

WHO WE ARE

The Polar Research Coordination Network aims to connect the Polar Science, Data and High-Performance and Distributed Computing (HPDC) communities to enable deeper penetration of computing methods and cyberinfrastructure into the polar sciences.



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NSF EarthCube Research Coordination Network for High-Performance Distributed Computing in the Polar Sciences

polar-computing.org

Calling all Polar Scientists
and HPDC experts interested
in science

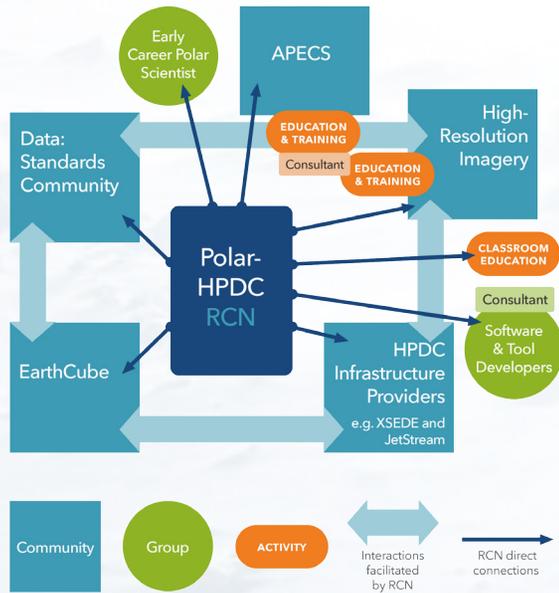
See our list of upcoming events
inside and watch our Twitter feed
[@PolarComputing](https://twitter.com/PolarComputing) for announcements
and community activities

Image:
Courtesy Ted Scambos, NSIDC

FIND OUT MORE
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THE VISION

Multi-dimensional, sustained and ground-breaking engagement between the Polar Science, Data Science and HPDC communities



THEMES

Current and future challenges in Polar Science using high-resolution imagery

Build and strengthen partnerships between Polar and Cyber/Computer Scientists

Education and training

Data management and cyberinfrastructure



EVENTS

XSEDE Conference

Miami, 17 - 22 July 2016

The RCN is partnering with XSEDE'16 to organize a two day Polar Science themed training to HPC, Computing Challenge and Hackathon. Vist polar-computing.org for updated information.

XSEDE Training

Come take your first Steps into Using HPDC Resources

- Introduction to using HPDC systems
- Introduction to Python for Science
- Data management for the Polar Sciences

Polar Computing Challenge Workshop

A gathering of XSEDE campus champions, and others involved in using HPDC resources for science, to talk about how HPDC can and should serve the Polar Science domain.

Hackathon

Hacking Polar Computational Challenge

Calling all Polar Scientists

What could you do with a team of high-performance computing experts and two dedicated days?

We are looking for Polar domain science challenges that high performance computing (HPC) experts and technologies could help advance. We are planning a hackathon-style event that could offer you: some free coding, access to better hardware and the know-how of using such, or simply fresh computing eyes. If your challenge is accepted we will invite you (or a member of your team) to attend the 2016 XSEDE Conference at no cost, to work with an HPC team in person through this hackathon on your specific problem.

Suitable challenge ideas:

Any repetitive data processes that you currently do either manually or in a sequential manner. These might include:

- Data processing or analysis procedure that takes hours running on your laptop
- Visualizing your data in a new way
- Integrating multiple data sets
- Manipulating large files or many files

SCAR BoF

Kuala Lumpur, 20-30 August 2016

At the next Scientific Committee on Antarctic Research (SCAR) Biannual meeting, we will be bringing together Antarctic researchers dealing with HPDC challenges from the international Antarctic community. We will discuss common challenges, share solutions, and brainstorm how lingering bottlenecks might be overcome. We will also discuss what skills polar scientists need to learn in order to take advantage of HPDC resources, and how we (the polar cyberinfrastructure community) might share in best practices and materials for training the next generation of Antarctic scientists.

Spring Imagery Workshop

Minneapolis, June 2016, by invitation only

Hosted by the Polar Geospatial Centre, we are inviting senior PIs, accompanied by early career researchers, to attend a two day workshop on the integration of HPDC and satellite imagery. Senior researchers will assess the long-term needs of the imagery community for high performance computing, networking, and imagery storage, and to draft a proposal towards achieving such, while the early-career researchers will be trained in the basic elements of utilising HPDC resources.

Image: NDSIC Courtesy Alice O'Connor

