

Appendix A

AGENDA

Twelfth Annual Pacific Climate (PACLIM) Workshop
Asilomar Conference Center, Pacific Grove, California
May 2-5, 1995

PACLIM is a multidisciplinary workshop broadly focused on climate phenomena occurring in the eastern Pacific and western Americas. Its purpose is to understand the climate effects in this region by bringing together specialists from diverse fields including both physical and biological sciences. Time scales range from weather to paleoclimate.

Convened at the Asilomar Conference Center, the atmosphere of the Workshop is intentionally informal, and room and board are provided for the participants. The Workshop is organized by a committee of representatives from several organizations, but historically it has been spearheaded by U.S. Geological Survey scientists. Held annually, the Workshop has benefited from funding and other forms of support from several agencies (public and private).

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Asilomar Conference Center, Pacific Grove, California
May 2 - 5, 1995

Asilomar Meal Schedule
Breakfast 7:30-9:00 am
Lunch 12:00-1:00 pm
Dinner 6:00-7:00

Tuesday Evening

May 2, 1995

Moderator: Caroline Isaacs

- 7:00-7:10 Welcome and Announcements
- 7:10-7:30 Interannual Variability in the Tropics During 1985-1994
Gerald D. Bell and Vernon Kousky, Climate Analysis Center
- 7:30-7:45 Recent Trends in Tropical Pacific Climate
Nathan Mantua, IRICP Research and Development Pilot Project, SIO
- 7:45-8:05 Recent Winters in the Western United States and Relation to ENSO Patterns
Kelly T. Redmond, Western Regional Climate Center, Reno, Nevada
- 8:05-8:25 Influence of Climatology on Rainfall Thresholds for Initiation of
Debris-Flows on the California Coast
Raymond C. Wilson, U.S. Geological Survey, Menlo Park, California
- 8:25-8:45 California Water Outlook in 1995
Maurice Roos, California Department of Water Resources, Sacramento, California
- 8:50 — Social Gathering

Wednesday Morning

Invited Talks

May 3, 1995

Interdecadal Climate Variability Over the Pacific and Western Americas

Moderator: Tim Baumgartner

- 8:30-9:10 Ocean-Atmosphere Variability from the Instrumental Record —
Natural Decadal Variability and Possible Anthropogenic Change
Nicholas E. Graham, Scripps Inst. of Oceanography, La Jolla, California
- 9:10-9:50 Mechanisms of Upper-Ocean North Pacific Ocean Thermal Variability
in a 1970-88 Simulation
Arthur J. Miller, Dan Cayan, Warren B. White, and Mojib Latif;
Scripps Institution of Oceanography, La Jolla, California
- 9:50-10:10 *Break*
- 10:10-10:50 Climate Forcing by Changing Solar Radiation
Judith Lean, Naval Research Laboratory, Washington, D.C.
- 10:50-11:20 Decadal Hydroclimatic Variability over Western North America
Dan Cayan, Michael Dettinger, and Henry Diaz;
Scripps Institution of Oceanography, La Jolla, California
- 11:20-12:00 The Terrestrial Ecosystem Response in Western North America
Tom Swetnam and Julio Betancourt, Univ. of Arizona, Tucson, Arizona

Wednesday Afternoon**May 3, 1995****Interdecadal Climate Variability (continued)**

Moderator: Dan Cayan

- 1:30-2:10 **Effects of Interdecadal Climate Variability on the Oceanic Ecosystems of the Northeast Pacific Ocean**
Robert C. Francis, S.R. Hare, A.B. Hollowed and W.S. Wooster;
University of Washington, Seattle, Washington
- 2:10-2:50 **Terrestrial Record of Interdecadal Climate Variability in Western North America**
Malcolm Hughes, University of Arizona, Tucson, Arizona
- 2:50-3:10 *Break*
- 3:10-3:50 **The Marine Paleorecords from Varved Sediments and Tropical Corals**
Tim Baumgartner, Robert Dunbar, and B. Linsley;
Scripps Institution of Oceanography, La Jolla, California
- 3:50-4:30 **Societal Implications of Interdecadal Climate Variability**
Roger Pulwarty, NOAA, Boulder, Colorado

Wednesday Evening**Invited Talk****May 3, 1995**

- 7:30-8:10 **The Little Ice Age: Glacier Variations and Climate Since 1250 A.D.**
Stephen Porter, Director, Quaternary Research Center,
University of Washington, Seattle, Washington

