Revised July 20, 2006



10th Annual GLOBE Conference



The New Decade for Global Sustainable Development 30 July - 4 August 2006 Phuket, Thailand

Sponsors



Conference Agenda

Sunday, 30 July 2006 Location: Tamarind Conference Room, Round House

Time	Activity
8:00 - 11:00	Registration
	Location: Tamarind Conference Room
	Poster Setup (Note: Setup assistance available all day)
	Location: Round House
11:00 - 18:00	Excursion or Optional
	Meeting point: Lobby of the Cape Panwa Hotel
18:00 - 20:00	Reception
	Location: Lobby and the Round House
20:00	Adjourn

Monday, 31 July 2006 Location: Tamarind Conference Room

Moderator: Dr. Mullica Jaroensutasinee

Time	Activity
9:00 - 9:30	Opening Ceremony
	Introduction
	Dr. Pornpun Waitayangkoon, Vice President, Institute for the Promotion of Teaching Science and Technology (IPST),
	Thailand and Dr. Teresa Kennedy, Director of International/U.S. Partnerships, The GLOBE Program
	Welcome Remarks
	Mr. Niran Kalayanamit, Vice Governor of Phuket Province
	Prof. Dr. Surin Phongsupasamit, President of the Institute for the Promotion of Teaching Science and Technology (IPST),
	Thailand
	Opening Speech
	His Excellency Dr. Pravich Rattanapien, Minister, Ministry of Science and Technology of Thailand
9:30 - 10:15	Director's Remarks
	Dr. Ed Geary, GLOBE Acting Director
10:15 - 10:45	Refreshments
10:45 - 11:45	The Next Generation GLOBE and IESSP Introductions
	Dr. Ming-Ying Wei, NASA
	Dr. Jill Karsten and Ms. Rhonda Spidell, NSF
	Moderator: Dr. Ed Geary

11:45 - 13:15	Lunch
13:15 - 13:45	Keynote Presentation: Sustainable Development in the New Decade
	Mr. Surendra Shrestha, Regional Director, United Nations Environment Programme (UNEP) Regional Office for Asia-
	Pacific (ROAP)
13:45 - 14:15	Keynote Presentation: Royal Development Project to Sustainable Development
	Dr. Pisoot Vijarnsorn, Advisor of Her Royal Highness Princess Maha Chakri Sirindhorn's Projects
14:15 - 14:30	GLOBE Regional Development
	Dr. Teresa Kennedy, Director of International/U.S. Partnerships, The GLOBE Program
14:30 - 14:45	Refreshments
14:45 - 16:30	Regional Breakout Groups
	Africa—Location: Top of the Reef 1
	Asia/Pacific—Location: Tamarind Bay 1
	Europe—Location: Dolphin
	Latin America/Caribbean—Location: Marlin
	Near East—Location: Top of the Reef 2
	North America—Location: Tamarind Bay 2
	GLOBE Alumni Meeting—Round House
16:30 - 17:30	Interactive Poster Presentations and Exhibits
	See conference program for complete listing of poster presentations and exhibitors.
17:30	Adjourn
18:00 - 21:00	Optional Special Event: Dinner at the Halal Food Celebration

Halal Food Celebration: The "Halal Food, Hilal Town" festival will take place from 29 July to 2 August at the Thalang Chanasuk Memorial Field in Tambon Thepkrasattri. The event celebrates the peaceful coexistence between Phuket's Buddhist and Muslim communities. Highlights will include nightly "sound and light" performances. In addition, there will be a presentation of the story of Princess Mahsuri, a semi-legendary princess from Kamala through 31 July. Featured in the show will be Sirintra Yayee, believed to be a seventh-generation descendent of Mahsuri. Other events will include a Quran reading competition, display and sale of Muslim food and many other cultural activities.

The Phuket Provincial Administration Organization (OrBorJor) is sponsoring GLOBE's participation including transportation, food and entertainment on Monday evening! Please join us for this special event!

The bus will leave the Cape Panwa hotel at 18:00 and return to the hotel at 21:00.

