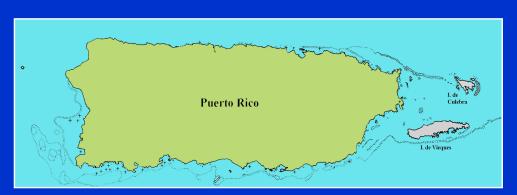
Remote Sensing Research and Digital Archives at the University of Puerto Rico

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

Roy A. Armstrong, Ph.D.

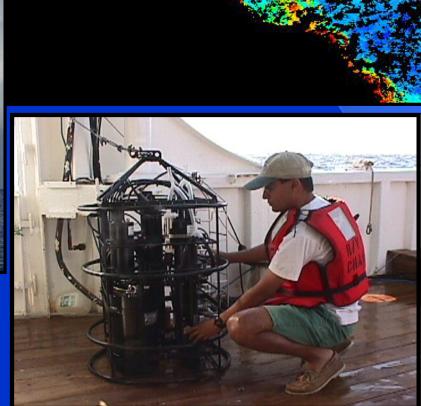
Bio-Optical Oceanography Laboratory, Department of Marine Sciences Fernando Gilbes, Ph.D.

Space Information Laboratory, Tropical Center for Earth and Space Studies
University of Puerto Rico, Mayaguez Campus



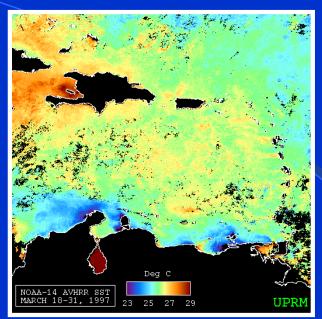
Oceanographic Research

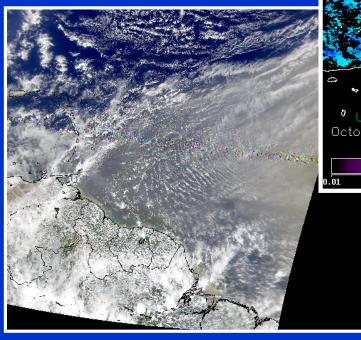


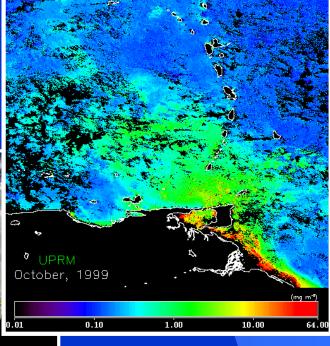


OCEAN FERTILIZATION STUDIES

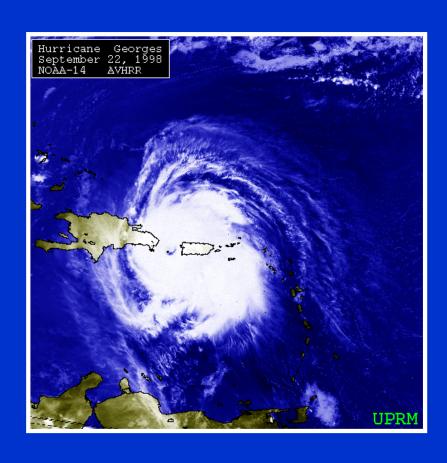
- ✓ Studies of coastal upwelling in Venezuelan Waters.
- ✓ South American river intrusions in the Eastern Caribbean
- ✓ Effects of Sahara dust aerosols in the tropical Western Atlantic