Thursday Morning**May 4, 1995**

Moderator: Paul Smith

- 8:30-8:50 **Offshore Coho Salmon Populations Near the Pacific Northwest and Large-Scale Atmospheric Events**
David Greenland, Department of Geography, Eugene, Oregon
- 8:50-9:10 **Long-Term Changes in the Equatorial Pacific Trade Winds**
Anna Lebedeva and Allan J. Clarke; Florida State University, Tallahassee, Florida
- 9:10-9:30 **Stream Salinity in Response to Discharge (climate), Western United States**
David Peterson, Dan Cayan, Michael Dettinger, Jeanne DiLeo, Caroline Isaacs,
Larry Riddle, and Richard E. Smith; U.S. Geological Survey, Menlo Park, California
- 9:30-10:00 **One-Minute Poster Introductions**
- 10:00-10:35 *Break*
- 10:35-10:55 **Interdecadal Variability in the Spatial Structure of Wind and SST of the California Current System**
Franklin B. Schwing, Roy Mendelssohn and Richard Parrish;
Pacific Fisheries Environmental Group, Monterey, California
- 10:55-11:15 **A Ten-Year Time Series of Zooplankton Anomalies off the British Columbia Coast**
David L. Mackas, Institute of Ocean Sciences, Sidney, Canada
- 11:15-11:35 **Climate-Related Long-Term Faunal Changes in a California Rocky Intertidal Community**
James P. Barry, Charles H. Baxter, Rafe D. Sagarin, and Sarah E. Gilman;
Monterey Bay Aquarium Research Institute, Pacific Grove, California
- 11:35-11:55 **Decadal Patterns in Atmospheric Carbon Dioxide as Indicators of Changing Growth and Decay of Terrestrial Vegetation**
Charles D. Keeling and Timothy Whorf; Scripps Institution of Oceanography, La Jolla, California

Thursday Afternoon**May 4, 1995**

Moderator: Larry Bensen

- 1:50-2:10 Chronic and Catastrophic Influences of the Environment on the Population Dynamics of the Common Fishes
Paul E. Smith, NOAA, La Jolla, California
- 2:10-2:30 An 800-year Paleoflood Record from the Sacramento Valley, California
Roger Byrne, University of California, Berkeley, California
- 2:30-2:50 Decadal Variation in the Trans-Pacific Migration of Northern Bluefin Tuna (*Thunnus Thynnus*) Coherent with Climate-Induced Change in Prey Abundance
Jeffrey J. Polovina, Southwest Fisheries Science Center, Honolulu, Hawaii
- 2:50-4:30 Poster Presentations

Thursday Evening**Invited Talk****May 4, 1995**

- 7:30-8:10 Causes and Impacts of Decadal Climate Variability Over the North Pacific and North America
Tim Barnett, Scripps Institution of Oceanography, La Jolla, California

Friday Morning**May 5, 1995**

Moderator: Mike Dettinger

- 8:30-8:50 The Terrestrial Paleorecord of Climate Change Over the Last Thousand Years in the Canadian Rockies
Brian H. Luckman, Department of Geography, University of Western Ontario, London, Canada
- 8:50-9:10 Synoptic Dendroclimatology: A Process-Based Approach for Linking Tree-Ring Information to Atmospheric Circulation Over the Pacific and North America
Katherine K. Hirschboeck, Fenbiao Ni, Michelle L. Wood, and Connie A. Woodhouse; Laboratory of Tree-Ring Research, University of Arizona, Tucson, Arizona
- 9:10-9:30 Integrating Varve and Tree-Ring Time Series for Southern California Climate Reconstruction: A Twentieth Century Outlook
Franco Biondi, Carina Lange, Kimberly Cobb, and W.H. Berger; Scripps Institution of Oceanography, La Jolla, California
- 9:30-10:00 *Break*
- 10:00-10:20 Oxygen-18 Variation in Lake Lahontan, Lake Russell and Owens Lake During the Last Glacial-Interglacial Transition
L.V. Benson, J.W. Burdett, M. Kashgarian, and S. Lund; U.S. Geological Survey, Boulder, Colorado
- 10:20-10:40 Oxygen Isotope Analysis of Corals from the Gulf of California and the Gulf of Panama: Application and Implications for Coral-Based Paleoclimate Reconstructions
William A. Jones, Jr. Robert B. Dunbar, and Gerard M. Wellington; U.S. Geological Survey, Boulder, Colorado
- 10:40-11:00 Holocene Paleoclimate from a Sierra Nevada Lake
Scott Anderson, Northern Arizona University, Flagstaff, Arizona

Appendix B

POSTER PRESENTATIONS

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Multiple-Proxy Lacustrine Record of Moisture Transport Over Western North America from 24 to 12 kyrs BP, Lake Estancia, New Mexico
Bruce D. Allen, Roger Y. Anderson, and Crayton J. Yapp;
Earth and Planetary Science, University of New Mexico, Albuquerque, New Mexico

