

Ocean Surface Topography on the Web

What's In It for You?

Margaret Srinivasan

Jet Propulsion Laboratory,
California Institute of Technology

The "Ocean Surface Topography from Space" website at the Jet Propulsion Laboratory serves a wide audience — the general public, educators, and scientists. The site features regularly updated information on ocean altimetry, with links to our partners — CNES, CCAR, TAMU, PODAAC — and to topical and relevant issues such as El Niño and La Niña, the Pacific Decadal Oscillation, data resources, and reference materials.

The website, encompassing the broad topic "Sea Level from Space," is designed to be a useful tool for ocean scientists in the SWT and others in the ocean science research community. Our goal is to emphasize the utility of the science and to serve as a gateway to understanding the value and relevance of NASA's ocean altimetry missions. Providing a wide spectrum of information on the TOPEX/Poseidon and Jason-1 missions (and soon, the proposed Ocean Surface Topography Mission, or OSTM), the site presents a detailed overview of the science and technology of ocean altimetry.

The SWT is an integral part of the success of this effort. With your participation, we can make this site useful to you in your research efforts, help establish NASA's ocean altimetry missions as a necessary operational tool for industry and commercial entities, and encourage participation in ocean science learning by students and the interested public.

We have a common goal. Team with us in making the "Ocean Surface Topography from Space" website practical and useful to the science team as well as to the general public and to educators.

<http://sealevel.jpl.nasa.gov>



Website Features

Features

- Research highlights
- Practical applications
- Regular updates

Science

- Science objectives
- People
- Applications
- Jason-1 science plans
- Time series data

Technology

- Missions
- Instruments

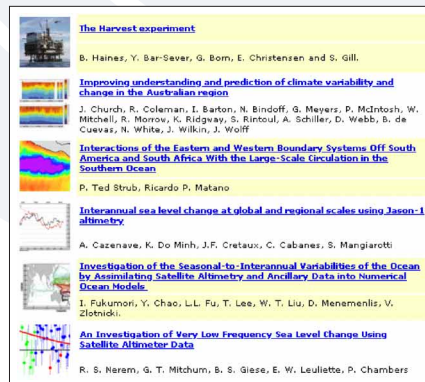
Links

- Partners, universities
- CNES/AVISO
- CCAR
- TAMU
- NOAA, NASA-Oceans

What's In It for You?

• Your Science Results!

Over 290,000 unique visitors viewed the site from January through April 2002, with over 2,400 average viewer sessions logged per day.



SCIENCE - Literature Database Search

LITERATURE DATABASE SEARCH RESULTS

Click on the Title to get the details for that entry. Or return to the [Search page](#) and run another search.

[NEXT >>](#)

Displaying 1 to 10 of 18

1. 25-day period large-scale oscillations in the Argentine basin revealed by the TOPEX/Poseidon altimeter. Year: 2001. Authors: Fu, L. L.; Cheng, B.; Qiu, B.
2. Assimilation of TOPEX/Poseidon altimeter data into a global ocean circulation model: How good are the results? Year: 1999. Authors: Fukumori, I.; Raghunath, R.; Fu, L. L.; Chao, Y.
3. Sea surface height variations in the South China Sea from satellite altimetry. Year: 1999. Authors: Shaw, P. T.; Chao, S. Y.; Fu, L. L.
4. Relationship of TOPEX/Poseidon altimetric height to steric height and circulation in the North Pacific. Year: 1998. Authors: Gilson, J.; Roemmich, D.; Cornuelle, B.; Fu, L. L.
5. The sensitivity of a global ocean model to wind forcing: A test using sea level and wind observations from satellites and operational wind analysis. Year: 1997. Authors: Fu, L. L.; Chao, Y.
6. Evidence of boundary reflection of Kelvin and first-mode Rossby waves from TOPEX/Poseidon sea level data. Year: 1996. Authors: Boulanger, J. P.; Fu, L. L.
7. Global ocean circulation from satellite altimetry and high-resolution computer simulation. Year: 1996. Authors: Fu, L. L.; Smith, R. D.
8. Reflecting on the First Three Years of TOPEX/POSEIDON. Year: 1996. Authors: Fu, L. L.; Kobalinsky, C. J.; Minster, J. F.; Picaut, J.
9. A comparison between the TOPEX/POSEIDON data and a global ocean general circulation model during 1992-1993. Year: 1995. Authors: Chao, Y.; Fu, L. L.
10. A note on the barotropic response of sea level to time-dependent wind forcing. Year: 1995. Authors: Fu, L. L.; Davidson, R. A.

• Searchable TPJ Literature Database

Published literature for TOPEX/Poseidon and Jason-1-related science, engineering, applications, and education research from 1990 to present. Over 1,390 articles are included from over 335 journals and publications.

• Sealevel listserve

Over 300 people have signed up for this new service. Updates currently go out to members with a specific interest in altimetry science.

• Time Series Data

A new dataset of monthly images and animations of SSH & SST.

SCIENCE - Time Series Data

TIME SERIES DATA - IMAGES

The images shown are useful for visual comparisons. The original digital data, for quantitative analyses, can be obtained from the [NASA Physical Oceanography Distributed Active Archive Center \(PO.DAAC\)](#).

Click on the colored bars below to get the first month's data for that year, or click on the black dot to get the yearly data.

	'92	'93	'94	'95	'96	'97	'98	'99	'00	'01
MONTHLY GLOBAL SSH AND SST										
ANNUAL GLOBAL SSH AND SST										
MONTHLY PACIFIC SSH AND SST										
ANNUAL PACIFIC SSH AND SST										

• Information & Graphics for Your Use

Animations, data, spacecraft, images, posters

Partnering

How Can We Make It Better?

- We need feedback from scientists on utility, format, and interface.
- What is useful to you? How can it be of more use?
- What additional features would you like to see?

How Can You Help?

- Tell us about your research and operational milestones — advise us on publication of your work that is relevant in the current media (for example, "El Niño, or El No Show?" recently in the news).
- Is our literature database complete? If your T/P/J work is not there, let us know.
- Suggest "Features" or other topics of interest. We can include these in the coming months.

A Common Goal

We have a common goal — broad dissemination, understanding, and utility of the important work of NASA's ocean altimeter satellites.

Team with us in making the "Ocean Surface Topography from Space" web site — Sea Level from Space — practical and useful to the science team.