



# THE GLOBE PROGRAM

## DETAILED PROGRAM

**Sunday, 19 July 2015**

- 8:00 am to 8:00 pm      **Registration Open – Sierra Foyer**
- 9:00 am to 4:30 pm      **Working Group Committee Meeting – Club Room**
- 6:30 pm to 8:00 pm      **Opening Networking Reception – Ballroom Circle (outside venue)**

The GLOBE Annual Meeting Registration Desk will be open each day one hour before sessions begin. Please remember that breakfast is included with your hotel room rate at both the Hilton and the Garland. A coupon is required and will be provided at check in. **For Hilton Guests**, beginning Monday 20 July breakfast will be held each day from 6:00 am to 8:00 am in the Orchid Room. **For Garland Guests**, breakfast will be held in the main dining room. For dates before 20 July and for those staying at the Beverly Garland, please inquire at the front desk for the exact breakfast location.

With the exception of Thursday, all sessions will occur at the Hilton Universal.

Van shuttle service will be provided from the Garland Hotel to the Hilton each day beginning at 7:15 am. Look for a van with the GLOBE logoed sign. Distance between the hotels is walkable (about 20 minutes). Ask the receptionist for directions. Please plan for extra time to reach the Hilton before bus departure for field experiences (on Tuesday and Wednesday) or sessions beginning on other days.

**Student Research Experience:** Bus transportation for students on Tuesday will depart from both hotels at 6:00 am. Students should return no later than 7:00 pm on Wednesday night.

**Monday, 20 July 2015**

- 8:30 am to 10:10 am      **Welcome and Opening of the Meeting – Sierra Ballroom A**  
*Presenters: Henry Ortiz, Tony Murphy, Ming-Ying Wei, Jill Karsten, John McLaughlin*  
Welcome to the 19<sup>th</sup> GLOBE Annual Partner Meeting and 3<sup>rd</sup> Student Research Exhibition from local GLOBE Partner and host, GIO Director, NASA Program Manager, NSF Program Manager, NOAA Education, and local officials. Los Angeles, CA is the town of stars, we have over 200 of them here!
- 10:10 am to 10:30 am      **Break**
- 10:30 am to 12:00 noon      **Report from GLOBE Working Groups – Sierra Ballroom A**  
*Presenters: June Tiesan, Nektaria Adaktilou, Kevin Czajkowski, Scott Graves*  
GLOBE Working Groups (WGs) were formed over a year ago from community members. Chairs of each of the four constituted WGs (Education, Evaluation, Science, Technology) report out on their work over the last year.
- 10:30 am to 12:00 noon      **Students set up poster presentations – Sierra Ballroom B**
- 12:00 noon      **Lunch – Ballroom Circle**

- 12:45 pm – 1:45 pm      **Keynote Presentation – The Gravity of Water: “Weighing In” on Earth’s Changing Water Resources Using NASA Observations**  
*Presenter: J.T. Reager, Jet Propulsion Laboratory, Pasadena, California*
- 1:45 pm – 2:45 pm      **Student continue to set up poster presentations – Sierra Ballroom B**
- 1:45 pm – 3:15 pm      **Concurrent Sessions**

#### **Collaboration of GLOBE with Other Programs – Club Room**

*Presenters: John Zavalney, Jennifer Hammonds*

The GLOBE Program has relationships with many programs and welcomes collaboration opportunities with others. A representative from Roots and Shoots describes possible collaborations. GLOBE has an existing relationship with NWF’s EcoSchool Program, which combines effective “green” management of the school grounds, the facilities and the curriculum; truly providing students with a unique, research and application based learning experience. GLOBE’s protocols can provide a scientific basis for these programs.

#### **What’s New on the GLOBE Website and What’s Coming? – Sierra Ballroom A**

*Presenters: David Overoye; Cornell Lewis*

An exciting new version of the GLOBE website was released before Earth Day this year. Come and learn some of the new enhancements of the website, the new site structure, the tagged Teacher’s Guide, data entry forms and its connection to the new data entry mobile app. Learn about new capabilities coming to the website later this year such as e-learning, GLOBE classrooms for collaboration, an advanced data access tool, a student-friendly cloud mobile app, a new and improved admin system and more.

