



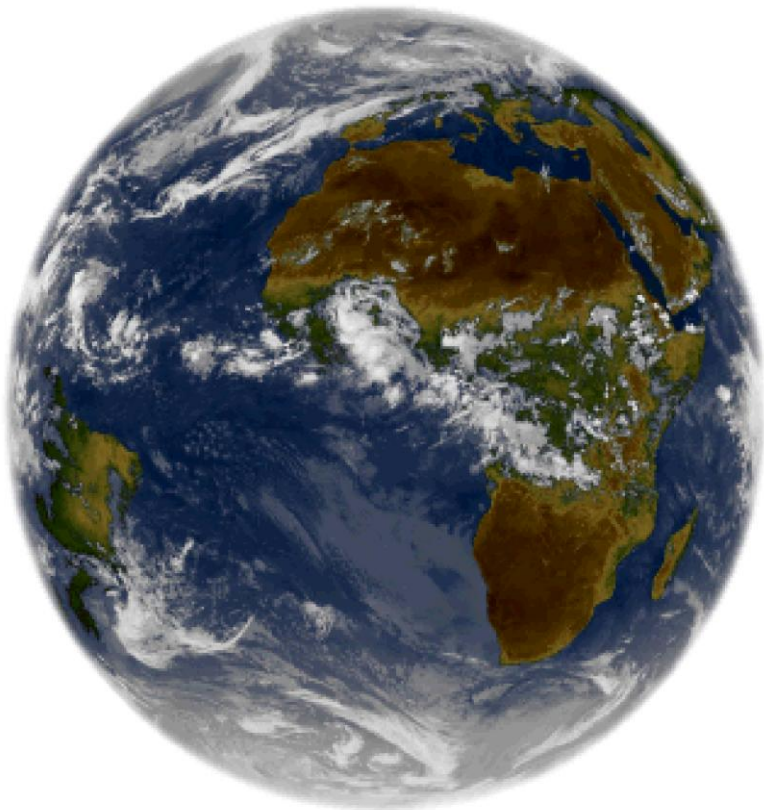
The **GLOBE** Program



Global Learning and Observations to Benefit the Environment

**5th Annual GLOBE North America
Partner Meeting at NSTA 2010**

**Philadelphia, Pennsylvania
Wednesday, 17 March 2010**



Teresa J. Kennedy, Ph.D.
Director, International Division, The GLOBE Program
tkennedy@globe.gov





The GLOBE Program



1st: Anaheim, California: 5 April 2006

2nd: St. Louis, Missouri: 28 March 2007

3rd: Boston, Massachusetts, 26 March 2008

4th: New Orleans, Louisiana: 18 March 2009

5th: Philadelphia, Pennsylvania: 17 March 2010



Sponsoring Agencies

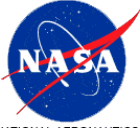


NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



UNITED STATES DEPARTMENT OF STATE

Founding Organizations



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



United States Department of Education



UNITED STATES DEPARTMENT OF STATE

Cooperating Organizations



World Meteorological Organization
Weather • Climate • Water



GROUP ON EARTH OBSERVATIONS



UCAR



USGS
science for a changing world



NSTA
National Science Teachers Association



CENTER FOR TEACHING INTERNATIONAL RELATIONS



My Wonderful World.org
A National Geographic-led campaign



The Association of American Geographers



Cloud Sat CSU & Jet Propulsion Laboratory



Numerical Terradynamic Simulation Group



AMERICAN COUNCIL ON THE TEACHING OF FOREIGN LANGUAGES



TESOL
Teachers of English to Speakers of Other Languages, Inc.



IEEE
Networking the World™



Geosynchronous Imaging Fourier Transform Spectrometer



Organization of American States



Cooperative Institute for Research in Environmental Sciences
University of Colorado



CIRE
University of Colorado



Royal Netherlands Meteorological Institute



Austrian Space Agency



Comision Nacional de Espaciales Argentina



Japan Aerospace Exploration Agency



America-Israel Friendship League



INDIAN ENVIRONMENTAL SOCIETY



Centre National d'etudes Spatiales France



FIRE ECOLOGY
Special Measurement Fire Effects Project at Rocky Mountain Research



Operation RubyThroat
The Hummingbird Project
Hilton Pond Center for Piedmont Natural History



United Nations Educational, Scientific and Cultural Organization



United States Agency for International Development



International action on GLOBAL WARMING



Atmospheric Circulation Reconstruction over the Earth



United Nations Environment Program

United Nations Environment Program



United States Peace Corps

University Corporation for Atmospheric Research Boulder, Colorado



Tall towers of the Mesa Laboratory

UCAR is a non-profit consortium of research universities, serving as an international hub for research, education, and public outreach for the atmospheric and Earth-system science community: 28 countries plus the U.S.

