

TEACHERS & RESEARCHERS TREC

EXPLORING & COLLABORATING

www.arcus.org/trec/

About the Program

"I don't think I have ever seen my three classes so motivated and enthusiastic about a unit. I have enjoyed every minute of teaching it. I don't know if it is because they are connected to my experience in Siberia last year, just ready to learn this stuff, or if my excitement is contagious."

Amy Clapp, 2004 TREC Teacher

In Teachers and Researchers Exploring and Collaborating (TREC), K–12 teachers participate in arctic field projects, working closely with researchers to improve science education through experiences in scientific inquiry. TREC builds on the scientific and cultural opportunities of the Arctic to link research and education through topics that naturally engage students and the wider public.

The main components of TREC include:

Arctic Field Research Experience: TREC teachers participate in arctic field research for two or more weeks during spring/summer. Selected research projects represent the leading edge of scientific inquiry and include the K–12 teacher as an integral part of the science team.

Classroom and Public Connections: Teachers and researchers connect with classrooms and the broader public through the use of Internet tools.

Professional Development: TREC provides professional development opportunities for teachers who participate in field research projects as well as educators who connect through the Internet.

Sustained Community and Support: TREC supports a sustained community of teachers, scientists, and the public through traditional workshops, Internet seminars, an e-mail listserve, and teacher peer groups.

For more information, see the TREC website: www.arcus.org/trec/ or contact Helen Wiggins at ARCUS (907)-474-1600; helen@arcus.org.

TREC Projects

The arctic field projects and their locations include:

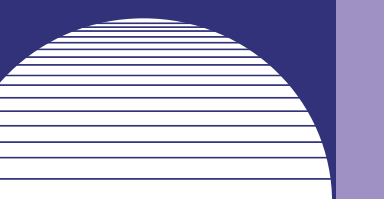
- Snow Photochemistry: Summit, Greenland
- Shelf-Basic Interactions: USCGC Healy, Arctic Ocean
- Biogeochemical Fluxes: Lena River, Siberia
- Models for the Arctic Tundra, Organic Pollutants, Plant Diversity: Toolik Lake, Alaska
- CO₂ Flux: North Slope, Alaska
- Macro-invertebrate Survey: Caribou Poker Creek, Alaska
- Frost-Boil Biocomplexity: Prince Patrick Island, Canada
- Holocene Climate Change: Svalbard, Norway
- Water chemistry and continental runoff: Yukon & Mackenzie Rivers, Canada & Alaska
- Holocene and modern climate processes: Svalbard, Norway
- Tundra vegetation: Toolik Field Station, Alaska
- Geophysics and sediment cores: USCGC Healy, Arctic Ocean
- Carbon and water cycles: Thule, Greenland
- Snow geese and salt marsh habitat: Ikpikpuk River delta, Alaska.

How to Participate

Teachers, researchers, classrooms, and the general public are encouraged to visit the TREC website: www.arcus.org/trec/. Here you will find information on joining calls from the field, online message boards, photo albums, "webinar" presentations, online learning resources, and information on how to subscribe to the education listserve.



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