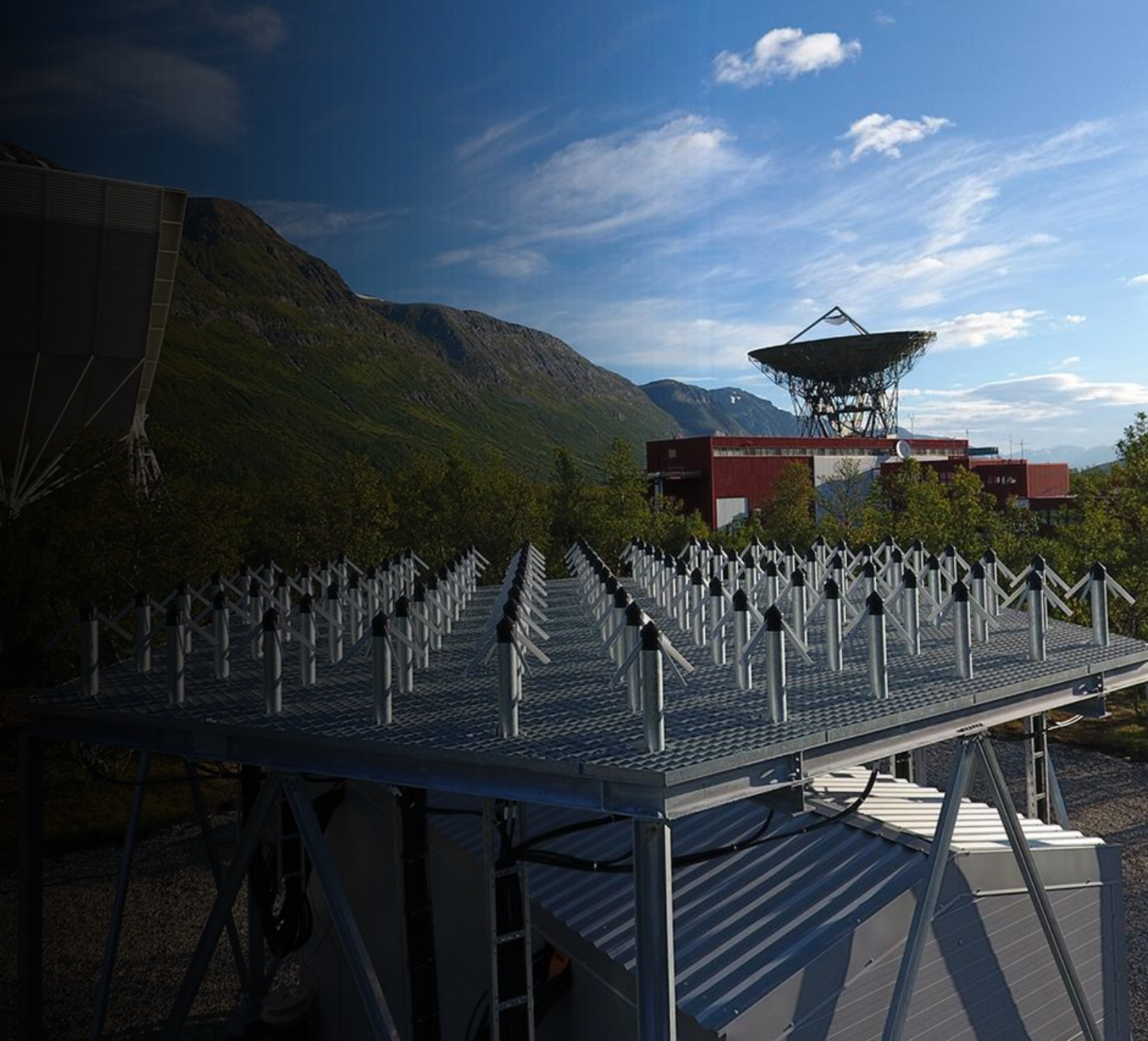




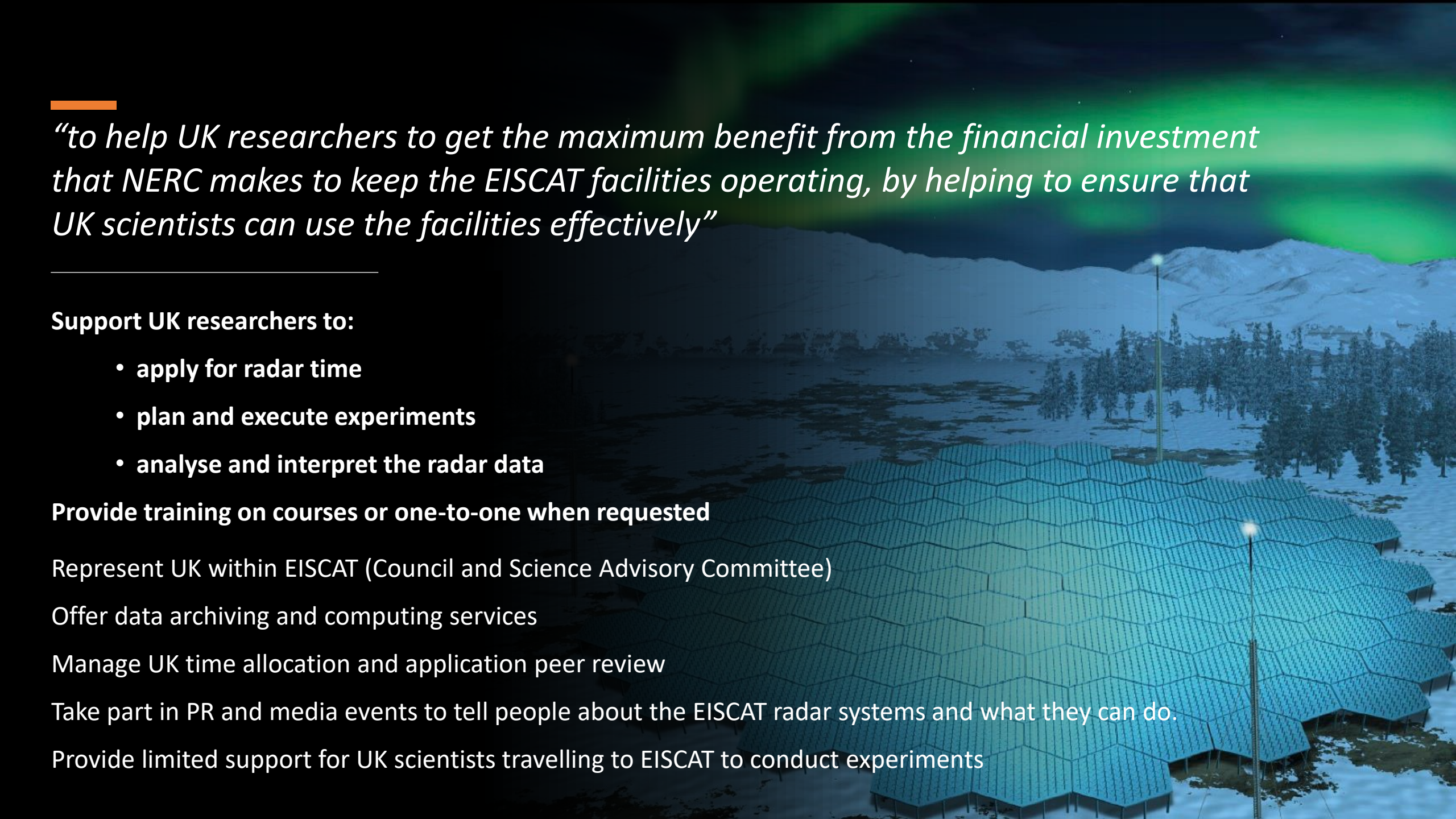
# The UK EISCAT Science Support Group

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Andrew J. Kavanagh  
British Antarctic Survey







*“to help UK researchers to get the maximum benefit from the financial investment that NERC makes to keep the EISCAT facilities operating, by helping to ensure that UK scientists can use the facilities effectively”*

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**Support UK researchers to:**

- **apply for radar time**
- **plan and execute experiments**
- **analyse and interpret the radar data**

**Provide training on courses or one-to-one when requested**

Represent UK within EISCAT (Council and Science Advisory Committee)

Offer data archiving and computing services

Manage UK time allocation and application peer review

Take part in PR and media events to tell people about the EISCAT radar systems and what they can do.

Provide limited support for UK scientists travelling to EISCAT to conduct experiments



# The UK EISCAT Science Support Team

Currently 4 members – 1.2 FTE  
Partnership between RAL and BAS  
Supported by NERC via NCAS

A NERC facility subject to a steering  
committee drawn from the community

Ian McCrea (0.15 FTE)  
Group Leader



Yulia Bogdanova (0.2 FTE)



Andrew Kavanagh (0.4 FTE)  
UK delegate to EISCAT SAC



Mervyn Freeman (0.1 FTE)  
UKRI delegate to EISCAT Council



