

# Webinar Logistics

<http://go.usa.gov/S98Q>



English

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## Professional Development Resources

Overview Workshops **Webinars**

## GISN Webinars

The **GLOBE International Scientist Network (GISN)** is a global community where scientists mentor students and teachers, present scientific ideas, and/or collaborate on scientific research. The GISN hosts webinars that provide tools and tips for scientists interacting with teachers and students.

Upcoming 2015 Webinars are listed below! Webinars will be held United States, [click here](#) for your local toll-free phone number.

WEB CONTENT DISPLAY

[Click here to register](#)

In this webinar, we will cover:

- What is GLOBE?
- How to Partner with GLOBE
  - What are the steps to connect with a GLOBE teacher, school, or GLOBE Partner/UCAR institution
  - How to use [www.globe.gov](http://www.globe.gov) to connect with GLOBE members
- How to participate as an individual in the GISON
  - Writing and posting a blog for globe.gov
  - Proposing a field campaign
- Facilitators: Kristin Wegner and Dr. Julie Malmberg (GLOBE)

[Click here to register for Webinar 2](#)

- How to use GLOBE data and visualization system in their research
- How to use GLOBE data and visualization system as a teaching tool for undergraduate science classes

Panelists include: Dr. Mullica Jaroensutasinee and Dr. Krisanadej Jaroensutasinee (GLOBE Thailand, Mosquito protocol), Dr. Todd Ellis, Dr. Elise Hendriks (GLOBE Aerosols Project Coordinator)

[Click here to register for Webinar 3](#)

- GLOBE's Dr. Julie Malmberg with share role model training materials for outreach in K-12 settings, ranging from SciGirls, Tech Bridge, and GLOBE materials

[Click here to register for Webinar 4](#)

- Stories from 20 years of GLOBE science research and education outreach
- Topics include: meaningful collaborations, field campaigns using virtual technologies with classrooms internationally

[Click here to register for Webinar 5](#)

- GLOBE's Dr. Julie Malmberg will present sample outreach activities for classroom engagement in K-12 and undergraduate settings, including SciGirls and GLOBE materials

ReadyTalk  
International Conferencing Access Numbers

Country	Toll-Free Number	Toll Number	Country	Toll-Free Number	Toll Number
Argentina	08008000354		Latvia	80001049	
Australia	180042582	0390010062	Lithuania	880030516	
Austria	080088663212	1253021520	Luxembourg	80023964	20881225
Bahamas	18003890359		Malaysia	1800807043	
Bahrain	80004775	16199311	Mexico	0018005148716	5547381649
Belarus	882000110051		Moldova	080062801	
Belgium	080039397	027924593	Monaco	800933443	
Botswana	00269803000608		Netherlands	08002020261	0107994401
Brazil	08008918965	01149497302	New Zealand	0800450780	49094618
Bulgaria	008001151099		Norway	80058434	21033283

Click here for the international conference access number

					017057311
					0223060361
					217810475

Czech Republic	800142343	228882473	Saint Kitts/Nevis	18002038711	
Denmark	80886327	70142286	Saudi Arabia	8008440183	
Dominican Republic	18887514526	18299478931	Singapore	80011011441	64944176
El Salvador	8005620		Slovakia	0800606254	
Estonia	8000100257		Slovenia	080080617	
Finland	0800773431	0923194288	South Africa	0800999940	
France	0800842408	0714181129	South Korea	00308140433	0234831461
Germany	08006645316	030700150735	Spain	900800233	917911831
Greece	008016122038711		Sri Lanka	2475651	
Hong Kong	080960277	30508615	Sweden	0201708429	0114966385
Hungary	0680015299	14088342	Switzerland	0800750351	0434569449
Iceland	8008079		Taiwan	0809092282	0226567219
India		4466529327	Tajikistan	8108003337329	
India - Bharti	0008001096026		Thailand	001800656911	
India - Reliance	00080018774464138		Trinidad/Tobago	18002056314	
Indonesia	0018030174537		Turkey	00800142058507	

Click here for the  
international conference  
access number

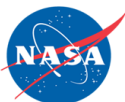
# GLOBE International Scientist Network (GISN)

## 2015 Webinar Series

### Webinar #1: The Nuts and Bolts of using GLOBE to do Outreach and Education


Thursday, 5 February 2015

Sponsored by:



Supported by:



Implemented by:  UCAR

# Webinar Logistics

Participants  
Web: 1 Hands Raised: 0  
Chairperson (Presenter)

Stop Meeting Record Meeting Share Grant Control Enable Webcams Invite Others Options Help

Raise your hand  
if you have any  
technology  
problems

## GLOBE International Scientist Network (GISN) 2015 Webinar Series

### Webinar #1: The Nuts and Bolts of using GLOBE to do outreach and education

Audio Controls  
Start My Audio Meeting  
Use Computer Use Phone  
OR Dial 3032480285 US Toll  
Enter 4972630  
[Phonebook](#)  
Chat  
Chat Questions Answered

Type questions and comments  
in the chat space here

February 2015

# Presenters



Kristin Wegner  
GLOBE Implementation Office  
Project Manager



Dr. Julie Malmberg  
GLOBE Implementation Office  
Science Education and Outreach



# Special Welcome

Dr. Tony Murphy, Director of  
GLOBE Implementation Office



# Who are you?

- Type your name, organization, and location in the chat window.

# Agenda

- What is GLOBE?
  - Brief overview of the GISN
- Setting up your GISN account
  - How to create a profile on globe.gov
  - How to update your profile on globe.gov
- How to Partner with GLOBE
  - Connecting with a GLOBE teacher, school, institution
  - Using globe.gov to connect with GLOBE members
- Participate as an individual in the GISN
  - Writing and posting a blog for globe.gov
  - GLOBE social media
  - Proposing a field campaign

# Agenda

- What is GLOBE?
  - Brief overview of the GISN



# Global Learning and Observations to Benefit the Environment

International science and education program. Launched in 1995.

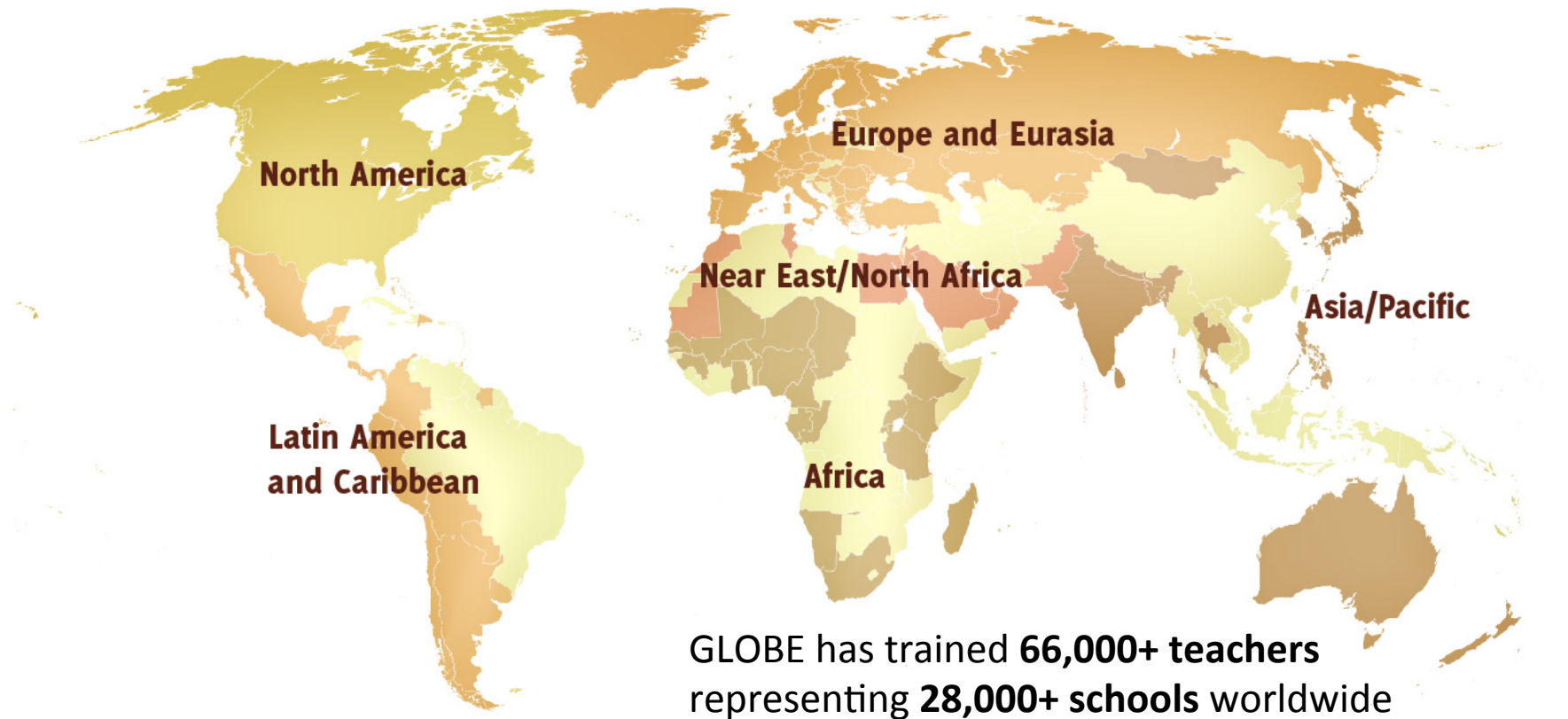
## Program Goals:

- **Improve** student understanding across the curriculum;
- **Enhance** environmental awareness;
- **Contribute** to scientific understanding of Earth as a system; and
- **Inspire and Connect** the next generation of global scientists



# GLOBE Around the World

**112+ Countries across 6 GLOBE regions**



# Examples of GLOBE Protocols

- Atmosphere

- Air temperature, precipitation, clouds, ozone, aerosols



- Hydrology

- Temperature, pH, total nitrogen, salinity

- Soils

- Soil moisture, temperature, characterization



- Land Cover/Biology

- Tree biometry, land cover, fire fuel

- Phenology (Earth as a System)

