



Connecting Citizen Science with Remote Sensing

January 24, 26, & 31, 2023

11:00-12:30 (English) or 14:00-15:30 (Spanish) EST (UTC-5)

This training will provide attendees an overview of citizen science efforts that use Earth Observations, and how to engage with community members in a supportive and meaningful manner to achieve project goals. Attendees will also be provided with case-study examples of successful citizen science projects, in particular those funded under NASA's Applied Sciences Program. We will highlight projects like NeMO-Net, a global coral reef classification with 2D and 3D images application combined with machine learning; Floating Forests, a Giant Kelp monitoring platform where participants can classify kelp in Landsat images; Snapshot Wisconsin, a project that uses images of wildlife from trail cameras to assist with habitat mapping; Soundscapes to Landscapes, where bird diversity in California is monitored by identifying specific species through sound recordings; and the GLOBE Observer Mosquito Habitat Mapper, an application that pairs satellite-based observations of temperature, water, and vegetation with sites where citizen scientists report potential mosquito habitat and presence of mosquito larvae.

Part 1: Overview of Citizen Science

Trainers: Juan L. Torres-Pérez, Amber McCullum, Britnay Beaudry

- Overview of citizen science
- Effective and equitable community engagement
- Building a citizen science application
- Data standards and quality assurance

Part 2: NASA's Citizen Science for Earth Systems Program

Trainers: Juan L. Torres-Pérez, Amber McCullum, Britnay Beaudry

- Overview of NASA's Citizen Science Program
- Coastal/Oceans Case Study Examples:
 - NeMO-Net
 - Floating Forests

Part 3: Citizen Science at NASA with Land Applications

Trainers: Juan L. Torres-Pérez, Amber McCullum, Britnay Beaudry, Russanne Low, Peder Nelson

- Land Case Study Examples:
 - Snapshot Wisconsin
 - Soundscapes to Landscapes
 - GLOBE Observer Mosquito Habitat Mapper and Land Cover Tools
 - Citizen Science Supporting Community Health and Sustainability



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