Tuesday, 1 August 2006: GLOBE Implementation Location: Tamarind Conference Room

Time	Activity
8:30 - 9:00	Interactive Poster Presentations and Exhibits
9:00 - 9:30	GLOBE Implementation Success
	Dr. Pornpun Waitayangkoon, Vice President of the Institute for the Promotion of Teaching Science and
	Technology (IPST), Thailand
9:30 - 10:30	GLOBE Regional Implementation (Panel and Presentations)
	Regional Representatives
	Africa: Ms. Margaret Besong (Cameroon)
	Asia/Pacific: Dr. Shuji Yamashita (Japan)
	Europe: Mr. Karl Torstein Hetland (Norway)
	Latin America/Caribbean: Prof. Maria del Carmen Galloni (Argentina)
	Near East: Ms. Zakeya Ahmed Ali Zada (Bahrain)
	North America: Mr. Todd Ensign (USA)
	Moderator: Dr. Teresa Kennedy, Director of International/U.S. Partnerships, The GLOBE Program
10:30 - 11:00	Refreshments
11:00 - 11:30	GLOBE Web Site Redesign
	Dr. Susan Gallagher, GLOBE Program Office
11:30 - 12:00	GLOBE Mirror Server in Thailand
	Dr. Sornthep Vannarat, Dr. Krisanadej Jaroensutasinee, GLOBE Thailand and Mr. Mike Leon, GLOBE Program Office
12:00 - 13:30	Lunch
13:30 - 15:30	NSF Integrated Earth System Science Projects:
	Student Analysis of Data Driving Learning about the Earth (SADDLE)
	Dr. Kemi Jona, Northwestern University
	Dr. Kenn Jona, Worthwestern Oniversity
	From Local to Extreme Environments (FLEXE)
	Dr. Bill Carlsen, Penn State University and Eric Simms, Scripps Oceanic Institute
	Manitaring Saagang Through Clobal Learning Communities (MSTCLC)
	Monitoring Seasons Through Global Learning Communities (MSTGLC) Dr. Elena Sparrow, University of Alaska Fairbanks
	DI. Elena Spanow, University of Alaska Fandanks
	Exploring ecosystems and the atmosphere in the K-12 classroom: A plan to integrate NASA carbon cycle science
	with GLOBE
	Ms. Sarah Silverberg, University of New Hampshire
	Moderator: Dr. Sandra Henderson, GLOBE Director of Education
15:30 - 16:00	Refreshment

16:00 - 17:30	Session 1 Strands A, B, C, D, E Presentations (Parallel Sessions)					
	STRAND 1A: Collaborative Research	STRAND 1B: Sustainability Education in the context of GLOBE	STRAND 1C: GLOBE Assessment and Implementation	STRAND 1D: GLOBE Capacity Building	STRAND 1E: GLOBE Program Office Special Session	
	Moderators: Dr. Rebecca Boger	Moderators: Dr. Achara Thammathaworn	Moderators: Dr. Susan Gallagher	Moderators: Dr. Pramuan Siripankaew	Digital Earth Science Education Resources Dr. Ed Geary, Dr. Russanne Low	
	Location: Tamarind Bay 1 GLOBE Application Activities for Tsunami Schools in West Peninsula of Thailand Dr. Charlie Navanugraha (Thailand)	Location: Tamarind Bay 2 The Contribution of Estonian GLOBE Program to Promoting Sustainable Education in the UNECE region Ms. Imbi Henno (Estonia)	Location: Dolphin Geo-Technologies in the Science Classroom Dr. Georgia Cobbs, Dr. Lisa Blank, Dr. Jeffrey Crews (USA)	Location: Marlin Youth and Satellites Keeping an Eye on Planet Earth Ms. Danielle de Staerke (CNES), Mr. Eric Abgrall, Ms. Annie Carrasset, Ms. Sylvie Dubreuilh (France)	Location: Sea Horse	
	The Oxbows of Pasak River, Thailand Mr. Chairote Yaiprasert (Thailand)	GLOBE-UK Sustainable Development Protocols - The Challenge! Dr. Andy Tasker (UK)	How the GLOBE Schools in the Czech Republic Use Data in their Communities and Integrate GLOBE into School Curriculum? Ms. Dana Votapkova (Czech Republic)	AIM (Aeronomy of Ice in the Mesosphere) Satellite Mission Partners with GLOBE: Providing Opportunities for Students and Teachers to Study Noctilucent Clouds (NLC's) Dr. Dianne Robinson, Ms. Barbara Maggi (USA)		
	The simple Flood Hazard Mapping Model for Downtown, Chiang Mai Ms. Lucsame Gruneck, Ms. Pavinee Guntiya, Ms. Gridtaporn Raungsuttha, Ms. Karuna Sukeeta, Dr. Krisanadej Jaroensutasinee	An International School Campaign in the International Polar Year 2007-8 Toxic Chemicals in Local Fish Mr. Geir Endregard, Mr. Karl Torstein Hetland (Norway)	Weaving Native Knowledge and Best Teaching Practices in GLOBE Implementation Dr. Elena B. Sparrow (USA)	Use of EarthScope Data in the Classroom Dr. John DeLaughter (USA)		
	Climate Factors Affecting Influenza Cases in Nakhon Si Thammarat Ms. Sirilak Chumkiew, Mr. Watthanapong Daenugern, Mr. Wacharapong Srisang, Dr. Krisanadej Jaroensutasinee and Dr. Mullica Jaroensutasinee	Fostering Student's Enthusiasm and Ability in Environmental Learning Through GLOBE Program in Japan Dr. Toshihiko Higuchi (Japan)	Place Names: Building Worldviews Using Traditional Cultures and GIS Dr. Georgia Cobbs, Dr. Lisa Blank, Dr. Jeffery W. Crews (USA)	Utilizing Local GLOBE Data and Partnerships with GLOBE Scientists to Engage Students in Scientific Inquiry Ms. Marcy M. Seavey (USA)		