- Green-up/-down, hummingbirds



# INSERT POLL

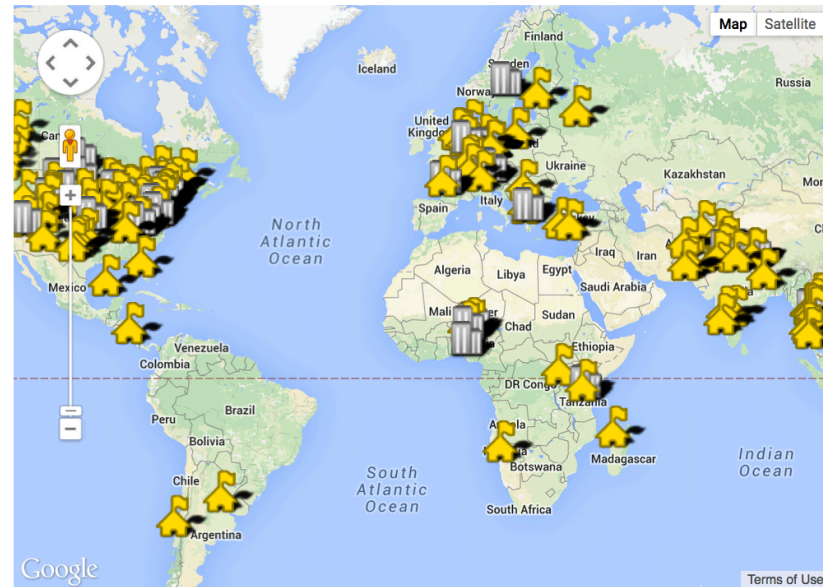
- Are you in the GLOBE International Scientist Network? Y/N



# GLOBE International Scientist Network

- Network of ~200 scientists from all six GLOBE regions

Members Locations



- Meet certain requirements (education, experience, field)
- Partner with GLOBE schools in a variety of ways

# GLOBE International Scientist Network

## Why scientists participate in the GISN

1. Strong desire to *mentor and inspire young minds*
2. GLOBE *scientific database* to supplement standard research data
3. GLOBE students can *collect additional data*
4. Establish an *international component* to research
5. GLOBE students want to be a part of real-world, *cutting edge science*

## GLOBE International Scientist Members

Total GISN Members (207)

Date Updated 4 February 2015

The GISN has over  
200 members!

### Africa

- Sylvester Chaisamba (Tanzania)
- Elisabé Cloete (South Africa)
- Eunice Jestu Makungu (Tanzania)
- Benjamin Mapani (Namibia)
- Okoye Celestine Nwoye (Nigeria)

- Chukwuocha Ephraim Okechukwu (Nigeria)
- Olawale Ayodeji Oluwafemi (Nigeria)
- Lala Sahondra Rafarasoa (Madagascar)
- Oluwadare Seun (Nigeria)
- Chidiebere Ofoegbu (South Africa)
- Santjie du Toit (South Africa)

### Asia and Pacific

- K. C. Siva Balan (India)
- Govinda Bhandari (Nepal)
- Koushik Bhattacharya (India)
- Umarporn Charusombat (Thailand)
- Pongrat Dumrongrojwattana (Thailand)
- Syeda Kareema Ghouse (India)
- Christina Renee Hyde (Japan)
- Krisanadej Jaroensutasinee (Thailand)
- Mullica Jaroensutasinee (Thailand)
- Kemi Jona (Thailand)
- Rittirong Junggoth (Thailand)
- Niharika Krishna (India)
- Akshay Kulkarni (India)
- Binod Kumar (India)
- V. R. Minoj (India)
- Saiyad Nadaf (India)
- Charlie Navanugraha (Thailand)

- Sajjan Neupane (Nepal)
- Napaporn Phankamolsil (Thailand)
- Patrawut Pusingha (Thailand)
- Srinivas Sashikanth (India)
- Him Lal Shrestha (India)
- Tanuja Shrestha (Nepal)
- Omkar Singh (India)
- Pawan Kumar Singh (India)
- Nantida Sutummawong (Thailand)
- Basa Swaminath (India)
- Tawatchai Tanee (Thailand)
- Abha Tewary (India)
- Sompong Thammathaworn (Thailand)
- Penkhae Thamsenanupap (Thailand)
- Narisara Thongboonchoo (Thailand)
- Chanawat Tuntivananuruk (Thailand)
- Pornpun Waitayangkoon (Thailand)
- Sadhana Yadav (India)

### Europe and Eurasia

- Lachezar Hristov Flichev (Bulgaria)
- Athina Papatheodoulou (Cyprus)
- Jana Albrechtová (Czech Republic)
- Luboš Borůvka (Czech Republic)
- Josef Bruna (Czech Republic)
- Zuzana Lhotáková (Czech Republic)
- Karel Lípá (Czech Republic)

- Ines Borriane (Germany)
- Karl Schneider (Germany)
- Maiken Winter (Germany)
- Nektaria Adaktylou (Greece)
- Despina Deligiorgi (Greece)
- Gilberto Bragato (Italy)
- Marco Contin (Italy)
- Nazzareno Diodato (Italy)
- Alberto Orgiazzi (Italy)
- Francesca Rapparinini (Italy)
- Ron de Goede (Netherlands)
- Elise Hendriks (Netherlands)
- Krzysztof Markowicz (Poland)
- Alexandra Loshkareva (Russia)
- Karen Moore (Sweden)
- Anett Hofmann (Switzerland)
- Ganga Datta Nepal (Switzerland)
- This Rutishauser (Switzerland)
- Mandy Haywood (United Kingdom)

Click on any of the  
names to see the  
GISN member's  
profile

### Latin America and Caribbean

- Chris Arbuckle (Argentina)
- Cintia Romina Avila (Argentina)
- Ana Beatriz Prieto (Argentina)
- Matilde Rusticucci (Argentina)
- Roberto Rondanelli (Chile)

- Paul Manuk Critician Vega (Chile)
- Jeison Corrales (Costa Rica)
- Edwin Sanchez (Dominican Republic)
- Waleska Aldana Segura (Guatemala)
- Héctor Estrada Medina (Mexico)

### Near East and North Africa

- George Mitri (Lebanon)
- Mir M Akmal Khan Jamali (Pakistan)
- Samira Riz (Pakistan)

- Ahmed Ali Shah (Pakistan)
- Imran Aziz Tunio (Pakistan)
- Rowaid Ullah (Pakistan)

### North America

- Anjuli Ahoja (Canada)
- Katherine Boggs (Canada)
- Alex Chattwood (Canada)
- Henk de Vries (Canada)
- Paul Hamilton (Canada)
- Lara Treiber (Canada)
- Mariane Abdillahi (USA)
- Deepthi Achuthavarier (USA)
- Steve Albers (USA)
- Yasameen Azarbaijani (USA)
- Susan Ballinger (USA)
- Mona Behl (USA)
- Jesse E. Bell (USA)
- Carl Berman (USA)
- Jeffrey Bird (USA)
- Robert Blair (USA)
- Emmanuel Boss (USA)
- Carrie Bruce (USA)
- Scott Brusaw (USA)
- Dixon Matlock Butler (USA)
- Carsten Carsten (USA)
- Alison Cawood (USA)
- Lin Chambers (USA)
- Diya Chowdhury (USA)
- Eric Brown de Colstoun (USA)
- Russell Congalton (USA)
- Martha Conklin (USA)
- Kevin Czajkowski (USA)
- Daniel F. D'Amico (USA)
- Narendra Das (USA)
- Anthony Davis (USA)
- Cynthia L. Dinwiddie (USA)
- Piotr Domaszczynski (USA)
- Peter Dorofy (USA)
- Jan U.H. Eitel (USA)
- Thom Eley (USA)
- Todd Ellis (USA)
- Dara Entekhabi (USA)
- Joy Fields (USA)
- Jack Fishman (USA)
- Rico Gazal (USA)
- Matt Gilmore (USA)
- Jesse Goldbaum (USA)
- John Hehr (USA)
- Bill Hilton (USA)
- Robert Hoffman (USA)
- Karl Jarvis (USA)
- Julie Kinkel (USA)
- Andreas J Kirchhefer (USA)
- Martha Robus Kopplin (USA)

- Mark Kulie (USA)
- Irene Ladd (USA)
- Rick Landenberger (USA)
- Margaret (Peggy) LeMone (USA)
- Russanne Low (USA)
- Jessica Mackaro (USA)
- Julie Malmberg (USA)
- Sarah May-Anderson (USA)
- Anil Mehrotra (USA)
- Nargess Memarsadeghi (USA)
- Kristina Merola (USA)
- Mark Miesch (USA)
- Adam Milewski (USA)
- Meg Mobley (USA)
- John D. Moore (USA)
- Stanley T. Mubako (USA)
- Faith K. Muriithi (USA)
- Ravi Naiknaware (USA)
- Gretchen Neigh (USA)
- Jim Nissen (USA)
- Dev Niyogi (USA)
- Eni Njoku (USA)
- Mary O'Neill (USA)
- Matthew Partin (USA)
- Annie Pepper (USA)
- Erika Podest (USA)
- Eileen Poeter (USA)
- Barry Rock (USA)
- Angela Rowe (USA)
- Sonali Saha (USA)
- Timothy Schmit (USA)
- Philip C Short (USA)
- Lesley Smith (USA)
- Jenise Snyder (USA)
- Jennifer Sobeck (USA)
- Elena Sparrow (USA)
- Diane Stanitski (USA)
- Sarah Summers (USA)
- Sabah Syed (USA)
- Tsegaye Tadesse (USA)
- Lauri Taylor (USA)
- Natalie Tourville (USA)
- Travis Toth (USA)
- Christy Wall (USA)
- Victoria Walsey (USA)
- Tim Warner (USA)
- Scott Wiley (USA)
- David Worton (USA)
- Reddy Yatavelli (USA)
- Kenji Yoshikawa (USA)

# POLL

Are you currently doing outreach with schools?



# Agenda

- What is GLOBE?
  - Brief overview of the GISN
- Setting up your GISN account
  - How to create a profile on globe.gov
  - How to update your profile on globe.gov

# Create a GLOBE login

**THE GLOBE PROGRAM**

English  
Log In



**GLOBE Students Win Young Leaders Prize of Trinidad and Tobago**

GLOBE students in Trinidad and Tobago challenged themselves to develop new and innovative methods of water conservation and management based on hydrology studies using GLOBE protocols. Their research project "Water Beyond the Surface - Sustaining Life, Securing our

2/75 ◀ prev | next ▶

Home Teaching & Learning Explore Science Community News Events Media About GLOBE Join Search

Email Address

Password

☐ Remember Me

Sign In

[Join GLOBE](#) [Forgot Password](#)

# Create a GLOBE Profile through "My Page"



The screenshot shows the GLOBE Program website interface. At the top, there is a navigation bar with a "Toggle Edit Controls" link. The main header features the GLOBE logo and the text "THE GLOBE PROGRAM". A large red arrow points from the top right towards the "My Page" dropdown menu. The dropdown menu is open, showing options: "Go to", "Kristin M. Wegner (Sign Out)", "My Page", "Visualize and Retrieve Data", "GLOBE Implementation Office", "North America", "United States of America", "Maryland", "Colorado", "NASA Goddard Space Flight Center", "The GLOBE Program", "NCAR Footprints Lab", "Community Feedback Forum", "GLOBE Across the Curriculum", "GLOBE Xpedition", "GPM", "GLOBE.gov", "Partners and CC Community", "Stage 1 Beta", "Student Climate Research Campaign (SCRC)", and "Trainers".

