

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

January 29-30, 2009, San Francisco, Hyatt Regency at 5 Embarcadero Center *Final Program*

Location	Times	Presenter	Organization	Title
DAY 1	DAY 1	January 29, 2009	DAY 1	DAY 1
		Anne Kinsinger	USGS - Regional Director, Western Region	
Grand Ballroom B/C	8:10 AM	PLENARY SESSION A		te Change Scenarios, Downscaled Models, & Effects to Coastal Natural rce Management
Moderator: David Patte	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 Chang and Downscaled Models for the Pacific Coast; and Sea Level Rise
	9:30AM Br	eak		
Market St. Foyer	POSTERS	Available for viewing the	roughout the workshop; presenters wi	II be available during morning breaks
Grand Ballroom B/C	10:00AM		PLENARY SESSION B Co	oastal Ecosystems and Climate Change
Moderator: Carrie Thompson	15 min	Spencer Reeder	Washington Department of Ecology	Bridging the Climate Change Data and Policy Gaps: How the West Coast States are Responding Locally and Coast-wide
	20 min	Steve Goldbeck	San Francisco Bay Conservation & Development Commission	Status and Needs of Coastal Zone Managers (Report from the Coastal Zone Managers Meeting)
	10 min			Question and Answer Related to the 2 Topics, Above
	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	s West Coast Governors Agreement on Ocean Health: State perspectives on Climate Change Actions
	5 min	Angie Fredrickson	Washington Department of Natural Resources - Marine Policy Fellow	WCGA - Climate Change Action Coordination Team - Identifying Impacts to the Shorelines of California, Oregon and Washingtor
	10 min			Question and Answer Related to the 3 Topics, Above
	11: 30AM	LUNCH: 90 min		
Grand Ballroom B	1:00PM	C	Concurrent Session A Coastal Waters	sheds and Landscapes (hydrology and ecosystems)
Moderator: Dave Busch	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 Mountainou 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 1	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 Nationa Park: Interacting effects of climate and vegetation recovery



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Adams, author)

John Field)

5:30 PM Steve Wessells

Maria Brown

20 min

20 min

Grand Ballroom

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Brian Wells (co-authors

include Steve Lindley &

NOAA

NOAA

USGS

Location	Times	Presenter	Organization	Title	
Grand Ballroom C	1:00PM		Concurrent Ses	ession B - Bays and Estuaries	
Moderator: Lief Horwitz	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	Forecasting Response of Large River Deltas and Nearshore Ecosystems to Sea Level and Climate Change in Puget Sound: "Estuary Squeeze"	
	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	Jaime Kooser	San Francisco Bay National Estuarine Research Reserve	Sentinel Sites: Using NOAA's National Estuarine Research Reserve System for Climate Change Research, Monitoring and Educatior	
	20 min	Robin Miller	USGS - WRD - Sacramento	Plant Biomass Carbon Inputs, Losses, and Storage in Re-established Marshes in the Sacramento-San Joaquin Delta	
	20 min	Brian Pellerin	USGS - WRD Sacramento	The Role of Climate Variability on Constituent Transport from an Agricultural Watershed	
	20 min	Judy Drexler	USGS - WRD - Sacramento	Peat Accretion Rates, Carbon Storage, and Sustainability of Marshes in the Sacramento-San Joaquin Delta, California	
Regency A/B	1:00PM		Concurrent Session C	C Nearshore and Open Ocean	
Moderator: Sam Johnson	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, Envt. Hydrology	An Initial Assessment of the Impact of Sea Level Rise to the California Coast	
	20 min	Patrick Barnard	USGS, Coastal and Marine Geology	A Comprehensive, Process-Based Modeling Approach for Assessing Coastal Flooding and Inundation under Extreme Storm Scenario:	
	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	X 1: 071			
	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	USGS - BRD - San Francisco Bay	Seabirds and their Marine Environments: Movements, Dynamic Habitats, and	

Change

California Current

California Coast

Revival"

