

Satellite Altimetry Over Oceans And Land Surfaces

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The Physics of Climate Change Online Lecture with Lawrence Krauss

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Satellite observations of XCO₂ show greater biases apparently over oceans than over the land surface. However, no effective ways to evaluate space-time XCO₂ variations over wide geographical areas ...

Private-public partnership helps to evaluate satellite observations of atmospheric CO₂ over oceans

Following liftoff last November and more than six months spent carefully calibrating the most advanced mission dedicated to measuring sea-level rise, Copernicus Sentinel-6 Michael Freilich is now ...

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Major Ocean-Observing Satellite – Copernicus Sentinel-6 – Goes Live!

The new European-American ocean-monitoring satellite Sentinel 6 Michael Freilich has started delivering ultra-precise measurements of rising sea levels on Earth a six-month shakedown period. As the ...

The Sentinel 6 satellite is now tracking Earth's rising sea levels with unprecedented accuracy

Scientists already know the oceans are rapidly warming and sea levels are rising. But that's not all. Now, thanks to satellite observations, we have three decades' worth of data on how the speeds of ...

The Speed Of Ocean Currents Is Changing In A Major Way, Scientists Warn

Sentinel-6 Michael Freilich, the latest spacecraft to monitor sea surface height, releases its first science measurements to users. After six months of check-out and calibration in orbit, the Sentinel ...

Advanced New Ocean-Observing Satellite Starts Providing Science Data

To understand how microplastic pollution is affecting the ocean, scientists need to know how much is there and where it is accumulating. Most data on microplastic concentrations comes from commercial ...

Ocean Microplastic Pollution Can Now Be Tracked By Satellite

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Wind is the primary driver of the oceanic general circulation, yet the length scales at which this energy transfer occurs are unknown. Using satellite data and a recent method to disentangle ...

Scale of oceanic eddy killing by wind from global satellite observations

With the most advanced Earth-observing laser instrument NASA has ever flown in space, scientists have improved their maps of these hidden lake systems.

Yes, there are SPACE LASERS, and they're looking for hidden lakes

The Sentinel-6 Michael Freilich satellite ... told The Daily Beast that the Sentinel-6 altimeter offers about a 50 percent improvement in accuracy over its predecessor. "The instrument employs ...

NASA's Space Satellites Are Spying on Our Rising Seas

Set for launch next year, the Surface Water and Ocean Topography mission will help scientists ... CNES is providing the Doppler Orbitography and Radioposition Integrated by Satellite (DORIS) system, ...

Assembly of Satellite to Track World's Water Shifts From US to France

The satellite has a radar altimeter whose function ... supplied sea-surface height data over the last three decades, mapping 95 percent of Earth's ice-free ocean every ten days.

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ESA's sea-level monitoring satellite Sentinel-6 becomes operational

Hurricane Elsa is now moving northwest and is expected to pass over the Windward Islands or southern Leeward Islands this morning before heading to the eastern ...

Hurricane Elsa: First Hurricane Of The Year Declared Over Caribbean As Tropical Storm Strengthens

Just over 4% of the ice volume in ... Researchers used radar altimetry technology embedded in a European Space Agency satellite, which they say is the first step toward year-round observation ...

Glaciers All Over the World Are Shrinking Fast—See for Yourself Over 200 cutting-edge products and research achievements focused on human-centered Society 5.0 of the future The Government of Japan's Cabinet Office announced that it will organize the Society 5.0 ...

Cabinet Office to Organize Society 5.0 Expo to Showcase Japan's Advanced Technologies and Achievements

"The altimetry data are now being processed at EUMESAT headquarters in Darmstadt, from where the satellite is ... The rate at which the oceans are rising has accelerated over the past two decades ...

Major ocean-observing satellite starts providing science data The satellite is equipped with a radar altimeter known as the Poseidon-4. It measures sea surface height by sending out radio

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wave pulses and measuring the time it takes for them to bounce off the ...

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