GLOBE Zika Education and Prevention Project

Asia and Pacific Region Webinar

25 February 2019

Sponsored by: NASA Supported by: NSF NOAA Implemented by: UCAR

Welcome to the Webinar!

GLOBE Implementation Office

Kristin Wegner, Project Manager

Lyn Wigbels, International Coordinator

Webinar Protocol

- All phones and computers will be automatically muted.
- There will be time at the end of the webinar to ask questions.
- If you have a question during the webinar, please use the ”chat” feature on Zoom to indicate you have a question on the current topic.
  - You may send a chat question to “everyone” or to only the GLOBE Team by selecting “host.”
- The webinar is being recorded.
- Slides from the webinar will be sent out following the webinar.

Webinar Objectives

- ✓ Provide a project status update.
- ✓ Reinforce Zika project objectives.
- ✓ Reference project tools for Local Mosquito Workshops (such as Community Action Grants).
- ✓ Develop and share strategies for increasing mosquito data collection as well as keeping T2 Trainers engaged as they begin organizing Local Mosquito Workshops.

Webinar Agenda

I. **Introductions**
- Ms. Kristin Wegner, Project Manager, GLOBE Implementation Office
- Ms. Lyn Wigbels, International Coordinator, GLOBE Implementation Office
- Ms. Kia Henry, Public Diplomacy Officer, U.S. Department of State
- Dr. Tony Murphy, Director, GLOBE Implementation Office
- Dr. Desh Bandhu, Director, Asia Pacific Regional Coordination Office

II. **Zika Education and Prevention Project Overview**
- Project Metrics and Successes to Date; Upcoming GLOBE Opportunities for the Zika Project

III. **Asia and Pacific Region Project Overview**
- Country Mosquito Trainings, Metrics Tracking, GLOBE Workshop Tool

IV. **Local Mosquito Workshops**
- Data Collection; Community Action Grants; Mosquito Protocol Bundle; Mission Mosquito Campaign

V. **Engagement and Communication Action Plans**
- Country Coordinators share a few plans

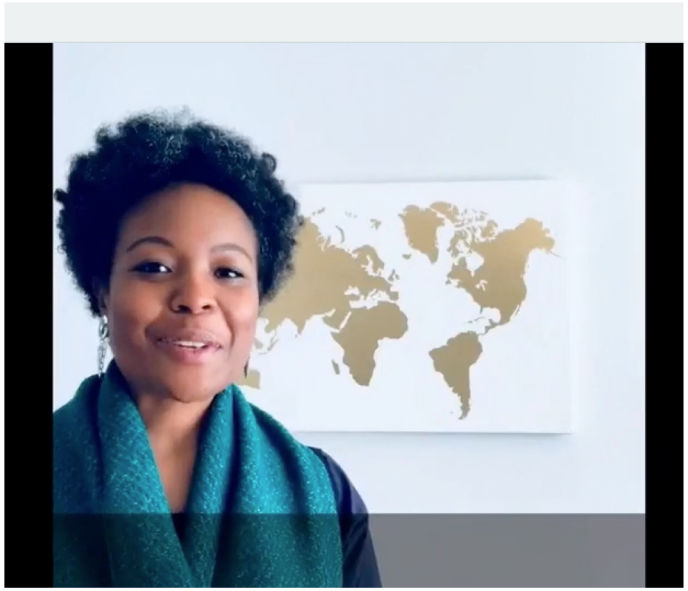
VI. **Question and Answer, Webinar Conclusion**

Welcome to the Webinar!

Asia and Pacific Region

Dr. Desh Bandhu, Director, Regional Coordination Office

Welcome to the Webinar!

