



Circumpolar and Cryospheric Earth Observation

EO Technology Cluster Kickoff Meeting
Burlington House, London
5th May 2010

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UK Polar Network



What is the UK Polar Network?

The UK Polar Network (UKPN) is the UK branch of the Association of Polar Early Career Scientists (APECS).

IPY legacy: “to ensure continued polar research and literacy by encouraging the development of the next generation of polar researchers and educators”.

The aims of UKPN are threefold:

- To provide networking between and support for early career polar researchers.
- To provide education and outreach with regards polar issues to young people.
- To provide information via newsletters and website.

The UKPN committee consists of volunteers from across the UK primarily at Ph.D. and post-doc level.

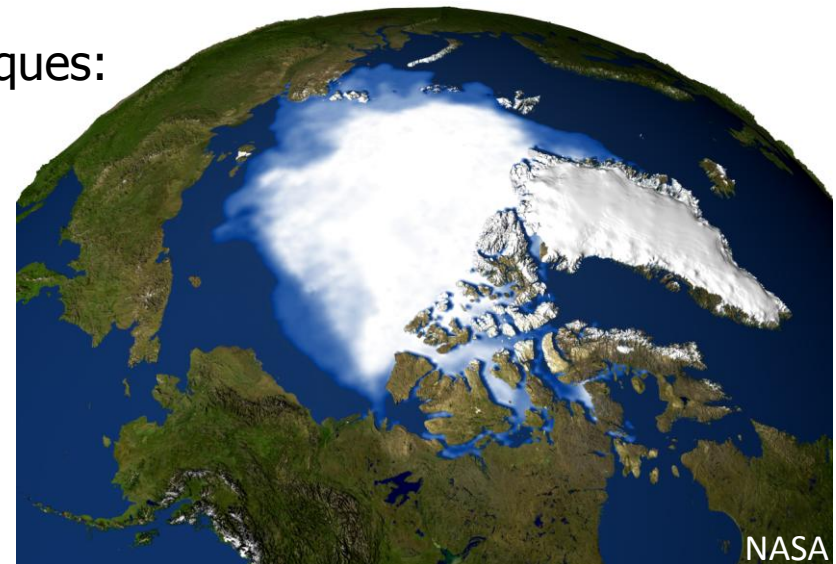
Summary of Thematic Activities

Modern techniques of remote sensing have profoundly improved our understanding of the Earth polar regions and the cryosphere in general.

- Arctic Ocean sea ice extent
- Flow velocity & elevation change of Antarctic or Greenland Ice Sheets
- Snowcover / glacier monitoring – Arctic, Alps, Andes, Himalaya, etc.

Using a variety of Earth observation techniques:

- Multispectral / hyperspectral
- Radio echo sounding
- Laser scanning
- Gravimetry
- (In)SAR

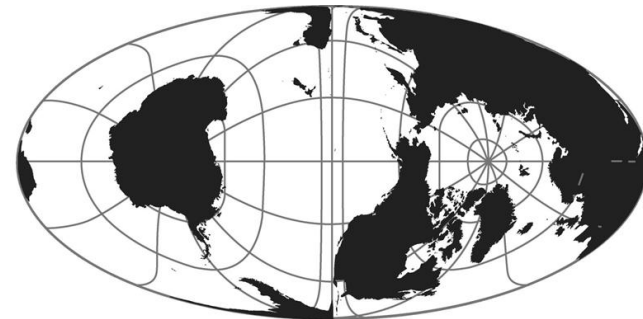


Planned Activity: Workshop 1

Circumpolar Remote Sensing Workshop Day

September 20, 2010 - Scott Polar Research Institute, Cambridge

- One day event directed at postgraduate students & early postdoctoral researchers
- Combination of lectures, panels, and potentially practical sessions
- Suggested topics for sessions include:
 - New techniques in polar remote sensing
 - Open access remote sensing & GIS
 - Imaging climate change, the cryosphere & beyond
- Collaboration with 11th International Circumpolar Remote Sensing Symposium, including a shared reception and poster & presentation prizes

