

**Southwest Fisheries Science Center, NOAA Fisheries
Scripps Institution of Oceanography
California Department of Fish and Game**

**CALCOFI:
IN CONJUNCTION WITH THE
TRINATIONAL SARDINE FORUM**

**Scripps Institution of Oceanography
15 – 18 November 2004**

Monday, 15 November

12:00-13:00 Registration – Sumner Auditorium Portico

13:00-13:30 Welcome and Opening Remarks: William Fox and Anne Allen
(*Southwest Fisheries Science Center*)

SESSION I: Status of the Fisheries

Moderator: Laura Rogers-Bennett

(California Department of Fish and Game, Bodega Bay)

Current status of California's marine resources and fisheries presented by biologists from the California Department of Fish and Game (CDFG).

13:30-13:45 Nearshore Live-Fish
David Osorio, CDFG Monterey

13:45-14:00 Ocean Salmon
Matt Erickson, CDFG Santa Rosa

14:00-14:15 Dungeness and Rock Crab
Eric Larson, CDFG Belmont

14:15-14:30 Pacific Herring
Diana Watters, CDFG Belmont

14:30-15:00 BREAK (Registration Continues)

15:00-15:15 Tunas
Michael Connell, CDFG Los Alamitos

15:15-15:30 California Recreational Fishery Survey (CFRS)
Steve Crooke, CDFG Los Alamitos

15:30-15:45 Market Squid
Travis Tanaka, CDFG Monterey

SESSION II: Status of Fisheries for Pacific Sardine
Moderator: Kevin Hill (*Southwest Fisheries Science Center*)

15:45-17:00 CPS Finfish
Leeanne Laughlin, CDFG Los Alamitos

Gulf of California
Manuel O. Nevárez Martínez, CRIP-INP, Guaymas

Magdalena Bay
Roberto Félix-Uraga, CICIMAR-IPN, La Paz

Ensenada
Celia Eva Coterero, CRIP-INP, Ensenada

California
Leeanne Laughlin CDFG, Los Alamitos

Oregon/Washington
Brian Culver WDFW, Montesano

British Columbia
Jake Schweigert DFO, Nanaimo

DINNER

17:15-19:15 Catered buffet on Pawka Green, just below Sumner Auditorium

Tuesday, November 16, 2004

8:00-8:30 Registration – Sumner Auditorium Portico

SESSION III: Symposium of the Conference: “Pacific Sardine – Past, Present, and Future” Moderator: Tim Baumgartner (*Centro de Investigación Científica y Educación Superior*)

8:30-8:40 Introduction to the symposium
(**Kevin Hill and Tim Baumgartner, Symposium Conveners**)

- 8:40-9:15 A 1500-year history of the sardine population in the California Current
(Tim Baumgartner, Centro de Investigación Científica y Educación Superior)
- 9:15-9:50 Long-term dynamics of sardines in the Humboldt, California, and Kuroshio currents
(Jürgen Alheit, Baltic Sea Research Institute)
- 9:50-10:10 BREAK
- 10:10-10:45 A history of proposals for stock structure in the Pacific sardine populations off western North America
(Paul Smith, Southwest Fisheries Science Center and Scripps Institution of Oceanography)
- 10:45-11:20 Relationship of California sardine (*Sardinops sagax*) landings to climate-scale ecological changes in the California Current system
(Jerrold G. Norton, Pacific Fisheries Environmental Laboratory, Southwest Fisheries Science Center; and Janet E. Mason)
- 11:20-11:55 Sardine ecosystem model
(Richard H. Parrish, Pacific Fisheries Environmental Laboratory, Southwest Fisheries Science Center)

LUNCH

- 11:55-13:00 Catered buffet lunch, Sumner Auditorium Portico

SESSION III (continued)

Moderator: Kevin Hill (*Southwest Fisheries Science Center*)

- 13:00-13:35 Pacific sardine stocks off the west coast of the Baja California peninsula and southern California
(Roberto Félix-Uraga, Centro Interdisciplinario de Ciencias Marinas; Casimiro Quiñónez-Velázquez, Felipe Neri Melo-Barrera, Víctor M. Gómez-Muñoz and Walterio García-Franco)
- 13:35-13:55 Recruitment of the Pacific sardine (*Sardinops sagax*) in Baja California, Mexico
(Manuel O. Nevárez Martínez, Instituto Nacional de la Pesca, Centro Regional de Investigación Pesquera de Guaymas; Celia Eva Cotero Altamirano, Ma. de los Angeles Martínez Zavala, Roberto Félix Uraga, and Alfredo Cota Villavicencio)

- 13:55-14:15 Measuring recruitment failures for Pacific sardine *Sardinops sagax caeruleus* in the Gulf of California, Mexico
(Enrique Morales-Bojórquez, *Instituto Nacional de la Pesca, Laboratorio de Dinámica de Poblaciones del Pacífico Norte*; and **Manuel Nevárez-Martínez**)
- 14:15-14:50 Spawning biomass of Pacific sardine from 1994-2004 off California
(**Nancy Lo**, *Southwest Fisheries Science Center*; and Beverly Macewicz)
- 14:50-15:10 Sardines in the ecosystem of the Pacific Northwest
(Robert L. Emmett, **Richard D. Brodeur**, *Northwest Fisheries Science Center*; Todd W. Miller, Paul J. Bentley and Suzan S. Pool)
- 15:10-15:30 BREAK
- 15:30-15:50 Recent distribution and ecology of sardines off British Columbia, Canada
(**Gordan A. McFarlane**, *Pacific Biological Station, Fisheries and Oceans Canada*; and Jake. Schweigert)
- 15:50-16:25 An optimal harvest policy for the recently renewed United States Pacific sardine fishery
(**Sameul F. Herrick, Jr.**, *Southwest Fisheries Science Center*; Kevin Hill, and Christian Reiss)
- 16:25-17:00 Growth-optimal temperature for larval sardine vs. anchovy: A possible mechanism for sardine-anchovy regime shift?
(**Akinori Takasuka**, *National Research Institute of Fisheries Science, Fisheries Research Agency*; Yoshioki Oozeki, Ichiro Aoki, Ryo Kimura, Hiroshi Kubota, Hiroya Sugisaki, Takashi Yamakawa)
- 17:00-17:35 The future of the sardine population of the California Current
(**Tim Baumgartner**, *Centro de Investigación Científica y Educación Superior*)

