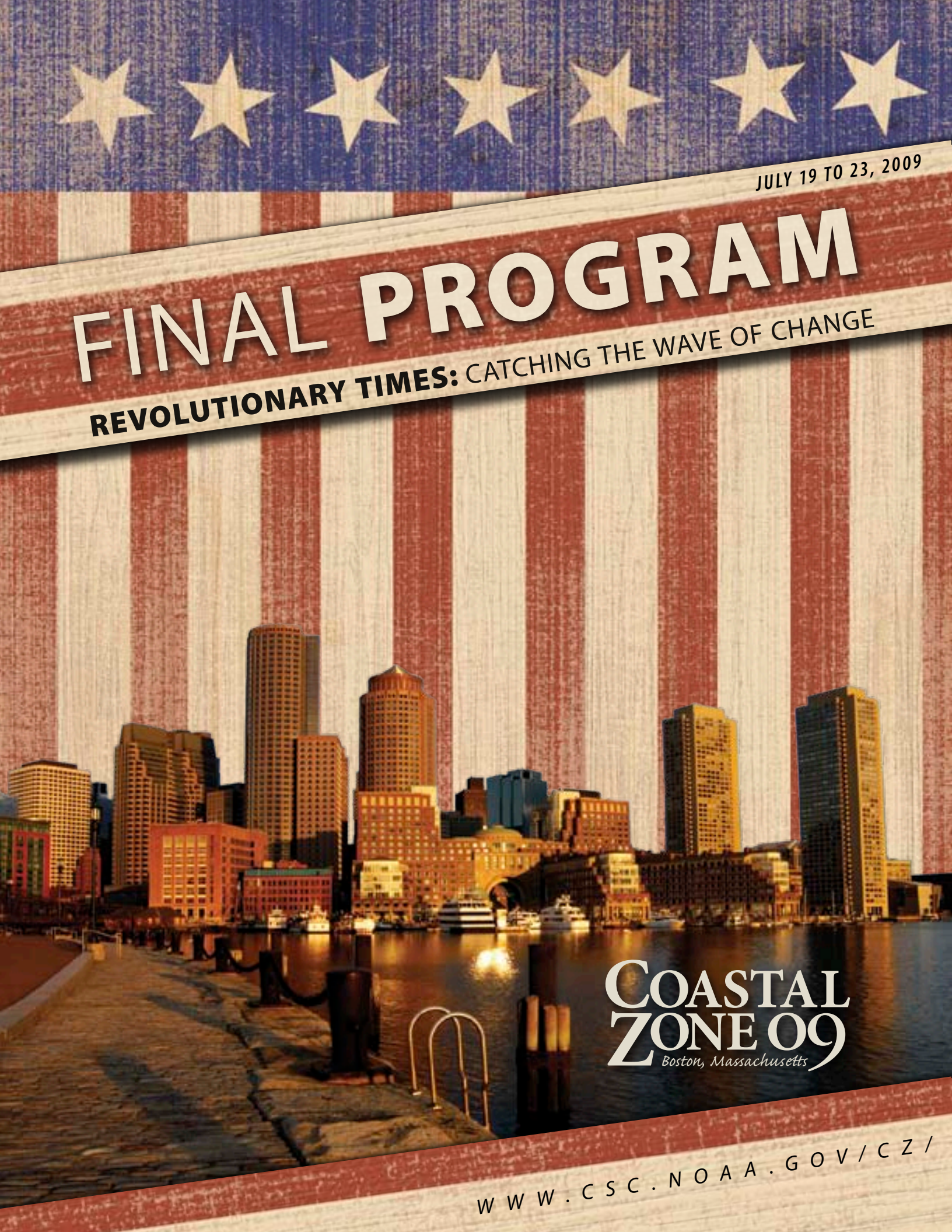
JULY 19 TO 23, 2009

FINAL PROGRAM

REVOLUTIONARY TIMES: CATCHING THE WAVE OF CHANGE



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CONFERENCE AT A GLANCE

Monday, July 20

8:00 a.m.	Coffee
8:00 a.m. to 5:00 p.m.	Conference Check-in
9:00 to 10:30 a.m.	Opening Plenary
10:30 to 11:00 a.m.	Break
11:00 a.m. to 12:30 p.m.	Concurrent Sessions
12:30 to 1:45 p.m.	Networking Luncheon and Hershman Award
2:00 to 4:30 p.m.	Café Conversations
2:00 to 3:30 p.m.	Concurrent Sessions
3:30 to 4:00 p.m.	Break
4:00 to 5:00 p.m.	Concurrent Sessions
6:00 to 8:00 p.m.	Welcome Reception and Stratton Award