#### **Teaching in the GLOBE Classroom – Sierra Suite**

*Presenters: Audra Edwards, Yi-Wen Hung*

Teaching in the GLOBE classroom can involve a number of different strategies to increase student learning. This session will highlight a number of strategies, including the service learning and scientific argumentation. GLOBE is a wonderful means of laying a scientific basis for service learning and has the opportunity to add an international dimension. Argumentation in science is often defined as an attempt to validate or refute a claim on the basis of reasons in a manner that reflects the values of the scientific community. This session focuses on examples of teaching in the GLOBE classroom in different parts of the world—the US and Taiwan.

#### **GLOBE Distinguished Educator Fellowship – Salon 6AB**

*Presenters: Julie Malmberg, John Moore*

In 2014, GLOBE established the new Distinguished Educator Fellowship. Two Fellowships were awarded to GLOBE educators; one in the US and one in Thailand. The educators are developing curriculum in partnership with GLOBE scientists. This session covers the details about the application process, the expected teacher/scientist teamwork, how to team with a scientist if you are not currently doing so, eligibility requirements, and how proposals are reviewed.

#### **SIMPL Model: A Professional Development Model for GLOBE – Hiro Room**

*Presenter: Dave Hicks, Elizabeth Garcia*

Learn about a model for professional development that helps teachers to gain content knowledge and to reflect on the pedagogical practices that will work best with students. The model encourages teachers to be intentional in their delivery of instruction and self-reflective.

- 3:00 pm – 5:00 pm      **Student Gathering to Develop Research Questions with GLOBE LA Staff–Mandarin Room**
- 3:15 pm – 3:45 pm      **Break**
- 3:45 pm – 5:15 pm      **Concurrent Sessions**

### **GLOBE and Citizen Science – Hiro Room**

*Presenters: Holli Riebeek, Tony Murphy*

GLOBE is a citizen science program that has placed a particular emphasis on the primary and secondary (K-12) education community (students and teachers) in the past 20 years. As GLOBE students join the alumni rank and go on with their own career paths (and as GLOBE teachers retire), interest in broadening participation in GLOBE is on the rise to include all citizens, young and old, interested in the Earth system and global environment. Join us in a discussion of future plans.

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*Presenters: David Overoye; Cornell Lewis*

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### **Highlighting the Strengths of Different Languages and Cultures in GLOBE Collaboration – Sierra Suite**

*Presenters: Salma Al-Zubi, Amalia Aubone, Desh Bandhu, Mark Brettenny, Dana Votápková*

This panel discussion will focus on highlighting examples of collaboration within and across regions in the Program. Panelists will elaborate on the opportunities available to the community, as well as points that need to be considered when working across countries and regions.

### **Online GLOBE Professional Development Models – Salon 6AB**

*Presenters: Michael Jabot, Todd Toth*

GLOBE partners have developed a number of different models to implement online professional development and training for various audiences. This session exhibits two models: one created for training NASA center staff and the second for teachers. Learn about the design and software used and the possibilities of creating such programs for your partnership.

### **GLOBE, NGSS and Common Core – Club Room**

*Presenters: Kristin Wegner, Audra Edwards, Steve Frantz, Svetlana Darsche, Erin Fender*

In 2013, two US GLOBE Partners received NSF funding to lead the development of "A Guide to Connections Between The GLOBE Program and the Next Generation Science Standards" in partnership with the GLOBE community and the GLOBE Implementation Office (GIO). Building on the success of this Partner-led initiative, GIO is currently gathering GLOBE community-created resources to make NGSS and Common Core aligned materials available to the community. These include materials that support the alignment of GLOBE adoption (i.e. STEM activities, data viz activities, etc., that support the alignment of Common Core (literacy and math) and NGSS (engineering and science practices). Participants will learn about the community NGSS, Common Core, and STEM resources, as well as learn how they can contribute their existing resources to this effort. They will also hear the perspectives of different users of these materials, teacher, university faculty and NASA center educator.

6:30 pm – 8:00 pm

### **3<sup>rd</sup> Student Research Exhibition and Partner Poster Presentations – Sierra Ballroom B**

Stroll around and absorb information from the student research posters, learn how partners are implementing GLOBE in various countries. *Light refreshments will be served during this session.*

**Tuesday, 21 July 2015**

6:00 am

**Buses Depart from Hilton (Ballroom Circle Parking) and Beverly Garland Hotel (street access) for Catalina Island Student Research Experience – Students**

7:45 am                      **Buses Depart from Hilton (Ballroom Circle Parking) for Protocol Training – Adults**

8:30 am – 10:10 am        **Concurrent Sessions/Training**

**Hydrosphere Using Inquiry – Balboa Park/Lake**

*Trainers: Gary Randolph, Peggy Foletta, Mullica Jaroensutasinee, John McLaughlin*

During this workshop, participants learn about and perform many of the hydrology protocols in an urban park setting. Participants use the inquiry method as a vehicle to learn these protocols. Methodologies used here can then be incorporated into participants' own hydrology training.

