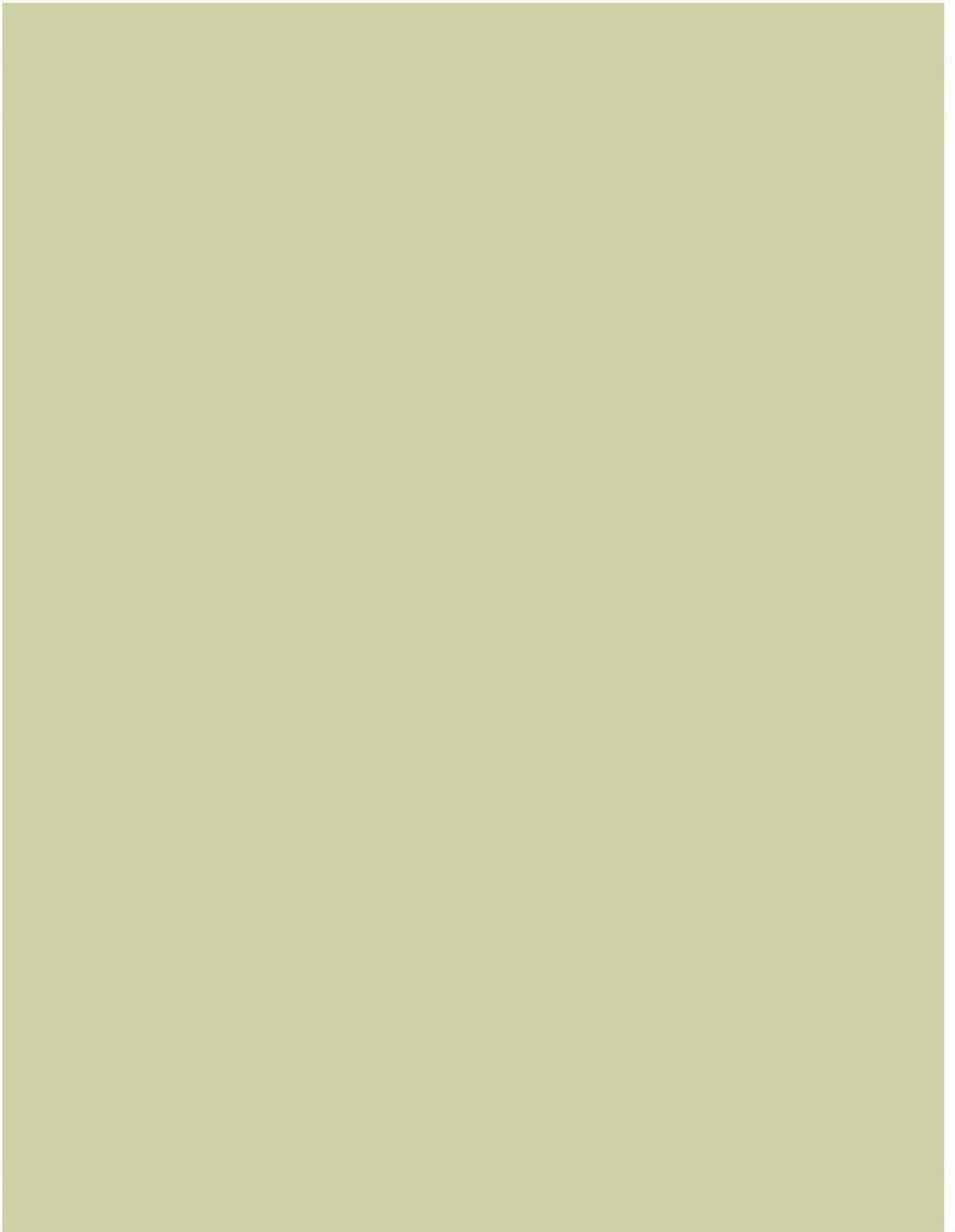




The GLOBE Program in Latin America and the Caribbean

An international hands-on, school-based education and environmental science program uniting students, teachers, and scientists in study and research about the dynamics of Earth's environment. Over 31,000 teachers in more than 17,000 schools in over 100 countries have been trained to implement GLOBE.







