

Figure 2.26: Past ...

data.globalchange.gov/report/nca3/chapter/our-changing-climate/figure/past-and-projected-changes-in-global-sea-level-rise

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Figure : past-and-projected-changes-in-global-sea-level-rise

Past and Projected Changes in Global Sea Level Rise

Figure 2.26

This figure appears in [chapter 2](#) of the [Climate Change Impacts in the United States: The Third National Climate Assessment](#) report.

Estimated, observed, and possible future amounts of global sea level rise from 1800 to 2100, relative to the year 2000. Estimates from proxy data <sup>1</sup> (for example, based on sediment records) are shown in red (1800-1890, pink band shows uncertainty), tide gauge data are shown in blue for 1880-2009, <sup>2</sup> and satellite observations are shown in green from 1993 to 2012. <sup>3</sup> The future scenarios range from 0.66 feet to 6.6 feet in 2100. <sup>4</sup> These scenarios are not based on climate model simulations, but rather reflect the range of possible scenarios based on other scientific studies. The orange line at right shows the currently projected range of sea level rise of 1 to 4 feet by 2100, which falls within the larger risk-based scenario range. The large projected range reflects uncertainty about how glaciers and ice sheets will react to the warming ocean, the warming atmosphere, and changing winds and currents. As seen in the observations, there are year-to-year variations in the trend. (Figure source: NASA Jet Propulsion Laboratory).

When citing this figure, please reference J. Willis, Jet Propulsion Laboratory.

Free to use with credit to the original figure source.

References :

1 Climate related sea-level variations over the past two millennia (e679d754)

2 Sea-Level Rise from the Late 19th to the Early 21st Century (94a8514e)

3 Estimating Mean Sea Level Change from the TOPEX and Jason Altimeter Missions (7b7f1cb0)

4 Global Sea Level Rise Scenarios for the United States National Climate Assessment. NOAA Tech Memo OAR CPO-1 (d8089822)

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article: Estimatin...

data.globalchange.gov/article/10.1080/01490419.2010.491031

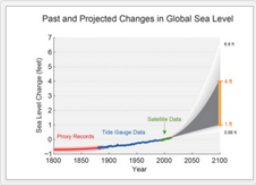
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article : 10.1080/01490419.2010.491031

Estimating Mean Sea Level Change from the TOPEX and Jason Altimeter Missions



mission-ocean-altimeter-data-for-climate-research

7b7f1cb0, and nca3. (reference: 7b7f1cb0)

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Integrated Multi-Mission Ocean Altimeter Data for Climate Research

[University of South Florida, National Aeronautics and Space Administration, University of Colorado](#)

Integrated Multi-Mission Ocean Altimeter Data for Climate Research is to develop a data set of Sea Surface Height data that meets the requirements demanded to meet the needs for climate research under the auspices of the NASA MeASURE's University of South Florida, University of Colorado, and the Altimetry.

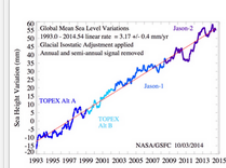
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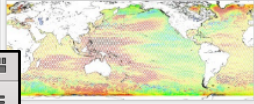
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poseidon-2 - Advan...

data.globalchange.gov/instrument/poseidon-2

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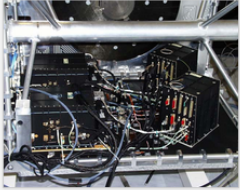
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Instrument : poseidon-2

Advanced Microwave Radiometer

National Aeronautics and Space Administration, Centre National D'études Spatiales



[sealevel.jpl.nasa.gov](#)

Advanced Microwave Radiometer (AMR) is a passive microwave radiometer that measures the brightness temperature of the Earth's surface. It is used to estimate atmospheric water vapor and sea surface temperature. The instrument is part of the Poseidon-2 satellite mission.

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jason-1 - Jason-1 ...

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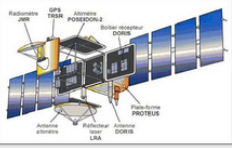
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Platform : jason-1

Jason-1



[directory.eoportal.org](#)

Jason-1 is a satellite mission that monitors sea level rise and ocean temperature. It is part of the TOPEX/Poseidon mission. The satellite is equipped with a radar altimeter, a laser altimeter, and a Doppler shift measurement system. It is used to measure the height of the sea surface relative to a reference point, and to estimate atmospheric water vapor and sea surface temperature.

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