Lucky to be supported by Steve Crothers and Matthew Wild



# UK Time applications (current rules)

*We do not yet know the landscape for EISCAT 3D experiments, hours or access.*

- EISCAT hours must be included in a grant application
  - At the moment 1 hour = £1.5k
  - Grant holder must also submit an application in the usual time application rounds (February & August)
  - These hours are assured (already been peer reviewed), review is light touch and more a feasibility study (opportunity to seek advice).
  - Hours must be scheduled in the usual manner: by the 10<sup>th</sup> day of the preceding month (i.e. an experiment for December must be scheduled by 10<sup>th</sup> November)
- UK gets 150 - 200 hours of radar time in a year at the moment
- There WILL be changes and we will keep everyone informed
  - E.g. cost of time may vary depending on type of experiment

The image shows a form titled "Application for UK Time on EISCAT Facilities". It includes sections for "Scientific Objectives", "Title of Experiment", "Address for Correspondence", "Telephone", "Fac", "Email", "Basic Description of the Experiment", "Technical Description of the Experiment", "EISCAT Operations Required", "If Other, please give details in Experiment Description", "Total Accounting Time Needed (hours)", and "Mantland". There are also checkboxes for "VHF", "VHF", "Vertical", "Horizontal", "Tristatic", "Kursna receiver", "Sodankylä receiver", "HF heating/radar", and "SPEAR".