**Pedosphere (SMAP) and Atmosphere – Sierra Suite**

*Trainers: Erika Podest, Peter Falcon, Dorian Janney*

This workshop examines the connections between specific protocols, how they relate to each other and their connection to satellite missions and campaigns. Participants will also learn the respective protocols during the session. Session will begin in the Sierra Suite and then participants will walk to a nearby study site.

**Elementary GLOBE and Introducing the New Aerosols Book – Sierra Ballroom A**

*Trainers: Jessica Taylor, Kristyn Damadeo*

Elementary GLOBE offers storybooks and lessons that enhance literacy skills while encouraging scientific exploration. The newest storybook and activities, developed with NASA's CALIPSO and SAGE missions, focus on aerosols. Come join us to learn about this great new resource!

**Biosphere: Learning More About Land Cover – Hiro Room**

*Trainers: Jen Bourgeault, Claudia Caro, Kevin Czajkowski, Andrea Ventoso*

Participants will investigate land cover through the collection of data using measurement protocols. Learning activities will be used that highlight important scientific concepts, the understanding of data and data collection methodologies. Session will begin in the Hiro Room and then participants will walk to a nearby study site.

10:10 am – 10:30 am        **Break**

10:30 am – 12:00 noon      **Concurrent Sessions/Training Continues**

12:00 noon – 12:30 pm      **Bus returns from Balboa Park/Lake**

12:30 noon – 1:45 pm        **Lunch – Ballroom Circle**

1:45 pm – 3:15 pm          **Concurrent Sessions**

**Creative Models for Implementing GLOBE – Hiro Room**

*Presenters: Diana Garasic, Nadhira Al harthy, Marta Kingsland Gebhardt, Andrea Ventoso, Claudia Caro, Maria Portuguese*

When a country joins The GLOBE Program, it decides how to implement the Program. In this session, country coordinators present how the Program is implemented differently in various countries from three GLOBE regions (Europe and Eurasia, Near East and North Africa, and Latin America and Caribbean).

**Website Administration for County Coordinators and Partners – Sierra Ballroom A**

*Presenters: David Overoye; Cornell Lewis*

The GLOBE website is a powerful tool in your implementation of the Program at a local or national level. Come learn about your capabilities in using the website as a Country Coordinator or a partner. Learn how to manage your schools, begin and close workshops, enter news and events that can be highlighted at the regional and global level, and many more aspects. Learn more about the website's new admin system coming in September.

### **GLOBE Initiatives Online Content– Sierra Suite**

*Presenters: Tony Murphy, Kevin Czajkowski, Becky Boger, Izolda Trakhtenberg, Rusanne Low*

This past year has seen a number of new initiatives and revisions launched by GLOBE. These include developing a set of training slides that lay the foundation for online training, increased recruitment for the GLOBE International Scientists Network, a tagged Teacher's Guide, a GLOBE Teacher Fellowship, and new campaigns. Join us as we explore these new aspects to the Program!

### **GLOBE International Virtual Science Fair – Salon 6AB Room**

*Presenters: Julie Malmberg; Matt Silberglitt, Svetlana Darsche*

As part of the celebrations for the 20<sup>th</sup> anniversary of GLOBE, an international virtual science fair has been announced. The session outlines the components of the GLOBE scientific report, the process for submission, the rubrics for evaluation, and the time frame for the fair. GLOBE scientists and other community members will be recruited as judges.

### **A Model of Citizen Science at the Natural History Museum of Los Angeles County – Club Room**

*Presenter: Lila Higgins*

Los Angeles sits in one of 35 biodiversity hotspots in the world. To study the nature in our region, the Natural History Museum launched their citizen science program in 2011. Learn about the program and hear some of the lessons learned from scientists, educators, and the public working together. We'll examine factors that allowed the Los Angeles Museum of Natural History to develop investigations that foster more interest in urban nature studies. Then, we'll brainstorm ways to get involved in new initiatives and discuss how the Natural History Museum of Los Angeles's model could be duplicated in other cities.