Wednesday, 17 November 2004

SESSION IV: Contributed Talks

Moderator: Russ Vetter (*Southwest Fisheries Science Center*)

- 8:30-8:50 Abundances of planktonic foraminifera indicate decadal variability and 20th century warming in the California Current
(**David B. Field**, *Southwest Fisheries Science Center*; Tim R. Baumgartner, Vicente Ferriera-Bartrina)

- 8:50-9:10 Parasitoid ciliates (Apostomatida: Colliniidae: *Collinia*) infecting the subtropical euphausiid *Nyctiphanes simplex* in the southern part off Baja California, México
(Jaime Gómez-Gutiérrez, Centro Interdisciplinario de Ciencias Marinas; and Carlos J. Robinson)
- 9:10-9:30 Distribution and community structure of ichthyoplankton in 2000 and 2002 off the Oregon coast
(Toby D. Auth, Hatfield Marine Science Center; and Richard D. Brodeur)
- 9:30-9:50 Selective predation of *Centropages furcatus* (COPEPODA: CALANOIDA) in La Paz Bay, B.C.S., México.
(Arturo Nava Torales, IPN-CICIMAR; and Sergio Hernández Trujillo)
- 9:50-10:10 Preliminary results from the California purse seine fishery's pilot observer program
(Tonya L. Wick, NOAA Fisheries, Southwest Region; Don Petersen, and Lyle Enriquez)
- 10:10-10:30 BREAK
- 10:30-10:50 Geographic and bathymetric changes in functional organization of demersal fish communities of the continental shelf and upper slope of California and Pacific Baja California
(M. James Allen, Southern California Coastal Water Research Project)
- 10:50-11:10 Assessing the effects of temperature on otolith chemistry of Pacific sardine (*Sardinops sagax*)
(Emmanis Dorval, Southwest Fisheries Science Center; Barbara Javor, Kevin Piner, Christian Reiss, Russ Vetter, and Larry Robertson)
- 11:10-11:30 Population dynamics and current stock status of Japanese sardine in the northwestern Pacific
(Hiroshi Nishida, National Research Institute of Fisheries Science; Akihiko Yatsu, Masayuki Noto, and Minoru Ishida)
- 11:30-11:50 Historical reproductive cycle of sardine Monterrey *Sardinops caeruleus* in the western coast of Baja California
(Celia Eva Cotero A; Instituto Nacional de la Pesca and Héctor Valles Ríos)
- LUNCH**
- 11:50-13:00 Catered buffet lunch, Sumner Auditorium Portico

SESSION IV, Continued

Moderator: Paul Smith (*Southwest Fisheries Science Center and Scripps Institution of Oceanography*)

- 13:00-13:20 Trophic structure of sardine (*Sardinops sagax*) and anchovy (*Engraulis mordax*) spawning areas in the California Current system
(Rafael Gonzalez-Quiros, Scripps Institution of Oceanography; and David Checkley)
- 13:20-13:40 Possible mechanisms underlying latitudinal abundance changes of Pacific sardine in the California Current system during the last warming regime (1980-1997)
(Rubén Rodríguez-Sánchez, CICIMAR; Daniel Lluch-Belda and Sofía Ortega-García)
- 13:40-14:00 Temporal and spatial patterns of *Sardinops sagax* fish larvae abundance in Bahía Magdalena
(René Funes, CICIMAR; Julián Leal Espinosa, Martín E. Hernández, Alejandro Hinojosa, Rogelio González, Gerardo Acéves and Raymundo Avendaño I.)
- 14:00-14:20 Tidal front dynamics and Pacific sardine aggregations in Bahia Magdalena, southwest coast of Baja California, México
(Carlos J. Robinson, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México; Jaime Gómez-Gutiérrez and Samuel Gómez-Aguirre)
- 14:20-14:40 First study of the copepods predation on the microzooplankton in Bahía de la Paz, Mexico
(Javier Cruz-Hernández; Centro Interdisciplinario de Ciencias Marinas and Sergio Hernández-Trujillo)
- 14:40-15:00 CalCOFI data management: Today and beyond
(Karen I. Stocks, San Diego Supercomputer Center and Karen S. Baker, Scripps Institution of Oceanography)
- 15:30-17:30 Poster Presentations, Wine and Cheese Reception
(Munk Conference Room, in IGPP)
- 16:30-18:00 Data Management Workshop
(Helen Raitt Room, 3rd floor SIO library)

Thursday, November 18, 2004

9:00-5:00 Trinational Sardine Forum Working Group Meetings

*To be held in the Large Conference Room of Southwest Fisheries Science Center.
Morning food and refreshments will be provided. Lunch will be available for attendees
to order.*