LTER Education and Outreach Committee Update - 2018

Kari O’Connell
Oregon State University
LTER Education & Outreach Activities

- K-12 Resources
- Educator Professional Development
- Field Trips & Tours
- REUs
- Citizen Science
- RETs
- Community Outreach
- Undergrads
- Stakeholder Resources
- Data Nuggets/Data Jams
Cross-site initiatives
Schoolyard Book Series

- One Day in the Desert
  - Written by Anna Rapp
  - Illustrated by Christian Wedel

- The Golden Forest
  - Exploring a Coastal California Ecosystem
  - Written by Carol Blanchette & Jenifer Dugan
  - Illustrations by Michael Rothman

- Save Our Stream!
  - Text by Colin Polisky and Jane Tucker
  - Illustrations by Julia Miner
Building Ecological Data Literacy

The **LTER Data Jam** challenges students to create a product that conveys the story of long-term ecological data to a non-scientist audience. It has now been implemented at:

- Jornada (476 students)
- Luquillo (~150 students)
- BES (44+ students)

**NSF proposal to DRK12 program in November 2017**: **Collaborative Research: Data Jam: Supporting the Scientific Practice of Data Analysis through Creative Investigations of Long-Term Ecological Datasets.** McGee (P.I., LUQ), Bestelmeyer (JRN), Berkowitz (BES), O’Connell (AND)
Connect the students virtually
Sharing mentor resources
Coordinated cross-site program
Leveraged Funding

• **Luquillo** received a RAPID grant to use the science of hurricane resilience to foster student appreciation of science.

• **Harvard Forest** has received additional funding for their Schoolyard Ecology program from private foundations including the Highstead Foundation and a local family foundation.

• **Bonanza Creek** received funding from NASA to engage educators, community members and K-12 students in exploring the impacts and feedbacks of a warming Arctic using the GLOBE program.

• **Baltimore Ecosystem Study** received funding from the NSF DRK12 program to incorporate LTER data into Baltimore Public Schools chemistry curriculum.

• **Hubbard Brook** and **Harvard Forest** received funding from the Advancing Informal STEM Learning (AISL) program at NSF to embed public engagement with science.

• **Andrews Forest** received funding from the University School Partnerships program to develop applied math lessons based on Andrews LTER datasets.
2018 Proposed Working Groups for ASM

• Making LTER Data Accessible and Useful for Students and Educators
• Connecting SLTER to Formal Education (Next Generation Science Standards, Common Core State Standards for Math)
• Data Analysis: Tools for Students
• Developing Curricula with Inspiration from the Children’s Book Series
• Linking Art and Science
• Cross-site REU