3:15 pm – 3:45 pm

**Break**

3:45 pm – 4:15 pm

#### **Data Entry and Visualizations from Tuesday Morning Field Work – Sierra Ballroom A**

*Presenters: David Overoye and Cornell Lewis*

It is extremely important to enter the data that you have collected in the field. This session focuses on data entry via the data entry forms on the mobile app and desktop. This session will show the beginning-to-end steps necessary to enter your data and then retrieve the data using the visualization system. Learn about the new advanced data access tool coming in August. This tool will allow you to retrieve your data using an easy-to-use and intuitive non-map interface.

4:15 pm – 5:15 pm

#### **Student Real Time Collaboration (from the field) – Sierra Ballroom A**

*Presenters: Students; Michael Winters and John Zavalney*

During this live connection to the Wrigley Marine Science Center on Catalina Island, participants learn from the students what they have been doing on their first day of GLOBE fieldwork. The presentation focuses on the experience, GLOBE protocols used, what students have learned about the environment and from each other on their first day. In addition, teachers will prepare for an interactive session on Wednesday morning where they will connect with students on Catalina Island and learn/discuss implementation of protocols during the protocol training session.

5:15 pm

**Sessions end for the day – Free Evening**

## **Wednesday, 22 July 2015**

7:45 am

**Buses Depart from Hilton (Ballroom Circle Parking) for Protocol Training – Adults**

8:30 am – 10:10 am

**Concurrent Sessions/Training**

### **Hydrosphere Using Inquiry – Balboa Park/Lake**

*Trainers: Gary Randolph, Peggy Foletta, Mullica Jaroensutasinee, John McLaughlin*

During this workshop, participants learn about and perform many of the hydrology protocols in an urban park setting. Participants use the inquiry method as a vehicle to learn these protocols. Methodologies used here can then be incorporated into participants' own hydrology training. Also during this session, students and teachers will connect live for an interactive discussion and to learn about the protocols that they are using.

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10:30 am – 12:00	<b>Concurrent Sessions/Training Continues</b>
12:00 noon – 1:00 pm	<b>Lunch – Offsite</b>
1:45 pm	<b>Bus returns from Balboa Park/Lake</b>
1:45 pm – 3:15 pm	<b>Concurrent Sessions</b>

### **Implementation Models of GLOBE at Universities – Hiro Room**

*Presenters: Krisanadej Jaroensutasinee , Mullica Jaroensutasinee , Sherry Herron, Karl Schneider*

GLOBE can play a valuable and important role as a component of university courses. In this session, presenters from three GLOBE countries (Germany, Thailand and the US) discuss how they have implemented GLOBE at the university level. Examples include GLOBE integrated into courses for pre-service and in-service teachers, as well as other undergraduate students.

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### **GLOBE Africa Kilimanjaro Xpedition – Club Room**

*Presenters: Mark Brettenny, Michael O'Toole*

The 2015 Kilimanjaro Xpedition is planned to occur from 23 September through 2 October. Students on the Xpedition study the various ecological zones of Mt. Kilimanjaro and record vegetation, air, soil and surface temperature, cloud type and cover, relative humidity as well as several hydrological measurements. They will be retrieving data loggers placed on the mountain by previous Xpedition teams. Xpedition scientists will analyze the data to determine whether ecological biomes are shifting and how much the glaciers of Mt. Kilimanjaro are shrinking. Come learn about the Xpedition and how you and your students will be able to be a part of this special GLOBE event.

### **Creative Models for Implementing GLOBE – Sierra Ballroom A**

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*Presenters: Holli Riebeek, Tony Murphy*

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3:15 pm – 3:45 pm      **Break**

3:45 pm – 5:15 pm      **Data Entry and Visualizations from Wednesday Morning Field work – Sierra Ballroom A**

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### **Website Clinic – Sierra Ballroom A**

*Presenters: David Overoye and Cornell Lewis*

Having problems with the web site that have been frustrating you for a while? Can't upload that selfie on your 'MyPage'? Don't know how to create a workshop and administer it? Having some issues with retrieving data? Well, the doctor is in the house!! Sign up for a one-on-one session with David and Cornell to resolve your issues and leave the meeting ready to utilize the website to its full potential.

