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by Robinson, Ian S.(August 17, 2004)

Hardcover Hardcover - January 1, 1602

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Monitoring the Oceans from Space

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MOOC

0:31 Skip to 0 minutes and 31 seconds

Welcome to the EUMETSAT course on monitoring the oceans from space. The oceans, this vast expanse of blue, are the biggest feature on our planet. They're the reason that we call Earth "the blue planet." They're an important part of the Earth's engine.

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Monitoring the Oceans from Space - Online Course

Every 10 days, Jason-1 measures heights of more than 90% of the world's ice-free oceans with the radar altimeter and completes 127 revolutions, or orbits, around the Earth. To measure sea surface height we need the satellite's

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position in its orbit and the height between the satellite and the ocean's surface.

NASA - Ocean Topography from Space

When I stand on the edge of the ocean, or fly across the Pacific, it seems incredible that snowballs from space

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could have filled the oceans. Given several hundredmillion years, it works. Given ...

Oceans from Space | Space

NASA has been observing the oceans from space for more than 20 years. NASA launched Seosat, the first civilian oceanographic satellite, on June 28,

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1978. The satellite carried five complementary sensors designed to monitor the oceans from space. These sensors included: a radar altimeter to measure spacecraft height above the ocean surface

Oceanography | Science Mission Directorate

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SST from Space What you Should Learn To-day 1) The principles of radiometry from Space 2) Characteristics of Major European and Other Space Missions to Measure Global SST 3) Some of the large-scale and Mesoscale Thermal Properties of the Global Ocean Surface 4) How to use a simple ready-made IDL Tool for the Quick Look

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Measuring Sea-Surface Temperature from Space

The surface of the ocean bulges outward and inward, mimicking the topography of the ocean floor. The bumps, too small to be seen, can be measured by a radar altimeter aboard a satellite. Satellite imagery may also be used to map

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features in the water, such as coral reefs.

How are satellites used to observe the ocean?

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of the data.

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By subtracting the first distance
(between the satellite and ocean
surface) from the second distance
(between the satellite and Earth's
center), we can calculate the distance

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from the ocean surface to Earth's center.

How Do We Measure Sea Level? | NASA Climate Kids

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Springer-Verlag , Heidelberg, Germany ,
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mm . xlv + 669 pages , plus 23 pages of
colour plates, 262 figures and 46 tables.

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Ocean remote sensing techniques

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(IR) measurement of sea surface
temperature (SST) --Microwave
radiometry --Radars, sea surface
roughness, and scatterometry

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--Synthetic aperture radar (SAR) imaging of the ocean --Radar altimeter over the ocean --The way ahead --Index.

Measuring the oceans from space : the principles and ...

The planned Sentinel 6 satellite, which will continue to take high precision measurements of sea level from space,

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Credit: EUMETSAT Ok, you can see
where this is going - we can bounce
radar off the sea from space.

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