GLOBE Program Summary

The GLOBE Program brings together students, teachers and scientists to:

- Increase scientific understanding of the Earth;
- Support improved student achievement in science and math; and
- Enhance environmental awareness of individuals worldwide.

GLOBE supports education by providing hands-on experience in authentic science. GLOBE students are doing science, not just learning about the work of others. Students begin with measurements of individual environmental parameters and build toward an understanding of how the Earth functions as a system.

GLOBE students measure and report physical, chemical and biological properties of Atmosphere and Climate, Hydrology, Soil, Land Cover/Biology and Phenology. The resulting global data sets are made freely available via the Internet at www.globe.gov to users including the worldwide environmental science community. GLOBE students also access these data for classroom studies, research, student-scientist partnerships, and worldwide school-to-school collaborations. GLOBE students have collected and entered more than 14 million data for their use as well as by scientists studying the Earth system.

The next step in the evolution of the GLOBE Program is called the “Next Generation GLOBE (NGG).” The features of NGG are based on an intensive self-study of the past 10 years of GLOBE conducted by GLOBE Program Office staff, with extensive input and recommendations from the worldwide community of GLOBE participants, and guidance from GLOBE’s U.S. Government funding agencies.

The vision of NGG is of a Program supporting students, teachers, and scientists to collaborate on inquiry-based investigations of the environment and the Earth system, working in close partnership with two U.S. agencies, the National Aeronautic and Space Administration (NASA) and the National Science Foundation (NSF), and their Integrated Earth System Science Programs (IESSPs) to give the entire GLOBE community access to top scientists around the world and expose students to programs that are on the cutting edge of Earth system science research. To achieve this vision, GLOBE will promote focused activities around the NSF IESSPs, develop GLOBE Project School Networks (PSNs) and strengthen GLOBE Learning Communities through the development of Regional Consortia of GLOBE countries around the world.

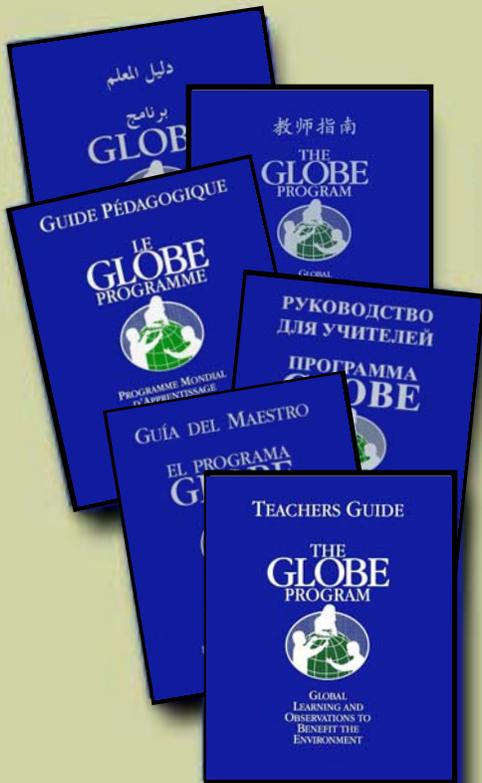
This transformation will be accomplished while retaining the Program’s essential elements of being both education and Earth system science, a bridge between these two international communities, a worldwide collaborative community of practice, and a program that employs inquiry-based educational activities that involve students in “authentic” hands-on science, the analysis of data and the use of scientifically-tested protocols.





Educational Materials

GLOBE provides a variety of K-12 educational materials, from hands-on inquiry activities for classroom use to online interactive learning experiences and investigations using student-collected data.