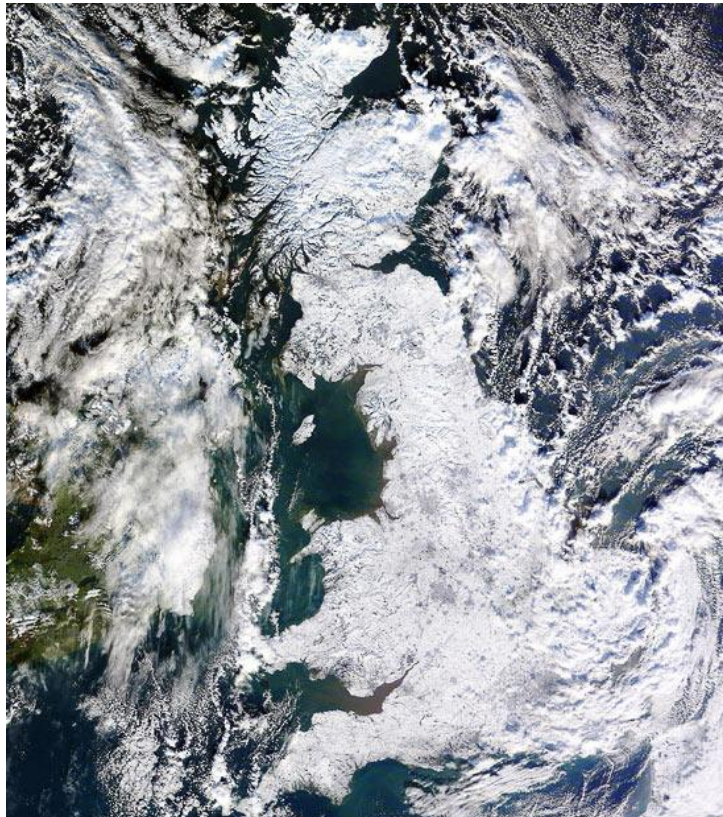


Scott Polar Research Institute

University of Cambridge

Planned Activity: Workshop 2

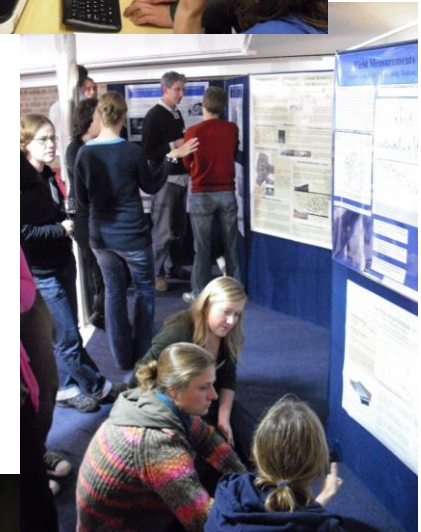
Multiday event to be held in 2011, Venue TBD



- Longer event to give participants more time to engage with the workshop material and with more experienced researchers and mentors
- Mix of research talks, practical sessions, and seminars on important career skills
- Include mandatory student oral presentation or poster session
- Encourage UKPN membership to help organize and run the event, for further experience

Getting Involved

- Workshops are open to all those interested and in an appropriate field
- Publicize the events among your students, colleagues, etc. (www.polarnetwork.org)
- Contribute to the workshops yourself
 - Suggestions sessions
 - Give a lecture, practical, or seminar
 - Provide a venue
 - Encourage participation
- Join the UKPN mailing list



Upcoming UKPN Events

- Mentor panel at International Glaciological Society British Branch Meeting
Aberystwyth, September 2010



- Physical Evidence of Polar Environmental Change Workshop
Loughborough, October 2010



- UKPN Science Communication Workshop
Aberdeen, January 2011



- Mentor panel and Education & Outreach events at the 11th International
Symposium on Antarctic Earth Sciences (ISAES)
Edinburgh, July 2011



Thanks for your attention!