

National Aeronautics and
Space Administration



EXPLORE SCIENCE

**NASA Earth Science Education Collaborative (NESEC)
December 2019 Nuggets**

GO on a Trail Data Challenge

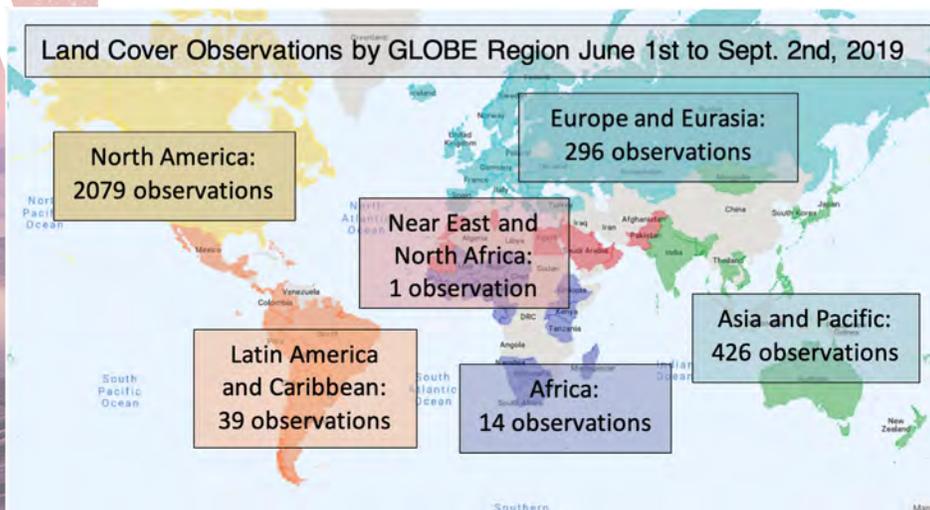


GO on a Trail (GLOBE Observer on a Trail) is a citizen science data challenge jointly hosted by the NESEC-led GLOBE Observer team and Lewis and Clark National Historic Trail between June 1 and September 2, 2019. It was designed in collaboration with both Trail and NASA-funded scientists to document land cover in each of the major ecoregions along the Trail and to assess land cover change at significant historical sites.

Volunteers took land cover observations at designated sites along the Trail (most points) or anywhere in the trail corridor (fewer points per observation). People outside the Trail could participate by collecting as many land cover observations as possible.

Lewis and Clark NHT and GLOBE Observer conducted a joint social media campaign with shared daily posts, and a Facebook Live/Instagram/Snapchat story. The latter had a reach of 2.2 million.

More information: <https://observer.globe.gov/go-on-a-trail>
POC: Holli Kohl, holli.kohl@nasa.gov



GLOBE Observer Supports NASA at the Albuquerque International Balloon Fiesta

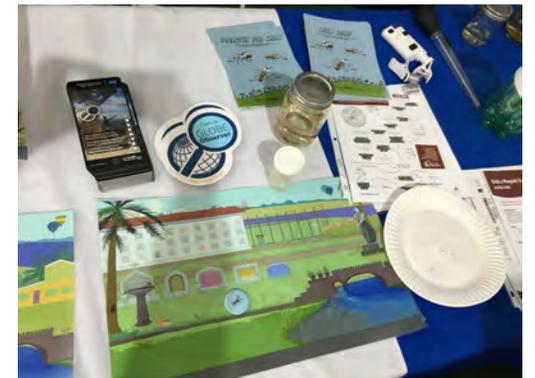


GLOBE Observer supported the NASA booth at the Albuquerque International Balloon Fiesta in Albuquerque, NM, October 5-13, 2019. The GLOBE Observer table focused on mosquitoes. It included an interactive mosquito habitat game, live mosquito larvae, instructions on how to build a mosquito traps, a display about how to observe mosquito habitats and mosquito larvae with the GLOBE Observer app, and information about mosquito-borne diseases. Two local NASA Solar System Ambassadors helped staff the GLOBE Observer table. An estimated 866,414 people attended Fiesta.

More Information:

<https://www.nasa.gov/centers/armstrong/features/NASA-Focuses-on-Future-Flight-at-Fiesta.html>

POC: Holli Kohl, holli.kohl@nasa.gov



GLOBE Observer at NAI

The NASA Earth Science Education Collaborative was represented at the National Association for Interpretation Annual Conference, held in Denver, CO from November 11 to 15, 2019, through several presentations focused on GLOBE Observer (GO):



- During a pre-conference workshop organized by Earth to Sky, Kristen Weaver (NASA GSFC/NESEC) and Heather Mortimer (NASA GSFC/NESEC) described the GO app and how it can be used in a variety of interpretive settings, and were able to have one-on-one conversations with workshop attendees about applications for their specific locations. (top photo)
- As part of the Marketplace of Ideas, Heather shared the different levels of possible engagement with the GLOBE Program and received feedback about the GO toolkit for informal educators and the activities it includes. (middle photo)
- Results and lessons learned from the GO on a Trail citizen science data collection challenge were presented as a formal talk by Kristen Weaver and Ashley Danielson, project partner from the Lewis and Clark National Historic Trail (and also a 2019 winner of the National Park Service's prestigious Freeman Tilden Award for the Midwest Region). (bottom photo)
- Several possible future collaborations have already come out of discussions and networking at the conference.