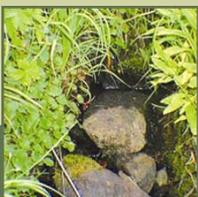
GLOBE Teacher's Guide

The GLOBE Teacher's Guide provides the scientific and educational foundation for the first generation of GLOBE investigations: Atmosphere, Hydrology, Land Cover, Phenology, and Soil. It includes information necessary for accurate data collection such as measurement procedures, student lab and field guides, instrument specifications, and scientific background information. The Teacher's Guide also includes a variety of Learning Activities that complement data collection and extend student understanding of the Earth as a system through a hands-on and inquiry-based approach.



Elementary GLOBE

GLOBE has developed a suite of storybooks and learning activities specifically designed for grades K-2 that form the Elementary GLOBE Unit. This unit engages the youngest GLOBE students in an age-appropriate fashion. These standards-based and classroom-tested resources include five modules that each address parts of the Earth system while also building literacy skills.





Online Teaching Modules

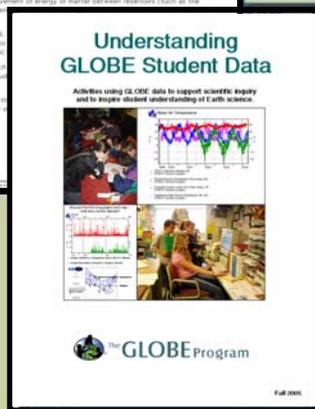
The GLOBE Program has developed Interactive online resources to promote understanding of GLOBE Program content and scientific protocols. Resources combine graphics and interactivity to promote understanding through a hands-on approach that has been established as a successful model for online learning. The Cloud Protocols module (shown here) promotes scientific understanding of cloud formation, content on identification of cloud types, and interactive features to help online learners to accurately collect data related to the GLOBE Cloud protocols.



Data Use Activities

Educational materials have been designed to encourage student analysis and interpretation of data. The data use activities foster student investigation of environmental data using the GLOBE Web site and its online graphing tools.

GLOBE educational technologists are exploring additional learning models to encourage student interpretation of data in an online and inquiry-based format.





GLOBE Learning Expeditions

GLOBE Learning Expeditions (GLEs) are organized every 2 to 3 years in order to provide students from around the world the opportunity to meet one another, establish friendships and develop collaborative partnerships that will enhance their future GLOBE experience. These conferences also provide teachers an opportunity to share ideas and challenges from their GLOBE experiences, to attend protocol and activity enrichment sessions, and to build connections for research efforts between schools. GLEs have occurred in 1998 (Helsinki, Finland), 2000 (Arkansas, U.S.A.), and Šibenik, Croatia (2003). The next GLE is tentatively scheduled for 2008 in a location still yet to be determined.

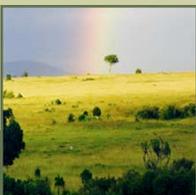


GLOBE Annual Conference

The 9th Annual GLOBE Conference, "GLOBE 2005: Global - Regional - Local," was held on 31 - July - 5 August, 2005, in Prague, Czech Republic. The Annual Conference brought together GLOBE Country Coordinators and U.S. Partnership Coordinators, Education and Science Principal Investigators, GLOBE Program Staff, and others to address key education and science elements of GLOBE. This event was the first GLOBE Annual Conference to be held outside of the U.S. The meeting was organized by GLOBE Europe, in collaboration with the GLOBE Program Office, and was graciously hosted by Tereza Association, the organization responsible for GLOBE in the Czech Republic. More than 150 individuals from 34 countries participated actively in presentation, discussions, workshops and social events.



The 10th Annual GLOBE Conference, "The New Decade for Global Sustainable Development", will be hosted by GLOBE Thailand in 2006. Look for updates on the GLOBE Web site about this event!