The main content area features a large banner image of a globe with a red arrow pointing to the "My Page" dropdown menu. Below the banner, there is a section titled "Students Examine Water Quality in Rijeka, Croatia" with a photo of three students and a text box describing their project. The text box contains the following text: "Three students from the Medical High School in Rijeka, Croatia took third place in the 2013 GLOBE Student Research Exhibition for their project 'Water Quality and Revitalization Potential of the Mrtvi Kanal Channel' at the GLOBE Annual Meeting. Their research investigation concerned the channel of stagnant water running".

The left sidebar contains a "Welcome to GLOBE" section with a description of the program and a "Learn More about GLOBE" link. Below this is a "New to GLOBE?" section with icons for Teachers, Parents and Students, Scientists, and Contact GLOBE.

The right sidebar contains a "GLOBE Community" section with links to "Enter Live Data", "Enter Training Data", and "Collaboration Groups". Below this is a "Visualize and Retrieve Data" section with a map and a "Connect Students to GLOBE Partner Satellite Missions" section with a satellite image. At the bottom right is a "GLOBE profiles" section featuring a profile for Asma Salim Rashid AlBelushi, Country Coordinator Oman, with a "View My Profile" link.

The bottom navigation bar includes links for Home, Teaching & Learning, Explore Science, Community, News, Events, Media, About GLOBE, and Join. A search bar is also present.

# Create a GLOBE Profile through “My Page”

 **THE GLOBE PROGRAM**

English

Log Out

Home Teaching & Learning Explore Science Community News Events Media About GLOBE Join

Search

---

**Julie Malmberg**

Profile Data Entry Collaboration Blog

  
[Change](#)

Dr. Julie Malmberg  
Education, Outreach, and  
Technology Specialist

**Account Status:**  
GLOBE Member

**Training Status:**  
Trained

**User Type:**  
Blogger  
GPO  
Scientist  
Teacher  
Trainer

**Member Network**  
  
GLOBE Implementation  
Office

Dr. Julie Malmberg is an outreach, education, and technology specialist at the GLOBE Implementation Office. She is also the GLOBE Distinguished Educator Fellowship Coordinator.

Julie has a PhD in Geography from the University of Colorado at Boulder, where she studied human-environment interactions. Her focus was perceptions and memories of weather, climate, and climate change. Julie also has her MS and BS in Atmospheric Sciences from the University of Illinois at Urbana-Champaign.

 Date Modified: 02/02/2015

**Student Accounts**

L2R  
[new account](#)

NCAR Foothills Lab  
[new account](#)

The GLOBE Program  
[new account](#)

**Member Activities**

January 28

 Julie Malmberg updated a document, 2015\_GLOBE\_art\_calendar\_final..., in GLOBE.gov. 2:52 PM

Number of my students using GLOBE this year: **100**  
[Edit](#)

**Recognition** **Protocols and Activities Used**

**GLOBE Member Recognition**

  
2012

**Member Location**

The GLOBE Program

  
Laboratory Facilities  
Map Satellite  
Foothills Pkwy  
Talsman Ct  
Mitchell Ln  
Macintosh I  
47th



# Create a GLOBE Profile through “My Page”

 THE GLOBE PROGRAM

English


Log Out

Home Teaching & Learning Explore Science Community News Events Media About GLOBE Join

Search

## Julie Malmberg

Profile Data Entry Collaboration Blog

[Change](#)

Dr. Julie Malmberg  
Education, Outreach and  
Technology Specialist

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NCAR Foothills Lab
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**Member Activities**

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**Member Location**

The GLOBE Program



**Training Status:**  
Trained

**User Type:**  
Blogger  
GPO  
Scientist  
Teacher  
Trainer

**Member Network**



GLOBE Implementation Office

**Recognition** **Protocols and Activities Used**

**GLOBE Member Recognition**

  
2012

**Number of my students using GLOBE this year: Edit** 100

# My "Collaboration" Page

Here you can  
see your  
groups,  
friends,  
recent  
activity



[Home](#) [Teaching & Learning](#) [Explore Science](#) [Community](#) [News](#) [Events](#) [Media](#) [About GLOBE](#) [Join](#)

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## Kristin M. Wegner

[Profile](#) [Data Entry](#) [Collaboration](#)


### Groups

Group Name	Members
GLOBE Across the Curriculum	16
GPM	33
Guest	7430
Partners and CC Community	648
Stage 1 Beta	25

Showing 1 to 5 of 6 entries

### Wall


[Post](#)



added most of the GLOBE/NGSS Photos to my Ed. Programs image gallery. Looks like my partnership doesn't have an image gallery. Here is the link: <http://www.globe.gov/web/iowa-academy-of-science-ed.-programs/image-gallery>

Posted on 11/13/13 1:48 PM.


[Wall-to-Wall](#) [Write on Marcy Seavey's Wall](#) [Delete](#)



Thanks for posting this, Marcy!

Posted on 5/10/13 3:41 PM.

[Write on My Wall](#) [Delete](#)



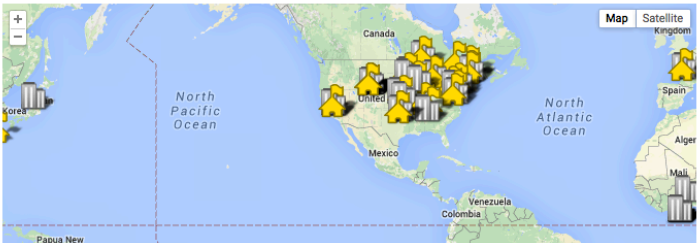
Hi Kristin, Here is the NGSS Discussion Link! [http://www.globe.gov/group/u.s.-globe-partner-forum/discussions/-/message\\_boards/message/6170476?p\\_auth=T0D0NsrA](http://www.globe.gov/group/u.s.-globe-partner-forum/discussions/-/message_boards/message/6170476?p_auth=T0D0NsrA)

Posted on 5/10/13 2:55 PM.


[Wall-to-Wall](#) [Write on Marcy Seavey's Wall](#) [Delete](#)

Showing 3 results.


### Friends Map




You have 35 friends.




Julie Malmberg




Jessica Taylor



David Overoye



Dorian Janney



Lynne Harris Hehr

[Next](#)

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## Partners

Overview **Featured Partners** Partner/Country Coordinator Search

### International Partners

Internationally, GLOBE is implemented through bilateral agreements between the U.S. government and governments of partner nations. Currently there are 112 GLOBE Countries which can be viewed using the link below. If your country is not on this list, and you would like information about participating in GLOBE, please contact the GLOBE Help Desk.

[View Country Coordinators](#)

### U.S. Partners

The GLOBE Program enters into partnerships with U.S. organizations which undertake efforts to recruit GLOBE schools, train GLOBE teachers, and mentor GLOBE teachers and their students in their efforts to implement GLOBE and engage in GLOBE research activities. States and territories where GLOBE partners are active can be found using the link below. If there is no Partner listed below for your state, and you would like information about joining GLOBE, please contact the GLOBE Help Desk.

[View U.S. Partners](#)

[Become a GLOBE Partner](#)

[Access the Partners Management Group](#)

Community Map

Find a Collaboration Partner

Collaboration Groups

Regions and Countries

**Partners**

Schools-Teachers-Students

Scientist Network

Alumni

GLOBE Working Groups

Collaborating Organizations

GLOBE Implementation Office

STEM Stories

Satellite Partnerships

### Featured Profile



**Zakeya Ali**

Zakeya Ahmed Ali has been involved with the GLOBE Program for the past twelve years, serving as the Bahrain Country Coordinator and Chair of GIAC 2006-2008.

[Feature Profile Archive](#)

## Partners

Overview

**Featured Partners**

Partner/Country Coordinator Search

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[Become a GLOBE Partner](#)

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### Featured Profile



**Zakeya Ali**

Zakeya Ahmed Ali has been involved with the GLOBE Program for the past twelve years, serving as the Bahrain Country Coordinator and Chair of GIAC 2006-2008.

[Feature Profile Archive](#)

# To find a U.S. Partner or Country Coordinator



English

Log In

Home Teaching & Learning Explore Science **Community** News Events Media About GLOBE Join

Search

## Community Map

- ☐ Schools
- ☐ Regional Offices
- ☒ Country Coordinators
- ☐ U.S. Partners
- ☐ In-Country Partners
- ☐ Teachers
- ☐ Alumni
- ☐ Master Trainers
- ☐ Trainers
- ☐ Scientists
- ☐ GIAC
- ☐ Affiliates

Table View



### Africa 22 Countries

Benin  
 Burkina Faso  
 Cameroon  
 Cape Verde  
 Chad  
 Congo, The Republic of  
 Ethiopia  
 Gabon  
 Gambia

### Asia and Pacific 17 Countries

Australia  
 Bangladesh  
 Fiji  
 India  
 Japan  
 Korea, South  
 Maldives  
 Marshall Islands  
 Micronesia  
 Mongolia

### Europe and Eurasia 41 Countries

Austria  
 Belgium  
 Bulgaria  
 Croatia  
 Cyprus  
 Czech Republic  
 Denmark  
 Estonia  
 Finland

### Latin America and Caribbean 19 Countries

Argentina  
 Bahamas  
 Bermuda  
 Bolivia  
 Chile  
 Colombia  
 Costa Rica  
 Dominican Republic

### Near East and North Africa 13 Countries

Bahrain  
 Egypt  
 Jordan  
 Kuwait  
 Lebanon  
 Mauritania  
 Morocco  
 Oman  
 Pakistan

### North America 2 Countries

Canada  
 United States of America



# To find a U.S. Partner or Country Coordinator

 **THE GLOBE PROGRAM** English Log In

Home Teaching & Learning Explore Science **Community** News Events Media About GLOBE Join

### Community Map

- ☐ Schools
- ☐ Regional Offices
- ☒ Country Coordinators
- ☐ U.S. Partners
- ☐ In-Country Partners
- ☐ Teachers
- ☐ Alumni
- ☐ Master Trainers
- ☐ Trainers
- ☐ Scientists
- ☐ GIAC
- ☐ Affiliates