	Effects of Tsunami on Marine Invertibrate, Water Qualities, Ecology and Atmosphere by Means of GLOBE Dr. Mullica Jaroensutasinee, Dr. Krisanadej Jaroensutasinee, (Thailand) Dr. Martha Conklin Ms. Sarah May (USA)	GLOBE and Sustainable Development in the Global Context: An Overview by GLOBE Program Cameroon Ms. Margaret Besong (Cameroon)	Integrated Des Geoscience Ed Upward Bound Mr. Todd Ensign	ucation with d Students	GLOBE in Alabama – A Partnership for Success Mr. Greg Cox, Ms. Robin Nelson (USA)
	Topography Affecting Key Breeding Sites of Aedes aegypti and Ae. albopictus in Thailand Ms. Warabhorn Preechaporn Dr. Mullica Jaroensutasinee, Dr. Krisanadej Jaroensutasinee (Thailand)	Japan observation activities in the past decade and a view to the future Dr. Tomoyasu Yoshitomi, Dr. Toshihiko Higuchi (Japan)	GLOBE Imple in France: Yea Evaluation Re Ms. Danielle de S (CNES), Mr. Eric Abgrall, Ms. Annie Carras Sylvie Dubreuilh (France)	nr 1 sults Staerke sset, Ms.	Developing Strategic Partnerships through GLCs and the GLOBE Schools Network Dr. Sheila Yule, Mr. Eric Stonebraker, Mr. Matt Hansen (USA)
17:30	Adjourn				
18:30 - 19:30	Optional Evening Ses	ssions (concurrent)			
	GLOBE Help Desk: Ms. Nandini McClurg Location: Sea Horse	Partner Administration	n Pages	Ms. Paula R	Development Workshop obinson & Dr. Sheila Yule Camarind Bay 1