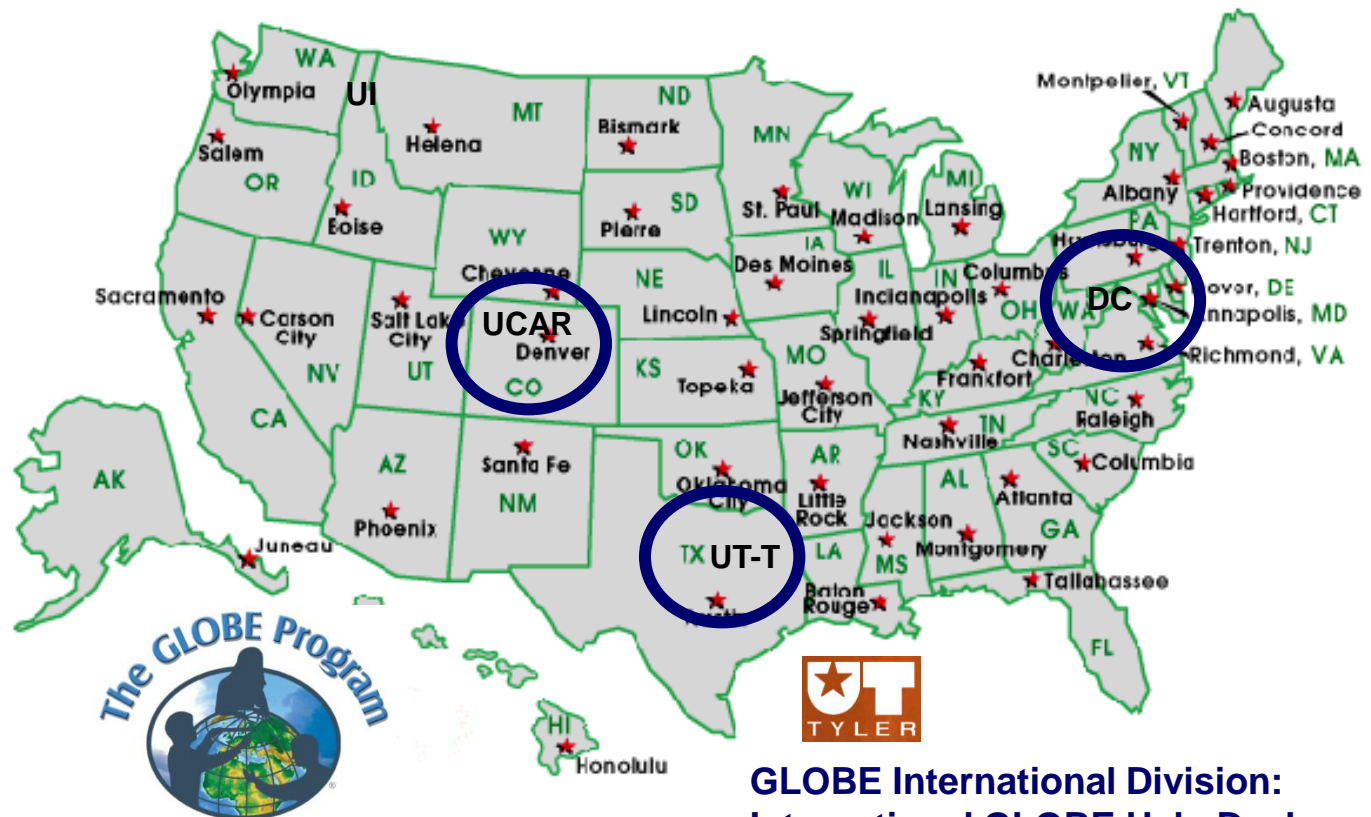


The Mesa Laboratory and the Flatirons

© 2003 UCAR



Manages the GLOBE Program Worldwide



GLOBE International Division:
International GLOBE Help Desk
and North America Regional Office



**University of Texas at Tyler
GLOBE International Division:
International GLOBE Help Desk
and North America Regional Office**

--There are over a million GLOBE students--

GLOBE Around the World



GLOBE has trained over 53,000 teachers representing more than 23,000 schools worldwide.

