



CLIMATE CHANGE, NATURAL RESOURCES AND COASTAL MANAGEMENT

A WORKSHOP ON THE COASTAL ECOSYSTEMS OF CALIFORNIA, OREGON AND WASHINGTON

January, 29-30, 2009, San Francisco, Hyatt Embarcadero

Draft Program-- 1/9/2009 Version. All speakers confirmed, except as indicated.

Moderator	Times	Presenter	Organization	Title
DAY 1	DAY 1	January 29, 2009	DAY 1	DAY 1
	8:00 AM	Anne Kinsinger	USGS - Regional Director, Western Region	Welcome
David Patte	8:10 AM	PLENARY SESSION A -- Foundational Presentations: Climate Change Scenarios, Downscaled Models, & Effects to Coastal Natural Resource Management		
	40 min	Jeff Burgett	USFWS - Pacific Islands	Climate Change and its Implications for Conservation and Policy
	40 min	Dan Cayan	USGS & Scripps Institution of Oceanography/UC San Diego	Climate Drivers for the Pacific Coast; Observed 20th Century Climate Change and Downscaled Models for the Pacific Coast; and Sea Level Rise
9:30AM Break				
Carrie Thompson	10:00AM	PLENARY SESSION B -- Coastal Ecosystems and Climate Change		
	15 min	Fred Piltz	Senior Environmental Scientist, Mineral Management Service	West Coast Governors Agreement on Ocean Health: Action Plan & Priorities
	15 min	Brian Baird	State of California, California Resources Agency	West Coast Governors Agreement on Ocean Health: State perspectives on Climate Change Actions
		TBA	TBA	Coastwide Assessment -- TBA
	5 min	Angie Fredrickson	Washington Department of Natural Resources - Marine Policy Fellow	WCGA - Climate Change Action Coordination Team - Identifying Impacts to the Shorlines of California, Oregon and Washington
	20 min	Will Travis	Western Coastal Zone Managers	Presentation on Status and Needs of Coastal Zone Managers; Results of CZM Meeting
11:30AM LUNCH: 90 min				
Dave Busch	1:00PM	Concurrent Session A -- Coastal Watersheds and Landscapes (hydrology and ecosystems)		
	20 min	Noah Knowles	USGS, Menlo Park	Projected Hydrologic Changes and Management Challenges Under CASCaDE Climate Change Scenarios
	20 min	Randy Hanson	USGS California Water Science Center	Climate Variability and Change on Coastal Aquifer System
	20 min	Lorraine Flint (co-author: Alan Flint)	USGS California Water Science Center	Evaluating Future Hydrologic and Ecologic Changes in Coastal Watersheds"
	20 min	Joe Hevesi	USGS - WRD - Sacramento	Simulated Hydrologic Responses to Potential Climate Change for Mountainous Drainage Basins in California
	20 min	Anne Wein	USGS Western Geographic Science Center	Proposal for Economic Consequences of a Winter Storm Scenario in California: Metrics and Methods
2:40PM -- Break				
	3:00PM			
	20 min	Mark Huff	National Park Service, Inventory & Monitoring Coordinator, North Coast and Cascades Network	Monitoring of Ecological Reserves in a Changing Climate: Perspectives from National Parks
	20 min	Glenn R Guntenspergen	USGS - Patuxent Research Center	Resilience of Coastal Wetlands to Sea Level Rise
	20 min	Jessica Halofsky	USDA Forest Service, PNW Research Stn / UW	Climate Change Effects and Adaptation Options for Forest Ecosystems in the Western US
	20 min	Kathryn McEachern	USGS - BRD Channel Islands	Fog and the hydrologic regime of Santa Rosa Island, Channel Islands National Park: Interacting effects of climate and vegetation recovery



