CalCOFI Conference 2006

Heather

Asilomar Conference Grounds

Pacific Grove, CA

Monday, 4 December

1:00 – 1:15 **Opening of the Conference**

Welcome: Laura Rogers-Bennett, CalCOFI Coordinator

1:15 – 2:15 **Session I: Status of the California Current**

"The State of the California Current, 2005-2006: still warm in the north, and cool in the south?"

2:15 – 2:45 **Break**

2:45 – 4:45 **Session II: Status of the Fisheries**

Current Status of California's Marine Resources and Fisheries presented by biologists from the California Department of Fish and Game (CDFG). Each report will be 10 minutes plus 2 minutes for discussion.

Coastal pelagic finfish and squid
Leanne Laughlin, CDFG Los Alamitos

Highly migratory species
Alex Vejar, CDFG La Jolla

Ocean salmon
George Neillands, CDFG Santa Rosa

Pacific herring
Sara Azat, CDFG Belmont

Nearshore live-fish
Bob Leos, CDFG Monterey

Dungeness crab
Ed Roberts, CDFG Eureka

Sea Urchin
Pete Kalvass, CDFG Fort Bragg

Kellet's Whelk
Kristine Barsky, CDFG Ventura

4:45 – 5:00 **Break**

5:00 – 6:00 **Session III: California Current Workshop**

Moderator, Elizabeth Venrick, Scripps

6:30 – 8:00 **Banquet**

Tuesday, 5 December

8:15 – 8:30	**Opening of Symposium**
	Laura Rogers Bennett
8:30 – 10:00	**Session IV: Symposium of the Conference**
10:00 – 10:30	**Break**
10:30 – 12:00	**Session V: Symposium**
12:00 – 1:30	**Lunch**
1:30 – 3:00	**Session VI: Symposium**
3:00 – 3:30	**Break**
3:30 – 5:30	**Session VII: Poster Session and Beer & Wine Reception**
	Heather – north east of the Chapel
6:00 – 7:00	**Dinner**

Wednesday, 6 December

8:30 – 10:00	**Session VIII: Contributed Papers**
	Chair: Dr. Roger Hewitt
10:00 – 10:30	**Break**
10:30 – 12:00	**Session IX: Contributed Papers**
	Chair: Dr. John Field
12:00 – 1:30	**Lunch**
1:30 – 2:30	**Session X: Contributed Papers**
	Chair: Pat Coulston
2:30 – 3:00	**Break**
3:00 – 4:00	**Session XI: Contributed Papers**
	Chair: Dr. Laura Rogers-Bennett
4:00	**Closing of Conference**

The Symposium of the Conference
Ecological Interactions Useful for Marine Ecosystem Based Management: The Roles of Positive Species Interactions, Ecosystem Engineers and Species Diversity

8:30 – 10:00 Session IV: Symposium (40 minutes plus 5 minutes for discussion)
Introduction – Laura Rogers Bennett, California Department of Fish and Game, Bodega Marine Laboratory, Bodega Bay, CA

S-1. Marine ecosystem-based management: theory and practice. Fiorenza Micheli and Rebecca Martone, Stanford University, Hopkins Marine Station, Pacific Grove, CA; Carrie Kappel, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA; and Andrew Rosenberg, University of New Hampshire, Department of Natural Resources, Durham, NH.

S-2. Biodiversity and spatial management: Simple models of interacting species. Marissa L. Baskett, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.

10:00 Break

10:30 Session V: Symposium (continued) **(40 minutes plus 5 minutes for discussion)**

S-3. Do Jellyfish Have the Potential to Negatively Affect Pelagic Fishes in Upwelling Regions? R.D. Brodeur and T.C. Wainwright, NOAA Northwest Fisheries Science Center, Newport, OR; C.L. Suchman, NOAA Northwest Fisheries Science Center, Newport, OR and Virginia Sea Grant, University of Virginia, Charlottesville VA; D.R. Reese, NOAA Northwest Fisheries Science Center, Corvallis, OR; T.W. Miller, Center for Marine Environmental Studies (CMES), Ehime University, Matsuyama, Ehime, Japan; and J.J. Ruzicka and E.A. Daly, Cooperative Institute for Marine Resources Studies, Oregon State University, Newport, OR.