Wednesday, 2 August 2006: Student Research Location: Tamarind Conference Room

Time		Activity			
8:30 - 9:00	Interactive Poster Presentations and Exhibits				
9:00 - 9:30	Keynote Presentation: Student Research "Research for Empowerment: Learning Beyond Frontier"				
	Assistant Prof. Suchata Jinachitra, Program Director for Public Well-Being, Thailand Research Fund				
9:30 - 10:30	GLOBE Student Presentations				
	• Ms. Ubonlux Jaifu, Mr. Siriwat Punroob, Ms. Saba	ariya Aree, Ms. Asareza Kaje (Thailand)			
	• Mr. Rei Inazumi, Mr. Yasushi Nisikori, Ms.Yuka M	Aasuda (Japan)			
	• Ms. Shaikha Mohamed BuAli (Bahrain)				
	Moderator: Dr. Sandra Henderson, GLOBE Director	of Education			
10:30 - 11:00	Refreshments				
11:00 - 11:40	GLOBE Education Overview				
	Dr. Sandra Henderson, Dr. Susan Gallagher, Dr. Lisa Gardiner, Ms. Becca Hatheway				
	Field Day Introduction and Instructions				
11:40 - 12:00	Site A: Sirinat National Park (~90 persons)Site B: Tangken Bay (~40 persons)				
	Dr. Charlie Navanugraha	Dr. Krisanadej Jaroensutasinee			
12:30 - 18:00	Pick up box lunch in Hotel Lobby.				
	Modeling Student Research				
	Site A: Sirinat National Park	Site B: Tangken Bay (Marine Invertebrate study)			
	A1: Swamp Forest:, Dr. Charlie Navanugraha	Dr. Krisanadej Jaroensutasinee			
	Dr. Rebecca Boger, Dr. Sandra Henderson	Dr. Mullica Jaroensutasinee			
	A2: Mangrove Forest: Dr. Sompong	Dr. Lisa Gardiner			
	Thammathaworn, Dr. Sheila Yule, Mr. Gary	Dr. Teresa Kennedy			
	Randolph				
	A3: Beach Forest: Dr. Achara Thammathaworn,				
	Mr. Eric Stonebraker, Dr. Susan Gallagher				
18:00	Adjourn				

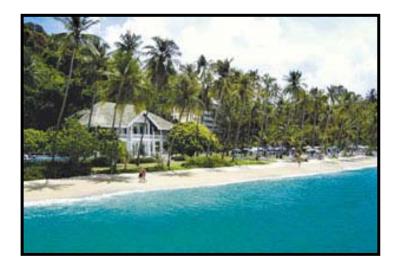
Thursday, 3 August 2006 Sustainable GLOBE Location: Tamarind Conference Room

Moderator: Ms. Monica Sabio

Time			Activity			
8:30 - 9:00	Interactive Poster Presentations and Exhibits					
9:00 - 9:30	Keynote Presentation: Education for Sustainable Development					
	Mr. Derek Elias, Progra	m Specialist, Education	for Sustainable Developr	nent, UNESCO Asia an	d Pacific Regional	
	Bureau for Education, E	Bangkok, Thailand				
9:30 - 10:30	GLOBE Fundraising (Panel and Presentation)					
	Regional Representative					
	Africa: Mr. Mark Brette	•				
		an Siripankaew (Thailan	d)			
	Europe: Dr. Andy Task	, U				
		an: Mr. Henry Saunders (U .			
		Abu Fakhreddine (Lebar	ion)			
	North America: Ms. Ma	• • • •				
		lobinson, Executive Adm	ninistrator, The GLOBE I	Program		
10:30 - 11:00	Refreshments					
11:00 - 12:30	Regional Breakout Gr					
	Africa—Location: Top					
	Asia/Pacific—Location	•				
	Europe—Location: Dol					
	Latin America/Caribbea					
	Near East—Location: T	1				
	North America—Locati	on: Tamarind Bay 2				
	GLOBE Alumni Meetir	ng—Round House				
12:30 - 14:00	Lunch	- <u>6</u> -1000000				
14:00 - 15:30		, C, D, E Presentations	and Special Sessions (P	arallel Sessions)		
	STRAND 2A:	STRAND 2B:	STRAND 2C:	STRAND 2D:	STRAND 2E:	
	Collaborative	Sustainability Education	GLOBE Assessment and	GLOBE Capacity	GLOBE Program Office	
	Research	in the Context of	Implementation	Building	Special Session	
	Moderators:	GLOBE Moderators:	Moderators:	Moderators:	Elementary GLOBE	
	Dr. Mullica	Dr. Achara	Mr. Eric Stonebraker	Dr. Krisanadej	Ms. Becca Hathaway,	
	Jaroensuthasinee	Thammathaworn		Jaroensuthasinee	Dr. Lisa Gardiner,	
					Dr. Sandra Henderson,	
	Location: Tamarind Bay 1	Location: Tamarind Bay 2	Location: Dolphin	Location: Marlin	Dr. Susan Gallagher,	
					Dr. Elena Sparrow and Ms. Lynne Hehr (USA)	
L					Ms. Lynne Henr (USA)	

