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Falk Feddersen: Observational Seminar Spring 2014 (SIO 219)

Observational Seminar Spring 2014

SIO 219 Section 801969, 1 unit S/U
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Meetings Friday 12:00pm, Center for Coastal Studies Basement Conference Room

Description The broad theme of the observational seminar this quarter will be Coastal Processes of all types from Continental Shelves, to Coral Reefs, and Beaches. Each week the first half of class will consist of student-led presentations of a key papers in the field, followed by a hopefully broad and energetic discussion by all present. Though students are encouraged to formally register for the class, collegial participation by interested post-docs and PIs is highly welcome.

Course Requirements Students should register as S/U. Students will be expected to present at least one paper during the quarter and participate in the discussion each week.

Presenters and Papers will be posted here

- April 4: Greg Sinnett : Fewings and Lentz (2011), Summertime cooling of the shallow continental shelf, JGR, [abstract link](#), [pdf](#).
- April 11: Kai Hally-Rosendahl: Weir et al., (2011) A vortex force analysis of the interaction of rip currents and surface gravity waves, JGR [link](#), [pdf](#).
- April 18: Julia Fiedler:
- April 25:
- May 2: Bonnie Ludka:
- May 9: Marion Albery
- May 16:
- May 23:
- May 30:
- June 6th:

Potential Papers Include (feel free to provide suggestions)

- Hench et al., (2008), Episodic circulation and exchange in a wave-driven coral reef and lagoon system, *Limnology and Oceanography* 53(6). 2008 [link](#)
- Shroyer, Moum and Nash (2011) Nonlinear internal waves over New Jersey's continental shelf JGR, [link](#)
- Stockdon and Holman, (2006) Empirical parameterization of setup, swash, and runup, Coastal Engineering. [link](#)
- D'Asaro et al, (2014), Quantifying upper ocean turbulence driven by surface waves, Geophysical Research Letters, [link](#)
- Lentz et al. (2008), Observations and a Model of Undertow over the Inner Continental Shelf, JPO [link](#)
- Fewings and Lentz (2011), Summertime cooling of the shallow continental shelf, JGR, [link](#).
- Walter et al., (2012), Nearshore internal bores and turbulent mixing in southern Monterey Bay, JGR, [link](#)
- Smith J.A. and Largier J.L., (1995) Observations of nearshore circulation: Rip currents, JGR [link](#)
- Nam S. and Send U., (2011), Direct evidence of deep water intrusions onto the continental shelf via surging internal tides, JGR. [link](#)
- Moffat C. and Lentz, S. (2012), On the Response of a Buoyant Plume to Downwelling-Favorable Wind Stress, JPO [link](#)
- Lippmann, T.C. and R.A. Holman (1990), The spatial and temporal variability of sand bar morphology, JGR [link](#).
- Nash J.D. and J.N. Moum, (2005) River plumes as a source of large-amplitude internal waves in the coastal ocean, Nature [link](#)
- Lentz, S.J., (2001), The Influence of Stratification on the Wind-Driven Cross-Shelf Circulation over the North Carolina Shelf, JPO [link](#)
- Todd, Rudnick, & Davis (2009) Monitoring the greater San Pedro Bay region using autonomous underwater gliders during fall of 2006, JGR [link](#)
- Romero et al., (2013), Simulations of Nearshore Particle-Pair Dispersion in Southern California, JPO [link](#)
- Garcez-Faria et al. (2000), Undertow over a barred beach, JGR [link](#)
- Weir et al., (2011) A vortex force analysis of the interaction of rip currents and surface gravity waves, JGR [link](#).
- Paper, Plant, Ruessink (2010), On cross-shore migration and equilibrium states of nearshore sandbars, JGR Earth Surface [link](#)
- Slott, Murray, and Ashton, (2010), Large-scale responses of complex-shaped coastlines to local shoreline stabilization and climate change, JGR Earth Surface [link](#)
- Castelle and Ruessink (2011), Modeling formation and subsequent nonlinear evolution of rip channels: Time-varying versus time-invariant wave forcing, JGR Earth Surface, [link](#).

If you have any questions or comments, please contact me at falk@coast.ucsd.edu.

