



Eastern Pacific Ocean Conference at Timberline Lodge

EPOC 2006: Agenda

Wednesday September 27

- 16:00–18:00 Registration and Check-in, Main Lobby
19:00–23:00 Informal Social Gathering, Ram's Head Bar

Thursday September 28

- 07:30–08:15 Breakfast, Cascade Dining Room
08:20 EPOC 2006 Opens, Mt. Hood Room
08:20–08:30 Opening Remarks, **Jan Newton** and **Kipp Shearman**
08:30–12:00 **Multidisciplinary Modeling**
Chairs: Chris Sherwood and Yvette Spitz, Mt. Hood Room
- 08:30 **Sherwood, Chris**, Benedicte Ferre, Robert P. Eganhouse and Patricia L. Wiberg, Evolution of the contaminated sediment deposit on the Palos Verdes (CA) shelf: physical, chemical and biological processes.
- 08:50 **Noble, Marlene**, Kurt Rosenberger, Richard Signell, Carmen White and Joe Meistrell, Rapid variations in the temporal and spatial structures of barotropic and baroclinic currents associated with tidal processes on the Los Angeles shelves.
- 09:10 **Murray, Chris**, Yi-Ju Chien, Patricia L. Wiberg, Christopher R. Sherwood, Robert A. Wheatcroft, Geostatistical mapping of sediment erodibility on the Palos Verdes (CA) shelf using multiple data sets.
- 09:30 **Ferré, Bénédicte**, Christopher R. Sherwood, Patricia Wiberg and Christopher J. Murray, Estimates of sediment transport rates on the Palos Verdes (CA) Shelf.
- 09:50 Coffee Break
- 10:10 **Pringle, James M.**, Upwelling is not a local phenomena: Examples from Pt Reyes & the WEST and CODE regions.
- 10:30 **Hermann, Albert J.**, Relative merits of Eulerian vs. individual-based models of fish dynamics in patchy habitats.
- 10:50 **Wang, Xiaochun**, Yi Chao, John Farrara, Zhijin Li, James. C. McWilliams, Jeffrey D. Paduan and Leslie K. Rosenfeld, Modeling tides in Monterey Bay, California.

- 11:10 **Petersen, Christine H.**, Chris Edwards and Steve Ralston, Exploration of influences of shoreline topography and season on nearsurface transport with a 3-d model in central California.
- 11:30 **Allen, Susan**, Kate Collins, and Rich Pawlowicz, Physical controls on the timing of the spring bloom in the Strait of Georgia.
- 11:50 Discussion
- 12:00–15:00 Lunch and Free Time
- 15:00–18:00 **The Eastern Pacific Ocean, Ecosystems and Dynamics**
Chairs: Melanie Fewings and Stephanie Henson, Mt. Hood Room
- 15:00 **Thomas, Andrew**, P. Ted Strub and Peter Brickley, Comparisons of interannual variability in chlorophyll between four Eastern Boundary Current regions.
- 15:20 **Henson, Stephanie** and Andy Thomas, Phytoplankton scales of variability in the California Current System: A wavelet analysis.
- 15:40 **Peterson, Bill** and Robert I. Emmett, An investigation into time lags between recent high-frequency changes in the PDO and response of various components of the ecosystem in the northern California Current.
- 16:00 **Kunze, Eric**, Dower, John F., Ian Beveridge, and Richard Dewey, Observations of biologically-generated turbulence in Saanich Inlet.
- 16:20 Coffee/Soda Break
- 16:40 Bane, John M. and **Jack Barth**, Intraseasonal wind oscillations and their influence on northern California Current coastal ecosystems.
- 17:00 **Levine, Murray**, Timothy J. Boyd and P. Michael Kosro, Momentum balance off the Oregon coast.
- 17:20 **Fewings, Melanie**, Steven J. Lentz and Janet Fredericks, Observations of cross-shore flow driven by cross-shore winds on the inner continental shelf.
- 17:40 **Kirincich, Anthony R.** and John A. Barth, Spatial and temporal variability of inner-shelf circulation along the central Oregon coast during summer.
- 18:00–19:00 Business Meeting, Mt. Hood Room
- 19:00–22:00 **Poster Reception with Hors D'oeuvres**
Sponsored by The Alliance for Coastal Technologies, Raven's Nest
- Ainley, David**, Steve Pierce, Katie Dugger, and Glenn Ford, Variability in ocean climate and prey availability affecting seabird occurrence off Oregon, 2000-2002.
- Choi, Byoung-Ju**, Scott R. Springer, John S. Allen, Gary D. Egbert, Alexander L. Kurapov, and Robert N. Miller, Evaluation of a regional model and nesting of a coastal model along the Oregon Coast.
- Combes, Vincent** and Emanuele Di Lorenzo, The role of surface winds in the seasonal and interannual variability of large-scale eddies in the Gulf of Alaska.

