

EPOC 2017 Program

Stanford Sierra Center

EPOC President: Eric Bjorkstedt
EPOC Treasurer: Noel Pelland
EPOC 2017 Co-chairs: Thomas Connolly and Andrew Leising

*Note: * indicates student presenter*

Day 1. Sunday, Sept. 17th

- 3:00 pm Check in begins at Stanford Sierra Conference Center
-coffee available in the Stanford Room
-boating available until 5pm, weather permitting
- 6:30-8:00 pm *Dinner in the Dining room*
- 8:00-9:00 pm Fireside chat in the Cathedral Room
Mary Silver, Professor Emerita, UC Santa Cruz
- 9:00-11:00 pm Bonfire reception in front of the Old Lodge

Day 2. Monday, Sept. 18th

- 7:00-8:20am *Breakfast Dining Room*
- 8:30am-12:10pm Meeting Cathedral Room

Session I: Advances and applications of ocean modeling in the eastern Pacific *Co-chairs: Christopher Edwards, Sam Siedlecki, Parker MacCready*

- 8:30 Susan Allen Deep-water Renewal in the Strait of Georgia as an Effective Evaluation for SalishSeaCast
- 8:50 Faycal Kessouri Role of submesoscale processes on the biogeochemistry of the California Current Ecosystem
- 9:10 Mercedes Pozo Buil* Exploring the Deterministic Dynamics of the Subsurface Anomalies in the North Pacific Using an Ensemble Modeling Approach: An Update
- 9:30 Elizabeth Drenkard Model resolution necessary to study the impact of climate change on fisheries in the California Current System
- 9:50 Al Herman Bias correction for seasonal dynamical downscaling of the Pacific Northwest
- 10:10-10:30 *Coffee Break Fountain Deck*
- 10:30 Alexander Kurapov The NOAA West Coast Ocean Forecast System: new analyses and data assimilation tests

10:50	Jann Paul Mattern	Joint assimilation of physical and chlorophyll observations into a model of the California Current System
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Session II: General Session

11:10	Colleen Durkin	Phytoplankton transport to the abyssal seafloor in the California Current observed over 30 years
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11:30	Jessica Miller	Seasonal and interannual variation in growth and condition of larval and juvenile northern anchovy (<i>Engraulis mordax</i>) in relation to the biochemical and species composition of lower trophic levels
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11:50	Nikolay Nezlin	Spatial and Temporal Patterns of Chlorophyll Concentration in the Southern California Bight
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12:10-1:30pm	Lunch	Dining Room
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1-4pm	Boating	Boat Dock
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1:30-3:30pm	Guided Hike	Fountain Deck
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4-6:00pm	Meeting	Cathedral Room
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Session III: The “Blob-to-El Niño” transition: what happened in the CCS?

Co-chairs: Andrew Leising, Art Miller

4:00	Introduction	Leising (chair)
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4:05	Leticia Cavole*	Biological Impacts of the 2013–2015 Warm-Water Anomaly in the Northeast Pacific: Winners, Losers, and the Future
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4:23	Katherine Zaba*	Glider Observations and a Numerical Simulation of the 2014 – 2016 Warm Anomalies in the Southern California Current System
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4:41	Melanie Fewings	A quasi-dipole structure in the wind forcing over the California Current System helps interpret coastal water temperature anomalies during the marine heat waves of 2014–2016
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4:59	Clarissa Anderson	The complex seascape of harmful algal blooms in California before, during, and after the ‘Blob’-to-El Niño transition
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5:17	Brian Beckman	Growth and survival of coho salmon in the Northern California Current: the blob and beyond
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5:37	Poster introductions	1 min each presenter (listed at end of program)
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6-7pm	Dinner	Dining Room
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8-10pm	Poster Session	Angora Room
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8-10pm	Social Hour	Angora Room
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Day 3. Tuesday, Sept. 19th

7-8am	Yoga	Angora Room
7:00-8:20am	Breakfast	Dining Room
8:30am-12:10pm	Meeting	Cathedral Room

Session IV: Processes of the continental slope and shelf break
Co-chairs: Tom Connolly, Susan Allen, Matthew Alford

8:30	Richard Dugdale	Patterns of nutrient variability in the California Undercurrent
8:50	Kate Hewett*	Shelf hypoxia in the Gulf of Farallones and Cordell Bank
9:10	Karina Ramos-Musalem*	The combined effect of submarine canyon dynamics and geometry of tracer concentration profiles on the cross-shelf exchange of tracers
9:30	Madeleine Hamann*	Multiscale mixing dynamics in a transcritical, shelf-incising west coast canyon
9:50	Marcus Sobarzo	On subsurface cooling associated with the Biobio River Canyon (Chile)
10:10-10:30am	Coffee Break	Fountain Deck