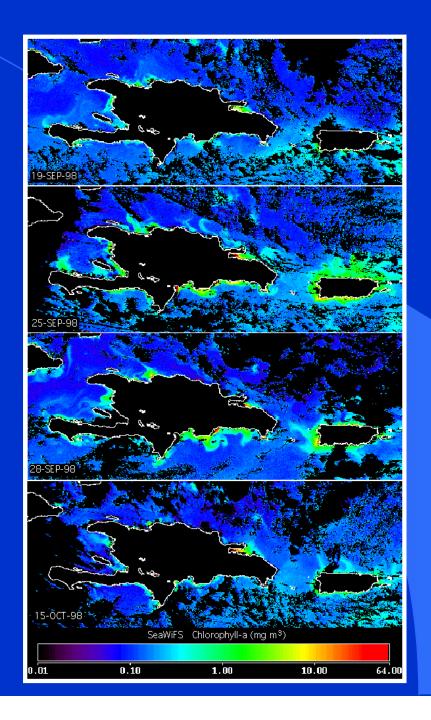




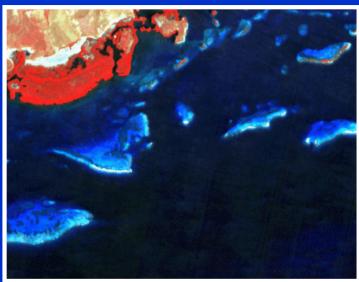


PHYTOPLANKTON BLOOM AFTER HURRICANE GEORGES





Landsat Thematic Mapper Data



La Parguera, Puerto Rico



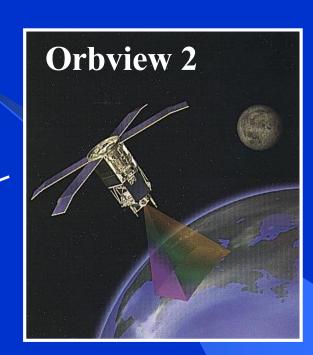
Los Roques, Venezuela

L-BAND ANTENNA



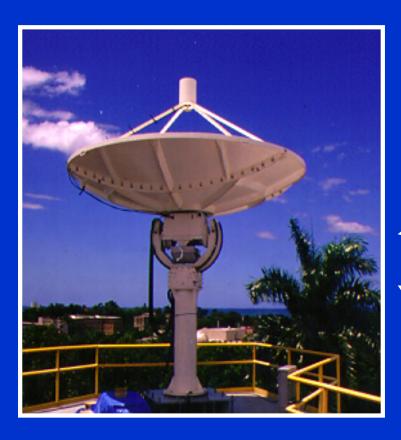
SeaWiFS

AVHRR

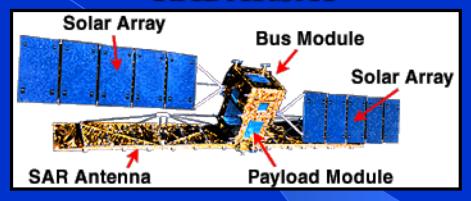




X-BAND ANTENNA



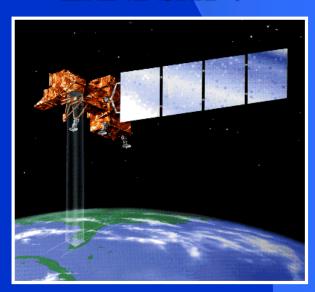
RADARSAT



SAR

LANDSAT-7

ETM



FOOTPRINT OF THE UPRM SATELLITE RECEIVING STATION



X-BAND RECEIVING FACILITIES

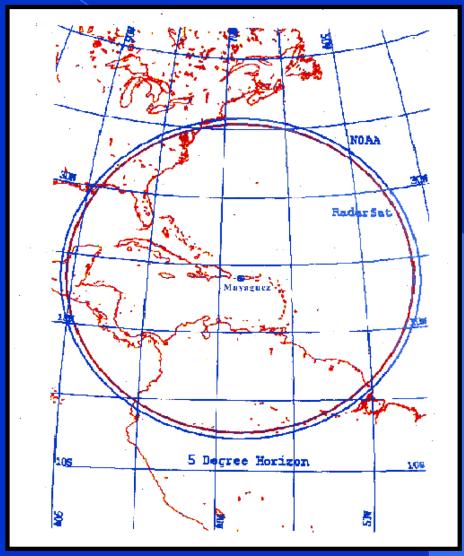
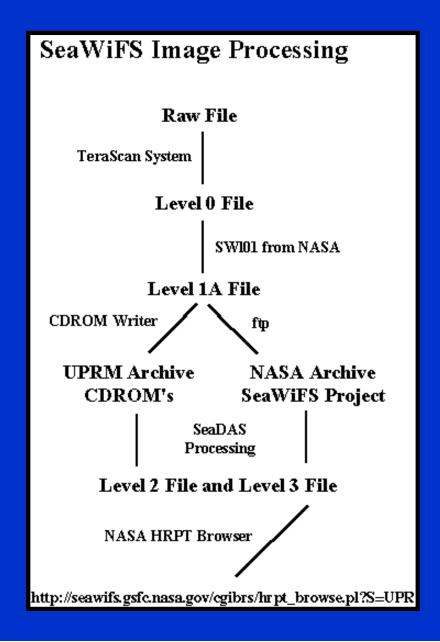


IMAGE PROCESSING



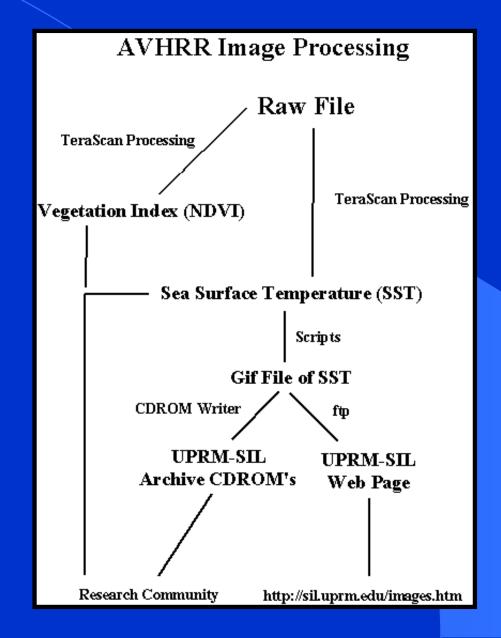


IMAGE FILE SIZE

AVHRR SeaWiFS **TeraScan**

Software

Raw File = 60-100 MB

L1 File = 50-90 MB

L3 File = 1-2 MB

SAR

Vexcel

Software

Raw File = 3-4 GB

L0 File = ~ 0.5 GB

ETM+

Vexcel

Software

Raw File = 1-8 GB

L0 – Not Available Yet

Remote Sensing Resources University of Puerto Rico

- TCESS Space Information Laboratory
 - http://sil.uprm.edu/
- NASA GSFC SeaWiFS HRPT Browse
 - http://seawifs.gsfc.nasa.gov/cgibrs/hrpt_browse.pl?S=UPR
- Real-Time Sea Surface Temperature
 - http://sil.uprm.edu/images.htm
- Bio-Optical Oceanography Laboratory
 - http://cacique.uprm.edu/~biol/