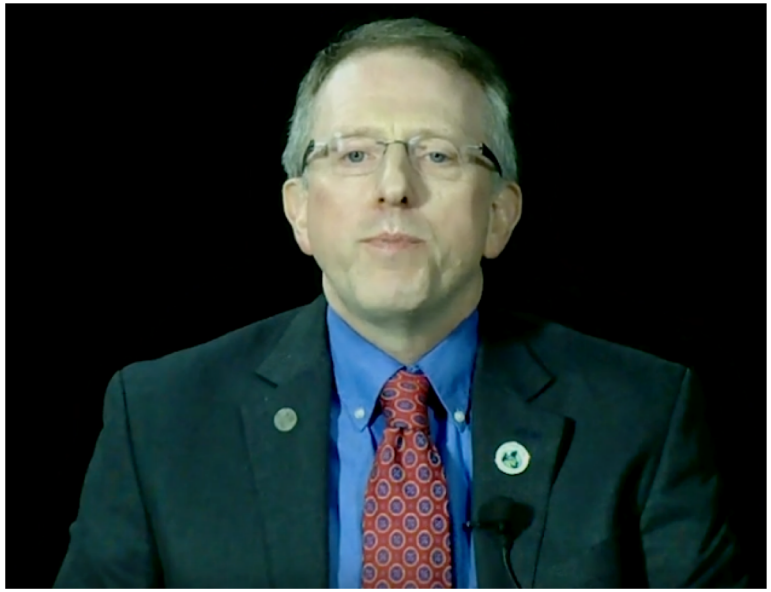


Message from Ms. Kia Henry

Public Diplomacy Officer, U.S. Department of State

GLOBE Zika Education and Prevention Project Manager

Welcome to the Webinar!



Message from Dr. Tony Murphy

Director

GLOBE Implementation Office

Project Overview

All Regions

GLOBE Zika Education and Prevention Project

Project Goal

- Limit the spread of the Zika virus and other vector-borne diseases by eliminating mosquito breeding sites at the larval stage in Zika-affected areas.

Project Objectives

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;
2. Create regional networks of schools/organizations and public health officials to 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.

GLOBE Zika Education and Prevention Project Metrics

- 3 Regional Mosquito Trainings
  - Hanoi, Vietnam; Lima, Peru; Lomé, Togo
- 98 Country Mosquito Trainings
- 2,344 individuals trained as T2 Trainers
- 39,224 data points added to the GLOBE Observer Mosquito Habitat Mapper App (May 2018 – February 2019)

Highlighting Your Successes

Nepal

Benin

Colombia

Triple Frontier CMT:
Argentina, Brazil, Paraguay

Palau

Senegal

Highlighting Your Successes

Micronesia

Suriname

Cameroon

Nigeria

Thailand

Burkina Faso

Additional Project Successes

- **GLOBE Learning Expedition**
  - First annual project meeting.
  - 14 DoS Region students receive GLE travel support.
  - Video Technique Course.
- **Virtual Exchange Program with U.S. Department of State**
  - Six live sessions.
  - How to tell a science story.
- **DoS Student Mosquito Videos**
  - Students applied instruction from the Video Technique Course and Virtual Exchange Program to create video stories about mosquitoes in their communities.

Students from DoS Regions at the GLOBE Learning Expedition, Killarney, Ireland, July 2018

Students from Brazil, Paraguay, Guinea, Kenya, South Africa, and Thailand participate in a Video Technique Course led by Sara Herrin, GIO, and Cedar Wolf, Cedar Wolf Photography.

Asia and Pacific Region Student Video

Thailand GLOBE Dengue Cases Education and Prevention

2019 Upcoming GLOBE Opportunities

International Virtual Science Symposium

- IVSS report submissions are now open, final reports are due 10 April 2019.
- Encourage students in Zika project participating countries to submit mosquito research to the IVSS.
- Two student groups per Zika project region will receive support to attend the 2019 GLOBE Annual Meeting.

IVSS Mosquito Report Submission Instructions

- Under "Protocol," select "Mosquitoes."
- Under "Report Type," select "IVSS Report" AND "Mission Mosquito Report."

2019 GLOBE Annual Meeting

- 14-18 July 2019, Detroit, Michigan USA.
- Eligibility - students must submit mosquito reports to IVSS.
- Maximum two students per student team.
- Selected student groups will be notified mid-May.