Table View

Zoom in and out to explore the map



Country  State/Province  City  Schools  Organizations 

#### Africa

22 Countries

-  Benin
-  Burkina Faso
-  Cameroon
-  Cape Verde
-  Chad
-  Congo, The Republic of
-  Ethiopia
-  Gabon
-  Gambia

#### Asia and Pacific

17 Countries

-  Australia
-  Bangladesh
-  Fiji
-  India
-  Japan
-  Korea, South
-  Maldives
-  Marshall Islands
-  Micronesia

#### Europe and Eurasia

41 Countries

-  Austria
-  Belgium
-  Bulgaria
-  Croatia
-  Cyprus
-  Czech Republic
-  Denmark
-  Estonia
-  Finland

#### Latin America and Caribbean

19 Countries

-  Argentina
-  Bahamas
-  Bermuda
-  Bolivia
-  Chile
-  Colombia
-  Costa Rica
-  Dominican Republic

#### Near East and North Africa

13 Countries

-  Bahrain
-  Egypt
-  Jordan
-  Kuwait
-  Lebanon
-  Mauritania
-  Morocco
-  Oman
-  Pakistan

#### North America

2 Countries

-  Canada
-  United States of America

# To find a U.S. Partner in your state

## Community Map

- ☐ Schools
- ☐ Regional Offices
- ☐ Country Coordinators
- ☒ U.S. Partners
- ☐ In-Country Partners
- ☐ Teachers
- ☐ Alumni
- ☐ Master Trainers
- ☐ Trainers
- ☐ Scientists
- ☐ GIAC
- ☐ Affiliates

Table View

Zoom in and out to explore the map

Country | State/Province | City | Schools | Organizations

### Africa

22 Countries

- Benin
- Burkina Faso
- Cameroon
- Cape Verde
- Chad
- Congo, The Republic of
- Ethiopia
- Gabon
- Gambia

### Asia and Pacific

17 Countries

- Australia
- Bangladesh
- Fiji
- India
- Japan
- Korea, South
- Maldives
- Marshall Islands
- Micronesia
- Mongolia

### Europe and Eurasia

41 Countries

- Austria
- Belgium
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland

### Latin America and Caribbean

19 Countries

- Argentina
- Bahamas
- Bermuda
- Bolivia
- Chile
- Colombia
- Costa Rica
- Dominican Republic

### Near East and North Africa

13 Countries

- Bahrain
- Egypt
- Jordan
- Kuwait
- Lebanon
- Mauritania
- Morocco
- Oman
- Pakistan

### North America

2 Countries

- Canada
- United States of America



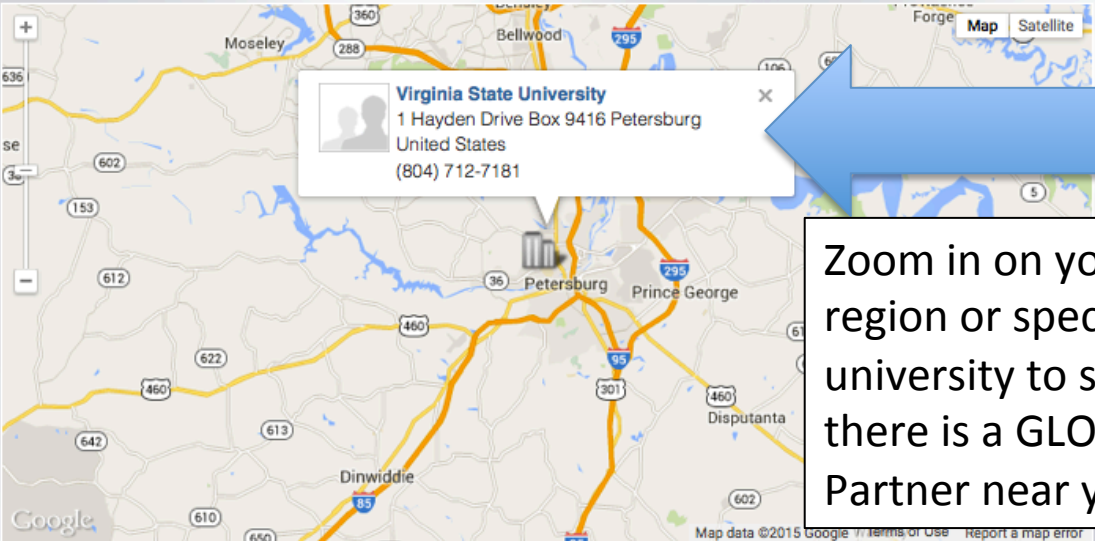
# Is your Organization a Partner?

Home Teaching & Learning Explore Science **Community** News Events Media About GLOBE Join Search

## Community Map

- ☐ Schools
- ☐ Regional Offices
- ☐ Country Coordinators
- ☒ U.S. Partners
- ☐ In-Country Partners
- ☐ Teachers
- ☐ Alumni
- ☐ Master Trainers
- ☐ Trainers
- ☐ Scientists
- ☐ GIAC
- ☐ Affiliates

Table View



**Virginia State University**  
1 Hayden Drive Box 9416 Petersburg  
United States  
(804) 712-7181

Zoom in on your region or specific university to see if there is a GLOBE Partner near you

Country State/Province City Schools Organizations

Africa 22 Countries	Asia and Pacific 17 Countries	Europe and Eurasia 41 Countries	Latin America and Caribbean 19 Countries	Near East and North Africa 13 Countries	North America 2 Countries
Benin	Australia	Austria	Argentina	Bahrain	Canada
Burkina Faso	Bangladesh	Belgium	Bahamas	Egypt	United States of America
Cameroon	Fiji	Bulgaria	Bermuda	Jordan	
Cape Verde	India	Croatia	Bolivia	Kuwait	
Chad	Japan	Cyprus	Chile	Lebanon	
Congo, The Republic of	Korea, South	Czech Republic	Colombia	Mauritania	
Ethiopia	Maldives	Denmark	Costa Rica	Morocco	
Gabon	Marshall Islands	Estonia	Dominican Republic	Oman	
Gambia	Micronesia	Finland		Pakistan	

## Virginia State University

Overview Contact Info News Events Resources



Year Joined: 2010  
Contact Us

### Members

This organization has 1 members.



Shobha Sriharan  
GLOBE Partner

Showing 1 - 1.  
Show All

### Parent Organizations



North America



United States of  
America



Virginia

### Schools



Colonial Heights



Elkhardt Middle School



Henderson Middle  
School (USVAOEBT)



Matoaca High School



Morgan State University



Petersburg High School  
(USVAIJST)



Sussex Central High

Virginia State University (VSU) recognizes that the GLOBE Teacher Training Modules will enhance its community outreach activities on earth and environmental sciences, in Southside Virginia. The mission of VSU's School of Agriculture is to promote teaching, research, and extension/outreach activities in the areas of agricultural, earth, environmental, plant, and soil sciences. Through its USDA Capacity Building Teaching Grants, VSU GLOBE Partnership will focus on training high school teachers in integrating environmental and earth sciences concepts and hands-on activities, and use of Geographic Information System (GIS) and Global Positioning System (GPS), in the existing science curriculum at the high schools in Southside Virginia. The goals of VSU for GLOBE partnership are:

- (1) To improve the instruction of Earth and Environmental Sciences and Biology for grades 9-12 through teacher training in the high schools in target area;
- (2) To build a cadre of trainers at VSU and neighboring GLOBE partner HBCUs in Virginia, Maryland, Delaware, and North Carolina, who in turn, will conduct teacher training programs in Earth and Environmental Sciences, and Use of Geospatial Technologies (GIS and GPS);
- (3) To host teacher training programs (workshops and summer courses) at VSU so that participating teachers implement GLOBE Protocols on Soils, Land Cover, Hydrology, Climate Change, and Applications of Geospatial Technologies (GIS and GPS) in classroom pedagogy; and
- (4) To assist the target high schools in acquiring resources and supplies/software for teaching the GLOBE Protocols for enhancing earth and environmental sciences curriculum and instruction.

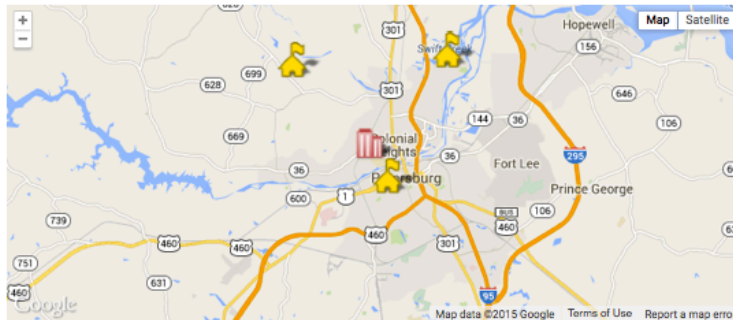
### News

No Current News Available

### Events

No Current Events Available

### Organization Map



### Organization Measurements and Accomplishments

#### Participation

9 Teachers	8 Schools
0 Pre-Service Teachers	225 Students
0 Data Entries	0 Honor Rolls

#### Most Used

#### Training

#### Protocols:

#### Learning Activities:

# Explore Partner Information

## Virginia State University

[Overview](#)[Contact Info](#)[News](#)[Events](#)[Resources](#)

### Organization Profile

#### U.S. Partner Coordinator & Training Point of Contact

Shobha Sriharan, Ph.D  
Professor, Environmental Science & USDA Project Director  
Department of Agriculture & Human Ecology  
Virginia State University  
1 Hayden Drive  
Box 9416  
Petersburg, VA 23806  
Telephone: (804) 712-7181  
Fax: (804) 524-5054  
Email: [ssriharan@vsu.edu](mailto:ssriharan@vsu.edu)

#### Further Information

Partnership Homepage: <http://www.vsu.edu>  
Partner homepage: <http://www.vsu.edu/pages/392.asp>

Dr. Shobha Sriharan  
GLOBE Partner  
1 Hayden Drive  
Box 9416  
Petersburg, Virginia 23806  
United States  
Phone: (804) 712-7181  
Fax: (804) 524-5054  
[ssriharan@vsu.edu](mailto:ssriharan@vsu.edu)



Explore Partner  
Contact Information

## GLOBE International Scientist Network


Overview **Community Members** GISN Members GISN Resources Ways to Participate Discussions Useful Links


### Group Search


### Members


This community has 386 members.

 **Mariane Abdillahi**  
GLOBE Scientist

 **Eric ABGRALL**  
Teacher

 **Deepthi Achuthavarier**  
Research Scientist

 **Nektaria Adaktylou**  
Point of Contact for Science

 **Virginia Aguilar**  
Country Coordinator

Showing 1 - 5.

