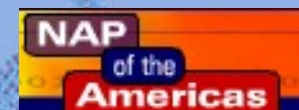
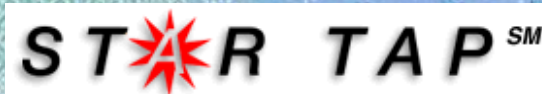




*Heidi Alvarez Presents...*  
***AmericasPATH***

***STAR TAP Annual Meeting***  
***INET 2001, Stockholm, Sweden***  
***June 5, 2001***





# ***The AMPATH Project***

---

- AMPATH is a project led by FIU, in collaboration with Global Crossing (GC), to interconnect the R&E networks in South and Central America, the Caribbean and Mexico to US and non-US R&E networks via Internet2's Abilene network
- GC's terrestrial and submarine optical-fiber networks (SAC, PAC and MAC) are used to build the AMPATH network



# ***Benefits of AMPATH***

---

- Provides high-speed connectivity to Internet2, US and non-US R&E networks at a very low cost:
  - DS3s to Miami are free (most expensive and challenging part).
  - Circuits to transit networks, engineering and operations are cost-shared among all participants.
- Funding Model includes cost-sharing and aggressive pursuit of grants.



# ***AMPATH Project Goals***

---

- Extend the U.S.' research and education community for high-performance networking to South and Central America, the Caribbean and Mexico.
- Enable participating countries to contribute to the research and development of applications for the advancement of science and Internet technologies.
- To serve as the Pathway for Research and Education Networking in the Americas and to the World.



# ***About Florida International University***

---

- Doctoral/Research University-Extensive.
- A member of the State University System of Florida with 32,000 students.
- One of the nation's largest doctoral-granting majority-minority universities.
  - Largest contingent of Hispanic students of any doctoral-granting university in the country.
- GigaPOP with University of Miami and Florida Atlantic University as charter universities.