Region Project Overview

Asia and Pacific Region

Asia and Pacific Project Region Metrics

Participating Countries – Asia and Pacific
India
Maldives
Marshall Islands
Micronesia
Nepal
Palau
Philippines
Sri Lanka
Thailand
Vietnam

CMT Metrics	
Country Mosquito Trainings	29
# Trained in the GLOBE Workshop Tool	975
# Data Points in the GLOBE Mosquito Habitat Mapper App	25,010

LMW Metrics	
Local Mosquito Trainings	7
# Trained in the GLOBE Workshop Tool	120

- Numbers based on workshop and participant information entered into GLOBE Workshop Tool.

Zika Education and Prevention Project Goals and Metrics

PROJECT GOALS

3,600 T2 Trainers

100,000 data points entered into the MHM App

GLOBE ZIKA EDUCATION AND PREVENTION

Reach hard to reach, at-risk populations

GIO Method for Tracking and Reporting Project Metrics

The GIO uses information from the GLOBE Workshop Tool for official workshop (CMT, LWM), trainer (T2), and workshop participant number reporting.

- Zika mosquito trainings not added to GLOBE Workshop Tool are not included in project reports.
- Participants not added to the GLOBE Workshop Tool are also not included in project reports.
- Inform your RCO if you need to enter Zika mosquito trainings or participants in the GLOBE Workshop Tool.

Entering Mosquito Training Information in the GLOBE Workshop Tool

Country Mosquito Training

Participants are "Trainers."

Workshop Description states "Zika CMT."

Marking CMT participants as "trainers," allows T2s to:

- Organize LMWs.
- Apply for Community Action Grants.

Local Mosquito Workshop

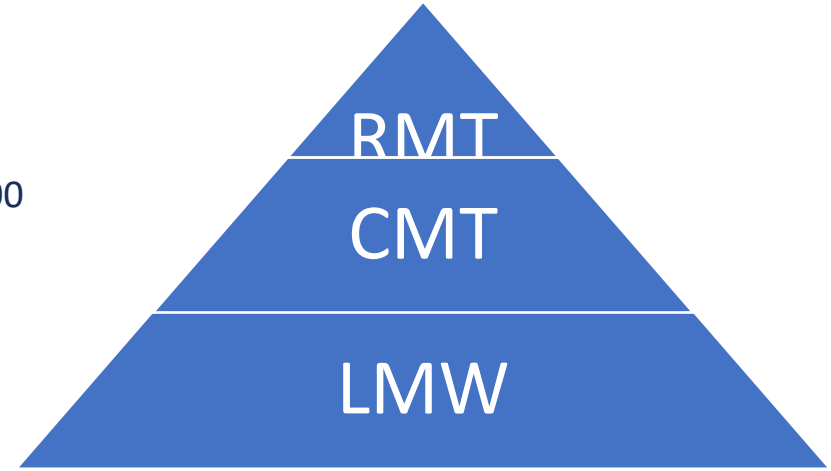
Participants are "Teachers."

Workshop Description states "Zika LMW."

Project Phase: Local Mosquito Workshops

The Local Mosquito Workshop (LMW) phase furthers the work of the Zika Education and Prevention project by:

- ✓ Training local communities in the GLOBE Observer Mosquito Habitat Mapper (MHM) app.
- ✓ Supporting the project community in submitting 100,000 data points in the MHM app.
- ✓ Engaging hard-to-reach, and at-risk populations.



