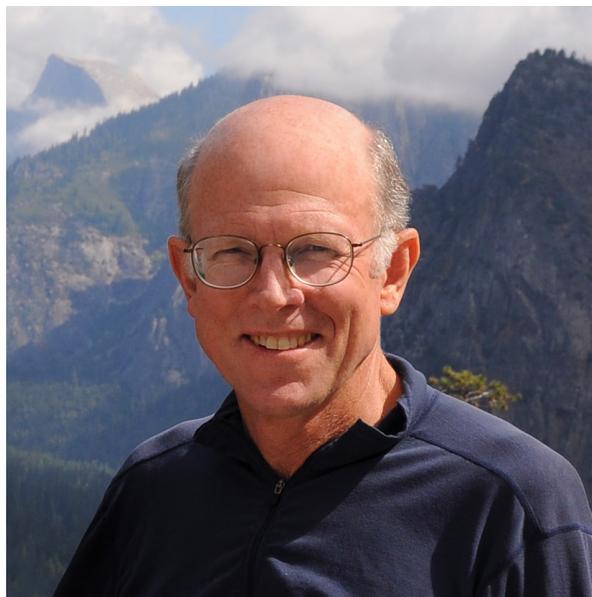


William T. Pecora Award, Henry Stommel Research Award, Cody Award, AMS Fellow, AGU Fellow



Dudley Chelton

Distinguished Professor Emeritus, Physical Oceanography

Dudley Chelton has received numerous awards for his pioneering use of satellite data to explore the role of the ocean in the Earth's climate system. His work has led to new hypotheses in ocean studies and has inspired many follow-up investigations by the ocean remote-sensing community that have increased the practice and appreciation of ocean remote-sensing.

"Throughout his career, Dudley has been known for developing statistical methods to analyze existing satellite data while preparing for the next generation of remote-sensing instruments," said Michael Freilich, director of NASA's Earth Science Division.

After receiving a PhD in oceanography from Scripps Institution of Oceanography, Chelton moved to NASA's Jet Propulsion Laboratory in Pasadena, Calif. in 1980. In 1983 Chelton joined the faculty at Oregon State University, where he established an ocean remote-sensing program that has grown to national prominence.

The comprehensive understanding of the technical and statistical aspects of ocean remote-sensing serves as the foundation of Chelton's major scientific discoveries. For more than 30 years, he has led efforts to improve satellite-derived measurements of the three primary ocean variables that can be measured by microwave remote sensing: sea surface height, surface winds, and sea surface temperature.

The honors received by Chelton for his work in satellite remote sensing include:

- NASA and the USGS: 2013 William T. Pecora Award for contributions to ocean remote-sensing science, education, and applications.
- American Meteorological Society: 2011 AMS Fellow and Henry Stommel Research Award, for fundamental contributions to advancing our understanding of ocean circulation and air-sea interaction.
- Scripps Institution of Oceanography: 2010 Cody Award in Ocean Sciences for pioneering work in the use of remote sensing to understand the ocean.
- American Geophysical Union: 2008 AGU Fellow.
- NASA: 1994 Public Service Medal for TOPEX mission support through development of the mission science algorithms.
- OSU: Distinguished Professor of Oceanic and Atmospheric Sciences at OSU since 2004.



The launch of the Ocean Surface Topography Mission on June 20, 2008 from Vandenberg Air Force Base in California. OSTM is the third in a series of highly accurate satellite altimeter missions, preceded by TOPEX/Poseidon launched in August 1992 and Jason-2 launched in December 2001.

"I am deeply honored to receive these awards and humbled by their lists of prior recipients. Much of the success of my career is attributable to the contributions of the engineers and scientists that have made satellite remote sensing a quantitative observational technique for oceanography. I am both fortunate to be the beneficiary of this team effort and pleased to see acknowledgment of the importance of satellites to advancing the understanding of physical oceanography and air-sea interaction." – Dudley Chelton