

About the Project

The GLOBE Zika Education and Prevention project, in partnership with the U.S. Department of State, is pushing the edge of citizen science impact, enlisting thousands of students, teachers, and communities to collect data on mosquitoes for a global mapping project. This project has an ambitious target of adding 100,000 new measurements to the GLOBE database by the end of the project.

The project works with citizen scientists, public health officials, teachers, and students to safely collect larvae samples in 30 Zika-affected countries in three GLOBE regions. The project encourages STEM studies and builds networks with public health officials to better control mosquitoes and reduce mosquito-borne infectious disease. Global data collection on this scale will help international scientists predict new outbreaks.



Key Project Objectives

The project has the following three objectives to achieve its goal:

- (1) **Engage hard-to-reach, at-risk populations** on the ways Zika and other mosquito-borne diseases are transmitted and engage them to take actions to stay healthy, such as identifying disease-carrying mosquitoes and eliminating their breeding areas;
- (2) **Create regional networks** of schools/organizations and public health officials to maintain changes in individual and community behavior and limit the spread of disease; and
- (3) **Gather, use, and disseminate crowdsourced data** to improve tracking and control of Zika and other mosquito-borne viruses, both in focus countries and globally through partners.

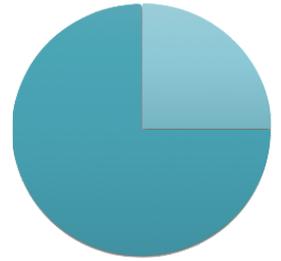
GLOBE Mosquito Measurements to Date



Visit vis.globe.gov/GLOBE to see all GLOBE measurements!

We're almost at our goal!

GLOBE citizen scientists have submitted over **75,000** new mosquito measurements to the GLOBE database using the GLOBE Observer Mosquito Habitat Mapper App! The goal is to reach **100,000** new measurements by the end of September 2019.



Community Support & Engagement

Conference Presentations

AGU Fall Meeting 2018:

The GLOBE Zika Education and Prevention Project: Citizen Science for Global Health, #GH004.

Making the connection between climate and infectious diseases, from education to early warning, #GH24A-06

Engaging undergraduate and graduate students with GO Mosquito Habitat Mapper citizen scientists of all ages, #ED54A-07

Mosquito! Using NASA Citizen Science to bring Global Goals to Local Learning and Action, #ED41E-1247

AMS 2018:

The GLOBE Mission Mosquito Campaign: A Citizen Science Campaign to Forecast and Prevent Zika, #J5.2

Citizen Science Conference 2019:

Building a Global Mosquito Citizen Science Consortium: Bringing Together Diverse Perspectives for Common Goals

Mosquitoes and Public Health: Improving Data Validation of Citizen Science Contributions Using Artificial Intelligence

Improving the Fidelity of Citizen Scientist Reports of Mosquito Data

Student Research Reports

As a result of the GLOBE Zika Education and Prevention Project, students are leading community efforts in the fight against Zika. GLOBE students have submitted dozens of mosquito-focused International Virtual Science Symposium (IVSS) reports since 2018. From developing community-based disease prevention models to studying preferred mosquito breeding grounds, student-developed research is a key component of disease prevention in participating countries. Learn more about the IVSS and read student reports here: www.globe.gov/science-symposium. Use the "mosquitoes" filter within the Hydrosphere Protocol to see only mosquito-related student research reports.

Publications

Aïkpon, R. et al. (2019). Assessment of population dynamics and biting trends of *Aedes aegypti* in northern Benin: Public health implications. *International Journal of Mosquito Research*, 6(2). p. 19-23.

Smithsonian Center for Science Education (2018). Mosquito! Community Research Guide.