

# Observing the Oceans from Space: Continuous Satellite Altimetry Since 1992



For oceanographers, satellite altimetry is a highly effective tool enabling precise and continuous ocean level measurements which tell us about the present state of the ocean and how it evolves.

Continuous readings from altimetry satellites are used to predict tides, waves, currents and climate. Combined with ocean circulation models, they also provide a three-dimensional view of the ocean.

## DERIVED PRODUCTS

- dynamic topography
- sea surface height
- sea level anomalies
- geostrophic ocean currents
- mean sea level changes
- ocean tides
- wave heights and surface wind speed
- polar ice caps study
- ocean bottom topography and the Earth's gravity
- ...

a satellite based ocean observatory

CLIMATOLOGY

LONG TERM OBSERVATIONS

NEAR REAL TIME MONITORING

FORECASTS BULLETIN



## USES OF SATELLITE ALTIMETRY