCAT Modes and Experiment Design Choices (Anders Tjulin)
- 14:45 Coffee Break
- 15:15 Group Work:
  - **Experiment Design and Planning**
- 17:00 Experiment Proposal Submission Deadline
- 17:00 Dinner
- 18:00 Radar Experiment
- 19:30 Radar Experiment
- 21:00 Radar Experiment
- 22:30 Radar Experiment

Version: 18 August 2023 11:01

### **International EISCAT Radar School**

Kilpisjärvi, Finland, 14-18 August 2023



# **Agenda**

#### Wednesday, 16th August

08:00	Breal	1-5-0-4
ווויאוו	Breni	ernst

- 08:30 Data Analysis and Fitting 1 (Ilkka Virtanen)
- 09:15 Data Analysis and Fitting 2: IS fitting and GUISDAP (Carl-Fredrik Enell)
- 10:00 Coffee Break
- 10:30 Phased Arrays and Interferometric Imaging (Devin Huyghebaert)
- 11:30 EISCAT\_3D (Anders Tjulin)
- 11:45 Processing and visualisation of EISCAT 3D radar data (Juan Carlos Araújo)
- 12:00 Lunch
- 13:00 Data Retrieval, Q & A (all)
- 13:30 Group Work on Experiment Data
- 14:30 Coffee Break
- 15:00 Group Work on Experiment Data
- 17:00 Dinner
- 18:00 Group Work on Experiment Data
- 19:00 Sauna at shore / Female
- 20:30 Sauna at shore / Male
- 22:00 End of Sauna

# **Thursday, 17th August**

- 08:00 Breakfast
- 08:30 History of Radar (Thomas Ulich)
- 09:15 Interpreting Incoherent Scatter Radar Data (Ian McCrea)
- 10:00 Coffee Break
- 10:30 Pitfalls in Geophysical Data: Dealing with Errors (*Thomas Ulich*)
- 11:15 KAIRA Kilpisjärvi Atmospheric Imaging Receiver Array (Antti Kero)
- 11:45 Prepare for excursion prepare to be outside all afternoon
- 12:00 Lunch
- 13:00 Excursion:

Transport to KAIRA

- 13:15 Visit to KAIRA
- 14:00 Transport to Skibotn
- 14:45 Visit to Skibotn EISCAT 3D site
- 15:45 Transport to Waterfall
- 16:00 Visit to Waterfall
- 16:30 Transport to Kilpisjärvi Biological Station
- 17:00 Dinner
- 18:00 Group Work on Experiment Data

Version: 18 August 2023 11:01

# **International EISCAT Radar School**

Kilpisjärvi, Finland, 14-18 August 2023



# Agenda

Frid	ay,	<u> 18th</u>	Aug	ust

- 08:30 Q & A (all)
- 09:15 Active Ionospheric Heating (Antti Kero)
- 10:00 Check Out Time
- 10:00 Coffee Break
- 10:30 European Space Agency (*Anja Strømme*) SWARM Mission
- 11:15 ISR Science Highlights (Ian McCrea et al.)
- 12:00 Lunch
- 13:00 Finalising Group Work on Experiment DataSubmission deadline for presentation: 15:00 (end of coffee break)
- 14:00 Coffee Break
- 14:30 Group Presentation, randomly selected
- 15:00 Group Presentation, randomly selected
- 15:30 Group Presentation, randomly selected
- 16:00 Group Presentation, randomly selected
- 16:30 Wrap-up and closing
- 17:00 Dinner
- 17:50 Bus departs for Tromsø from Kilpisjärvi Biological Station
- 19:00 Sauna at shore / Male
- 20:30 Sauna at shore / Female
- 22:00 End of Sauna

# Saturday, 19th August

# 08:00 Breakfast

Departure of vans

- 10:00 Check Out Time
- 10:30 Bus departs for Kittilä and Rovaniemi from Kilpisjärvi Biological Station

Version: 18 August 2023 11:01