[First](#) [Previous](#) [More](#)

[Show All](#)

### Members Locations




### Members Activities

Yesterday

 **K.C.SIVA BALAN** and **Christina Renee Hyde** are now friends.  
1:17 AM


January 18

 **Binod Kumar** and **nadhira ahmed alharthy** are now friends.  
6:25 AM

January 16

 **Elise Hendriks** and **Todd Ellis** are now friends.  
4:29 PM

January 16

 **K.C.SIVA BALAN** and **Sadhana Yadav** are now friends.  
5:41 AM

January 15

 **K.C.SIVA BALAN** and **Teresa Kennedy** are now friends.  
7:40 AM

January 15

 **Julie Malmberg** and **Paul Hamilton** are now friends.  
5:07 AM

January 15

 **Govinda Bhandari** and **Paul Hamilton** are now friends.  
5:06 AM

In the GISN Community you can:

- See who else is in the community
- “Friend” GISN community members
- Once “friends,” can directly email

## GLOBE International Scientist Network


Overview **Community Members** GISN Members GISN Resources Ways to Participate Discussions Useful Links


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Research Scientist

 **Nektaria Adaktylou**  
Point of Contact for Science

 **Virginia Aguilar**  
Country Coordinator

Showing 1 - 5.

[First](#) [Previous](#) [More](#)

[Show All](#)

### Members Locations



### Members Activities

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- Once “friends,” can directly email



## Eric Brown de Colstoun

Profile

Data Entry

Collaboration

Blog



Dr. Eric Brown de Colstoun  
Physical Scientist

 [Add as Friend](#)

**Account Status:**  
GLOBE Member

**Training Status:**  
[Trained](#)

**User Type:**  
[Scientist](#)  
[Teacher](#)  
[Trainer](#)

### Member Network



NASA Goddard Space Flight  
Center (USMDJUT3)

Dr. Eric Brown de Colstoun is a Physical Scientist and Coordinator of Earth Science Education and Public Engagement, Earth Sciences Division, NASA Goddard Space Flight Center, Greenbelt, MD

Eric has been working in the Biospheric Sciences Branch (Code 614.4) at Goddard for over 11 years, first as a Senior Scientist with Science Systems and Applications Inc. (SSAI), and more recently as an Associate Research Scientist with the Goddard Earth Science and Technology (GEST) Center at UMBC.

Dr. Brown de Colstoun's expertise in the field of remote sensing is varied, having used data collected at local to continental and global spatial scales, with a variety of instrumentation (laboratory, field, airborne, satellite), and covering the spectral, temporal, spatial, and bidirectional domains of remote sensing. Currently, his research interests include the study of various aspects of land cover, land use, and land cover/use change from the Landsat satellite, as well as the consequences of these changes on the Earth. He was a member of the team selected to develop the Visible/Infrared Imager/Radiometer Suite (VIIRS) sensor onboard the future National Polar Orbiting Environmental Satellite System (NPOESS) and NPOESS Preparatory Project (NPP) satellite platforms and is a former member of the NPP Science Team. He led the development of operational global land cover classification algorithms for VIIRS, and collaborated in the VIIRS sensor design.

His passion is to effectively communicate to a broader non-scientific community what NASA does, what NASA sensors measure, and the significance of this research for societal needs. It is also to engage and inspire the public/students/educators to actively participate in the NASA Earth Science experience.

Number of my students using GLOBE  
this year:

0

#### Protocols and Activities Used

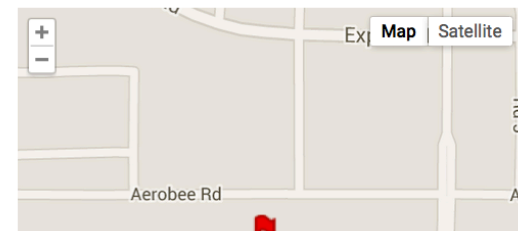
**Protocols:**

NONE

**Learning Activities:**

NONE

### Member Location



# How can I use globe.gov to create new collaborations, both in my local community and virtually?

The screenshot displays the THE GLOBE PROGRAM website interface. At the top, the logo "THE GLOBE PROGRAM" is visible next to a globe icon. A language dropdown menu is set to "English" with a "Log Out" link. The navigation bar includes links for Home, Teaching & Learning, Explore Science, Community, News, Events, Media, About GLOBE, and Join. A search bar is located on the right.

The main content area features a profile for "Virginia State University". A blue arrow points to the "Find a Collaboration Partner" link in the "Community Map" sidebar. The profile includes an "Overview" tab, a placeholder for a profile picture, and text describing the university's involvement in GLOBE activities. Below this, a "Members" section lists one member: Shobha Sriharan, a GLOBE Partner. The "Parent Organizations" section lists North America, United States of America, and Virginia. The "Schools" section lists Colonial Heights and Elkhardt Middle School.

The sidebar on the right contains a "Community Map" menu with options like "Find a Collaboration Partner", "Collaboration Groups", "Regions and Countries", "Partners", "Schools-Teachers-Students", "Scientist Network", and "Alumni". Other sidebar links include "Trainers", "Program Sponsors", "GLOBE Working Groups", "Collaborating Organizations", "GLOBE Implementation Office", "STEM Stories", and "Satellite Partnerships".

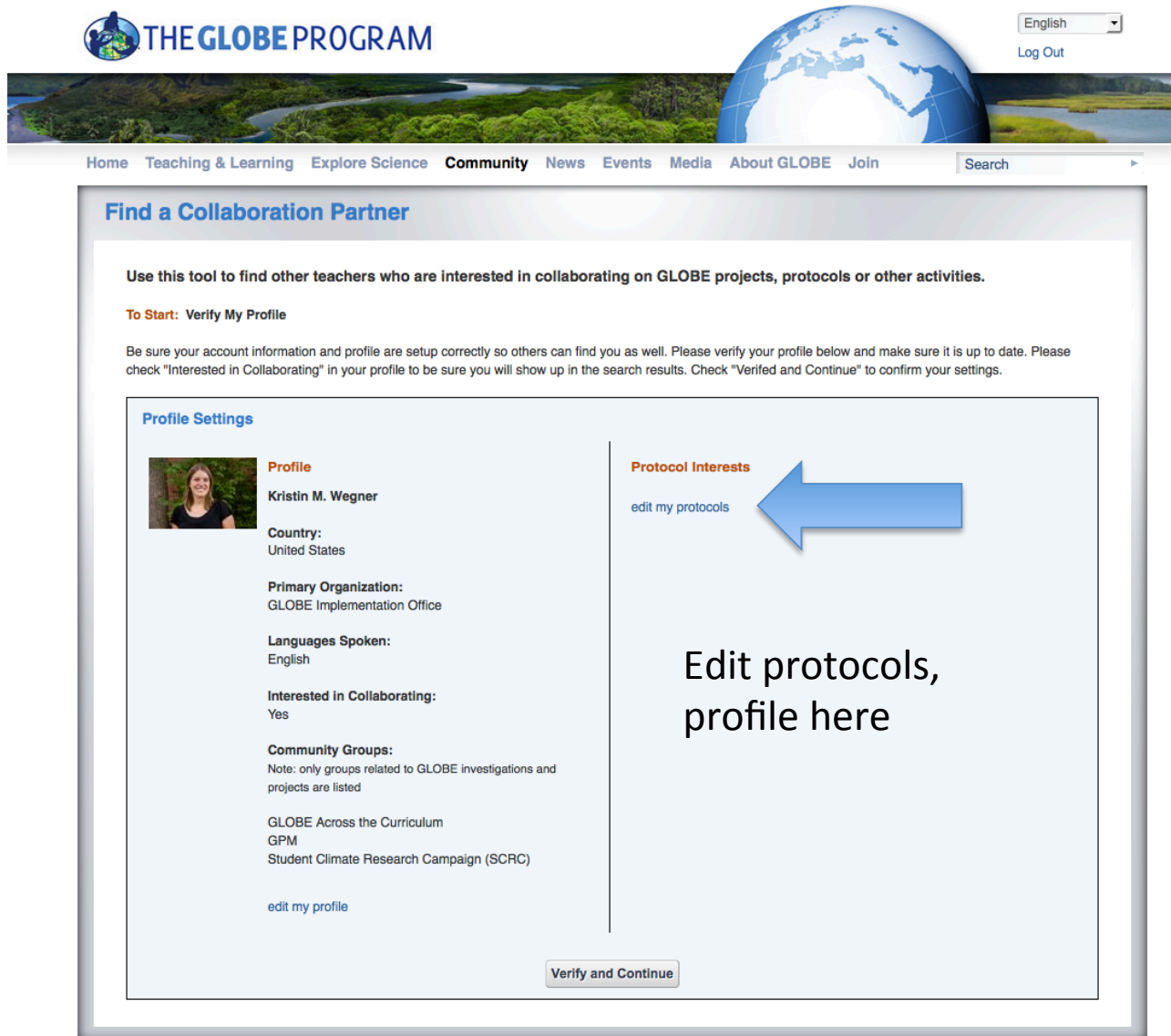
The main content area also includes a "Organization Measurements and Accomplishments" section with a table showing participation statistics:

Organization Measurements and Accomplishments	
Participation	
Teachers	8 Schools
Pre-Service Teachers	225 Students
Data Entries	0 Honor Rolls

Below the table, there are sections for "Most Used" and "Training", "Protocols:", and "Learning Activities:". At the bottom, there are sections for "News" (No Current News Available) and "Events" (No Current Events Available). The "Organization Map" section is partially visible at the bottom.