GLOBE Country Coordinators in Mexico, Central America and the Caribbean (9 Countries)



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2 Schools

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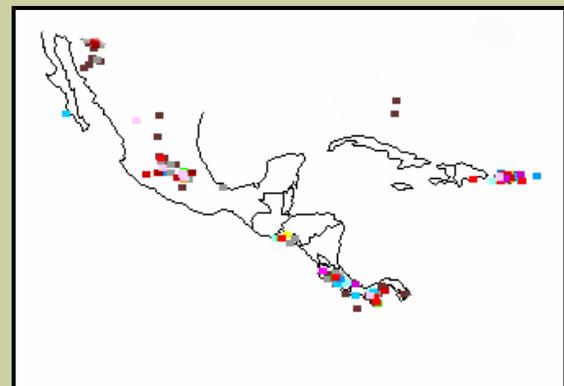
Guatemala
0 Schools

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**Mexico, Central America
and the Caribbean**
Teachers: 269 Schools: 198
Data Reported: 202,967





GLOBE Country Coordinators in South America (9 Countries)



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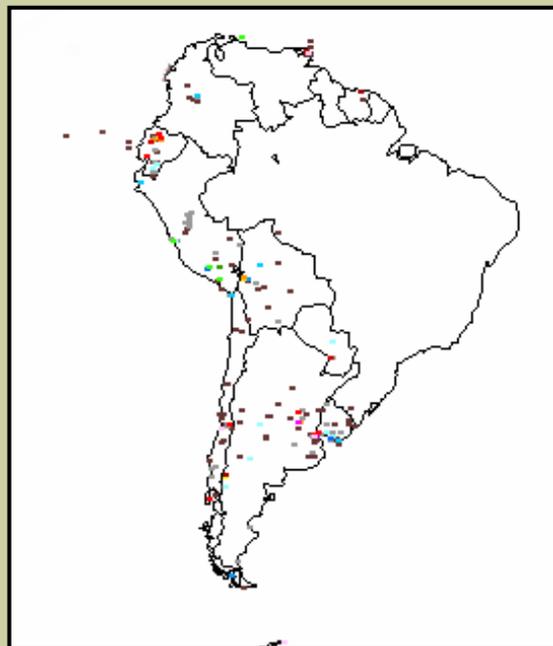
Suriname
3 Schools

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Uruguay
26 Schools

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South America

Teachers: 397 Schools: 290
Data Reported: 154,034





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2006 February 22 23:34 UT
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Latin America / Caribbean

[Caribbean and Latin America GLOBE Herald](#) (30 Aug 2005)

[Latin America / Caribbean Regional Newsletter](#) (30 Sep 2005)

[Latin America / Caribbean Regional Newsletter](#) (31 Mar 2005)

[Caribbean and Latin America GLOBE Herald](#) (04 Dec 2004)

[Heraldo GLOBE del Caribe y de América Latina](#) (04 Dec 2004)

CLAG CARIBBEAN & LATIN AMERICA

GLOBE PARTNER Newsletter

GLOBE PARTNER Newsletter

CLAG CARIBBEAN & LATIN AMERICA

GLOBE PARTNER Newsletter

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GLOBE PARTNER Newsletter

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GLOBE Online Newsletters

CLAG HERALD

CARIBBEAN AND LATIN AMERICA GLOBE NEWS August 30, 2005 Volumen 1

Picture: from left to right:
GLOBE Coordinators, teachers and trainers of the International Workshop in Costa Rica.
Magnificent view of the Irazú volcano, Costa Rica.

INTERNATIONAL WORKSHOP IN COSTA RICA

All the basic protocols of the GLOBE Program were trained in Costa Rica with the help of the Omar Denzongua Foundation and an enthusiastic group of coordinators. The spirit was high from the beginning; many participants had to travel 16 hours by bus to attend the workshop. The beautiful environment of Costa Rica and the professional presentations inspired the teachers to bring all this knowledge to their schools and cooperate in our goal of protecting the planet and study its diversities with scientific methods, and the same metrics giving to our generation, ones that for better understanding environment awareness home planet. The workshop participants, Costa Rica, can Republic, Panama, the United States, America, Uruguay.