Evidence for Possible Changes in Large-Scale Upwelling in the California Current in the Last 600 Years
Tim Baumgartner and John Southon, Scripps Institution of Oceanography and CICESE

A Late Pleistocene Paleohydrological Record of Sierra Nevada Runoff from Owens Lake, California
J. Platt Bradbury, U.S. Geological Survey, Denver, Colorado

Can Lake Sediments Provide a Record of Tropical Storms? The Case of Laguna de Juanacatlán, Jalisco, Mexico
Roger Byrne, D. Allen, E. Edlund, C. Polansky, and L. Menchaco;
University of California, Berkeley, California

Decadal Variability Over the North Pacific Ocean
Dan Cayan, Warren B. White, and Arthur J. Miller;
Scripps Institution of Oceanography, La Jolla, California

Geographic Patterns in the Lag of Temperature Response to Insolation for El Niño vs. La Niña
R.G. Craig, J.L. Betancourt, and D.E. Jones; Kent State University, Kent, Ohio

Disturbance Climate in the Columbia River Basin
Sue A. Ferguson and Mirium R. Peterson, USDA Forest Service, Seattle, Washington

Atmospheric Circulation Patterns Associated with Tree Growth Anomalies in the Central and Southern Sierra Nevada Mountains
Gregg Garfin, Laboratory of Tree-Ring Research, University of Arizona, Tucson, Arizona

On the Strength of the California Current: A Record From the Southern Baja California Margin
Juan Carlos Herguera, Tim Herbert, and Vicente Ferreira Bartrina;
CICESE, Ensenada, Baja California, Mexico

Changes in Mass Balance of South Cascade Glacier, North Cascades, from 1959 to 1994
Steven Hodge, Robert Krimmel, and E.G. Josberger;
U.S. Geological Survey, Tacoma, Washington

Interdecadal Shifting of the North Pacific Jet Stream — El Niño Events
Stephen H. Holets, Pacific Gas and Electric, San Francisco, California

The QBO, El Niño and Tidal Resonance Model
Thor Karlstrom, U.S. Geological Survey, La Conner, Washington

Physical, Chemical and Biological Characterization of Water Year Types in the San Francisco Bay Estuary
Peggy W. Lehman, California Department of Water Resources, Sacramento, California

- Oceanographic Variability at Clipperton Atoll Since the 1880s:
Stable Isotopic Evidence from Massive Corals**
Brad Linsley and Robert Dunbar, Rice University, Houston, Texas
- Evidence Supporting Global Warming from a Mid-Latitude, High Elevation Site**
Mark Losleben, Rice University, Houston, Texas
- Reconstructing Twentieth-Century Flood Patterns in Havasu Creek, Arizona,
Using Historical and Dendrochronologie Data**
Theodore S. Melis and William M. Phillips, U.S. Geological Survey, Tucson, Arizona
- Interdecadal Variability in the Bakun Upwelling Indices**
Heather Parker, NOAA, National Fisheries Service
- Rock-Magnetic and Geomagnetic Secular Variations From Late Pleistocene
Lake Estancia, New Mexico**
H.D. Rowe, J.W. Geissman, B.D. Allen, and R.Y. Anderson;
Earth and Planetary Sciences, University of New Mexico, Albuquerque, New Mexico
- Climate-Driven Hydrologic Transients in Holocene Lake Records**
Alison J. Smith, Department of Geology, Kent State, Kent, Ohio
- Chronological Records of Climate-Related Events and Societal Consequences**
Gary D. Sharp, Center for Climate/Ocean Resources Study, Monterey, California
- Changes in the Hydrometeorological Regime in the Pacific Northwest**
John Vaccaro, U.S. Geological Survey, Tacoma, Washington
- Interannual to Decadal Scale Variations in Glacier Mass Balance**
Roy A. Walters, U.S. Geological Survey, Denver, Colorado
- Seasonal to Decadal Scale Variability in a Radiolarian Time Series and Its
Relationship to Climate**
Amy L. Weinheimer and Daniel R. Cayan, Scripps Institution of Oceanography, La
Jolla, California
- Response of PNW Vegetation to Large-Scale Changes in Climate
During the Last 100 kyr**
Cathy Whitlock, University of Oregon, Eugene, Oregon
- A High Frequency Paleoclimatic Record for the Late Holocene from
Southern Nevada Derived from Aquatic and Terrestrial Pollen**
Peter E. Wigand, Desert Research Institute, University of Nevada, Reno, Nevada
- Relationships Between Climate and Atmospheric Circulation in the
Sonoran Desert Region**
Connie A. Woodhouse, Laboratory of Tree-Ring Research,
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Apendix C
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