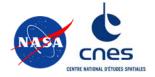




# PROMOTING OSTST SCIENCE, RESEARCH, AND SOCIETAL BENEFITS

Margaret Srinivasan
Altimeter Applications Lead
Jet Propulsion Laboratory
California Institute of Technology

Ocean Surface Topography Science Team Meeting 23 June 2009 Seattle, Washington



#### **Web Resources**





NASA/JPL OST "Sealevel" http://sealevel.jpl.nasa.gov



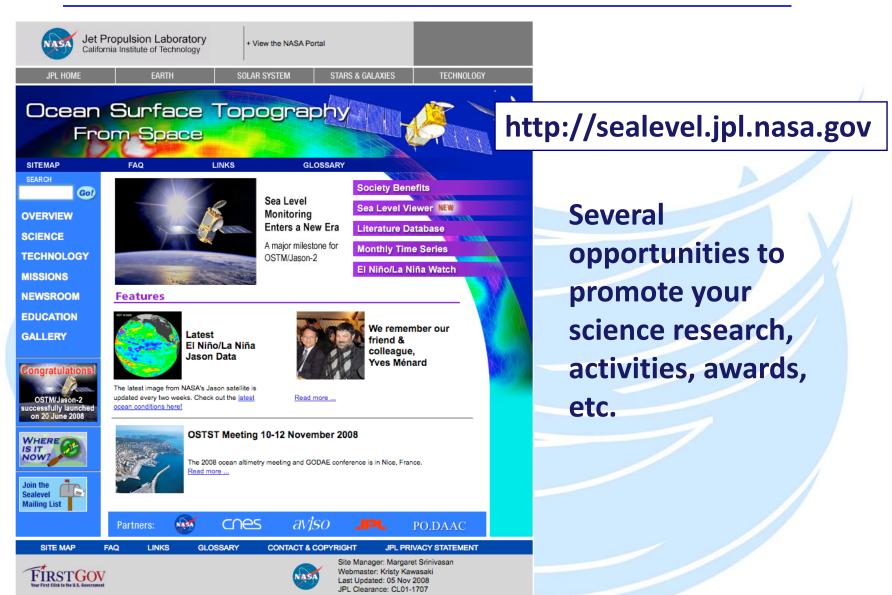


Aviso http://www.aviso.oceanobs.com/



## **Promoting the OSTST**







## **Coming Soon--New OST web site**



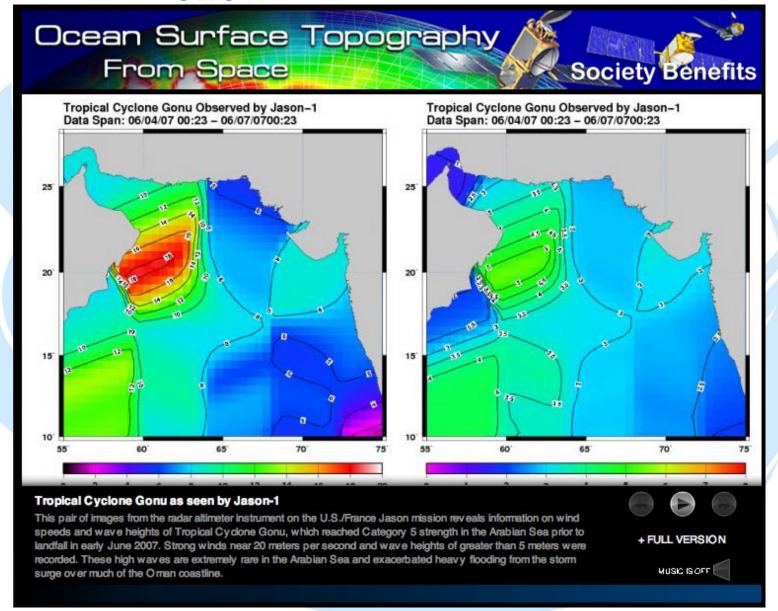


# COLORS CENTRE NATIONAL D'ÉTUDES SPATIALES

#### Society Benefits Slide

#### JPL

### **Show**





#### **Methods**



Features – monthly updates

**New Science Pages** 

Science Investigations – summaries

Literature Database – quarterly updates

Societal Benefits - slides downloadable



#### JPL Web Site -- Features





Jason-1 begin their tandem

flying in a new configuration designed to get the most detailed

mission in February, they'll be

measurements possible of the

ocean surface. They'll enable scientists to distinguish much smaller ocean features than they could with only one satellite and see more quickly how these **Tandem Mission news** 

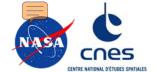
- Features - Press Releases

- Lectures/Talks

**EDUCATION** 

**GALLERY** 





### JPL Web Site -- Blogs





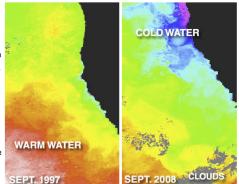
Oceans Up Close - From Space

**JPL Scientist Jorge Vazquez** 

Oceanographer bottom of the ocean. The satellites view the ocean from 700 to 1,300 kilometers (440 to 800 miles) above Earth. Current advanced technologies allow scientists to combine data from different satellites to view ocean conditions in near-real time, only 6 to 12 hours from when the satellite acquires the data. This information can then be sent to researchers and decision makers for use in improving forecasts for hurricanes to the regional and local impacts of ocean phenomena like El Nino and La Nina.