“GLOBE is the quintessentially ideal program for involving kids in science.” Nobel Laureate Dr. Leon Lederman

GLOBE Countries by Region

Africa (22)

-  [Benin](#)
-  [Burkina Faso](#)
-  [Cameroon](#)
-  [Cape Verde](#)
-  [Chad](#)
-  [Congo](#)
-  [Ethiopia](#)
-  [Gabon](#)
-  [Gambia](#)
-  [Ghana](#)
-  [Guinea](#)
-  [Kenya](#)
-  [Madagascar](#)
-  [Mali](#)
-  [Namibia](#)
-  [Niger](#)
-  [Nigeria](#)
-  [Rwanda](#)
-  [Senegal](#)
-  [South Africa](#)
-  [Tanzania](#)
-  [Uganda](#)

Asia-Pacific (16)

-  [Australia \(GLOBE site\)](#)
-  [Bangladesh](#)
-  [Fiji](#)
-  [India \(GLOBE site\)](#)
-  [Japan \(GLOBE site\)](#)
-  [Korea, South](#)
-  [Maldives](#)
-  [Marshall Islands](#)
-  [Micronesia](#)
-  [Mongolia](#)
-  [Nepal \(GLOBE site\)](#)
-  [New Zealand \(GLOBE site\)](#)
-  [Palau](#)
-  [Philippines](#)
-  [Sri Lanka](#)
-  [Thailand \(GLOBE site\)](#)



Europe-Eurasia (40)

-  [Austria](#)
-  [Belgium](#)
-  [Bulgaria](#)
-  [Croatia \(GLOBE site\)](#)
-  [Cyprus](#)
-  [Czech Republic \(GLOBE site\)](#)
-  [Denmark \(GLOBE site\)](#)
-  [Estonia \(GLOBE site\)](#)
-  [Finland \(GLOBE site\)](#)
-  [France](#)
-  [Germany \(GLOBE site\)](#)
-  [Greece \(GLOBE site\)](#)
-  [Hungary \(GLOBE site\)](#)
-  [Israel](#)
-  [Iceland](#)
-  [Ireland](#)
-  [Italy \(GLOBE site\)](#)
-  [Kazakhstan](#)
-  [Kyrgyzstan](#)
-  [Latvia \(GLOBE site\)](#)
-  [Liechtenstein](#)
-  [Lithuania \(GLOBE site\)](#)
-  [Luxembourg](#)
-  [Macedonia \(GLOBE site\)](#)
-  [Malta](#)
-  [Moldova](#)
-  [Monaco](#)
-  [Netherlands \(GLOBE site\)](#)
-  [Norway \(GLOBE site\)](#)
-  [Poland \(GLOBE site\)](#)
-  [Portugal](#)
-  [Romania](#)
-  [Russia](#)
-  [Serbia and Montenegro](#)
-  [Spain](#)
-  [Sweden](#)
-  [Switzerland \(GLOBE site\)](#)
-  [Turkey](#)
-  [Ukraine](#)
-  [United Kingdom \(GLOBE site\)](#)

Near East-North Africa (13)

-  [Bahrain](#)
-  [Egypt](#)
-  [Jordan](#)
-  [Kuwait](#)
-  [Lebanon](#)
-  [Mauritania](#)
-  [Morocco](#)
-  [Oman](#)
-  [Pakistan](#)
-  [Qatar](#)
-  [Saudi Arabia](#)
-  [Tunisia](#)
-  [United Arab Emirates](#)

Latin America- Caribbean (18)

-  [Argentina \(GLOBE site\)](#)
-  [Bahamas](#)
-  [Bolivia](#)
-  [Chile](#)
-  [Colombia](#)
-  [Costa Rica](#)
-  [Dominican Republic](#)
-  [Ecuador](#)
-  [El Salvador](#)
-  [Guatemala](#)
-  [Honduras](#)
-  [Mexico](#)
-  [Panama](#)
-  [Paraguay](#)
-  [Peru \(GLOBE site\)](#)
-  [Suriname](#)
-  [Trinidad and Tobago](#)
-  [Uruguay](#)

North America (2)

-  [Canada \(GLOBE site\)](#)
-  [United States of America](#)