LMWs: Developing Your Local Network

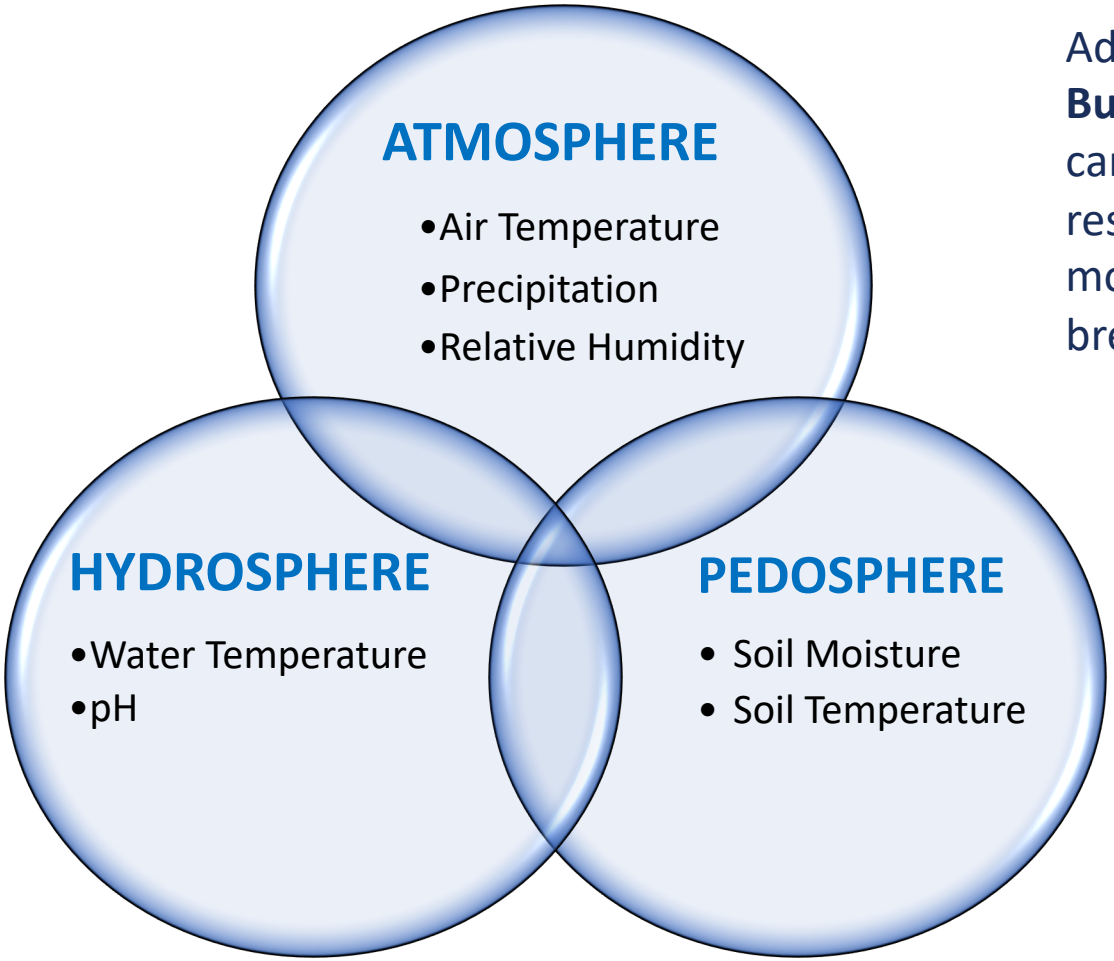
- Partner with public health officials.
- Partner with new communities and organizations, such as Peace Corps, Rotary Club, networks, and conferences.
- Include protocols from the GLOBE Mosquito Protocol Bundle in your data collection.
- Promote and participate in the Mission Mosquito Campaign, and in other data or community-led campaigns.

Supporting Local Mosquito Workshops

Data Collection, Research, & Education

- Mosquito Protocol Bundle
- GLOBE Mission Mosquito Campaign

Mosquito Protocol Bundle



Add **GLOBE Mosquito Protocol Bundle** to your measurement campaigns to support student research, and better understand mosquito behavior such as breeding patterns.

Find the Mosquito Protocol Bundle on the GLOBE Mosquito Project webpage under "Data."

www.globe.gov/mosquitoes

The GLOBE "Mission Mosquito" Campaign

Campaign connecting citizen scientists of all ages to monitor changes in the frequency, range, and distribution of potential disease vector mosquitoes.