deRada, Sergio, John C. Kindle, Stephanie Anderson, Igor Shulman, Brad Penta and Jim Doyle, High resolution ocean modeling for the Northeastern Pacific: Implementation and initial evaluation.

Donovan, Chelsea, Solid-state submersible active fluorometer used to monitor photosynthetic parameters and algal biomass.

Feinberg, Leah, C. Tracy Shaw, William T. Peterson and Jesse F. Lamb, Temporal and spatial variability in brood size in relation to euphausiid egg distributions off northern Oregon and southern Washington.

Johnston, Shaun and Dan Rudnick, Microstructure measurements from SeaSoar during AESOP.

Karnauskas, Kris and Antonio J. Busalacchi, Interannual variability of SST and chlorophyll in the eastern Pacific warm pool: High-resolution satellite observations.

Masson, Diane and Angelica Pena, Spatial and temporal chlorophyll distribution in the Straits of Georgia and Juan de Fuca.

Penta, Brad, ZhongPing Lee, Sergio deRada, Stephanie Anderson, Igor Shulman and John Kindle, Coupling satellite derived ocean color and a coastal marine ecosystem model of the California Current System.

Pierce, Stephen, P. M. Kosro, C. D. Wilson, B. Hickey, G. W. Fleischer, P. H. Ressler and J. A. Barth, Observations of the poleward undercurrent in the California Current System, 1995–2005.

Saraceno, Martin and P. Ted Strub, Mesoscale events off the coast of Oregon (US): a satellite point of view.

Smith, Jason, Kendra Hayashi, Traci Conlin and Kenneth Coale, The Alliance for Coastal Technologies (ACT) – A national partnership supporting coastal monitoring efforts.

Springer, Scott, Byoung-Ju Choi, John S. Allen, Gary D. Egbert, Alexander L. Kurapov and Robert N. Miller, A nested circulation model of the Oregon Coastal Transition Zone.

Tynan, Cynthia, TBD.

Friday September 29

07:15–08:05 Breakfast, Cascade Dining Room

08:10–12:10 **New Instrumentation and Technology and Applications**
Chairs: Dan Rudnick and Jason Smith, Mt. Hood Room

08:10 **Strutton, Pete**, Bio-optical observations of carbon cycling in the equatorial Pacific.

08:30 **Kaplan, David M.**, Improved interpolation and extrapolation of HF radar data based on modal current decomposition.

08:50 **Shearman, R. Kipp**, John A. Barth, Anatoli Erofeev and Tristan Peery, Autonomous glider observations from the Newport hydroline, the new vagaries of fortune.