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La 1ra Conferencia Anual de GLOBE, "GLOBE: Los primeros Diez Años", que tuvo lugar del 27 al 30 de Julio, 2005 en Bogotá, Colombia, EE.UU., junto a los Investigadores Principales de Educación y Ciencia de GLOBE, a las Convenciones de GLOBE

HERALDO GLOBE DEL CARIBE Y DE AMERICA LATINA

4 DE DICIEMBRE, 2005 Volumen 1, Número 1

Fotos de la izquierda a la derecha: Primeras Reuniones de GLOBE en el estado del Sur de Bolivia.
Segunda: El Proyecto de la Clasificación del Terreno en un programa usando la técnica del perfil alométrico.
Tercera: Mideando Colobara Teniente.

EL TALLER DE GLOBE EN SANTO DOMINGO

GLOBE en Santo Domingo está muy contento de anunciar que 20 maestros nuevos fueron certificados en el Taller de Septiembre en la escuela NOTRE DAME. Los protocolos que fueron abordados son: La Atmósfera, El Clima, La Cobertura Terrestre y GPS (Sistema Global de Posición). Una escuela privada (Colegio Veritas), dos escuelas públicas, cuatro Maestros de currículo del Ministerio de Educación y maestros de Notre Dame School aprendieron los protocolos y las medidas de GLOBE. El propósito de estos talleres es el de edificar una comunidad de entusiastas y amigos del medio ambiente que desarrollen un plan de acción para rescatar los recursos naturales de la República Dominicana, comprendiendo que todos somos parte del planeta y parte del Sistema de la Tierra. Durante el taller los maestros dieron ideas excelentes para proyectos de investigación, el primero de todos: el análisis del recibo de agua de nuestra ciudad, el Río OZAMA y sus alrededores.

Muchas gracias a Laurita Brindley para sus traducciones.

NACE UNA ESTRELLA LATINA: CLAG

Los Coordinadores de Socio GLOBE en los EE.UU., para dar la bienvenida a los nuevos líderes de educación y ciencia de GLOBE, Damos la bienvenida los participantes a las reuniones y planeamos la creación de un boletín que nos permita mantener al tanto la comunidad con noticias regionales e internacionales. El Sr. Hudson Rodó, nuestro director regional, así como los participantes que integran más parte el grupo nuevo.





Regional Events in Latin America and the Caribbean

Regional Events/Collaboration:

- October 2005, the “1st Workshop for South American GLOBE Decision Makers” met in Lima, Peru with Representatives of Ministers of Education and of the Environment and GLOBE Coordinators (except for Brazil), from Argentina, Chile, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Peru and Uruguay, to discuss how to strengthen GLOBE regionally;
- April 2005, GLOBE Coordinators from 6 Latin American and Caribbean GLOBE countries met to integrate GLOBE in the region;
- A GLOBE Online Discussion Forum was created in San Jose, Costa Rica, in April 2005 for ongoing online discussions by regional Coordinators on all topics related to regionalization;
- Spring 2006: Iguazu Falls, Argentina, a GLOBE training workshop is planned with a GLOBE Coordinators Meeting;
- GLOBE in Latin America and the Caribbean has an exciting newsletter—the CLAG (Caribbean Latin America GLOBE) Herald (http://www.globe.gov/fsl/pdf/clag_herald_en-01-11-2005.pdf);
- April 2004, as part of the White Water to Blue Water initiative, GLOBE schools in Miami, Trinidad and Tobago, and Mexico engaged in a collaboration including 2 Videoconferences between schools, 1 Field campaign and a Web chat on Earth Day April 22, 2004.

Training Events of Regional Significance:

- Major regional training workshops have taken place in Argentina, Chile, Costa Rica, Mexico, Panama, Peru and Uruguay;
- Eight trainers in Master Trainer program to build capacity and support GLOBE training workshops in Latin America and the Caribbean.





Highlights of GLOBE Stars and News and Events in Latin America and the Caribbean

NEWS & EVENTS

Costa Rica hosts Region's First GLOBE Coordinators Meeting for Latin America and the Caribbean!