# How can I use globe.gov to create new collaborations, both in my local community and virtually?



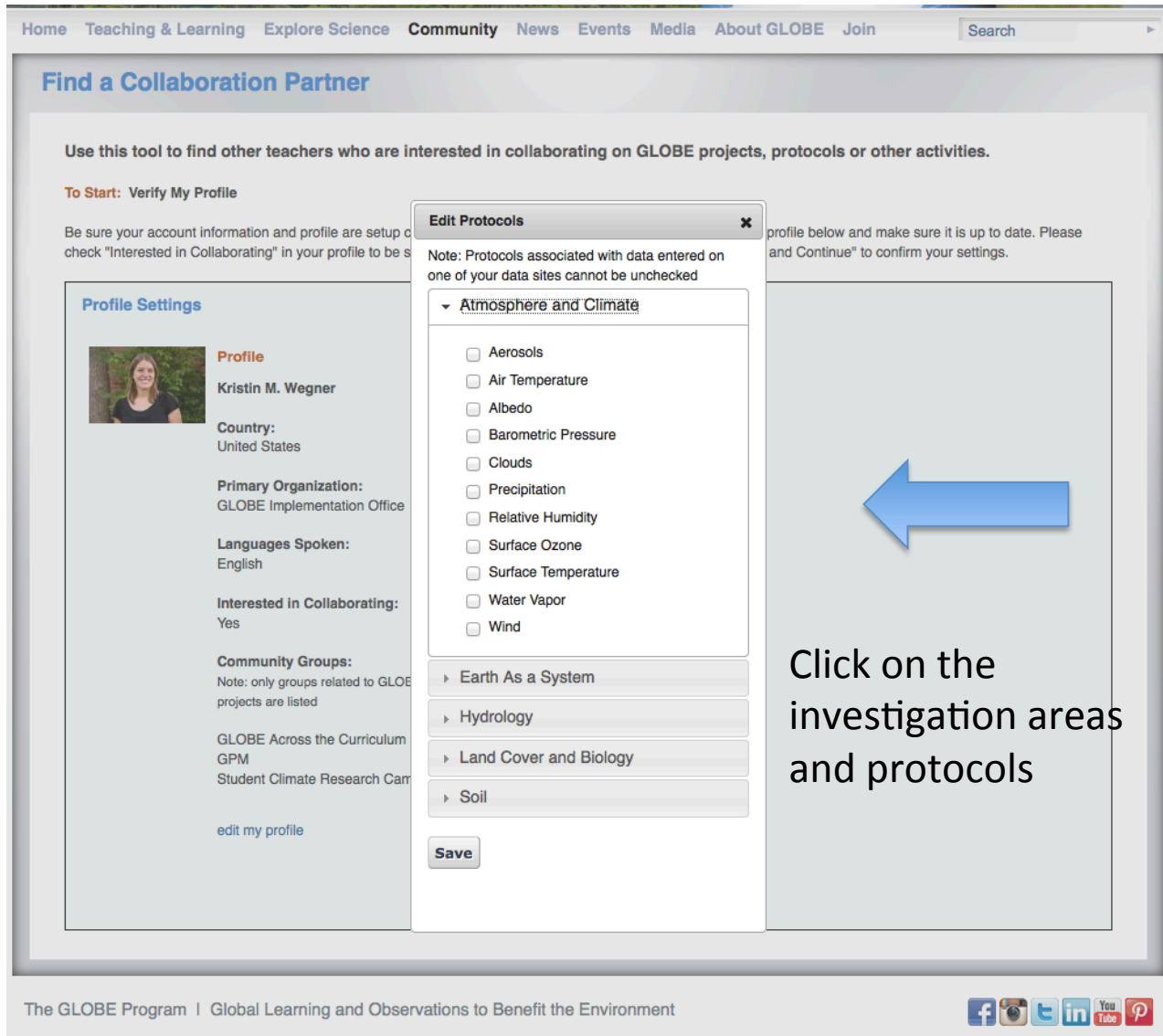
The screenshot shows the GLOBE PROGRAM website interface. At the top, there is a header with the GLOBE PROGRAM logo, a globe image, and a language dropdown menu set to 'English' with a 'Log Out' link. Below the header is a navigation bar with links: Home, Teaching & Learning, Explore Science, Community, News, Events, Media, About GLOBE, and Join. A search bar is also present.

The main content area is titled 'Find a Collaboration Partner'. It includes a sub-header 'Use this tool to find other teachers who are interested in collaborating on GLOBE projects, protocols or other activities.' and a section 'To Start: Verify My Profile'. Below this, there is a paragraph of instructions: 'Be sure your account information and profile are setup correctly so others can find you as well. Please verify your profile below and make sure it is up to date. Please check "Interested in Collaborating" in your profile to be sure you will show up in the search results. Check "Verified and Continue" to confirm your settings.'

The 'Profile Settings' section is divided into two columns. The left column contains a profile picture of Kristin M. Wegner and her details: Country (United States), Primary Organization (GLOBE Implementation Office), Languages Spoken (English), Interested in Collaborating (Yes), and Community Groups (GLOBE Across the Curriculum, GPM, Student Climate Research Campaign (SCRC)). There is a link 'edit my profile' at the bottom of this column. The right column is titled 'Protocol Interests' and contains a link 'edit my protocols'. A large blue arrow points from the 'edit my protocols' link towards the text 'Edit protocols, profile here'.

At the bottom of the page, there is a 'Verify and Continue' button.

# How can I use globe.gov to create new collaborations, both in my local community and virtually?



Home Teaching & Learning Explore Science Community News Events Media About GLOBE Join Search

## Find a Collaboration Partner

Use this tool to find other teachers who are interested in collaborating on GLOBE projects, protocols or other activities.

**To Start: Verify My Profile**

Be sure your account information and profile are setup correctly. Check "Interested in Collaborating" in your profile to be sure you are ready to collaborate.

**Profile Settings**

**Profile**  
Kristin M. Wegner  
Country: United States  
Primary Organization: GLOBE Implementation Office  
Languages Spoken: English  
Interested in Collaborating: Yes  
Community Groups: Note: only groups related to GLOBE projects are listed  
GLOBE Across the Curriculum  
GPM  
Student Climate Research Center  
[edit my profile](#)

**Edit Protocols**

Note: Protocols associated with data entered on one of your data sites cannot be unchecked

**Atmosphere and Climate**

- ☐ Aerosols
- ☐ Air Temperature
- ☐ Albedo
- ☐ Barometric Pressure
- ☐ Clouds
- ☐ Precipitation
- ☐ Relative Humidity
- ☐ Surface Ozone
- ☐ Surface Temperature
- ☐ Water Vapor
- ☐ Wind

[Earth As a System](#)  
[Hydrology](#)  
[Land Cover and Biology](#)  
[Soil](#)

[Save](#)

Click on the investigation areas and protocols

The GLOBE Program | Global Learning and Observations to Benefit the Environment

Facebook Twitter LinkedIn YouTube Pinterest

# Using the Search Filter Tool

[Home](#) [Teaching & Learning](#) [Explore Science](#) [Community](#) [News](#) [Events](#) [Media](#) [About GLOBE](#) [Join](#)

## Find a Collaboration Partner

**Use this tool to find other teachers who are interested in collaborating on GLOBE projects, protocols or other activities.**

**Using the Search Filter Tool:**  
Use the search filter below to search for GLOBE members to collaborate with.

On the search results page, you can select the person's name to go to their My Page or select their school to learn about their school. If you'd like to collaborate, select 'Request Friend'. This will send an email to the teacher asking if they'd like to collaborate. If they approve, you will see an email telling you they've accepted your invitation and you will have access to their email on their My Page.

[Close Search Filter](#)

**I am looking to collaborate with a Teacher:**

☒ Apply My Profile Settings

From:

- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States

Who Speaks:

- hrvatski
- český
- dansk
- Nederlands
- English
- Tamil

Is a Member of:

- CloudSat
- Earth as a System
- Elementary GLOBE
- Europe Aerosols Campaign
- GLOBE Across the Curriculum

Who Teaches at:

- Any Grade level
- Primary: K-6
- Secondary: 7-12
- Higher Ed: 13+

Has Entered Data:

Doesn't Matter

**Investigation Areas/Protocols**

Search for teachers that are interested in:

☐ Atmosphere and Climate

☐ Aerosols

☐ Albedo

☒ Clouds

☐ Relative Humidity

☐ Surface Temperature


☒ Air Temperature

☐ Barometric Pressure

☐ Precipitation

☐ Surface Ozone

☐ Water Vapor



**Kristin Wegner**

[view my settings](#)

What are you looking for in a collaboration partner?

Use this tool to find other teachers who are interested in collaborating on GLOBE projects, protocols or other activities.

**Using the Search Filter Tool:**

Use the search filter below to search for GLOBE members to collaborate with.

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**Kristin Wegner**

[view my settings](#)

► [Open Search Filter](#)

**Search Results For: My Profile Settings**

Show  entries

First Name	Last Name ▲	Action	Primary School	Country	Languages	Investigations	Groups	Last Entered Date
Joan	Balla	<a href="#">Request Friend</a>	Buxmont Academy - Bethlehem	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> <li>Hydrology</li> </ul>	Student Climate Research Campaign (SCRC)	12/28/2012
Pat	Benner	<a href="#">Request Friend</a>	Somerset Intermediate School	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> </ul>	GPM	10/15/2014
Marcy	Burns	<a href="#">Request Friend</a>	Main Street Intermediate School	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> <li>Hydrology</li> <li>Land Cover and Biology</li> </ul>	Atmosphere Elementary GLOBE GLOBE Across the Curriculum Student Climate Research Campaign (SCRC)	01/03/2015
Dixon	Butler	<a href="#">Request Friend</a>	Hills Home School	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> <li>Soil</li> </ul>	Atmosphere CALIPSO CloudSat Earth as a System GPM Hydrology Land Cover/Biology SMAP Soil Student Climate Research Campaign (SCRC)	01/09/2015
Karl	Clark	<a href="#">Request Friend</a>	John Marshall High School (USWVU59F)	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> <li>Earth As a System</li> </ul>	Student Climate Research Campaign (SCRC)	12/16/2014
Robert	Connick	<a href="#">Request Friend</a>	Mahopac High School	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> <li>Hydrology</li> </ul>	Student Climate Research Campaign (SCRC)	12/10/2014
Margi	Dashevsky	<a href="#">Request Friend</a>	CLACE	United States	English	<ul style="list-style-type: none"> <li>Atmosphere and Climate</li> </ul>	Great Global Investigation of Climate (GGIC) Student Climate	09/29/2014



- Explore Collaboration “Matches” by similar investigations, groups, location, etc.
- Send a “Friend request”

# Agenda

- What is GLOBE?
  - Brief overview of the GISN
- Setting up your GISN account
  - How to create a profile on globe.gov
  - How to update your profile on globe.gov
- How to Partner with GLOBE
  - Connecting with a GLOBE teacher, school, institution
  - Using globe.gov to connect with GLOBE members
- Participate as an individual in the GISN
  - Writing and posting a blog for globe.gov
  - GLOBE social media
  - Proposing a field campaign

# Poll

- What ways do you currently communicate your science? (multiple selections allowed)
- I don't
- Blogs
- Facebook posts
- Twitter
- Email
- Other (type in the chat window)



## Scientists' Blog

The GLOBE Scientists' Blog is an online collaborative effort where scientists associated with GLOBE post their thoughts, comments, and philosophies about a variety of science topics.

The Scientists' Blog is moderated - anonymous comments are not allowed. GLOBE strongly encourages positive and productive discussions to further advance the scientific understanding of all involved with The GLOBE Program.

Blog entries made to the Scientists' blog prior to 2014 can be found in the [blog archives](#). Archived blogs are for reference only and cannot be commented on.