- 09:10 **Ramp, Steve**, Joe Rice, Fred Bahr and Chris Fletcher, A Seaweb implementation for the Adaptive Sampling and Prediction (ASAP) program
- 09:30 **Hodges, Benjamin A.**, Daniel L. Rudnick and Russ E. Davis, Glider measurements along a CalCOFI line: hydrography and chlorophyll.
- 09:50 **Greenfield, Dianne I.**, C.A. Scholin, S. Jensen, R. Marin III, B. Roman, E. Massion, C. Preston, J. Jones and G. Doucette, Field applications of the Environmental Sample Processor for remote detection of harmful algae: 2006.
- 10:10 Coffee/Soda Break
- 10:30 **Teague, Calvin C.**, Donald E. Barrick and Peter M. Lilleboe, River surface velocity measurement using a UHF RiverSonde.
- 10:50 **Johnson, Kenneth S.**, Joe Needoba, Luke Coletti, Steve Fitzwater, Carole Sakamoto and Hans Jannasch, Applications of the ISUS optical nitrate sensor in the coastal ocean.
- 11:10 **Rudnick, Daniel** and Jochen Klinke, The underway CTD.
- 11:30 **Needoba, Joseph**, Gage Dayton and Ken Johnson, In situ chemical instruments address the problem of sample aliasing in estuaries.
- 11:50 **Hardy, Kevin**, The research enterprise: Infrastructure to accelerate innovation, foster interdisciplinary cooperation, and enable rapid response to emerging opportunities.
- 12:10–15:00 Lunch Break and Free Time
- 15:00–18:20 **River and Freshwater Influences**
Chairs: Ed Dever and Neil Banas, Mt. Hood Room
- 15:00 **Peterson, Tawnya**, R. M. Kudela and A. E. Roberts, Influence of the Columbia River on algal biomass and primary productivity along the Washington and Oregon shelves.
- 15:20 **Peterson, Jay O.** and William T. Peterson, Influence of the Columbia River plume on regional zooplankton abundance and distribution.
- 15:40 **Dever, Ed**, Observed Nitrate Variability off the Columbia River: June-August 2004.
- 16:00 Levi Kilcher, **Jonathan Nash** and Jim Moum, Effect of discharge rate on the structure and mixing of Columbia River plume.
- 16:20 **Banas, Neil** and P. MacCready, The Columbia River plume as mixer, barrier, and conduit.
- 16:40 Coffee/Soda Break
- 17:00 **Dugdale, Richard**, F. Wilkerson, A. Marchi, V. Hogue and A. Parker, Nutrient and new production effects of the San Francisco Bay coastal plume.
- 17:20 **Nezlin, Nikolay P.** and Paul M. DiGiacomo, Ocean-color satellite observations of stormwater plumes in Southern California.
- 17:40 **Halverson, Mark** and Rich Pawlowicz, The Fraser River plume's impact on the magnitude and spatial distribution of phytoplankton biomass.

- 18:00 **O'Higgins, Tim**, Shifting nutrient pressures and eutrophication effects in Dublin Bay (Ireland).
- 19:00–20:30 EPOC Banquet, Raven's Nest
- 20:30–21:30 Fireside Chat, Barlow Room
Si Simenstad, University of Washington, Revisiting the Columbia of Lewis & Clark: Welcome to the Machine

Saturday September 30

- 07:30–08:15 Breakfast, Cascade Dining Room
- 08:20–12:00 **Integrated regional oceanography from in-situ and remote observations, and models**
 Session Chairs: Curtiss Davis and Antonio Baptista, Mt. Hood Room
- 08:20 **Chelton, Dudley**, Tracy Haack, Julie Pullen and Renator Castelao, SST influence on surface wind stress from Observations and the COAMPS model.
- 08:40 **Cummins, Patrick** and Howard Freeland, Co-variability of the Alaska and California current systems.
- 09:00 **Strub, P. Ted**, Corinne James, Roberto Venegas, Satellite estimates of transport and SST anomalies during the 2005 "Warm Event" in the Northern California Current.
- 09:20 **Veneziani, Milena**, Christopher A. Edwards and Andrew M. Moore, Adjoint sensitivity analyses in the Central California coastal region.
- 09:40 **Kim, Hey-Jin** and Arthur Miller, Decadal variability of stratification and nutrient supply in the California Current System with CalCOFI and ROMS.
- 10:00 Yi Chao, Zhijin Li, **John Farrara** and Peggy Li, A reanalysis of the regional ocean circulation for central California.
- 10:20 Coffee Break
- 10:40 **Kindle, John**, Sergio DeRada, Igor Shulman, Robert Arnone, Bradley Penta, Stephanie Cayula and Jim Doyle, A multi-nested, near real time, coupled bio-physical model for the US west coast.
- 11:00 **Newton, Jan**, Al Devol, Mark Warner, Matthew Alford, Mitsuhiro Kawase, Matt Wiley, Jeff Richey, Mike Brett, and Dan Hannafious, Assessing drivers of hypoxia in Hood Canal via observations and modeling.
- 11:20 **Davis, Curtiss O.** and W. Paul Bissett, GOES-R coastal waters imaging as a component of an integrated coastal observing system.
- 11:40 **Baptista, Antonio**, TBD.
- 12:00 Discussion of future directions for Integrated Systems.
- 12:30 EPOC 2006 closes