[Español]

GLOBE Coordinators and GLOBE representatives from Costa Rica, Dominican Republic, Mexico, Panama, Peru and Uruguay met during a GLOBE Training Workshop the week of March 28-April 2, 2005, to form a Regional GLOBE Country Coordinators' Committee for Latin America and the Caribbean. They formed a "Working Group" and drafted an "action plan" to consolidate the GLOBE Program at a regional level. The Latin American and Caribbean GLOBE Coordinators

GLOBE Stars

"With a little help from its friends" GLOBE shines in Uruguay, Paraguay and Argentina

October 25, 2004

[Español]

The popular song "A little help from my friends" by the Beatles describes how important our friends are, and it nicely captures GLOBE's philosophy of exploring new frontiers hand-in-hand with a diverse group of partners.

GLOBE Stars

Escuela Provincial No. 38 Julio Argentina Roca, an Argentine-hosted GLOBE School in Antarctica, Esperanza, Argentina

March 30, 1999

Working on fields of ice and snow under the watchful eye of a flock of penguins, students in Antarctica are working hard to keep scientists updated on environmental conditions near the South Pole. A dozen students, whose Argentine parents work at a science observation site at the southern tip of the planet, attend the "Escuela N38" performing GLOBE protocols under

GLOBE Stars

Dos Ciclistas Promueven la Educación en las Ciencias y el Programa GLOBE Durante un Viaje en Bicicleta Siguiendo el Camino de la

Marzo 29, 2004

[In English]

Dos instructores de GLOBE han iniciado un tour ciclista desde El Paso, Texas Patagonia, extremo sur del continente Americano. Su propósito es la ciencia y el entendimiento del medio ambiente. Karen Engelke de El

GLOBE Stars

GLOBE Grows in Two of the World's Southern-most Countries

April 08, 2003

Teachers from six Latin American GLOBE countries and Spain came together under the GLOBE umbrella recently during two October training workshops in Chile and Argentina, which coincided with the Southern Hemisphere's springtime.

The workshop could not have taken place without Hewlett-Packard's donation of 20 computers for the nine-day workshop, and Microsoft Chile's donated software for the computer lab. Chile's Ministry of Education paid for high-speed internet connections for the workshop and a full-time computer technician.

GLOBE's new inquiry-oriented training format was a key focus of the International Training Workshop in El Quisco, a small coastal town in the Valparaiso region of Chile. Participants attended from throughout Chile as well as from the Dominican Republic, Costa Rica, Panama, Mexico, and Spain. The Chileans came from all parts of their country, including Puerto Montt and Puerto Williams (55 S latitude) -two of

NEWS & EVENTS

South American Decision Makers Attend GLOBE Meeting in Lima, Peru

28 October 2005
Meeting Report

[Español]

Representatives from the Ministries of Environment and Education from nine South American countries-- Brazil, Bolivia, Chile, Colombia, Ecuador, Paraguay, Perú, Uruguay y Venezuela-- met on 28 October 2005, to learn about the state of GLOBE Program implementation in South America, to look for strategies to integrate GLOBE in their environmental education programs and to define strategies for collaboration and sustainability of GLOBE in South America.

GLOBE Country Coordinators from Argentina, Bolivia, Chile, Colombia, Ecuador, Paraguay, and Perú also attended the meeting in order to share their perspectives and experiences regarding implementation of GLOBE in their countries. This exchange strengthened the discussions and provided a realistic perspective of GLOBE implementation in South America.

1. GLOBE Presentation:

Highlight your special GLOBE events as well as any GLOBE activities that your teachers and students would like to share with others. These stories often provide ideas and inspiration to other schools, teachers and Country Coordinators. Acknowledge these events by creating a draft article and submitting it with a few photographs. Please remember that all pictures must have a completed release form in order to be posted on the GLOBE Web site.





The GLOBE Program
www.globe.gov

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Winner of the 2004 Media and Technology Category

“The awardees reflect new ways of teaching world languages and focus on the international dimension of every major subject, including math, science, language arts, history, geography and economics. They also feature creative and innovative uses of technology.”

PDK  PHI DELTA KAPPA *International*

Featured in the Phi Delta Kappan International Studies Resource Guide – November
2004 • Volume 86 • Number 3 www.pdkintl.org/kappan/k_v86/k0411ka3.htm

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