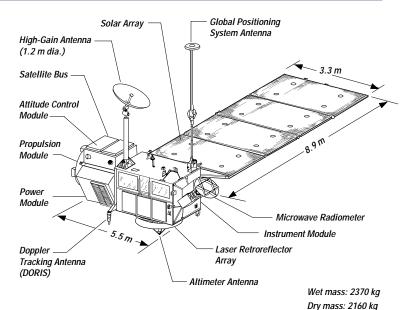
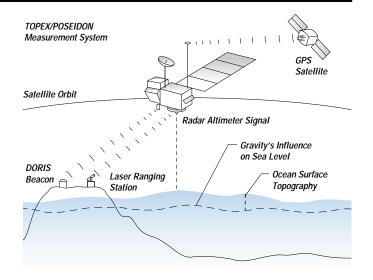
## TOPEX/POSEIDON

## Ocean Surface Topography Experiment





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					Extended Observational Phase 6 Years			



## **Objectives**

- Three-year global view of Earth's oceans
- Improved understanding of ocean currents
- Improved forecasting of global climate

## Highlights

- Joint U.S.—France (Centre National d'Études Spatiales CNES) program
- Launched August 10, 1992, on Ariane 42P launch vehicle
- Completes nine years of mission operations on August 10, 2001
- Sensors:
- Altimeters (NASA, CNES)
- Microwave radiometer (NASA)
- Global Positioning System receiver (NASA)
- Laser retroreflector array (NASA)
- Doppler tracking antenna (CNES)
- Orbits Earth at 1336-km altitude, 66-degree inclination
- 10-day repeat of ground tracks (±1-km accuracy)
- Covers 95% of the ice-free oceans every 10 days
- Unprecedented accuracy: sea-level measurements to better than 5 cm
- Has measured sea levels, mapped basinwide current variations, monitored effects of currents on global climate change; studied phenomena such as El Niño and Pacific Decadal Oscillation (PDO)



National Aeronautics and Space Administration

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WWW Site: http://sealevel.jpl.nasa.gov