→ OCEAN APPLICATIONS

The oceans cover more than 70% of the Earth's surface. These vast areas have a great influence on weather and climate regionally and worldwide, for this reason ocean monitoring is very important for our planet and for human well-being.

Nowadays, satellites measure a variety of ocean parameters at global, regional and local scales. These measurements support a wide range of applications such as climate change monitoring, weather forecasting, wind and waves monitoring, algae blooms, fishery, ship routing, search & rescue, oil spill detection, and water quality assessment.



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Sea Surface Temperature

Find out more at: www.esa.int/eduspace



OCEAN COLOR

Optical instruments are capable of observing the colour of the oceans, revealing the presence of algae and plankton which is a good indicator of global ocean health and helps to determine the most suitable locations for productive fisheries.

OIL SPILL

Imaging radar instruments are sensitive to surface roughness. This characteristic enables them to detect oil spills, as oil floating on the surface has the effect of smoothing the waves produced by the wind on the water.

SEA- TLEVEL

Radar altimeters measure the height of the sea surface. This information is vital to monitor sea level rise in coastal areas and to understand the global ocean circulation.