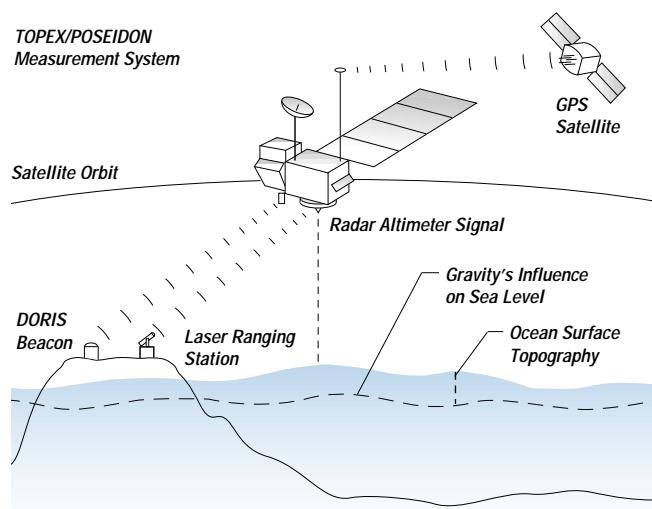
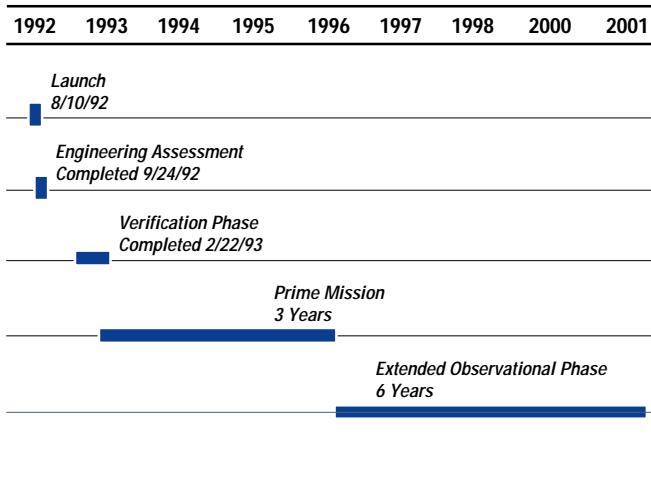
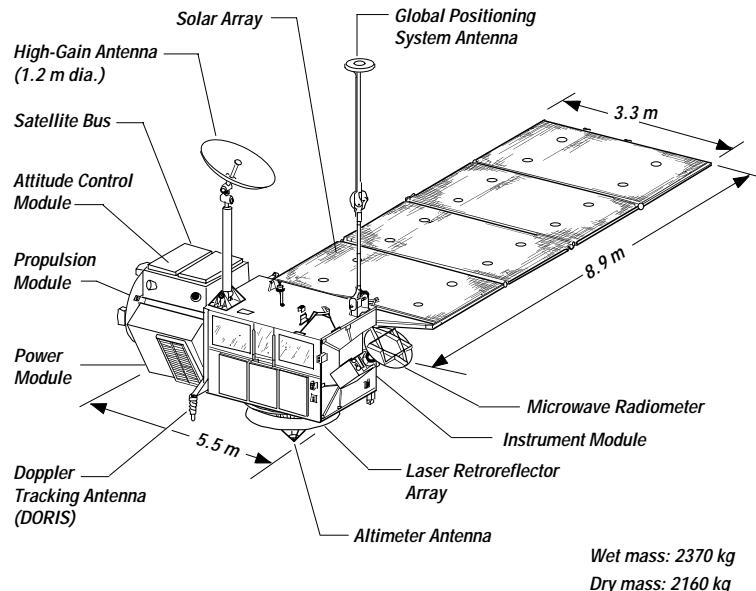


# TOPEX/POSEIDON

## Ocean Surface Topography Experiment



## 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 ( $\pm 1$ -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 basin-wide 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  
Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, California

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