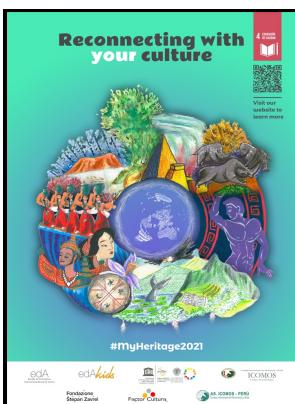


# Space oceanography - lectures presented at an intensive course organised by the European Institute for Advanced Studies in Oceanography, University of Dundee, Scotland, 2nd-22nd September 1990

**World Scientific - Space oceanography : lectures presented at an intensive course organised by the European Institute for Advanced Studies in Oceanography, University of Dundee, Scotland, 2nd**



Description: -

- Oceanography -- Remote sensing -- Congresses.  
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Our oceans play a major role in influencing changes in the world's climate and weather. NASA has been observing the oceans from space for more than 20 years. Olesen; radiative transfer equation and visible and near-infrared data, S.

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Ship-based oceanographers are limited to sampling the ocean in a relatively small area with often a great deal of difficulty.

## Oceanography

. The satellite carried five complementary sensors designed to monitor the oceans from space.

## Oceanography

All are meant to explore the envelope of what is known and understood about the physical, chemical and biological processes of the planet. During the last decade, forecasting models have benefited from satellite data as they have improved the ability to predict events such as El Niño and other

global and regional climate cycles. And only by understanding the dynamics of the oceans can we begin to do this.

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Ocean Exploration at NASA NASA is the exploration agency of the Federal Government. Looking at our Earth from space, it is obvious that we live on a water planet.

**Oceanography**

It carried the first AVHRR sensor which produced the first really useful maps of sea-surface temperature, and the Coastal Zone Color Scanner, that produced the first maps of chlorophyll and primary productivity in the ocean. Data from ships, buoys, and drifters are not sufficient to characterize the conditions of the spatially diverse of the ocean. Oceans control the Earth's weather as they heat and cool, humidify and dry the air and control wind speed and direction.

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It is not surprising that the oceans represent over 99% of the living space on Earth. Responsibility: edited by Arthur P.

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