Linkages Between Climate Variation and the Pelagic Ecosystem of the

Climate Change Effects and Management Response Along the North-Central

Video showing of the South Bay Restoration Project, entitled "Wetland



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DAY 2	DAY 2	January 30, 2009	DAY 2	DAY 2
Grand Ballroom B/C	8:00AM		PLENARY SESSION C	Management and Species Challenges
Moderator: David Patte	25 min	Richard Feely	NOAA - Pacific Marine Envt. Lab Seattle	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		
Market St. Foyer	POSTERS	Available for viewing th	roughout the workshop; presenters w	ill be available during morning breaks
Foyer		Available for viewing the		ill be available during morning breaks ting Our Management and Decision Making
Foyer Grand Ballroom		Available for viewing the second seco		ing Our Management and Decision Making
Foyer Grand Ballroom B/C Moderator: Carrie	10:00AM		PLENARY SESSION D Adapt	ting Our Management and Decision Making Climate Change Policy Expecting the "Unimaginable Surprises" & Actions
Foyer Grand Ballroom B/C Moderator: Carrie	10:00AM 30 min	Stephen Schneider	PLENARY SESSION D Adapt Stanford University USGS/Idaho Cooperative Fish &	ting Our Management and Decision Making Climate Change Policy Expecting the "Unimaginable Surprises" & Actions to Consider
Foyer Grand Ballroom B/C Moderator: Carrie	10:00AM 30 min 20 min	Stephen Schneider Mike Scott	PLENARY SESSION D Adapt Stanford University USGS/Idaho Cooperative Fish & Wildlife Research Unit at Univ. Idahc	ting Our Management and Decision Making Climate Change Policy Expecting the "Unimaginable Surprises" & Actions to Consider Managing for Change in Coastal Area Refuges CASCaDE A Decision Tool for Examining the Effect of Climate Change on

Regency A/B	1:00PM	Concurrent Session D Aquatic Biota		
Moderator: Dave Busch	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	Effects of Climate Change on the Freshwater Life-history of Anadromous Fish in the Pacific Northwest
	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	Are Current Native Trout Strategies Adequate in a Warming Climate?
	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 communitie



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Grand Ballroom C 1:00PM Concurrent Session F Species/Population Management Moderator: Diane Elam 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 Scales	Location	Times	Presenter	Organization	Title	
Tom Suchanek of climate virability on costal 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 costal ecosystems 20 min Paul Hershberger USGS Western Fisheries Research Impacts of Climate Change on Emerging Diseases of Wild Marine and Anadromous Fishers 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 cricical nearshore fisheris habitat 20 min Mary McGann USGS, Coastal and Marine Geology Foraminifera: A tool for dading and assessing climatic and ecosystem change in estuarine and marine environments Grand Baltroom 1:00PM Concurrent Session F - Species/Population Management Diane Elan 20 min Frank Schwing NMFS Diane Elan 20 min Starof 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 Scales and Ecosystems: How Species-based Modeling can Inform Management and Decision Making 20 min Diana Stralberg PRBO Conservation Science Seabird Responses to Variability in Coastal Upwelling at Mu		1:00PM	Concurrent Session E Nearshore Habitats, Bays and Estuaries			
effects of climate change on coastal ecosystems entry effects of climate change on coastal ecosystems entry entry effects of climate change on coastal ecosystems entry		20 min	Eric Miller	MBC Applied Environmental Sciences		
Center Anadromous Fishes Conter 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 Grand Ballroom 1:00PM Concurrent Session F - Species/Population Management Moderator: 20 min Frank Schwing NMFS 20 min Steve Palumbi Stanford University Are marine species adapted to current environmental gradients? Prospects for climate change. 20 min Jaine Jahncke PRBO Conservation Science Seabrid Responses to Variability in Coastal Upwelling at Multiple Time Scales 20 min Debbie Reusser USGS Western Fisheries Research Detroir 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 30 min Rebecca Shaw The Nature Conservancy of California Natural Systems Adaptation to Climate Change in California - How the West Coast Moves Forward 30 min Dan Ashe FWS Science Adviso		20 min	Tim Tinker	USGS Santa Cruz Field Station		
20 min Mary McGam Laboratory and vulnerability of a critical nearshore fisheries habitat Grand Ballroom 1:00PM Concurrent Session F - Species/Population Management Moderator: 20 min Frank Schwing NMFS Diane Elam 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 Scales 20 min Diana Stralberg PRBO Conservation Science Seabird Responses to Variability in Coastal Upwelling at Multiple Time Scales 20 min Diana Stralberg PRBO Conservation Science Seabird Responses to Variability in Coastal Upwelling at Multiple Time Scales 20 min Diana Stralberg PRBO Conservation Science Seabird Responses to Variability in Coastal Upwelling at Multiple Time Scales 20 min Diana Stralberg PRBO Conservation Science Secience And Modeling can Inform Management and Decision Making ZirdOPM - - - - - Grand Ballroom 30 min Rebecca Shaw The Nature Conservancy of California Natural Systems Adaptation to Climate Change in California - How the West Coast Moves Forward </th <th></th> <th>20 min</th> <th>Paul Hershberger</th> <th></th> <th></th>		20 min	Paul Hershberger			
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Grand Ballroom B/C 3:15PM PLENARY SESSION E WRAP-UP: Moving Forward and Closing Remarks Moderator: David Patte 30 min Rebecca Shaw The Nature Conservancy of California The Nature Conservancy of California Natural Systems Adaptation to Climate Change in California - How the West Coast Moves Forward 30 min Dan Ashe FWS Science Advisor to the Director, Washington, D.C. Later is Over: The Imperative for Transformation in Conservation Washington, D.C. 20 min Ren Lohoefener FWS Regional Director, Pacific Southwest Region Closing		20 min	Debbie Reusser		Integrated Monitoring and Information Systems for Managing Aquatic Invasive Species in a Changing Climate	
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David Patte Coast Moves Forward 30 min Dan Ashe FWS Science Advisor to the Director, Vashington, D.C. Later is Over: The Imperative for Transformation in Conservation Washington, D.C. 20 min 20 min Question and Answer for Dan and Rebecca 10 min Ren Lohoefener FWS Regional Director, Pacific Southwest Region		3:15PM		PLENARY SESSION E WRAP-	UP: Moving Forward and Closing Remarks	
20 min Question and Answer for Dan and Rebecca 10 min Ren Lohoefener FWS Regional Director, Pacific Closing Southwest Region Closing		30 min	Rebecca Shaw	The Nature Conservancy of California		
10 min Ren Lohoefener FWS Regional Director, Pacific Closing Southwest Region		30 min	Dan Ashe		Later is Over: The Imperative for Transformation in Conservation	
Southwest Region		20 min			Question and Answer for Dan and Rebecca	
4:30PM ADJOURN		10 min	Ren Lohoefener	e	Closing	
hour hojourt		4:30PM	ADIOURN			
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Market St. Foyer Posters will be available for viewing throughout the workshop; presenters will be available during morning breaks.