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Lief Horwitz	1:00PM	Concurrent Session B - Bays and Estuaries		
	20 min	Bruce Jaffe	USGS, Coastal and Marine Geology	Geomorphic Response of Estuaries to Sea Level Rise and Climate Change
	20 min	Patty Glick	National Wildlife Federation: Seattle	Sea-level Rise and Coastal Habitats in the Pacific Northwest: Application of a Model
	20 min	Eric Grossman	USGS, Coastal and Marine Geology	Response of Large River Deltas and Nearshore Ecosystems to Climate Change in Puget Sound
	20 min	Michelle Orr	Phil Williams & Associates	Planning for Sustainable Estuarine Restoration with Sea Level Rise
	20 min	John Takekawa	USGS - WERC BRD San Francisco Bay	Estuary-Nearshore Climate Change Effects and Relationship to Migratory and Listed Species
	2:40PM -- Break			
	3:00PM			
	20 min	Scott W. Starratt	USGS, Menlo Park	Sea Level and Climate Variability: Diatom Records from Coastal Marshes
	20 min	Marina Psaros (invited)	San Francisco Bay National Estuarine Research Reserve	Research Reserves Development as Sentinel Sites to Assess the Impacts of Climate Change
	20 min	Robin Miller	USGS - WRD - Sacramento	Plant Community, Hydrology, and Decomposition Drive Carbon Storage in Sacramento-San Joaquin Delta
	20 min	Brian Pellerin	USGS - WRD Sacramento	Dissolved Organic Carbon and Nitrogen Dynamics in a Changing World
	20 min	Judy Drexler	USGS - WRD - Sacramento	Sacramento-San Joaquin Delta: Marsh Carbon Sequestration
Sam Johnson	1:00PM	Concurrent Session C -- Nearshore and Open Ocean		
	20 min	Bruce Richmond	USGS, Coastal and Marine Geology	West Coast Shoreline Change Over the Last Century: Results from the USGS National Assessment of Shoreline Change Studies.
	20 min	Dave Revell (co-authors include Bob Battalio & Peter Gleick)	Philip Williams & Associates, Env. Hydrology	An Initial Assessment of the Impact of Sea Level Rise to the California Coast
	20 min	Patrick Barnard	USGS, Coastal and Marine Geology	Models of Climate Change and Storm Surge
	20 min	Brian Collins	USGS Western Earth Surface Processes	Climate Change Based Prediction of Coastal Cliff Landslides Near San Francisco, California
	20 min	Sue Haig	USGS Forest & Rangeland Ecosystem Science Center	Effects of Climate Change on Pacific Coast Ecosystems: Modeling Predicted Sea Level Rise on Rocky Shores and Sandy Beaches
	2:40PM -- Break			
	3:00PM			
	20 min	Julie Thomas	Scripps Institution of Oceanography	Role of Ocean Observing Systems for Climate Change Studies
	20 min	Curt Storlazzi	USGS, Coastal and Marine Geology	The Influence of Climate Change on Coastal Processes and Benthic Habitats: Past Observations, Present Modeling, and Future Projections
	20 min	John Takekawa (for Josh Adams, author)	USGS - BRD - San Francisco Bay	Seabirds and their Marine Environments: Movements, Dynamic Habitats, and Change
	20 min	Brian Wells (co-authors include Steve Lindley & John Field)	NOAA	Linkages Between Climate Variation and the Pelagic Ecosystem of the California Current
	20 min	Maria Brown	NOAA	Climate Change Effects and Management Response Along the North-Central California Coast



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Moderator	Times	Presenter	Organization	Title
Lief Horwitz	5:00PM -- 7:00PM	Evening Poster Session		
		Bill Labiosa	USGS Western Geographic Science Center	The Ecosystem Portfolio Model: Linking Human Well-Being to Ecological Restoration Plans in Puget Sound
		Ben Sleeter	USGS Western Geographic Science Center	Measuring rates of land cover change in coastal California, Oregon and Washington
		Andy Yuen, David Patte, Others	FWS	FWS Draft Strategic Plan on Climate Change
		Judy Drexler	USGS - WRD - Sacramento	Sacramento-San Joaquin Delta: Marsh Carbon Sequestration
		Bill Wilen/Bill Kirchner	USFWS	SLAMM demonstration (poster session - needs internet connection)

DAY 2	DAY 2	January 30, 2009	DAY 2	DAY 2
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David Patte	8:00AM	PLENARY SESSION C -- Management and Species Challenges		
	25 min	Richard Feely	NOAA - Pacific Marine Env't. Lab. -	Ocean Acidification and the Effect to Open Ocean and Coastal Ecosystems
	25 min	Terry Root	Stanford University	Wildlife Responses to Climate Change (Terrestrial) and Management Challenges
	25 min	Ellie Cohen	PRBO Conservation Science	Managing for Change: Adaptive Conservation Strategies

