



Regional Strategic Partnership

Tickell Global Climate Education and Observation Network

Climate Institute

National Oceanic and Atmospheric
Administration

Carlos José Díaz Leal - Luis Roberto Acosta – Aurora E. Ramos

carlos@climate.org

John Topping Jr

acosta@climate.org

www.climate.org

Tickell Global Climate Education and Observation Network

- High Altitude Global Climate Observation Center
 - World highest climate observation center, aligned with the Mauna-Loa Baseline Global Climate Observatory
 - 4560 meters above sea level (15,000 feet a.s.l.)
 - Latitude 19n59 + Longitude 97w10
 - Fill a “Crucial-Gap” in the Global Atmospheric Watch Network, coordinated by the United Nations
- Network of Climate Outreach and Education Centers
 - Three Operational Climate Education Nodes, more to follow
 - Integrate high-end planetary educational tools
 - Science on the Sphere Technology
 - Real Time Meteorological Stations
 - Educational Activities and Planet Science Training
 - Dedicated Designed Buildings to host Science on the Sphere and other technologies

Tickell High Altitude Global Climate Observation Center (15,000 f.a.s.l., Latitude 19n59, Longitude 97w10)



Monitoring Plataform 12 meter Diameter



Agreement for the S. O. S. Sir Crispin Tickell Network

Aurora E. Ramos - Senior Advisor Climate Institute

Francisco Castillo Montemayor - Ministry of Environment

Mario Marin Torres - Governor of the State of Puebla



Sir Crispin Tickell Observatory Education and Outreach Center in Puebla, Mexico





Red de Educación y Vigilancia Climática Global

Enero 2009



Parque Estatal Flor del Bosque, Puebla, México



Planet Theater, Boulder, Colorado



National Weather Center, Norman, OK



Clark Planetarium, Salt Lake City UT



Grade School Class in Planet Theater



The Tech, San Jose, California



Orlando Science Center, Florida



HRM Elizabeth II at NASA Goddard, MD

“Red Educativa para un mejor entendimiento de la Ciencia y el Cambio Global”



Current Status of Regional SOS Network

- 2009 The first three Global Climate and Planet Science Education and Outreach Centers
 - Puebla City
 - Operational since February 2009
 - More than 70,000 visitors
 - Dedicated “Bioclimatic Building” in environmental park
 - Democratization of Planet Science Tools
 - Mexico City
 - Natural History Museum Dedicated Hall
 - To be operational January 2010
 - Cuernavaca City
 - Dedicated building under construction (To be ready by February 2010)
 - Downtown public park
- Full Media Coverage in National Main Press and Media

2010 Future SOS Network Development

- Multi-Institutional work to have cities join the Global Climate Education and Observation Network
 - Michoacan, Zacatecas, Hidalgo, Guanajuato, Baja California Sur, Guerrero, Quintana Roo, Tabasco, Veracruz, Nayarit.
 - Other regional locations in process, like Dominican Republic, Costa Rica, Panama and Brazil
- Challenge: Wide and deep financial crisis.

Current Operation of Tickell Global Climate Education Network Nodes

- Dedicated Buildings are designed for each center
 - Isolate the public in a circular room with the Planet at the Center (avoid external lights or noise)
 - Simulate the Planet floating in the dark space
- Integrate High Technology with Natural Surroundings
 - Surrounded by Forest and Rural Environment in Ecological Park
- Live presenter with video and audio files
 - Live presenter adjusts to different audiences and gives personal attention
 - Audio and Video recordings great help with large audiences
 - One presentation every hour from 10:00 to 16:00 hrs
 - Agreements with schools to send children groups every day
 - Each presentation fits 150 people

HighLights

- Democratization of Planet Science and Climate Education
 - Address to all social levels:
 - CEO's of Companies and Industries
 - Ministers of Environment, Politicians and Congress Members
 - Indigenous groups, poor people and native communities
 - Private and Government Schools
 - Partner with Elementary, Secondary School, Universities and Research Centers
 - Press Media, Radio and TV Live Programs
- 2009 Pilot Global Climate Children's Summer Course
 - Use the SOS every day
 - Developed practices to have children point to
 - Endangered Animals' Habitats
 - Emblematic Ecosystems
 - Regions under risk to Floods, Droughts, Sea Level Rise, etc.
- All content has been developed or translated into Spanish
 - Footprints, Blue Planet, Coral Science, Frozen, Energy
 - Mother Earth Talking, Solar System, Global Change
 - We can share spanish content with other SOS sites

Centro Educativo y de Investigación
"Sir Crispin Tickell"

ENTRADA





The future...

- A New Age on Environmental and Planetary Science Education
- Science on the Sphere Network:
 - The **ICON** for *Latin American Bicentenary Celebrations* 2009-2011
- Continue Intense Regional Network Development
- Maintain the network quality, operational integration and coherence, versus isolated technology deployments
- Complement with interactive tools
 - Include Magic Planet Interactivity in Educational Centers
 - Plasma Monitors Interactivity with SOS
- Enhance Sphere casting with SOS
 - Provide real time conferences, video and audio.
 - Dialogues between spheres (one and two way network communication)
- Extend and strengthen NOAA and partners' presence in the Hemisphere



PANTALLA INTERACTIVA



mide

El MIDE piensa en sustentabilidad por eso estamos trabajando en la creación de nuestra sala de Desarrollo Sustentable

Economía, sociedad y medio ambiente

Pronto podrás descubrir cómo los gobiernos podemos contribuir a un planeta mejor y disfrutar de mejores vidas ahora, como está, en el nuevo espacio interactivo "La Tierra de los Niños"

MIDE estará presente al presentarse en Red de Educación y Vigilancia Ciudadana "En Ciudad Saludable"



L. R. Acosta
Climate Institute

Sir Richard Branson, Al Gore y Sir. Crispin Tickell,

Lic Francisco Castillo
Sec. Medio Ambiente
Edo de Puebla



Carlos Díaz Leal
www.climate.org
carlos@climate.org
carlosdiazleal@gmail.com

Muchas Gracias . . .