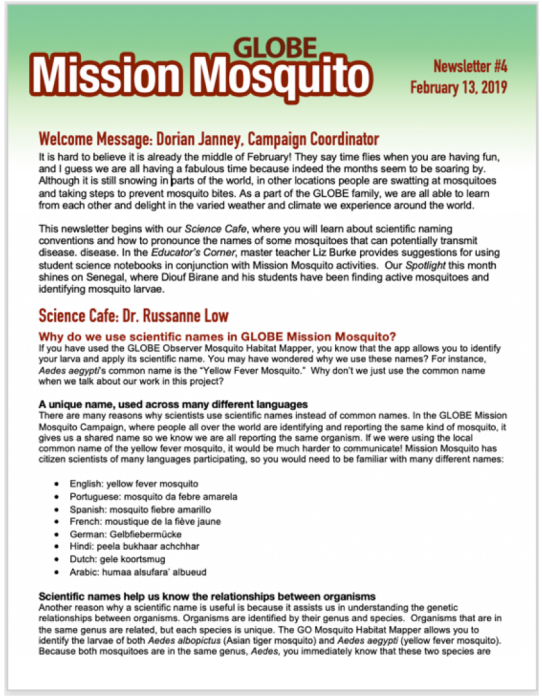
- **Mission Mosquito Goal:**
  - Facilitate scientific research on mosquito vectors of disease, including research by students and scientists (citizen and professional).

- Campaign utilizes the **GLOBE Observer** Mosquito Habitat Mapper App.

To join visit the "Mission Mosquito Community" page and click "Join Community.
www.globe.gov/web/mission-mosquito/

Mission Mosquito Opportunities

- **Biweekly Webinars**
- **Monthly Newsletter**
- **Science Café**
- **Outreach Activities**
- **Resources**



GLOBE Mission Mosquito

Newsletter #4
February 13, 2019

Welcome Message: Dorian Janney, Campaign Coordinator

It is hard to believe it is already the middle of February! They say time flies when you are having fun, and I guess we are all having a fabulous time because indeed the months seem to be soaring by. Although it is still snowing in parts of the world, in other locations people are swatting at mosquitoes and taking steps to prevent mosquito bites. As a part of the GLOBE family, we are all able to learn from each other and delight in the varied weather and climate we experience around the world.

This newsletter begins with our *Science Cafe*, where you will learn about scientific naming conventions and how to pronounce the names of some mosquitoes that can potentially transmit disease. disease. In the *Educator's Corner,* master teacher Liz Burke provides suggestions for using student science notebooks in conjunction with Mission Mosquito activities. Our *Spotlight* this month shines on Senegal, where Diouf Birane and his students have been finding active mosquitoes and identifying mosquito larvae.

Science Cafe: Dr. Russanne Low

Why do we use scientific names in GLOBE Mission Mosquito?

If you have used the GLOBE Observer Mosquito Habitat Mapper, you know that the app allows you to identify your larva and apply its scientific name. You may have wondered why we use these names? For instance, *Aedes aegypti*'s common name is the "Yellow Fever Mosquito." Why don't we just use the common name when we talk about our work in this project?

A unique name, used across many different languages

There are many reasons why scientists use scientific names instead of common names. In the GLOBE Mission Mosquito Campaign, where people all over the world are identifying and reporting the same kind of mosquito, it gives us a shared name so we know we are all reporting the same organism. If we were using the local common name of the yellow fever mosquito, it would be much harder to communicate! Mission Mosquito has citizen scientists of many languages participating, so you would need to be familiar with many different names:

- English: yellow fever mosquito
- Portuguese: mosquito da febre amarela
- Spanish: mosquito fiebre amarillo
- French: moustique de la fièvre jaune
- German: Gelbfiebermücke
- Hindi: peela bukhaar achchhar
- Dutch: gele koortsmug
- Arabic: humaa alsufara' albueud

Scientific names help us know the relationships between organisms

Another reason why a scientific name is useful is because it assists us in understanding the genetic relationships between organisms. Organisms are identified by their genus and species. Organisms that are in the same genus are related, but each species is unique. The GO Mosquito Habitat Mapper allows you to identify the larvae of both *Aedes albopictus* (Asian tiger mosquito) and *Aedes aegypti* (yellow fever mosquito). Because both mosquitoes are in the same genus, *Aedes*, you immediately know that these two species are

	Education Webinars
1/23	Classes report on research using GO MHM data
2/6	How to complete IVSS science projects
3/13	Get ready, get set, go: Active mosquito season
4/10	Identifying mosquito larvae
5/5	Prepare your community for mosquito season