9:30 AM -- Break

Carrie Thompson	10:00AM	PLENARY SESSION D -- Adapting Our Management and Decision Making		
	30 min	Stephen Schneider	Stanford University	Climate Change Policy -- Expecting the "Unimaginable Surprises" & Actions to Consider
	20 min	Mike Scott	USGS/Idaho Cooperative Fish & Wildlife Research Unit at Univ. Idaho	Managing for Change in the National Wildlife Refuge System
	20 min	Jan Thompson	USGS	CASCaDE A decision tool for examining the effect of climate change on the San Francisco Delta Ecosystem
	20 min	Kathy O'Halloran	USFS - Olympic NF	Using Existing Information to Development Adaptation Strategies-- Olympic NF Case Study

11:30 AM LUNCH (90 minutes)

Dave Busch	1:00PM	Concurrent Session D -- Aquatic Biota		
	20 min	Bill Peterson	NOAA Northwest Fisheries Science Center, Hatfield Marine Science Center, Newport, Oregon	Forecasting returns of coho and Chinook salmon in the northern California Current: a role for high-frequency long term observations
	20 min	Gordon Reeves	USDA Forest Service, PNW Research Stn	Climate change and the freshwater life-history of Pacific salmon
	20 min	Larry R. Brown	USGS California Water Science Center	Increased water temperatures from CASCaDE climate-change scenarios: implications for selected California fishes
	20 min	Jeff Kershner	USGS Northern Rocky Mountain Science Center	Climate change stream temperature and flow effects on salmonids
	20 min	Alec Maule	USGS Western Fisheries Research Center	The use of bioenergetics modeling to predict effects of climate change on individual fish, fish populations and fish communities



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Tom Suchanek				
	1:00PM	Concurrent Session E -- Nearshore Habitats, Bays and Estuaries		
	20 min	Eric Miller	MBC Applied Environmental Sciences	Regime shift, NPGO, PDO, and the southern California kelp forests: the effect of climate variability on coastal resources, 1967-2007
	20 min	Tim Tinker	USGS Santa Cruz Field Station	Using long term research on sea otters and kelp forest food webs to study the effects of climate change on coastal ecosystems
	20 min	Paul Hershberger	USGS Western Fisheries Research Center	Impacts of Climate Change on Emerging Diseases of Wild Marine and Anadromous Fishes
	20 min	Ronald M. Thom	DOE Pacific Northwest National Laboratory	Climate driven dynamics of eelgrass along the U.S. Pacific Coast: resilience and vulnerability of a critical nearshore fisheries habitat
	20 min	Mary McGann	USGS, Coastal and Marine Geology	Foraminifera: A tool for dating and assessing climatic and ecosystem change in estuarine and marine environments
Diane Elam				
	1:00PM	Concurrent Session F -- Species/Population Management		
	20 min	Frank Schwing	NMFS	Think Like a Fish: How Climate Change Affects Marine Populations
	20 min	Steve Palumbi	Stanford University	Are marine species adapted to current environmental gradients? Prospects for climate change.
	20 min	Jaime Jahncke	PRBO Conservation Science	Seabird Responses to Variability in Coastal Upwelling at Multiple Time
	20 min	Debbie Reusser	USGS Western Fisheries Research Center	Integrated Monitoring and Information Systems for Managing Aquatic Invasive Species in a Changing Climate
	20 min	Diana Stralberg	PRBO Conservation Science	Predicting Effects of Climate Change on Bird Distributions Across Scales and Ecosystems: How Species-based Modeling can Inform Management and Decision Making
	2:40PM -- Break			
Carrie Thompson				
	3:00PM	PLENARY SESSION E -- WRAP-UP: Moving Forward and Closing Remarks		
		Dan Ashe	FWS, Washington, D.C.	National Perspectives on Moving Forward
		Ren Lohofener	RD, Region 8, FWS	Closing
	4:30PM	ADJOURN		