S-4. The Relationship Between Predatory Fish, Forage Fishes, and Juvenile Salmonid Marine Survival off the Columbia River: A Trophic Model Analysis. Robert Emmett, NOAA Fisheries, Newport, OR; and David Sampson, Oregon State University, Hatfield Marine Science Center Newport, OR.

12:00 Lunch

1:30 **Session VI: Symposium** (continued) **(40 minutes plus 5 minutes for discussion)**

S-5. Potential fisheries benefits of diverse, functioning marine ecosystems. Matthew E. S. Bracken, University of California, Davis, Bodega Marine Laboratory, Bodega Bay, CA; Laura Rogers-Bennett, California Department of Fish and Game and University of California, Davis, Bodega Marine Laboratory, Bodega Bay, CA; Barry E. Bracken, Kaleidoscope Cruises, Petersburg, Alaska.

S-6. The Ecosystem Function of Marine Biodiversity. Steve Palumbi, Stanford University, Palo Alto, CA.

3:00 **Session VII: Poster Session with Wine and Hors d'Oeuvres**

Tuesday Afternoon

Poster Session

Heather and Acacia

P-1. An Introduction to CalCOFI Surface Underway Data. Robert L Thombley and Ralf Goericke, Scripps Institution of Oceanography, La Jolla, CA.

P-2. Hydrographic Structure between Palos Verdes, CA and Hoke Seamount in October 2004 and October 2006. Curtis A. Collins, Tetyana Margolina, and Affonso Mascarenhas, Department of Oceanography, Naval Postgraduate School.

P-3. Reproductive success, prey preference, and prey availability of California Brown Pelicans breeding in the northern portion of the Southern California Bight, 1986-2005. A. Laurie Harvey, San Diego State University and California Institute of Environmental Studies, Davis, CA; Douglas Deutschman, San Diego State University; and Franklin Gress, California Institute of Environmental Studies. Davis, CA.

P-4. The Role of Squid in Pelagic Marine Ecosystems. E.M.C. Hatfield, FRS Marine Laboratory, Aberdeen, Scotland; and F.G. Hochberg, Santa Barbara Museum of Natural History.

P-5. Fish larvae assemblages in the oceanic region off Baja California: Years 1998, 1999 and 2000. S. P. A. Jiménez-Rosenberg, G. Aceves–Medina Cicimar-Ipn, Coffa, Edi, Sni, Av. IPN s/n, La Paz, BCS, México.

P-6. Fish larvae composition in the oceanic region off Baja California: Years 1998, 1999 and 2000. S. P. A. Jiménez-Rosenberg, G. Aceves–Medina, R. Saldierna-Martínez Cicimar-Ipn, Coffa, Edi, Sni, Av. IPN s/n, La Paz, BCS, México.

P-7. Ecological considerations for northern anchovy (*Engraulis mordax*) abundance and distribution in the northeastern Pacific. Marisa Litz, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR and Robert Emmett, Northwest Fisheries Science Center, NOAA, Newport, OR.

P-8. Species Distributions from the California Benthic Trawl Fishery Relative to Rockfish Conservation Areas. Janet Mason and Claudia Makeyev, NMFS Southwest Fisheries Science Center, Pacific Grove, CA and Cindy Thomson, NMFS Southwest Fisheries Science Center, Santa Cruz, CA.

P-9. Comparison of mixed layer primary production determined from oxygen isotopes with CalCOFI 14C primary production. D. Munro and P. Quay, University of Washington, School of Oceanography, Seattle, WA.