Examples of satellite data can be seen in these images. The view on the left shows temperatures off the coast of California in September of 1997 (El Nino). On the right, sea surface temperatures from September of 2008 (normal conditions). Notice the warmer temperatures (seen in red) resulting from the 1997-1998 El Nino event. Such temperature changes have direct impacts on local climate and fisheries. These data are leading to a new understanding of how hurricanes get their energy from the ocean. These satellite data also help forecast regional ocean temperatures, which affect local weather.

by Jorge Vazquez



technological advances over the last century have revolutionized the field of

oceanography. Today, we gather data both from instruments in the ocean and

from satellites in space. These satellite data measure changes in sea surface

topography (the ocean surface has changes in elevation, just like the land),

ocean surface winds, sea surface temperature and water pressure at the

As technology improves, along Image above: Sea surrate temperatures in 1997, Softing Image credit: NOAA when the waters had returned to more normal conditions.Image credit: NOAA with the availability of these data in real time, new opportunities will continue to expand to better understand our planet and its impacts on our lives.

Archives June 2009 May 2009 April 2009 March 2009 February 2009 January 2009 November 2008 October 2008 September 2008 August 2008 July 2008 Cassini on Twitter JPL on Facebook

Jorge Vazquez, an

oceanographer, is a project scientist with the

Center at JPL.

Physical Oceanography Distributed Active Archive

See Authors Posts (1)

Earth (8)

Mars (8)

Universe (6)

Contributors

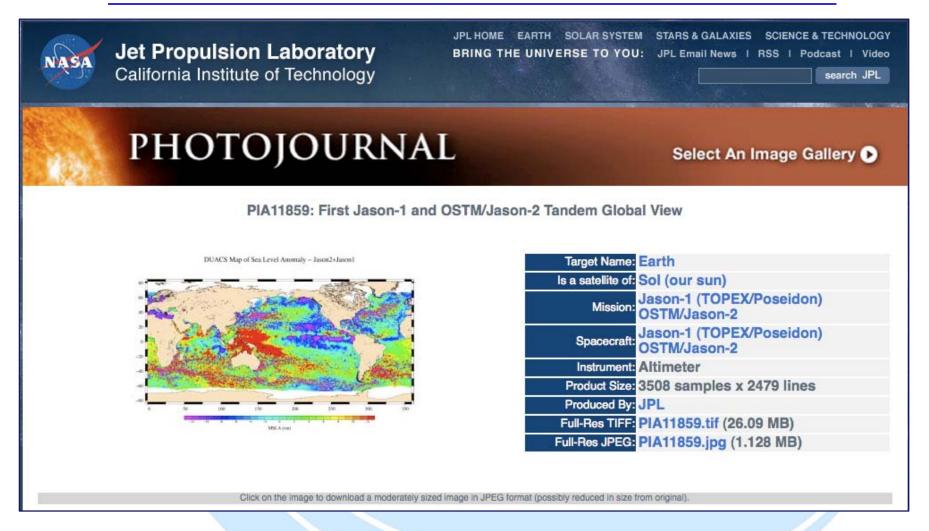
Saturn (2)

**OST** web site



## JPL Web Site – Image Release



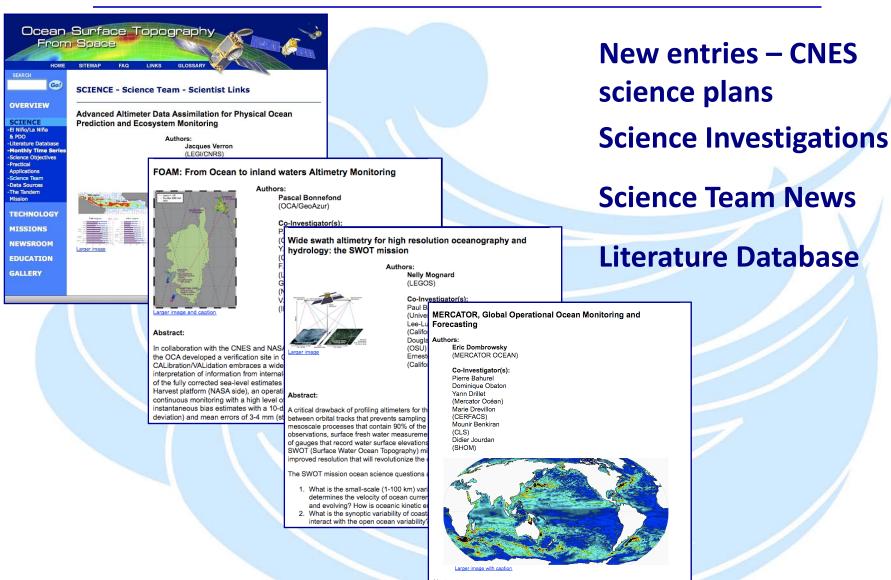


#### **NASA's Planetary Photojournal**



#### **Scientist Links**







## Your help...



- Consider potential and operational applications of your research
- Estimate the economic/practical effects/benefits
- Get your story out into the public domain;
  - Feature
  - Press Release
  - Image Release
  - Awards, Honors, Milestones



## Your help...



- Consider potential and operational applications of your research
- Estimate the economic/practical effects/benefits
- Get your story out into the public domain;
  - Feature
  - Press Release
  - Image Release
  - Awards, Honors, Milestones

## Thanks.