Session V: River and tidal plumes in Eastern Boundary Current Systems: Dynamics, variability, and biogeochemical impacts in the coastal ocean
Co-chairs: Emily Lemagie, Gonzalo Saldías, John Largier

10:30	John Largier	Transport Processes and Patterns for Small-Scale Land Runoff: Defining a "Zone of Impact"
10:50	Elise Olson	Impact of riverine turbidity on modelled primary productivity within a west coast river plume and its associated region of freshwater influence
11:10	Italo Masotti	River discharges and their influence on phytoplankton biomass in coastal areas off central Chile (32°-37°S) during a drought period (2010-2014)
11:30	Gonzalo Saldías*	Interannual variability and climate modulation of freshwater turbid river plumes along the Oregon coast
11:50	Jeff Scooler*	Intermittent Breaching of the Carmel River, CA
12:10-1:30pm	Lunch	Dining Room
1-4pm	Boating	Boat Dock
1:30-3:30pm	Guided Hike	Fountain Deck

4-5:40pm Meeting Cathedral Room

Session VI: Multiple scales in nearshore physical and biological processes

Co-chairs: Jesús Pineda, Nathalie Reyns, Nirnimesh Kumar

4:00 Nathalie Reyns Changes in nearshore hydrodynamic conditions, larval concentration, and the importance of vertical scales

4:20 Jesús Pineda Temporal scales of variability in nearshore larval transport

4:40 Steven Morgan Surf zones regulate subsidies of planktonic food and larvae to nearshore communities

5:00 Geno Pawlak Temporal variability in thermally-driven cross-shore exchange: the role of M2 tide

5:20 Fabian Tapia Spatial heterogeneity in dominant scales of near-bottom oxygen variability in the inner shelf of central Chile

6:40-8pm *Dinner Dining Room*

8-10pm Poster Session Angora Room

8-11pm Band Dining Room / Deck

Day 4. Wednesday, Sept. 20th

6am *Coffee* *Stanford Room*

7-8:30am *Breakfast* *Dining Room*

8:50-10:10am Meeting Cathedral Room

Session VII: Multiple scales in nearshore physical and biological processes (continued)

8:50 Robert Cowen Fine-scale physics and biology in the northern California Current

9:10 Kristen Davis Quantifying small-scale environmental gradients in coastal ecosystems

9:30 Jerome Smith Variations in Langmuir circulation in response to spatially and temporally inhomogeneous forcing

9:50 Brett McKim* Relationship between biological variables and surface water origins in Monterey Bay, CA based on water-trajectory analysis

10:10-10:30am *Coffee Break* *Fountain Deck*

10:30 am Check Out Office

11:00am-12pm EPOC Business meeting Angora Room

12-1pm *Lunch* *Dining Room*

Meeting Adjourned

Poster presentations
Monday, September 18th, 8-10pm

Drew Burrier*	Internal Wave Dynamics in Barkley Submarine Canyon
Curtis Collins	Flow through the Northern Gap in the Santa Rosa to Cortez Bank Ridge
Thomas Connolly	Physical and biogeochemical variability at the head of Monterey submarine canyon
Ted Conroy*	Seasonal exchange flow in a Pacific Northwest estuary
Patrick Daniel*	Examining the contribution of wave-induced transport to nearshore chlorophyll-a variability in Northern California.
Mariana Dorantes Gilardi*	A numeric modeling study of biogeochemical variables off Baja California during climatic anomalies
Christopher Edwards	Biogeochemical signatures of the recent warm blob and El Niño as obtained using a data assimilative reanalysis of the California Current System
Carlos Lara	Effects of coastal biophysical processes on the spatial structure of intertidal communities along the Southeastern Pacific coast
Emily Lemagie*	Downwelling wind impacts on a buoyant coastal current from an idealized small discharge river
Maria Jose Marin Jarrin*	Shelf-estuary coupling: a case study of the Coos Bay estuary in southern Oregon
Danielle Naiman*	Simulating Ocean Acidification in the Bering Sea
Noel Pelland	“Seals travel with a fair wind”: The influence of marine winds on the migration of newly-weaned northern fur seal pups
Roxanne Robertson	Euphausiid size distribution off northern California in response to the marine heatwave of 2014-2016
Aldo Rodríguez Hernández*	Satellite-imagery spatio-temporal patterns associated with a <i>Gymnodinium catenatum</i> harmful bloom in the northern Gulf of California in early year 2015
Gonzalo Saldías*	Satellite-measured interannual variability of turbid river plumes off central-southern Chile: Spatial patterns and the influence of climate variability
Fabian Tapia	Seasonal and synoptic-scale dynamics of a Patagonian river plume - variability in ocean-river balance