Year      Month      Category  
       



### GLOBE Surface Temperature Field Campaign Review

By **Kevin Czajkowski** | Posted 1/9/15 11:45 AM

There have been 28 schools that have entered data associated with the GLOBE Surface Temperature Field Campaign for a total of 782 observations. The number of observations for a school is in parenthesis. Al-Fath Secondary School at Abha, Saudi Arabia Brazil High School, Trinidad and Tobago (18) – Thank you Mr. Ali Camanche Elementary School, Iowa, USA Chartiers-Housgon Jr./Sr. High School, Pennsylvania, USA (8)– Thanks Gary Chia-Yi Girls Senior High School, Taiwan (9) Dr. Bessie Rhodes School of Global Studies, Illinois, USA, 8 different sites (41) Feng-Shan Senior High...

[Read More »](#)

Posted in:



### GPM Student Field Campaign: Changing Students to Junior Scientists

By **Olawale Ayodeji Oluwafemi** | Posted 1/6/15 3:51 PM

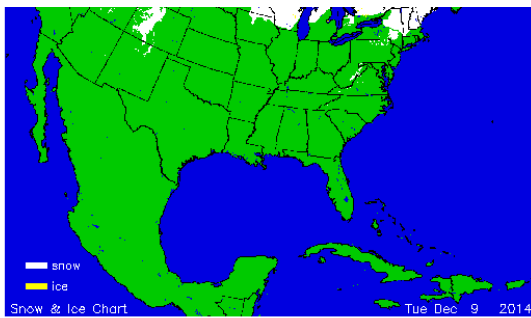
My passion towards Global Precipitation Measurement Mission started when I visited GPM Clean Room at Goddard Space Flight Centre in August 2013 during 18 th GLOBE Annual Partner Meeting in Maryland, United States. Having received a grant from the National Science Foundation (NSF) through University of Toledo, Ohio to participate in the event gave me reasons to maximize the opportunity. As a scientist from Nigerian Space Agency, this opportunity gave a rare privilege to contribute to the development of Environmental Education (EE) in my resource-constrained country and the world at large. ...

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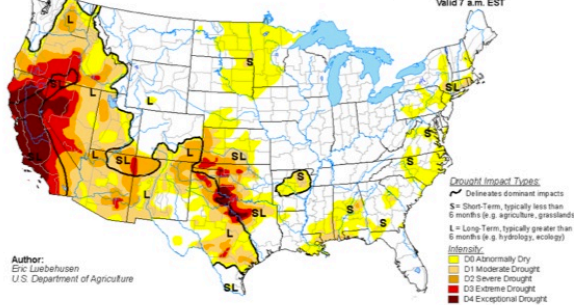
Writing a blog  
post on  
[blog.globe.gov](http://blog.globe.gov)



Did you know that there is a 3-year drought going on in California? It is quite a bad drought at that. The rain how bad droughts are. You can see that most of California is in a severe drought. You can see in the radar if there are a lot of clouds and precipitation shown on the radar. You will see on the 500 mb map that the flow has been country. This type of flow will help storms come into the western US from the ocean and for storms to move. that there is snow moving across the Great Lakes and into the Northeast. This rain in California is not enough. You will see that there will be landslides in California as the ground gets more saturated. **How might a drought affect California?**

## U.S. Drought Monitor

November 25, 2014  
(Released Wednesday, Nov. 26, 2014)  
Valid 7 a.m. EST



Region: United States Pen & Zoom Play Animation



## Surface temperature campaign blog

## GPM

Overview Join Documents Discussions Useful Links Members

## GPM satellite mission blog entry

January 12th, 2015

**Introduction: The Global Precipitation Measurement Mission and GLOBE Student Field Campaign**

by Kristen Weaver, GPM Education Specialist

"The Hook"

How to Participate

Meet the STEM Team

GPM Resources

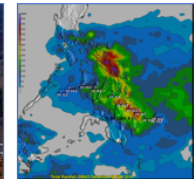
Webinars

Blog Posts

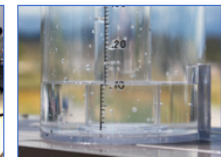
My original topic for this introductory blog was going to be how to participate in the field campaign, but those details are well covered in the "How to Participate" section. For any technical questions, the [GLOBE Support Team](#) is always helpful, or for other questions about the campaign you can get in touch with [me](#) and/or the rest of the GPM Education Team [here](#).

So that taken care of, the question becomes: **Why** should you contribute data to the GPM-GLOBE Student Field Campaign?

For me, the primary reason is that precipitation matters. It affects our lives nearly every day to a greater or lesser extent, whether it's deciding to bring an umbrella when we leave the house or more serious events such as annual flooding from monsoon rain in India and Pakistan, the landslide in Oso, Washington last year, or the effects of tropical cyclones such as the recent Typhoon Hagupit or even more recent Tropical Storm Jangmi, which both hit the Philippines.



Students are likely to see rain and snow information mentioned in the news, but may not have thought about how the data is collected. In fact, a fun activity is to have them try to **build and test their own rain gauge**, which will point out how important it is to have a more accurate gauge such as GLOBE uses. (A more formal lesson plan for the [rain gauge activity](#) is also available on the [GPM Precipitation Education](#) website.) Precipitation data is nicely within reach of students as citizen scientists, since it's fairly easy to collect and doesn't require a lot of equipment – a rain gauge, a post and an open space to put it in.



If that isn't enough, what better hook than a connection to a NASA satellite? After all, NASA is cool. (I'm sure someone, somewhere has done a study on that, right?) The Global Precipitation Measurement Core Observatory, **launched** almost a year ago on February 27<sup>th</sup>, 2014, has instruments that can measure how much precipitation is falling, distinguish between rain, snow and other precipitation types, and look inside storms to see the three-dimensional structure of the clouds. And the mission is more than just one satellite. The **Core Observatory** will serve as a reference standard to unify the precipitation measurements from an entire **constellation of satellites** with similar instruments. That will allow global precipitation measurements about every three hours, data that can be used to improve climate and weather models and for forecasts of hurricanes, floods, droughts and landslides.



# Blogging



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Kevin Czajkowski

Blog

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## GLOBE Surface Temperature Field Campaign Review

By [Kevin Czajkowski](#) | Posted 1/9/15 11:45 AM | 386 Views, 0 Comments | [Flag](#)

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There have been 28 schools that have entered data associated with the GLOBE Surface Temperature Field Campaign for a total of 782 observations. The number of observations for a school is in parenthesis.

Al-Fath Secondary School at Abha, Saudi Arabia

Brazil High School, Tinidad and Tobago (18) – Thank you Mr. Ali

Camanche Elementary School, Iowa, USA

Chartiers-Housgon Jr./Sr. High School, Pennsylvania, USA (8)– Thanks Gary

Chia-Yi Girls Senior High School, Taiwan (9)

Dr. Bessie Rhodes School of Global Studies, Illinois, USA, 8 different sites (41)

Feng-Shan Senior High School, Taiwan

Huntington High School, Huntington, West Virginia, USA (94) – Thanks Rick

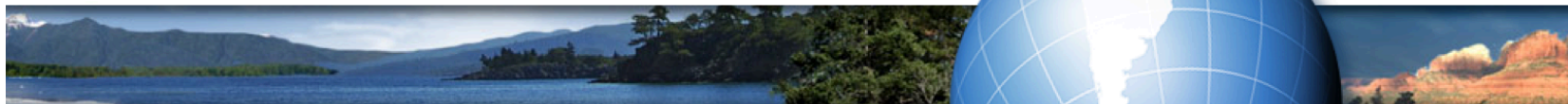
Ida Middle School, Michigan, USA (20) – Thanks Mr. Sinclair

John Marshall High School, West Virginia, USA

Lakewood Catholic Academy, Cleveland, Ohio, USA (54) – Thanks Eilene

Mahopac High School, New York, USA

Main Street Intermediate School, Norwalk, Ohio, USA (76) – Thanks Marcy



## Julie Malmberg

[Profile](#) [Data Entry](#) [Collaboration](#) [Blog](#)

Year

2014

Month

April

Category

All

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### The El Niño Southern Oscillation (ENSO): Formation and Effects on Weather

By **Julie Malmberg** | Posted 4/16/14 10:27 AM | 2498 Views, 0 Comments | [Flag](#)

*A version of this blog was originally posted on November 14, 2012.*

If you have been listening to the news or following along with weather and climate web pages, you have probably heard the term "ENSO." ENSO, or El Niño-Southern Oscillation, is a quasi-periodic climate pattern that occurs in the tropical Pacific Ocean. When the conditions change, the atmosphere responds in many different ways. In certain locations, it is cloudier and it rains more, while in others it's clear and dry. Scientists are forecasting El Niño conditions to start later in 2014.

#### Formation

El Niño is a temporary change in sea surface temperatures of the Pacific Ocean near the Equator. Generally, winds in this region blow strongly from east to west (in the mid-latitudes, like where the GLOBE Program Office is located, winds blow from west to east). Since the winds blow this way over extended periods of time, water in the western Pacific "piles up". The water that piles up in this region is warm (approximately 30°C), since the wind pushes the sun-warmed shallow layer of the ocean to the west. With warmer waters, you tend to see an increase in thunderstorm activity. So this region that has warmer water, like the northern coast of Australia, typically sees thunderstorm activity.

The water further east is colder (approximately 22°C) because the deeper water is pulled up, or upwells, to replace the water that has been pushed away. So areas along the western coast of Equatorial South America will see cold sea surface temperatures.

In a positive phase, also known as **El Niño**, the winds that push the water to the west weaken. Since the winds are weaker or even reverse, not as much water piles up in the western Pacific, so the water slides back toward the east. With the warmer water sliding back toward the east, not as much cold water rises along the coast, which results in warmer waters off the coast of equatorial South America. Once this gets going, the situation continues and strengthens: the warmer waters cause the winds to weaken even further, which results in the ocean warming further, which causes the winds to weaken, which results in the ocean warming, etc.. This is known as positive feedback and allows El Niño to grow.

What happens if the east to west winds actually strengthen? This results in even more warm water piling up in the western Pacific and even more cold water upwelling along the western coast of Equatorial South America. This scenario is known as **La Niña**, or the negative phase of ENSO, and it brings with it different weather patterns. As with El Niño, there is a positive feedback that happens with the winds and allows the event to strengthen: the colder waters cause the winds to strengthen even further, which results in the ocean cooling further, which causes the winds to strengthen, which results in the ocean cooling, etc.