POC: Kristen Weaver,
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This activity was conducted under the NASA Earth Science Education Collaborative Science Activation award.

GLOBE Observer and MAIANSE at the 2019 Tribal GIS Conference



Jeannie Allen teaches workshop participants how to use the GLOBE Observer App's Land Cover tool

Representing the Minority University Research and Education Project (MUREP) for American Indian and Alaska Native Science, Technology, Engineering and Mathematics (STEM) Engagement (MAIANSE) and GLOBE Observer, NESEC supported the Tribal GIS 2019 conference, at Southwest Indian Polytechnic Institute in Albuquerque, NM, Nov. 18-20. NESEC:

- Staffed a NASA booth, Nov. 19-21
- Gave a GLOBE Observer workshop session on Nov. 18 in collaboration with SIPI, the University of New Mexico, and the South Central Climate Adaptation Science Center
- Gave a 30-minute presentation on MAIANSE and GLOBE Observer on Nov. 21.

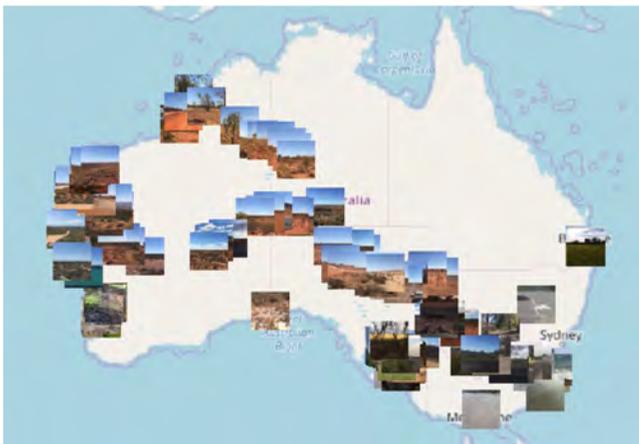
When asked which part of the Nov 18 workshop was most valuable, one participant wrote: "NASA Globe Observer. I teach high school, so this will be applied immediately in the classroom."

POC: Jeannie Allen, jeannette.e.allen@nasa.gov



This activity was conducted under the NASA Earth Science Education Collaborative Science Activation award.

GLOBE Observer and Scouts Australia



Top: One of the winning Scouts using GLOBE Observer, photo used with parental permission.

Bottom: Land cover data collected during the competition

Australia's land cover ranges from tropical rainforests to arid desert dunes. To help understand such a broad variety of environmental features across a continent, scientists from Geoscience Australia and CSIRO set up a scout citizen science competition to collect land cover data. Between June 15 and October 15, 2019, Scouts used the GLOBE Observer app to map land cover across 4000 km, adding nearly 200 new observations to the database, including some in extremely remote locations. The data is intended to be used in combination with MODIS/Landsat data to provide insights into major environmental challenges. Dr. John Pring from Geoscience Australia created a team for each participating Scout organization with GLOBE's new team tool. The winning team collected 111 observations.

More information:

<http://www.earthobservations.org/article.php?id=387>

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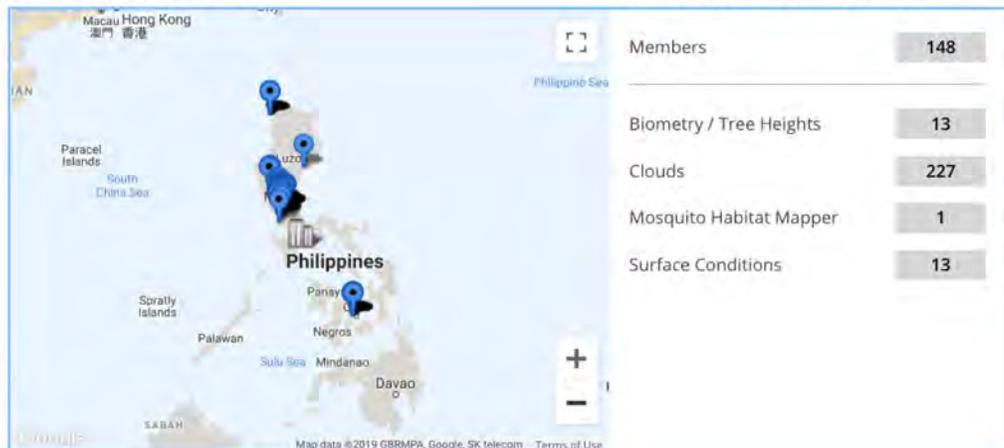
GLOBE Observer and Accenture

ACC ASEAN

Philippines

Year Created: 2019

Data Site Locations



ACC ASEAN from the Philippines was the winning team with 241 observations. Throughout the company, 197 individuals on 13 teams submitted data for a total of 895 observations submitted. Screenshot from globe.gov

Accenture, a multinational business consulting firm, used GLOBE Observer as the foundation for a corporate volunteer project between September 24 and November 1, 2019. The company set up one team per country (26 teams) and encouraged employees to join their country team and collect GLOBE clouds observations with the GLOBE Observer app. The teams and individuals with the most observations were recognized.

Accenture selected GLOBE Observer because it is an international project that worked everywhere they needed it to. It has consistent protocols that every employee could do equally. This is the first use of NASA GLOBE Observer for a large-scale corporate volunteer initiative.

POC: Holli Kohl, holli.kohl@nasa.gov