P-10. Distribution patterns of two zooplankton groups (fish larvae and holoplanktonic mollusc) of the Gulf of California. Winter 2005. Orso J. Angulo-Campillo, Gerardo Aceves-Medina, Homero Urias Leyva, Raymundo Avendaño Ibarra, CICIMAR-IPN, Departamento de Plancton y Ecología Marina, La Paz.

P-11. Investigation of depth choice on seasonal larval transport using a central California regional ocean model. Christine H. Petersen, SW Fisheries Science Center – NOAA Fisheries, Santa Cruz, CA and Ocean Sciences Department, University of California, Santa Cruz, CA; Christopher A. Edwards, Ocean Sciences Department, University of California, Santa Cruz, CA; and Steve Ralston, SW Fisheries Science Center – NOAA Fisheries, Santa Cruz, CA.

P-12. An Update of Primary Productivity, Chlorophyll and other Relationships, a Twenty Year Database Analysis. Jennifer L. Sheldon, David M. Wolgast, James R. Wilkinson, and Ralf Goericke, Scripps Institution of Oceanography, La Jolla, CA.

P-13. Spatial and Temporal Patterns of Cetacean Occurrence off Southern California. Melissa S. Soldevilla, Sean M. Wiggins, Greg Campbell, Annie B. Douglas, John Calambokidis, and John A. Hildebrand.

P-14. Growth of larval and juvenile sardine (*Sardinops* spp.) and anchovy (*Engraulis* spp.) in the eastern and western North Pacific: implication for alternate population dynamics. Motomitsu Takahashi and David M. Checkley, Jr., Integrative Oceanography Division, Scripps Institution of Oceanography, UCSD; Akihiko Yatsu, Hokkaido National Fisheries Research Institute, Fisheries Research Agency, Hokkaido, Japan; and Yoshiro Watanabe, Ocean Research Institute, University of Tokyo.

P-15. An Oceanographic Event Logger. James R. Wilkinson and Karen S. Baker, Scripps Institution of Oceanography.

P-16. CalCOFI Replicate Analysis to Verify Precision Prior to Implementation of New Equipment and Field Techniques. David M. Wolgast, Jennifer L. Sheldon, and Ralf Goericke, Scripps Institution of Oceanography, La Jolla, CA.

6:00 Dinner

Wednesday, 6 December

8:30 Session VIII: Contributed Papers (12 minutes plus 3 minutes for discussion)

V-1. The effects of variations in euphausiid and Pacific hake biomasses on the productivity of British Columbian stocks of Pacific herring (*Clupea pallasi*). R. W. Tanasichuk, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B. C., Canada.

V-2. Northern Shift in the Location of Spawning and Recruitment of Pacific Hake (*Merluccius productus*) in the Northern California Current. A. Jason Phillips and Toby D. Auth, Cooperative Institute for Marine Resources Studies, Oregon State University; Robert L. Emmett and Richard D. Brodeur, NOAA Fisheries, Northwest Fisheries Science Center.

V-3. Time Series of daily Hake Larval Production off California in 1951-2005. Nancy Lo, Southwest Fisheries Science Center

V-4. Roles of species-specific temperature optima and interspecific interactions in the biological processes of anchovy and sardine alternations. Akinori Takasuka, Hiroshi Kubota, and Yoshioki Oozeki, National Research Institute of Fisheries Science, Fisheries Research Agency, Yokohama, Japan; Hiroshige Tanaka and Ichiro Aoki, Graduate School of Agricultural and Life Sciences, University of Tokyo; and Salvador E. Lluch-Cota, Centro de Investigaciones Biológicas del Noroeste, Mexico.

V-5. Economic Consequences of Climate Induced Ecosystem Shifts Influencing California Fisheries: 1928—2004. Jerrold G. Norton, Janet E. Mason and Samuel F. Herrick, Southwest Fisheries Science Center, La Jolla.

V-6. Bathymetric Responses in Functional Structure of Southern California Demersal Fish Communities to Pacific Decadal Oscillation Regimes and an El Niño. M. James Allen, Southern California Coastal Water Research Project.