	Citizen Science Webinar Tutorials
1/30	Introduction to Mission Mosquito
2/20	Join the Phenology Research Project/Build a mosquito trap
3/27	Citizen science in your community
4/29	GO Mosquito Habitat Mapper and Land Cover: tutorials
5/5	Mapping Tutorial using Story Maps

GLOBE Mission Mosquito

Mission Mosquito Contacts

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www.globe.gov/web/mission-mosquito/

Supporting Local Mosquito Workshops

- Proposals
- Community Action Grants

Supporting Local Mosquito Workshops

Community Action Grants

GLOBE ZIKA EDUCATION AND PREVENTION

Community Action Grant Proposal

Proposed Activity

Description of proposed activity	
How will this activity impact the community?	
At risk - What is the level of risk the community faces from Zika or other mosquito-borne disease?	
Hard to reach - To what extent is the community assisted by other national or international mosquito control efforts?	

Action Grant Proposal Form Rubric

	5	3	1
Proposed Activity	Activity description is clear, concise, and well-thought out and targets hard-to-reach, at-risk communities.	Activity is clearly written, but not well-thought out and does not target hard-to-reach or at-risk communities.	Activity is not clearly defined and requires more planning and improved community targeting .
Funding	The funding request is clear and logical, a defined and reasonable budget is provided.	The funding request is clear, but has gaps or discrepancies. The budget is reasonable.	The funding request is not clearly defined, and the budget is not reasonable.

Community Action Grants

- Trainings.
- Purchasing mosquito training supplies.
- Education, engagement, campaign activities.

Application Process

- Proposals submitted to or coordinated by Country Coordinators.
- Country Coordinators submit proposals to their Regional Coordination Office.

Community Action Grant Documents

- Action Grant Proposal
- Rubric
- LMW Letter of Commitment

Supporting Local Mosquito Workshops

Engagement and Communication Action Plans

The GLOBE Program

Sample Actions	Sample Steps for Action	Sample Timeline
Administration		
All CMTs and participants added to GLOBE Workshop Tool to ensure T2 Trainers can organize LMWs and apply for action grants.	– Double check CMTs in the GLOBE Workshop Tool	– Within a week of webinar.
Easily accessible T2 contact information (phone, email) to provide project updates and opportunities.	– Develop a contact list of country specific T2 Trainers.	– Within two weeks.
Knowledge of Action Grant application process.	– Review project webpage.	– Following webinar.
Knowledge of GLOBE Mission Mosquito Campaign and Mosquito Bundle Protocols to support mosquito data collection.	– Review Mission Mosquito and Mosquito Bundle webpages.	– Following webinar.
Communication		
Send follow up email to T2 Trainers encouraging additional data collection, and informing about LMWs and action grants.	– Draft an informative email that includes links to project resources.	– Within one month of webinar.
Add Zika project information on Country GLOBE webpage about LMW opportunities.	– Contact Help@globe.gov for support.	– Within two weeks of webinar.
Identify relationships with organizations that can share Zika project opportunities to community members and through newsletters.	– Draft a list of organizations with known newsletters or social media pages such as Facebook.	– Within two weeks of webinar.
Partnerships		
Connect with public health officials (PHOs) in the proximity of the LMWs.	– Invite PHOs to LMWs.	– Contact PHOs once LMW dates are set.
List local organizations and community partners.	– Connect with colleagues for partnership ideas.	– Within one week of webinar.
Identify upcoming community events to publicize the project, or host LMWs.	– Develop an events calendar.	– Within one week of webinar.

Sharing Communication and Engagement Strategies

- What method do you use to communicate with your T2 Trainers?
- Which partners or community organizations are you working with?
- What elements have you included in your Community Action Grant proposals?
- Other ideas you would like to share?

Questions and Answers

Project Support

GLOBE Zika Education and Prevention Project Webpage
Project forms and training manual

Help@GLOBE.gov
GLOBE Workshop Tool or MHM App support

Regional Coordination Office
Oversees region CMTs
Reviews Community Action Grant proposals

Country Coordination Office
Oversees country LMWs
Coordinates and Receives Community Action Grant proposals

www.globe.gov/mosquitoes

GLOBE ZIKA EDUCATION AND PREVENTION

Thank You!