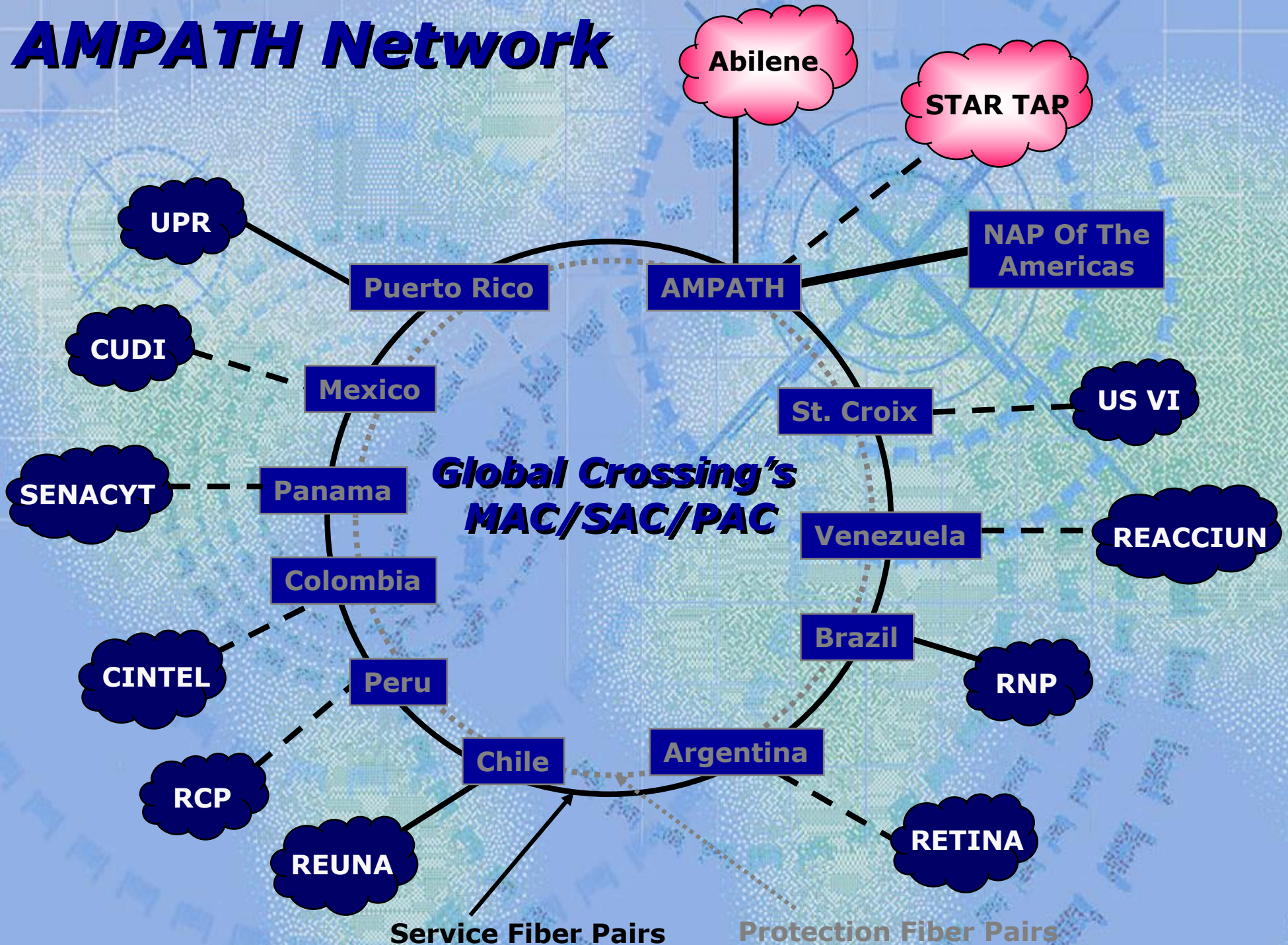
# ***AMPATH Service Area***



- Argentina
- Brazil
- Chile
- Colombia
- Costa Rica
- Mexico
- Panama
- Peru
- Puerto Rico
- US Virgin Islands
- Venezuela



# ***AMPATH Network***





# ***Request for Application Information for AMPATH***

---

- Gemini South Observatory—James Kennedy, Chile  
[jkennedy@gemini.edu](mailto:jkennedy@gemini.edu)
- NASA International Space Station (allowing scientists to conduct experiments in space)—  
Bob Bradford, USA [Bob.Bradford@msfc.nasa.gov](mailto:Bob.Bradford@msfc.nasa.gov)
- Modeling 13-C and 15-N Chemical Shifts in  
Crystalline systems—Julio C. Facelli, USA  
[facelli@chpc.utah.edu](mailto:facelli@chpc.utah.edu) and Marta Ferraro, Argentina  
[marta@dfuba.df.uba.ar](mailto:marta@dfuba.df.uba.ar)
- Light Parallel Applications on Large-Scale  
Multi-Institution Computational Grids—Walfredo  
Cirne, Brazil [walfredo@dsc.ufpb.br](mailto:walfredo@dsc.ufpb.br)

See [www.ampath.fiu.edu](http://www.ampath.fiu.edu) to tell us about other applications between US Science and the AMPATH Service Area.



# ***Applications for AMPATH at FIU***

---

- High-Performance Database Resource Center Collaboration with US Geological Survey. Research will use Internet 2 to transfer 20TB+ of satellite and other remote sensing data to HPDRC data center for ingest into TerraFly application.
  - <http://hpdrc.cs.fiu.edu/terrafly/>
  - Once database is built, it will be one of the worlds largest extended GIS system available on the web
- Access Grid. Preparing to present in SC 2001 Global, and to connect interested AMPATH participants to the conference.
  - <http://www.sc2001.org/scglobal.shtml>





# ***AMPATH Workshop***

***FIU AMPATH Workshop to Identify Areas of Scientific  
Collaboration between the US and the AMPATH Service  
Area***

**August 16, 2001**

**Florida International University**

**Koven's Conference Center at Biscayne Bay Campus  
(wireless and Internet2 access will be provided)**

**Miami, Florida**

***Look for details this week via email and on  
[www.ampath.fiu.edu](http://www.ampath.fiu.edu)***



# ***Project Time Line***

**June 2001**

**AMPATH PoP in service from GC's PoP in Telehouse;  
Connect Chile;  
Present AMPATH at STAR TAP Annual Meeting/ INET (June 5-8);  
Connect Puerto Rico**

**July 2001**

**Connect Brazil and Argentina;  
Conduct workshop at FIU to identify science applications for  
collaboration in AMPATH Service Area**

**Dec 2001**

**Connect Panama, Mexico, USVI, Colombia;  
Establish OC3 connection to STAR TAP and secure AMPATH's  
participation in Starlight optical project;  
Participate in SC 2001/SC Global conference**

**July 2002**

**Connect Peru and Venezuela  
Connect remaining countries in the AMPATH Service Area**

**Dec 2002**

**Work with Project Participants to exceed bandwidth utilization,  
achieving project success**





# ***AmericasPATH***

**For more information**

**[www.ampath.fiu.edu](http://www.ampath.fiu.edu)**

**[heidi@fiu.edu](mailto:heidi@fiu.edu) or [julio@fiu.edu](mailto:julio@fiu.edu)**





# ***AmericasPATH***

## **Thank You !**

