

# Ted Conroy

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## Research Interests

Coastal oceanography, estuarine and near-shore hydrodynamics, numerical modeling, sediment transport, observational techniques, satellite and drone imagery, etc.

## Education

M.S. Earth Science, University of Oregon, 2018

Thesis advisor: Dr. David Sutherland

B.S. Global Environmental Science, University of Hawaii at Manoa, 2015

Thesis advisor: Dr. Brian Powell

## Publications

Eidam, E.F., D.A. Sutherland, D.K. Ralston, B. Dye, **T. Conroy**, J. Schmitt, P. Ruggiero, and J. Wood, 2019: Impacts of 150 years of shoreline and bathymetric change in the Coos Estuary, Oregon, USA. *Estuaries and Coasts*, [in review](#).

**Conroy, T.**, D.A. Sutherland, and D.K. Ralston, 2019: Estuarine exchange flow variability in a seasonal, segmented estuary. *Journal of Physical Oceanography*, accepted.

## Presentations

Shifts in sediment routing and deposition associated with 150 years of estuary modification in Coos Bay, Oregon. E. Eidam, D. Sutherland, D. Ralston, B. Dye, **T. Conroy**. Talk. Ocean Sciences Meeting 2020. San Diego, California

Estuarine exchange flow variability in a seasonal, segmented estuary. **T. Conroy**, D. Sutherland, D. Ralston (presenter). Poster. GRC Coastal Ocean Dynamics conference 2019. Manchester, New Hampshire

Fine-sediment dynamics in the estuary of a small mountainous river. E. Eidam, **T. Conroy**, D. Sutherland, D. Ralston. Poster. AGU Fall meeting 2018. Washington D.C.

Past, present, and potential future hydrodynamics and sediment transport in the Coos Estuary. **T. Conroy**, E. Eidam, D. Sutherland, K. Bartlett, D. Ralston, B. Dye. Poster. State of the Oregon Coast 2018. Coos Bay, Oregon

The Influence of Smaller Connecting Channels on Estuarine Exchange Flow. **T. Conroy**, D. Sutherland, D. Ralston. Poster. Ocean Sciences Meeting 2018. Portland, Oregon

Natural and human-induced interaction between two small, seasonal PNW estuaries. D. Sutherland, **T. Conroy**, M. Jarrin, D. Ralston. Poster. Coastal and Estuarine Research Federation Conference 2017. Providence, Rhode Island

Seasonal Exchange Flow Variability in a Pacific Northwest Estuary. **T. Conroy**, D. Sutherland. Poster. Eastern Pacific Ocean Conference 2017. Lake Tahoe, California

The effects of anthropogenic perturbations and climactic change on a tropical coastal system: A comparative study. C. Tognacchini, M. McManus, K. Ruttenberg, **T. Conroy**, J. Horley-Feitosa. Poster. ASLO Meeting 2017, Honolulu, Hawaii

The influence of mangrove removal on sediment characteristics at the He'eia Fishpond. **T. Conroy**, K. Ruttenberg, J. Horley-Feitosa. Talk. He'eia Fishpond Science Night. Kaneohe, Hawaii

## **Experience**

Hydrographic technician at Cardinal Point Captains

Graduate Employee at University of Oregon

Volunteer at USGS Pacific Marine Science Center

Lab technician at University of Hawaii at Manoa Analytical Geochemistry Lab

## **Skills**

MATLAB, Unix, Python, FORTRAN, Numerical Modeling, Data Analysis, Statistics, High Performance Computing, FVCOM Numerical Ocean Model, Oceanographic Instrument Deployment, Oceanographic Mooring Construction, Small Boat Operation, Suspended Sediment Measurements and Calibration, CTD and ADCP data processing, etc.

## **Graduate Coursework Completed**

Fluid Dynamics, Geophysical Fluid Dynamics, Nearshore Sediment Transport, Physical Oceanography, Numerical Methods, Geochemical Modeling, Environmental Data Analysis

## **Teaching Assistant Positions**

*Department of Earth Sciences, University of Oregon:* Intro to Oceanography, Geology of the Pacific Northwest, Volcanoes and Earthquakes, Intro to Geology

## **Oceanographic Fieldwork**

Multibeam/Side Scan Sonar in the Gulf of Mexico

CTD/ADCP/Suspended Sediment in the Coos Estuary, Oregon

CTD/ADCP in Leconte Bay, Alaska

CTD/Microstructure in West Oahu, Hawaii

## **Outreach and Engagement**

Eugene Ice-posium 2016, 2017 with Dave Sutherland