## HQ Operations Schedule, December 2020

Year: 2020	<input checked="" type="checkbox"/> Scheduled	<input checked="" type="checkbox"/> VHF radar	<input checked="" type="checkbox"/> Tristatic UHF	<input checked="" type="checkbox"/> Tromsø UHF
Month: December	<input checked="" type="checkbox"/> Requested	<input checked="" type="checkbox"/> Kursna receiver	<input checked="" type="checkbox"/> Sodankylä receiver	<input checked="" type="checkbox"/> Svalbard radar
	<input checked="" type="checkbox"/> Archived data	<input checked="" type="checkbox"/> HF heating-radar	<input checked="" type="checkbox"/> SPEAR	

[en experiment](#)  
[analysis results](#)  
[and](#)  
[sound](#)

[audio menu for printing](#)  
[\[connect menu\]](#)

ant modified Wednesday 30  
 September

2020-12-01	Tue	0800	0400	0800	1200	1400	2000	2400	THO	SHARN	AA(2)
2020-12-02	Wed	.	.	.	1111	.	.	.	THO	SHARN	AA(1)
2020-12-03	Thu	.	.	.	.	.	.	.	THO	SHARN	AA(1)
2020-12-04	Fri	.	.	.	.	.	.	.	THO	SHARN	AA(1)
2020-12-05	Sat	.	.	.	111						

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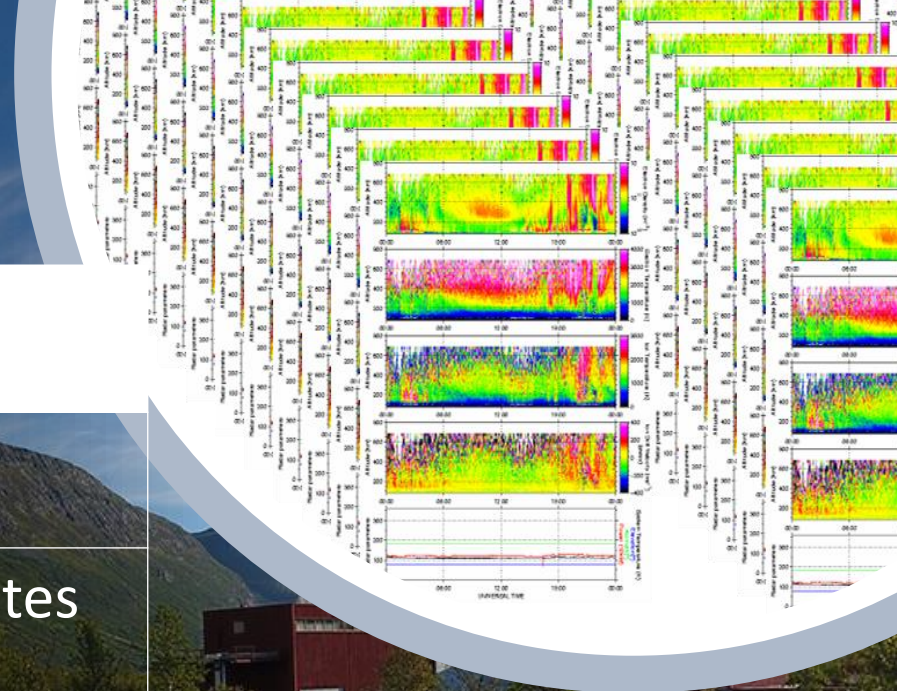
- [illegible]



# EISCAT 3D data

Data Level:	Products	Storage	Access
Level 1	Voltages	EISCAT	None
Level 2	Lag profiles (‘raw data’)	EISCAT & Mirror sites	Associates
Level 3	Parameters (default analysis)	EISCAT & Mirror sites	Open

- EISCAT is developing analysis and visualization software
- Official Mirrors should mirror both storage and processing for ALL users
- Data download is only level 2 or 3
- UK may well be a mirror site (RAL)





- Directly linked into decision making process via SAC and Council as E3D comes on-line.
- Actively involved in determining new experiments *you can be too!*
- Legacy of experience and contacts in the Association
- There is a need to consider how to manage data handling and visualization  
*something to consider for the application practice with AMSIRs?*
- Initial experiments may be relatively basic BUT still much more powerful than existing experiments.

<https://www.eiscat.rl.ac.uk/>

The website is going through an upgrade and new information will appear there when we have it.