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					Location: Top of the Reef
	A New GLOBE Mosquito Protocol Tried Out in Southern Thailand Ms. Siriwan Wongkoon (Thailand)	Students Teach Students how to Collect Data to Assist Scientists to Monitor Climate Change Ms. Suzanne Welch (UK)	Plant Available Water (PAW) Generated from the GAPS Model as an Indicator of a Drought Period in Mangosteen Orchards Ms. Ornanong Boonklong (Thailand)	GLOBE and Art Ms. Aniko Orgovanyi (Hungary)	STRAND 2F: GLOBE Program Office Special Session Digital Earth Science Education Resources Dr. Ed Geary, Dr. Russanne Low Location: Sea Horse
	A New Science Community Collaborations: Madagascar Malaria Project Dr. Rebecca Boger (USA)	Global Climate Change for Education – Exchange Project Cameroon, Estonia, and Germany to Develop Learning Materials Ms. Birgit Rademacher (Germany)	Trends in GLOBE: Japan Observation Activities in the Past Decade and a View to the Future Dr. Tomoyasu Yoshitomi, Dr. Toshihiko Higuchi (Japan)	How Good is Raw Water Quality in Tap Water Production at Maejo University Ms. Supaporn Sangsrichan (Thailand)	
	Budburst Observation of Acasia Harmandiana Gagnep, (MINOSOIDEAE) at Nakhon Ratchasima Province, Thailand Dr. Sompong Thammathaworn (Thailand)	Thailand National Biodiversity Database System Mr. Watcharapong Srisang (Thailand)	Remote Environmental Sensors Based Fiber Optic Ring Resonator Dr. Preecha Yupapin (Thailand)	CALIPSO and GLOBE: A Partnership of scientists, educators and students from France and the United States studying Earth's climate system Dr. Dianne Robinson, Ms. Barbara H. Maggi, Ms. Danielle DeStaerke (USA)	
	Budburst Observation of Cassia fistula L. (CAESALPINOIDEAE) at Nakhon Ratchasima Province, Thailand Dr. Sompong Thammathaworn (Thailand)	Measurement of Natural Radioactivity in Songkhla Beach Sands Dr. Prasong Kessaratikoon (Thailand)	Reclaim Acid Soil of Princess Chulabhorn's College, Trang by Organic Fertilizer Ms. Treechada Tawornmas (Thailand)	Aerosol Properties Monitoring Using an Inexpensive Sun Photometer and Network Analyzer Mr. K. Udomwech (Thailand)	
	Environmental Research of the Sea of Tonoko Ms. Midori Kanazawa (Japan)	Diffusive Air Sampler Constructed from Used Plastic Bottles for No2 Determination Dr. Winai Somboon (Thailand)	The GLOBE JUNIOR Activity plays role in keeping Dara Academy GLOBE members Dr. Ratsamee Dangsuwon (Thailand)	The Energy Network Mr. Karl Torstein Hetland (Norway)	
	The Bay2Bay Program Dr. Feodor Surkoy (Russia)	Monitoring of Ambient Ozone Concentrations in Khon Kaen Municipality Using Passive Sampling	A Guideline to Develop ESS Curriculum for Thai Schools Dr. Pramuan Siripunkaew	Podcasting to Connect Students and Scientists Mr. Todd Ensign (USA)	

		Technique	(Thailand)			
		Mr. T. Doolgindachbaporn				
		(Thailand)				
15:30 - 16:00	Refreshments					
16:00 - 17:00	Parallel Sessions					
	Student/Teacher Forum			Country C	coordinator Meeting	
	Location: Tamarind Bay 1			Location: Tamarind Bay 2		
	Moderator: Dr. Sandra Henderson, Dr. Sheila Yule, and		Moderator:	Dr. Teresa Kennedy		
	GLOBE Alumni Regior	nal Representatives				
18:00 - 20:00	Banquet, including Cultural Presentations by Thai and Japanese Students					
	Location: Panwa House Restaurant (on the Beach), Semi			formal Atti	re or National Dress	
20:00	Adjourn					