111 Partner Countries

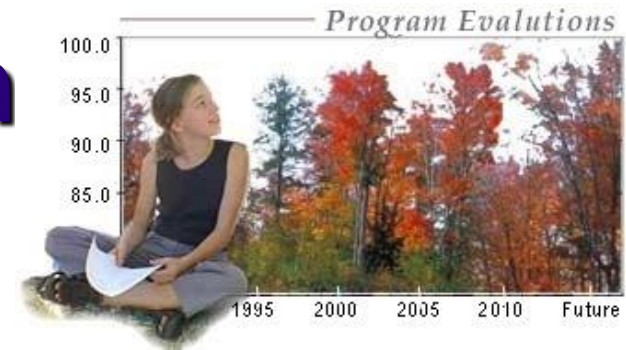
China is currently inactive although no formal request has been received in writing to discontinue participation in The GLOBE Program.



GLOBE Program Evaluation

Stanford Research Institute (SRI International)

Program Evaluation 1994 - 2006



Positive impact on student learning and performance

- GLOBE contributed to the development of students' science knowledge
- More time hands-on / Less time memorizing

Improved student higher order thinking skills

- Interpreting data
- Drawing inferences

Enhanced student appreciation of what scientists do

- Studying problems without a clear solution
- Collaboration with other scientists

Heightened teacher expectations of students

“By 2004, GLOBE positioned itself as a leading and worldwide environmental science program that could significantly impact students' learning and understanding of science.” (SRI, 2006)

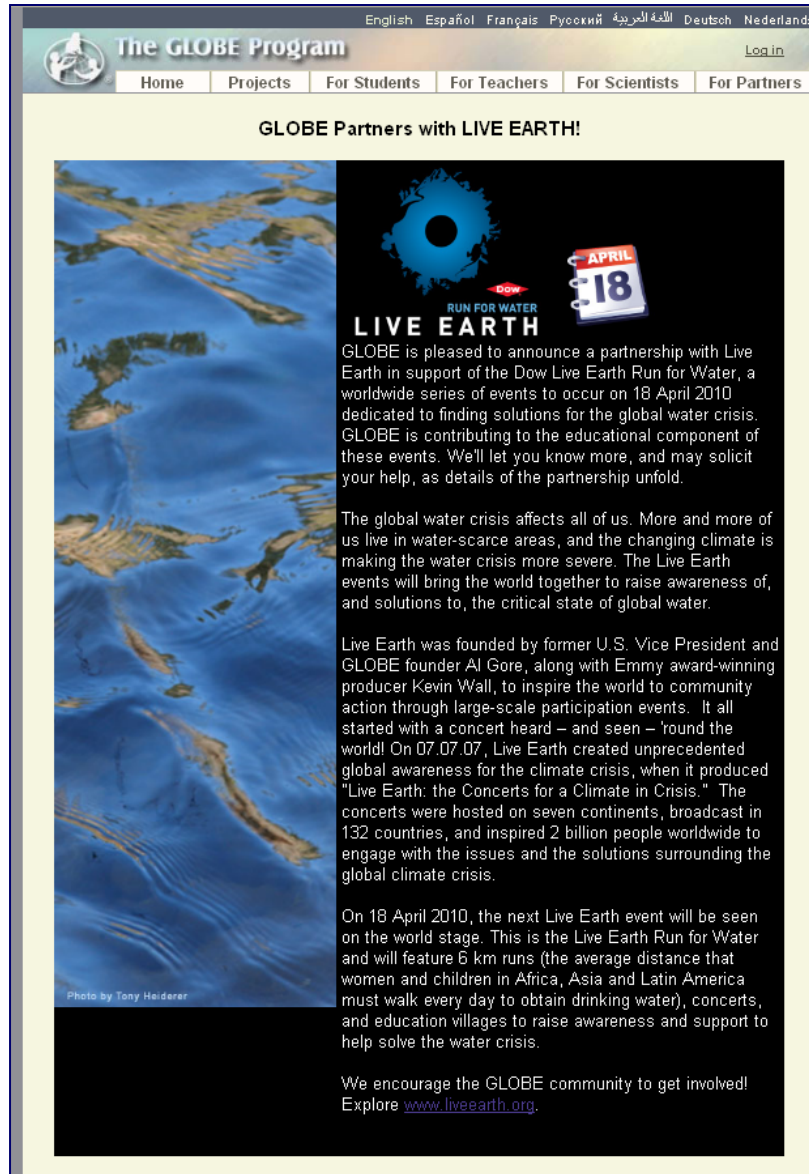
Current evaluation efforts are focused on the impact of GLOBE's inquiry-based learning model:
Dr. Valerie Williams