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-	Posters will	be available for viewing t	POSTERS and DECISION SUPPORT hroughout the workshop in the Mark	PRODUCT DEMONSTRATIONS et St. Foyer; presenters will be available during morning breaks.
Market St. Foyer		Bill Labiosa	USGS Western Geographic Science Center	The Puget Sound Ecosystem Portfolio Model: Spatially-Explicit Long-Term Planning Tools for Linking Human Well-Being and Regional Change in Puget Sound
		Ben Sleeter	USGS Western Geographic Science Center	Measuring rates of land cover change in coastal California, Oregon and Washington
		Andy Yuen	US FWS San Diego NWRC	FWS Draft Strategic Plan on Climate Change
		Judy Drexler	USGS - WRD - Sacramento	Sacramento-San Joaquin Delta: Marsh Carbon Sequestration
		Bill Wilen, Bill Kirchner	US FWS National Wetlands Inventory	SLAMM demonstration
		Charlotte Ambrose	National Marine Fisheries Service	Endangered Salmon and Steelhead; Climate Change an Important Component in their Potential Extinction
		Chaeli Judd, Ron Thom, Dana Woodruff, Kathleen Judd, Steve Gajewski and Andrea Copping	Pacific Northwest National Laboratory	Decision-Support for Climate Change: Lessons Learned from the Gulf of Mexico
		Andrea Copping, Mark Wigmosta, Tarang Khangaonkar, Zhaoqing Yang and Dana Woodruff	Pacific Northwest National Laboratory	Interpreting Climate Change through Integrated Watershed and Estuarine Modeling in the Pacific Northwest
		Ron Smith, Louanne McMartin	US FWS	Climate Change and Non-native Invasive Species
		Edward G Josberger	USGS	Glacier Wastage and the Marine Ecosystems of the Gulf of Alaska
		Caroline Warner, Beth Huning	San Francisco Bay Joint Venture	Wetland Restoration and Projected Impacts from Climate Change Recommendations for and by Partners of the San Francisco Bay Joint Venture
		Susan Wynn	US FWS Carlsbad Fish and Wildlife Office	Laguna Mountains skipper: A coastal montane butterfly at the vanguard of climate change