Climate Science

The following list includes all active projects.

You may also access past projects.

- **Biocomplexity and the Habitable Planet** —
  
  **Principal Investigator:** Gilly Puttick and Brian Drayton
  
  **Funders:** National Science Foundation
  
  **Website:** http://biocomplexity.terc.edu

  TERC and the Institute for Ecosystem Studies are developing an innovative high school curriculum designed around the dynamics of complex and evolving coupled natural and human (CNH) systems. Materials are drawn from research at the Long-Term Ecological Research sites. [More »]

- **Biocomplexity-Transforming Innovative High School Curriculum** —
  
  **Principal Investigator:** Brian Drayton and Gilly Puttick
  
  **Funders:** National Science Foundation
  
  **Website:** http://biocomplexityUDL.terc.edu

  This project has developed a multimedia-enhanced version of the TERC-developed Biocomplexity and the Habitable Planet (DRL-0628171) curriculum, a high school capstone science course. The Biocomplexity developers designed [More »]

- **Building Systems from Scratch** —
  
  **Principal Investigators:** Gilly Puttick, Eli Tucker-Raymond
  
  **Funder:** The National Science Foundation
  
  **Website:** buildingsystems.terc.edu

  The Building Systems from Scratch project will develop and study a education program that integrates computing into middle school Earth systems science by interweaving game design and science learning. [More »]

- **Confronting the Challenges of Climate Literacy** —
  
  **Principal Investigator:** Tamara Shapiro Ledley
  
  **Funders:** National Science Foundation
  
  **Website:** http://cleanet.org/

  This project is designing, developing, and testing a climate science curriculum and professional development model for high school students and their teachers. [More »]

- **Expansive Meanings and Makings in ArtScience (EMMAS)** —
  
  **Principal Investigator:** Ann S Rosebery and Beth Warren
  
  **Funders:** National Science Foundation
  
  **Website:** http://chechekonnen.terc.edu/

  EMMAS offers an opportunity to investigate and demonstrate the untapped potential of an artscience approach to learning and teaching in high school for youth from communities historically underrepresented in science. It builds on an earlier project, Educating the Imagination (2011-2013), which developed a summer artscience studio program at Boston Arts Academy focused on wide-ranging explorations of water. [More »]

- **Innovate to Mitigate** —
  
  **Principal Investigators:** Gilly Puttick and Brian Drayton
  
  **Funder:** National Science Foundation

  This project is designing and conducting a crowd-sourced open innovation challenge to young people of ages 13-18 to mitigate levels of greenhouse gases. The goal of the project is to explore the extent to which the challenge will successfully attract, engage and motivate teen participants to conduct sustained and meaningful scientific inquiry across science, technology and engineering disciplines. [More »]

- **The Climate Lab** —
  
  **Principal Investigators:** Brian Drayton and Gilly Puttick
  
  **Funder:** National Science Foundation

  TERC and the Manomet Center for Conservation Sciences are developing and testing an education partnership model for climate change education that features inquiry-oriented and place-based learning. [More »]