Friday, 4 August 2006: GLOBE and Technology Location: Tamarind Conference Room

Moderator: Mr. Raj Mehta

Time	Activity					
8:30 - 9:00	Interactive Poster Presentations and Exhibits					
9:00 - 9:30	Inspiring the Next Generation of Citizen Scientists					
	Dr. Elena Sparrow, GLOBE Scientist and Partner, University of Alaska Fairbanks, USA					
9:30 - 10:00	Keynote Presentation: World Meteorological Organization (WMO) and GLOBE					
	Dr. Momadou Saho, Chief of Education and Training Fellowships Division, WMO, Switzerland					
10:00 - 10:30	The Youth Connection: GLOBE Alumni					
	GLOBE Alumni Regional Representatives					
	Africa: Ms. Adele Bilong (Cameroon)					
	Asia/Pacific: Ms. Watcharee Ruinrun and Ms. Phatcharida Boonkort (Thailand)					
	Europe: Mr. Martin Pentson (Estonia) and Mr. Tomas Tunkl (Czech Republic)					
	Latin America/Caribbean: Mr. Guillermo Grimaux (Argentina)					
	Near East: Ms. Shaikha Mohamed BuAli (Bahrain)					
	North America: Mr. Matt Fenzel (USA)					
10.20 11.00	Moderator: Dr. Sheila Yule, GLOBE Learning Communities and Schools Network Coordinator					
10:30 - 11:00	Refreshments					
11:00 - 12:30	IESSP Breakout Groups					
	Student Analysis of Data Driving Learning about the Earth (SADDLE) Location: Tamarind Bay 1					
	Dr. Kemi Jona, Northwestern University					
	From Local to Extreme Environments (FLEXE) Location: Tamarind Bay 2					
	Dr. Bill Carlsen, Penn State University and Eric Simms, Scripps Oceanic Institute					
	Monitoring Seasons Through Global Learning Communities (MSTGLC) Location: Top of the Reef 1					
	Dr. Elena Sparrow, University of Alaska Fairbanks					
	Exploring ecosystems and the atmosphere in the K-12 classroom: A plan to integrate NASA carbon cycle science					
	with GLOBE Location: Top of the Reef 2					
	Ms. Sarah Silverberg, University of New Hampshire					
	Moderator: Dr. Sandra Henderson, GLOBE Director of Education					
12:30 - 14:00	Lunch					

14:00 - 14:30	Conference Summary Reports by GLOBE Regional Representatives
	Moderators: Dr. Pornpun Waitayangkoon and Dr. Teresa Kennedy, Conference Co-Chairs
	Mr. Ayman Bin Rajab, GLOBE Student, Bahrain
	Mrs. Rogeline Brettenny, GLOBE Teacher, South Africa
	Dr. Krisanadej Jaroensutasinee, GLOBE Scientist, Thailand
	Mr. Jimmy Mangelsen, GLOBE Partner, Denmark
14:30 - 14:50	Concluding Keynote
	Dr. Ed Geary, GLOBE Acting Director
14:50 - 15:00	Closing Ceremony
	Passing of the Annual Conference Torch to Texas, USA
	Dr. Michael Odell, GLOBE Partner, University of Texas at Tyler
15:00	Adjourn

We hope to see you next year in San Antonio, Texas, USA, for the 11th Annual GLOBE Conference!

GLOBE is an interagency program funded by the National Aeronautics and Space Administration (NASA) and the National Science Foundation (NSF), supported by the U.S. Department of State, and implemented through a cooperative agreement between NASA, the University Corporation for Atmospheric Research (UCAR) in Boulder, Colorado and Colorado State University in Fort Collins, Colorado. GLOBE is a cooperative effort of schools in partnership with colleges and universities, state and local school systems, and non-government organizations. Internationally, GLOBE is a partnership between the United States and over 100 countries that manage and support their unique national and regional program infrastructure and activities.