

Title Associate Professor

8/31/2007

Permission date

First Name Daniel

Middle Name

Last Name Cox

Institution OSU

Department Civil & Construction Engineering

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Phone

Research Fields

- Atmospheric chemistry
- Biogeochemistry
- Carbon Footprint Analysis
- Climatology
- Community & Disaster Planning
- Data Analysis & Statistical Modeling
- Ecology & Ecosystem Management
- Economics
- Energy policy & technology
- Ethics
- Fire
- Forestry & Forest Management
- Geographic Information Systems
- Horticulture
- Human Impacts - economics
- Human Impacts - health
- Human Impacts - policy
- Hydrology
- Impacts - agriculture & horticulture
- Impacts - ecosystems, populations
- Impacts - physical
- Instrumentation
- Mitigation Policy
- Modeling Climate
- Modeling Ecosystems
- Modeling Socioeconomic Processes
- Natural Resource Policy & Planning
- Outreach & Engagement
- Paleoclimatology
- Paleoecology
- Physical Ecology
- Physiological Ecology
- Urban Ecology
- Water Policy & Planning
- Other...

Modeling coastal processes

Photo



Website

Specific Research Interests

Coastal Hazards, Coastal Erosion, Impact of Waves and Surge on Coastal Infrastructure

Projects

1. “Hurricane Wave Forces on Highway Bridge Superstructures,” Oregon Transportation Research and Education Consortium, \$50,000, 2007.
2. “Large Scale Laboratory Tests of Coastal Dune Erosion,” Oregon Sea Grant, \$170,000, 2006-2008, T. Maddux (PI), P. Ruggiero, D. Cox.
3. “Collaborative Research: CROSSTEX - Wave breaking and boundary layer processes and the resulting sediment suspension in the surf zone,” National Science Foundation, \$382,228, 2004-2008, D. Cox.

Selected Recent Publications

1. Suzuki, T., Shin, S., Cox, D., Mori, N. (2007) “Temporal-spatial characteristics of a pressure gradient on a barred beach,” *Coastal Engineering Journal*, (submitted 6/07).
2. Shin, S., Cox, D. T. (2006) “Laboratory observations of inner surf and swash zone hydrodynamics on a steep slope.” *Continental Shelf Research* (accepted).
3. Suh, K.D., Shin, S., and Cox, D.T. (2006) “Hydrodynamic characteristics of pile-supported vertical wall breakwaters.” *J. Waterw., Port, Coastal, Ocean Engrg.* 2 83 – 96.
4. Scott, C.P., D.T. Cox, T.B. Maddux, and J.W. Long. (2005) “Large-scale laboratory observations of turbulence on a fixed barred beach,” *Meas. Sci. Technol.* 16 1903-1912.

Professional Activities