Tuesday, July 21

8:00 a.m.	Coffee
8:00 a.m. to 5:00 p.m.	Conference Check-in
9:00 to 11:30 a.m.	Poster and Federal Partner Hall Open
9:00 to 11:30 a.m.	Café Conversations
9:00 to 10:00 a.m.	Concurrent Sessions
10:00 to 10:30 a.m.	Break
10:30 to 11:30 a.m.	Concurrent Sessions
11:30 a.m. to 1:00 p.m.	Poster Luncheon
1:00 to 2:30 p.m.	Concurrent Sessions
2:30 to 3:00 p.m.	Break
3:00 to 4:30 p.m.	Concurrent Sessions

Wednesday, July 22

8:00 a.m.	Coffee
8:00 a.m. to 5:00 p.m.	Conference Check-in
9:00 to 10:30 a.m.	Local Plenary
10:30 to 11:00 a.m.	Break
11:00 a.m. to 12:30 p.m.	Concurrent Sessions
12:30 to 2:00 p.m.	Lunch on Your Own
2:00 to 4:30 p.m.	Café Conversations
2:00 to 3:30 p.m.	Concurrent Sessions
3:30 to 4:00 p.m.	Break
4:00 to 5:00 p.m.	Concurrent Sessions
7:00 to 10:00 p.m.	Aquarium Reception

Thursday, July 23

8:00 a.m.	Coffee
8:00 a.m. to 3:30 p.m.	Conference Check-in
9:00 to 10:30 a.m.	Concurrent Sessions
10:30 to 11:00 a.m.	Break
11:00 a.m. to 12:30 p.m.	Concurrent Sessions
12:30 to 1:45 p.m.	Networking Luncheon and Magoon Award
2:00 to 3:00 p.m.	Concurrent Sessions
3:00 to 3:30 p.m.	Break
3:30 to 4:30 p.m.	Concurrent Sessions
4:30 p.m.	Adjourn

CONFERENCE TIPS

Conference Evaluations – Your input is very important and is used to help shape future conferences. A link to the evaluation will be e-mailed to you during the week. Use your personal laptop or one of the computers in the Internet Café to complete your evaluation on-line. Then, stop by the registration desk to pick up your fun Coastal Zone 09 token!

Conference Proceedings – Do you want to learn more about the talk you just attended? Check out the Coastal Zone 09 Proceedings to find all abstracts. Your conference proceedings are available on a flash drive included in your welcome package.

Daily Brief – Pick up your copy of the *Daily Brief* each morning from the registration area. This bulletin highlights conference activities, provides information on Boston, profiles the conference partners, and much more. Check it out. Be informed.

Internet Café – The Fairfield room near the registration area offers computers for those wishing to check e-mail. The room is open from 8:00 a.m. to 5:00 p.m. each day.

Message Board – Need to get word to a colleague that you will be late for a meeting? Try posting a message on the message board located next to the program and session information table.

Speaker Assistance – A speaker ready room is available during conference registration hours. It is located in the Hancock room near the registration area. Please report here the day before your scheduled talk to have your presentation loaded on a conference laptop.

Technical Program Assistance – Please visit the program and session information table, located near the registration area, for any questions you may have about sessions or presentations. We ask that all presenters, including poster presenters, and moderators check in at this table immediately after registering.

MARC J. HERSHMAN

EXCELLENCE IN MENTORING AWARD

In memory of Marc Hershman, the Joint Ocean Commission Initiative will present the inaugural Marc J. Hershman Excellence in Mentoring Award at Coastal Zone 09. Professor Hershman taught at the University of Washington School of Marine Affairs and School of Law and was a respected leader in the ocean and coastal community, including serving as a member of the U.S. Commission on Ocean Policy and the Joint Ocean Commission Initiative. Professor Hershman's devotion to inspiring young people stands out as his legacy. His dedication and enthusiasm for mentoring students, as well as his continued facilitation of their professional development, helped to cultivate the next generation of ocean and coastal managers and scientists.

Monday, July 20, 2009

	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00
Mezzanine	Conference Check-in										
Hancock	Speaker Ready Room										
Fairfield	Internet Café										
Imperial Ballroom Foyer	Coffee			Break				Break			
Imperial Ballroom		Opening Plenary				Networking Luncheon and Hershman Award (12:30 to 1:45 p.m.)			Poster and Federal Partners Set-up		Welcome Reception (6 to 8 p.m.)
Arlington				Social, Economic, and Environmental Perspectives on Protected Areas			Fisheries Management		Regional Sediment Management		
Berkeley/Clarendon				From Observations to Applications: Enhancing Coastal Science for Managers, Practitioners, and the Public			Partnering with NOAA Sea Grant in Your State		The Debate over Aquaculture		
Georgian				Climate Change Impacts			Geologic Maps and Models of Coastal and Nearshore Change for Aiding Coastal Managers in Adapting to Sea Level Rise and Storms		Climate Change in the Great Lakes: A Presentation Panel to Discuss the Risk, Vulnerability, and the Role of Adaptation in Addressing Coastal Hazards		
Stanbro				Got Energy? Tools, Lessons Learned, and Future Trends for Tidal and Offshore Energy			Ecosystem-Based Management Approaches		Evaluating the Effectiveness of Coastal Ecosystem Science and Management: Moving Beyond Performance Measures		
Terrace				Ecosystem Assessment, Conservation, and Management			Realizing the Vision for the Future of the Coastal Zone Management Act		Marine Ecosystem-Based Management in Practice in the Northeast U.S.		
St. James, Fourth Floor							Café Conversation: Native Conversations: Intergenerational Connections to Our Decision-Making				
Stuart, Fourth Floor							Café Conversation: Building Capacity for Collaborative Decisions, Resilient Ecosystems, and Sustainable Practices: Water, Land, Community, and People				
Thoreau, Fourth Floor							Café Conversation: U.S. Offshore Wind Collaborative: An Integrated Approach to Sustainable Renewable Energy Development				
White Hall, Fourth Floor							Café Conversation: Establishing a Resilient Marine Protected Areas Network: What's Happening?				
Whittier, Fourth Floor							Café Conversation: Who Should Pay for Conservation?				