10:00 Break

10:30 Session IX: Contributed Papers (12 minutes plus 3 minutes for discussion)

V-7. Climate Change and The Comparative Anatomy of Ecosystems in the North Pacific. Kathryn M. Allan and John A. McGowan, Scripps Institution of Oceanography, University of California, San Diego.

V-8. The jumbo squid, *Dosidicus gigas*, a new groundfish predator in the California Current? John C. Field and Ken Baltz, Fisheries Ecology Division, Southwest Fisheries Science Center, NOAA Fisheries.

V-9. Bottom-up modeling to fit central California Cassin's and rhinoceros auklet production to environmental and biological variables. Brian Wells, Churchill Grimes, and John Field, NOAA Fisheries, Santa Cruz; Julie Thayer and William Sydeman, PRBO Conservation Science, Petaluma, CA; Steven Bograd and Franklin Schwing, PFEL, Pacific Grove, CA; and Roger Hewitt and Kevin Hill, NOAA Fisheries, La Jolla, CA

V-10. Spatial Patterns of Recruitment in a Demersal Fish as Revealed by Seabird Diet. Dan P. Robinette, PRBO Conservation Science; Julie Howar, and William J. Sydeman.

V-11. Ichthyoplankton abundance and diversity in coastal Oregon. Heather L. Soulen, and Toby D. Auth, Oregon State University, Hatfield Marine Science Center; Richard D. Brodeur and William T. Peterson, NOAA Fisheries, Hatfield Marine Science Center; Maria M. Parnel, Puyallup Tribal Fisheries.

V-12. How can trophic models help in the Marine Ecosystem Based Management. E. A. Chávez, D. Lercari, S. Chávez-Rosales and M. Gorostieta-Monjaraz, Centro Interdisciplinario de Ciencias Marinas, Instituto Politécnico Nacional, La Paz.

12:00 Lunch

1:30 Session X: Contributed Papers (12 minutes plus 3 minutes for discussion)

V-13. Accuracy and precision of measurements of transect length and width made with a remotely operated vehicle. Konstantin A. Karpov, Andrew Lauermann, Mary Bergen, and Michael Prall, California Department of Fish and Game

V-14. Spatiotemporal Variability Of Kelp Forest Canopies In Central California, And A Proposed Method To Classify Kelp Forests Using Remote Sensing. Michael D. Donnellan, California Department of Fish and Game, Central Valley Bay Delta Branch.

V-15. The use of historical fisheries information to evaluate current California market squid (Loligo opalescens) management strategies. Briana C. Brady and Dale Sweetnam, CA Department of Fish and Game.

V-16. Spatial patterns of habitat utilization by juvenile rockfishes in Monterey Bay. Kevin L. Stierhoff and Susan Sogard, NOAA Fisheries SWFSC, Santa Cruz.

2:30 Break

3:30 Session XI: Contributed Papers (12 minutes plus 3 minutes for discussion)

V-17. Standardized diet composition and trophic levels in skates. David A. Ebert and Joseph J. Bizzarro, Pacific Shark Research Center, Moss Landing Marine Laboratories.

V-18. Comparative feeding ecology of four sympatric skate species off central California. J.J. Bizzarro, H.J. Robinson, C.S. Rinewalt, and D.A. Ebert, Pacific Shark Research Center, Moss Landing Marine Laboratories.

V-19. Potential Impacts of Effective Dispersant Use on Aquatic Biota. Walter Nordhausen, California Department of Fish & Game, Office of Spill Prevention and Response; Deborah French McCay, Jill Rove, and Robin Lewis, Applied Science Associates, Incorporated; James R. Payne, Payne Environmental Consultants, Incorporated.

V-20. Chlorinated Hydrocarbons in Pelagic Forage Fishes and Squid of the Southern California Bight. Erica Jarvis, Kenneth Schiff, Lisa Sabin, M. James Allen, Southern California Coastal Water Research Project