# LTER Education and Outreach Committee Update - 2018

Kari O'Connell

**Oregon State University** 



#### LTER Education & Outreach Activities



## Cross-site initiatives

#### Schoolyard Book Series





Text by Colin Polsky and Jane Tucker

Illustrations by Julia Miner

Written by Carol Blanchette & Jenifer Dugan Illustrations by Michael Rothman

## Building Ecological Data Literacy

The **LTER Data Jam** challenges students to create a product that conveys the story of longterm ecological data to a nonscientist 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)

#### Undergraduate Level Cross-Site Initiatives



#### **REU X LTER**

Connecting 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