The **GLOBE** Program

GLOBE 15th Anniversary Celebration

Global Learning and Observations to Benefit the Environment



The screenshot shows the GLOBE Program website with a navigation menu (Home, Projects, For Students, For Teachers, For Scientists, For Partners) and a 'Login' link. The main content area is titled 'GLOBE Partners with LIVE EARTH!' and features a large image of a globe. To the right of the globe is a graphic for the 'LIVE EARTH' event, including a calendar icon for 'APRIL 18' and the text 'RUN FOR WATER'. Below the graphic is a text block announcing the partnership with Live Earth for the 'Dow Live Earth Run for Water' event on April 18, 2010. The text describes the event's purpose, its history, and encourages GLOBE community participation. A photo credit 'Photo by Tony Heiderer' is visible at the bottom left of the main image area.

English Español Français Русский اللغة العربية Deutsch Nederlands

The GLOBE Program [Log in](#)

Home Projects For Students For Teachers For Scientists For Partners

GLOBE Partners with LIVE EARTH!



GLOBE is pleased to announce a partnership with Live Earth in support of the Dow Live Earth Run for Water, a worldwide series of events to occur on 18 April 2010 dedicated to finding solutions for the global water crisis. GLOBE is contributing to the educational component of these events. We'll let you know more, and may solicit your help, as details of the partnership unfold.

The global water crisis affects all of us. More and more of us live in water-scarce areas, and the changing climate is making the water crisis more severe. The Live Earth events will bring the world together to raise awareness of, and solutions to, the critical state of global water.

Live Earth was founded by former U.S. Vice President and GLOBE founder Al Gore, along with Emmy award-winning producer Kevin Wall, to inspire the world to community action through large-scale participation events. It all started with a concert heard – and seen – 'round the world! On 07.07.07, Live Earth created unprecedented global awareness for the climate crisis, when it produced "Live Earth: the Concerts for a Climate in Crisis." The concerts were hosted on seven continents, broadcast in 132 countries, and inspired 2 billion people worldwide to engage with the issues and the solutions surrounding the global climate crisis.

On 18 April 2010, the next Live Earth event will be seen on the world stage. This is the Live Earth Run for Water and will feature 6 km runs (the average distance that women and children in Africa, Asia and Latin America must walk every day to obtain drinking water), concerts, and education villages to raise awareness and support to help solve the water crisis.

We encourage the GLOBE community to get involved! Explore www.liveearth.org.

Photo by Tony Heiderer

Earth Day 2010: GLOBE students around the world will have a special opportunity to share their climate research with their peers around the world through the GLOBE 15th Anniversary Forum on the GLOBE Web site!



GLOBE Student Research Campaign on Climate 2011-2013

GOALS

- Engage > 1 million K-16 students in climate research.
- Enhance Climate literacy and understanding for millions of people around the world.
- Empower students, teachers, and citizens to “take action” on climate and environmental issues affecting their communities.

ACTIVITIES

- Climate Campaign Planning meeting at the WMO (2009)
- GLOBE Collaboratory and Materials Development (2009-2011)
- Begin Campaign (2011)
- Fifth GLOBE Learning Expedition (2013) on Climate Research



**Dr. Donna
Charlevoix**



The GLOBE Program



Students
collaborate
with scientists



Hands-on
Minds-on
science



<http://www.globe.gov>

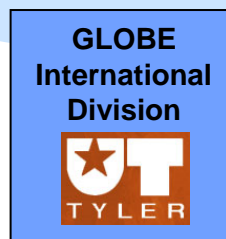


International
Science Education
Program in 111
countries

Atmosphere/Climate,
Hydrology, Soil,
Land Cover/Biology,
Phenology and
4 NSF Earth
System Science
Projects



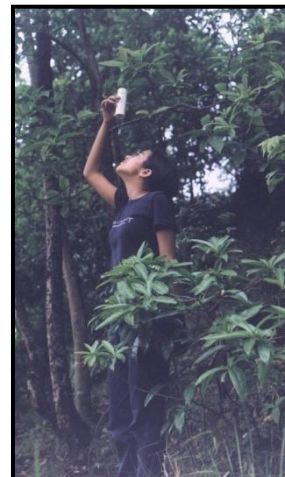
Over 20 million
environmental
measurements



UNITED STATES
DEPARTMENT OF STATE

Thank you!

QUESTIONS?



For more information visit www.globe.gov