Education Outreach and Communication

Elena Sparrow, Christa Mulder, Katie Spellman, Mary Beth Leigh, Glenn Juday, Janice Dawe, Christine Butcher, Kenji Yoshikawa, Jill Johnstone, Gary Kofinas, Knut Kieland, Ted Schuur, Todd Brinkman, Jason Downing, Marie Thoms, Alison York, Shalane Frost
EO Activities/Programs

Science Integration with the Arts and Humanities

• In Times of Change (ITOC) – Mary Beth Leigh

• One Tree K-20 STEAM Education - Jan Dawe, Zachary Meyer, Glenn Juday
Art acts as a bridge or “hook” in to OneTree’s STEM (science, technology, engineering, and math) activities.

Learning is broader and deeper with STEAM.
EO Activities/Programs

- **Science Fair/Symposiums** – Coordination and judging, mentoring
- **Videos**
- **Courses** - Radiocarbon in Ecology and Earth System Science; Methods in Interdisciplinary Research
- **High School Summer Research Internship**
- **GK-12 Changing Alaska Science Education**
- **Permafrost/Active Layer Monitoring Project**
EO Activities/Programs

• Research Experience for Undergraduates
• Research Experience for Teachers
• Permafrost/Active Layer Monitoring Project
• Citizen Science
• IGERT graduate program in Regional Resilience and Adaptation (RAP)
EO Activities/Programs

• Professional development Workshops- for teachers

- GLOBE: educators from Anchorage, Fairbanks, Juneau, Nenana and Nuiqsut; Trained teachers from Anchorage subsequently trained other teachers from the Anchorage School District, in the atmosphere/weather measurement protocols.
EO Activities/Programs

EO Activities

• Signs of the Land Climate Change Education Summer Camp
International EO Activities

• Professional development follow-up
  - Meeting with 30 educators from different regions of the Philippines.
  - visits to schools in Luzon province

• CGAIN Workshop in India - GLOBE Alumni from Benin, Czech Republic, Egypt, Thailand, and U.S
EO Outcomes

• Development of Teacher Leaders/Trainers
  – multiplier effect
  – Teacher awards
• Student Projects
• School Projects
• Student Leaders
EO Opportunities

- Summer Research Experience/Internship - Upward Bound High School Students
- LTER Children’s Book
- Emerging Leaders Institute
Future Directions