5:15 pm      **Students leave Catalina Island and return to the hotel, arrive approximately 7:00 pm**

5:15 pm      **Sessions end for the day – Free Evening**

## **Thursday, 23 July 2015**

7:45 am      **Bus departs for UCLA**

8:30 am – 9:00 am	<b>Welcome from the Wasserman Dean, School of Education – Faculty Center Dining Hall</b> Dean Marcelo Suárez-Orozco from UCLA’s School of Education welcomes GLOBE participants to the campus.
9:00 am – 9:30 am	<b>GLOBE Implementation Office (GIO) Report – Faculty Center Dining Hall</b> <i>Presenter: Tony Murphy</i> GIO Director Tony Murphy’s report to the community on the state of the Program, what has been accomplished over 20 years and this past year in particular. Tony salutes schools that have entered significant data since joining the Program....and the Oscar goes to.....?
9:30 pm – 10:15 am	<b>SMAP and GPM Missions: Scientists, Students, and Data – Faculty Center</b> <i>Presenters: Erika Podest, Dorian Janney</i> GLOBE is collaborating with various satellite missions to assist in the verification of their data. This presentation outlines two such missions: Soil Moisture Active Passive (SMAP) and Global Precipitation Measurement (GPM), with the associated protocols and how scientists are using the student collected data.
10:15 am –10:30 am	<b>Break</b>
10:30 am – 12:00 pm	<b>Concurrent Sessions</b>
	<b>Country Coordinator Discussion – Faculty Center and Breakout Rooms</b> <i>Presenters: Lyn Wigbels, Andrew Masciola</i> Country Coordinators have an opportunity to learn about international developments in the Program, and discuss topics such as implementation ideas, GLOBE Stars, advertising events, and connecting with the regional coordinators.
	<b>US Partners Discussion – Faculty Center and Breakout Rooms</b> <i>Presenters: Jen Bourgeault, US Partner Forum Members, GIO</i> US partners have an opportunity to learn about developments in the Program, and discuss topics such as implementation ideas, GLOBE Stars, advertising events, and connecting with the US Partner Forum.
12:00 noon	<b>Box Lunch – Faculty Center</b> <b>Student Presentations Continue</b>
12:00 noon – 2:30 noon	<b>Concurrent Sessions</b>
	<b>What Did Students Learn from this Research Experience?</b> <i>Presenters: Various student groups - Faculty Center</i> Students will share with us what they have learned about the local environment during their two-day experience on Catalina Island using GLOBE protocols.
2:30 pm	<b>Bus departs to return to hotel.</b>
6:30 pm	<b>Group Photo – Location TBD</b>
7:00 pm – 9:00 pm	<b>Dinner and Keynote Address – Hilton Hotel Ballroom C</b>



## Friday, 24 July 2015

8:30 am – 10:10 am

### Concurrent Sessions

**Students are not required to attend meeting on Friday. Free time for students.**

#### **Improving GLOBE via Evaluation – Hiro Room**

*Presenters: Evaluation Working Group Members*

The Evaluation Working Group released and administered a teacher questionnaire to GLOBE teachers. Learn about preliminary results of this questionnaire. Members will also discuss with participants how evaluation can be used to improve the implementation of GLOBE in their particular setting (classroom, partnership, country).

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*Presenters: David Overoye; Cornell Lewis*

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#### **Collaboration of GLOBE with Other Programs – Club Room**

*Presenter: Miki Tomita*

Learn about Hōkūle'a, a traditional double-hulled voyaging canoe currently on a Worldwide Voyage to raise awareness for stewardship of our Island Earth. Learn about the history of Polynesian Voyaging Society, which began 40 years ago with constructing the first voyaging canoe in existence in 500 years. Hear about the global mission of this current 4-year voyage, and the use of Google Tools to share the work of students and communities, as well as some of the ocean-focused science on board the canoe such as plankton and marine debris data collection. Imagine and design ways to support students as agents of community change to connect to each other and the voyaging canoes, hosting virtual field trips and learning journeys into your unique environment and research areas.

#### **Alumni Update – Sierra Suite**

*Presenters: Elena Sparrow; Laura Altin*

At the GLOBE Learning Expedition in 2014, alumnae talked with students about the Program and staying involved with it after they left secondary school. A report of the results from this discussion is given during this session. In addition, an alum who is now a country coordinator talks about her experience with the Program and how she is organizing an upcoming regional GLE in Estonia.

10:10 am – 10:30 am **Break**

10:30 am – 12:00 noon

#### **The Year Ahead with GLOBE – Sierra Ballroom A**

*Presenters: Tony Murphy, David Overoye, Ming-Ying Wei*

During this session, participants have a final opportunity to learn about GLOBE and Citizen Science and ask any questions about this topic. The year ahead for the Program in the areas of education, evaluation, science and technology is summarized. Special events for the 20<sup>th</sup> anniversary of the Program are also highlighted.

12:00 noon

**Box Lunch – Ballroom Circle**

12:45 pm

**Depart**