## Julie Malmberg

[Profile](#) [Data Entry](#) [Collaboration](#) [Blog](#)
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### New Blog Entry

Title

Display Date

February ▾	1 ▾	2015 ▾	
3 ▾	:39 ▾	PM ▾	

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# Proposing a Field Campaign

The screenshot shows the GLOBE website homepage. At the top, there is a banner image of a globe with a callout box titled "GLOBE Games in Czech Republic" containing text about students celebrating participation. Below the banner is a navigation bar with links: Home, Teaching & Learning, Explore Science, Community, News, Events, Media, About GLOBE, and Join. A search bar is on the right. The main content area is divided into several sections. On the left, a "Welcome to GLOBE" section describes the program. Below it is a "New to GLOBE?" section with icons for Teachers, Parents and Students, Scientists, and Contact GLOBE. In the center, there is a "GLOBE Science Overview" section with links to Overview, Investigations, Student Zone, and Science Honor Roll. To its right is a "Visualize and Retrieve Data" section with links to Data, Field Campaigns, Instrumentation, and Scientists' Blog. A large red arrow points from the "Field Campaigns" link to the "Proposing a Field Campaign" title. Below the "Visualize and Retrieve Data" section is a "Recent Postings In: Community Feedback Forum" section with a post about SMAP. On the right side, there is a "Visualize and Retrieve Data" section with a map and a "Connect Students to GLOBE Partner Satellite Missions" section. At the bottom right, there is a "GLOBE profiles" section featuring Waleed Abdalati, NASA Chief Scientist.

**GLOBE Games in Czech Republic**  
GLOBE students in the Czech Republic celebrate their participation in the The GLOBE Program through The GLOBE Games, held annually since 1997. The GLOBE Games bring together environmentally concerned students, teachers, scientists and special guests from the Czech Republic and neighboring countries and have

3/75 ◀ prev next ▶

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**Welcome to GLOBE**  
The Global Learning and Observations to Benefit the Environment (GLOBE) program is a worldwide hands-on, primary and secondary school-based science and education program.  
[Learn More about GLOBE ▶](#)

**New to GLOBE?**  
Teachers  
Parents and Students  
Scientists  
Contact GLOBE

**GLOBE Science Overview**  
GLOBE Investigations  
Student Zone  
Science Honor Roll

**Visualize and Retrieve Data**  
Data  
Field Campaigns  
Instrumentation  
Scientists' Blog

**Recent Postings In: Community Feedback Forum**  
**RE: Compare School Data**  
Oh, thank you, somehow I did not see it there, I was trying to find it in the visualisation system! 😊 It is excellent, exactly what I need! Thanks!  
[View All Groups](#)

**Visualize and Retrieve Data**  
Learn how to be a student GLOBE scientist

**Connect Students to GLOBE Partner Satellite Missions**

**GLOBE profiles**  
Waleed Abdalati  
NASA Chief Scientist  
[View My Profile](#)

**News** Events

01/21/2015  
**SMAP Scheduled to Launch 29 January!**  
NASA's Soil Moisture Active Passive Mission (SMAP) is scheduled to launch on 29 January at 9:20 a.m. ET. GLOBE will be having a Launch Party and we encourage teachers to host their own classroom SMAP party! >>

01/12/2015  
**GLOBE Receives Distinguished Educator Award from the American Meteorological Society**  
The American Meteorological Society presented The GLOBE Program with a Distinguished Educator recognition award for excellence and innovation in the promotion of Weather, the Ocean, Climate, the Water Cycle and Space Weather Studies. >>

01/12/2015  
**The Illustrated 2015 GLOBE Calendar is Available Online**  
The 2015 GLOBE Calendar, illustrated with artwork selected from more than 300 submissions from GLOBE students, is now available online. >>



## Surface Temperature Field Campaign

Overview Members Dr. C's Blog Documents Useful Links

### The Surface Temperature Field Campaign

Surface Temperature Field Campaign Web Page

To get started, use the following links to download the:

1. Surface Temperature Field Campaign Teacher's Participation Guide
2. Surface Temperature Protocol
3. Surface Temperature Data Sheet

#### Purpose

The purpose of this investigation is to discover how snow on the ground affects the surface temperature. But, that is not the only reason to participate in the field campaign. The main research question that needs to be answered is "How does surface cover affect surface temperature?" Students can set up research studies at their own school such as looking at the difference between paved and unpaved areas, such as a grassy area. More schools are taking surface temperature observations, therefore students can investigate how surface temperature changes between schools. They could look at elevation, latitude and longitude, urban versus rural, proximity to water, etc. There are many research questions possible with surface temperature. Students could also look at how cloud cover or humidity affect the surface temperature.

#### Overview

##### Timing

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Surface Temperature Field Campaign					X							

#### What to do and how to do it

##### Report data to the GLOBE database

- From your "My Public Page", select "Data Entry" or click on the "Enter Data" icon below
- Under "My Procedures", select your site(s) or "Define, Edit or Update a Site" found at the bottom of the page. If you do not have any procedures listed, choose the protocol from the list of sites under "Available Procedures Based on My Sites" by clicking the plus sign on the right
- Fill in the data form as directed and select "Send Data"

Enter Data



#### Advice from Dr. Czajkowski

Some teachers find it hard to get an infrared thermometer (IRT) to do the protocol. In the past, we have used Fluke 63, but we have used Fluke 561 most recently. If you can't find one of those, you may use a lower cost instrument, however please specify the type of IRT you are using when you set up your surface temperature site. Also, you may be able to borrow one from a heating and cooling specialist or an auto mechanic. They use them for their jobs.

Questions? Contact Dr. Kevin Czajkowski, [kevin.czajkowski@utoledo.edu](mailto:kevin.czajkowski@utoledo.edu)

#### Apply and extend your knowledge

- [Meet the Scientists](#) involved
- [Read Dr. C's Blog](#)

#### Need help?

Email the [GLOBE Science Team](#) if you have questions about the Surface Temperature Field Campaign or need help completing the project.

# Proposing a Field Campaign

<http://www.globe.gov/documents/10157/9033487/Guidelines+for+Campaigns.Final.2013.pdf>

<http://www.globe.gov/web/surface-temperature-field-campaign/overview>

# Ways to Participate in the GISN



- Visit a GLOBE school to do an activity
- Write blogs about science topics and experience related to GLOBE and your field of expertise to the GLOBE Scientists' Blog
- Judge local, in-person GLOBE science fairs

# Ways to Participate in the GISN



- Partner with a GLOBE teacher or school
- Use GLOBE data in your research

# Ways to Participate in the GISN



- Sponsor a GLOBE student science fair
- Affiliate with a GLOBE Partner
- Become a GLOBE Trainer

# Ways to Participate in the GISN



- Assume responsibility for a GLOBE protocol
- Involve GLOBE teachers and students in your scientific research
- Assume responsibilities for GLOBE student research campaigns
- Become a GLOBE Partner

# Ways to Participate in the GISN



**Determine what works for you!**

[SCRC Webinars](#)**GISN Webinars**[STEM Career Speakers](#)[Teacher Presentations](#)[NGSS Webinars](#)**GISN Webinars**

The [GLOBE International Scientist Network \(GISN\)](#) is a global community where scientists mentor students and teachers, present scientific ideas, and/or collaborate on scientific research. The GISN hosts webinars that provide tools and tips for scientists interacting with teachers and students.

Upcoming 2015 Webinars:

<p><i>Webinar 1: The nuts and bolts of using GLOBE to do outreach and education</i></p> <p><b>Thursday, February 5, 11am MTN/1pm ET</b></p>	<p><a href="#">Click here to register for Webinar 1!</a></p> <p>In this webinar, we will cover:</p> <ul style="list-style-type: none"> <li>• What is GLOBE?</li> <li>• How to Partner with GLOBE               <ul style="list-style-type: none"> <li>◦ What are the steps to connect with a GLOBE teacher, school, or GLOBE Partner/UCAR institution</li> <li>◦ How to use <a href="http://www.globe.gov">www.globe.gov</a> to connect with GLOBE members</li> </ul> </li> <li>• How to participate as an individual in the GISN               <ul style="list-style-type: none"> <li>◦ Writing and posting a blog for <a href="http://globe.gov">globe.gov</a></li> <li>◦ Proposing a field campaign</li> </ul> </li> <li>• Facilitators: Kristin Wegner and Dr. Julie Malmberg (GLOBE)</li> </ul>
<p><i>Webinar 2: How to use GLOBE Earth system science data in your research and teaching (GISN Panel Presentation)</i></p> <p><b>Thursday, February 26, 11am MTN/1pm ET</b></p>	<p><a href="#">Click here to register for Webinar 2!</a></p> <ul style="list-style-type: none"> <li>• How to use GLOBE data and visualization system in their research</li> <li>• How to use GLOBE data and visualization system as a teaching tool for undergraduate science classes</li> </ul> <p>Panelists include: Dr. <a href="#">Mullica Jaroensutasinee</a> and Dr. <a href="#">Krisanadej Jaroensutasinee</a> (GLOBE Thailand, Mosquito protocol), Dr. <a href="#">Todd Ellis</a>, Dr. <a href="#">Elise Hendriks</a> (GLOBE Aerosols Project Coordinator)</p>
<p><i>Webinar 3: Role Model Training</i></p> <p><b>Thursday, March 19, 11am MTN/1pm ET</b></p>	<p><a href="#">Click here to register for Webinar 3!</a></p> <ul style="list-style-type: none"> <li>• GLOBE's Dr. Julie Malmberg will share role model training materials for outreach in K-12 settings, ranging from SciGirls, Tech Bridge, and GLOBE materials</li> </ul>
<p><i>Webinar 4: GISN Stories: 20 years of GLOBE Research and Education Outreach (GISN Panel Presentation)</i></p> <p><b>Thursday, April 23, 11am MTN/1pm ET</b></p>	<p><a href="#">Click here to register for Webinar 4!</a></p> <ul style="list-style-type: none"> <li>• Stories from 20 years of GLOBE science research and education outreach</li> <li>• Topics include: meaningful collaborations, field campaigns, using virtual technologies with classrooms internationally</li> </ul>
<p><i>Webinar 5: How to do Outreach</i></p> <p><b>Thursday, May 28 11am MTN/1pm ET</b></p>	<p><a href="#">Click here to register for Webinar 5!</a></p> <ul style="list-style-type: none"> <li>• GLOBE's Dr. Julie Malmberg will present sample outreach activities for classroom engagement in K-12 and undergraduate settings, including SciGirls and GLOBE materials</li> </ul>

Register now for the other webinars in this series!!



# Thank you for attending!

Contact information:

- Kristin Wegner: [kwegner@ucar.edu](mailto:kwegner@ucar.edu)
- Julie Malmberg: [malmberg@ucar.edu](mailto:malmberg@ucar.edu)
- Questions: [help@globe.gov](mailto:help@globe.gov)