Harvey Seim, Ph.D.

Professor, Department of Earth, Marine and Environmental Sciences, College of Arts and Sciences at UNC-Chapel Hill
Chapel Hill, NC, US

Seim is an expert on physical oceanography, coastal meteorology and exploring the potential of offshore wind energy.

Seim's research focuses on understanding the processes that control the circulation and water mass structure of estuaries and the coastal ocean and the meteorology over the coastal ocean. The principal tools used in his research are observational studies. His general areas of interest include ocean observing systems, turbulence and mixing processes, internal hydraulics, estuarine subtidal and tidal dynamics, shelf dynamics, high-frequency acoustics, boundary-layer meteorology, marine spatial planning. His most recent project is "Processes controlling Exchange At Cape Hatteras (PEACH)," an NSF-funded project (April 2016-March 2020) in collaboration with Woods Hole Oceanographic Institution, North Carolina State University and Skidaway Institute of Oceanography/University of Georgia. The project will deploy moorings and gliders, operate coastal ocean mapping radars and run numerical models to study interactions between the Gulf Stream and the coastal waters off North Carolina near Cape Hatteras.

Renewable Energy, Offshore wind power, Ocean meteorology, Physical oceanography

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Member Joint Analysis Group Deepwater Horizon Oil Spill Response (2010-2013), Editor for the Journal of Geophysical Research?Oceans (2009-2012)

Observations of the Surface Circulation over the Mid Atlantic Bight Continental Shelf
Ocean Sciences Meeting

Observation and regional model based Gulf Stream marine hydrokinetic energy resource estimates for North Carolina
MTS/IEEE Oceans 2015

Impact of atmospheric stability on wind resource estimates off North Carolina
Oceans 2012

Coastal wind, energy for North Carolina?s future
Public briefing of UNC Wind Feasibility Study

University of Washington
Ph.D. Oceanography

University of South Carolina
M.S. Geology

University of South Carolina
B.S. Marine Sciences
