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Satellite Altimetry and Earth Sciences

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Satellite altimetry is not new. The first measurements were made from Skylab in 1973. However, altimetry has blossomed since the early 1990s, especially with results from the TOPEX/Poseidon altimeter mission, which began in 1992 and continues today. Few people missed seeing altimeter-derived images or movies of the El Niño/La Niña events in the late 1990s on television newscasts, though many may not have realized the source.

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The level of precision and global coverage provided by satellite altimetry is rapidly advancing studies of ocean circulation. It allows for insights into marine geodesy, ice sheet movements, and plate tectonics, and provides high-resolution bathymetry for previously unmapped regions of our watery

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planet and crucial information on the large-scale ocean features on intra-season to interannual time scales.

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Abstract. Satellite altimetry is a radar technique measuring the topography of the Earth surface. It was initially designed for the measuring of the topography of the sea surface with reference to an ellipsoid and for the determination of the marine geoid. It also provided valuable information on the ocean circulation.

Satellite Altimetry: Principles and Applications in Earth ...

Satellite Altimetry for Earth Sciences.

Frédéric Frappart , Ole Andersen , Sergey

Lebedev and Guillaume Ramillien (Eds.) Pages:

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484 Published: April 2019 (This book is a printed edition of the Special Issue Satellite Altimetry for Earth Sciences that was published in Remote Sensing)

Satellite Altimetry for Earth Sciences | MDPI Books

Satellite altimetry and earth sciences: a handbook of techniques and applications:  
Publication Type: Book: Year of Publication: 2000: Authors: Fu, L., and A. Cazenave:  
Publisher: Academic Press: Keywords: sea\_level: CU Sea Level Blog. New group publication: "Is the detection of accelerated

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sea level rise imminent?" by Fasullo et al.

Satellite altimetry and earth sciences: a handbook of ...

Satellite Altimetry and Earth Sciences A Handbook of Techniques and Applications. Edited by Lee-Lueng Fu, Anny Cazenave. Volume 69, Pages 1-463 (2001) Download full volume. Previous volume. Next volume. Actions for selected chapters. Select all / Deselect all. Download PDFs Export citations.

International Geophysics | Satellite Altimetry and Earth ...

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The principle is that the altimeter emits a radar wave and analyses the return signal that bounces off the surface. Surface height is the difference between the satellite's position on orbit with respect to an arbitrary reference surface (the Earth's centre or a rough approximation of the Earth's surface: the reference ellipsoid) and the satellite-to-surface range (calculated by ...

5.1 How altimetry works - Radar Altimetry Tutorial and Toolbox

Ocean currents and eddies. Pp. 171-210 in

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Satellite Altimetry and Earth Sciences: A Handbook for Techniques and Applications. L.-L. Fu and A. Cazenave, eds, Academic Press, San Diego. Le Traon, P.-Y. 1993.

Eddy Dynamics from Satellite Altimetry |  
Oceanography

Satellite altimetry measurements of sea level changes over 1993 to 2018, from data collected by the TOPEX-Poseidon and three Jason altimetry missions (Source: NASA Earth Observatory). Traditional methods for measuring sea level come in the form of tidal gauges, usually installed in coastal areas

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and harbours.

How Do We Measure Sea Level Rise? | Earth.Org  
- Past ...

Satellite altimetry is a radar technique for measuring the topography of the Earth's surface. It was initially designed for measuring the ocean's topography, with reference to an ellipsoid, and for the determination of the marine geoid.

Special Issue "Satellite Altimetry for Earth Sciences"

POD is part of the Earth science discipline

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of geodesy, which is concerned with the shape, gravity field, and rotation of Earth and how these variables change over time. The process of POD involves doing a summation at every time step of all the forces acting on a spacecraft, and integrating equations of motion to determine the exact position of an orbiting satellite where a measurement is taken.

The Precision Behind Sea Level Rise |  
Earthdata

Introduction. Satellite altimetry measures the global sea surface height (SSH), which

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has been used in geodesy to address a wide range of scientific questions, such as the determination of the marine gravity field and mean sea surface (Chelton et al., 2001; Deng et al., 2011; Andersen and Knudsen, 2014; Sandwell et al., 2014 ).

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