Tuesday, *July 21, 2009*

	8:00		9:00		10:00		11:00		12:00		1:00		2:00		3:00		4:00
Mezzanine	Conference Check-in																
Hancock	Speaker Ready Room																
Fairfield	Internet Café																
Imperial Ballroom Foyer														Break			
Imperial Ballroom	Coffee				Break			Poster Luncheon									
Arlington			Educating and Inspiring Coastal Communities			Harmful Algal Blooms Monitoring and Management					Smart Growth at the Water's Edge: Waterfront and Coastal Community Smart Growth				Development of Wave Energy in Oregon, U.S.A.		
Berkeley/Clarendon			Coastal Management Policy and Legislation I			Coastal Management Policy and Legislation II					Toxic Contaminants: Environmental Assessments and Human Interaction						
Georgian			Holding the High Ground: Coastal Habitat in a Changing Climate			Coastal Hazard Preparedness and Mitigation					Regional Ocean Governance: Progress toward Ecosystem-Based Management in Selected Multi-State Approaches				Department of Interior Ocean and Coastal Activities Regional Governance		
Stanbro			Managing Beach and Shorefront Development			Engaging Communities to Promote Healthier Coastal Environments					Marine Debris Regional Issues and Action Plans: A Roadmap to Success				By Land and By Sea: Blending Science, Technology, and Information to Tackle Marine Debris		
Terrace			Monitoring and Forecasting Coastal Storm Hazards			Reducing Runoff to Improve Water Quality					Decision-Support Tools for Coastal Hazards				Climate Risks and Vulnerabilities		
St. James, Fourth Floor			Café Conversation: Creating More Effective Education and Outreach														
Stuart, Fourth Floor			Café Conversation: Coastal Smart Growth and Resilience														
Thoreau, Fourth Floor			Café Conversation: Mapping for Managers: Bridging the Gap between Data and Information														
White Hall, Fourth Floor			Café Conversation: Regional Ocean Governance: Facing the Challenges of Regional Collaboration														
Whittier, Fourth Floor			Café Conversation: Coastal Management Information Needs in a Changing Climate: Challenges and Opportunities														

Wednesday, July 22, 2009

	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00
Mezzanine	Conference Check-in											
Hancock	Speaker Ready Room											
Fairfield	Internet Café											
Imperial Ballroom Foyer	Coffee			Break					Break			
Imperial Ballroom		Local Plenary										
Arlington				Smart Growth: From Research to Outreach			Spatial Data and Tools of the Trade		Technology and Partnerships in Coral Reef Management			
Berkeley/Clarendon				Coastal and Ocean Observing Systems: Approaches and Applications			Working Together for Habitat Restoration in the Narrow River (Pettaquamscutt River Estuary)		Integrated Coastal Management: Lessons Learned			
Georgian				Climate Change on the Coast: Plan Today to Adapt Tomorrow			The StormSmart Network: How Local Action across the U.S. Is Preparing Communities for Climate Change		Collaborative Approaches to Regional Ocean Governance			
Stanbro				Policy and Planning Strategies Supporting the Future of Ocean Management			Education and Capacity Building in Coastal Communities		Tools and Approaches for Environmental Restoration			
Terrace				Coastal Flooding: Identifying and Assessing Current and Future Risks			Introducing the International Coastal Atlas Network		Ecological Forecasting: Providing Predictions for Ecosystem-Based Management			
St. James, Fourth Floor							Café Conversation: Building Collaboration between Coastal Management and FEMA's Community Rating System: Changing the Coastal Elements					
Stuart, Fourth Floor							Café Conversation: Building In Climate Change Effects to Urban Waterfront Development Policies					
Thoreau, Fourth Floor							Café Conversation: How Can GEOSS Connect Coastal Zone Observations with Coastal Zone Concerns?					
White Hall, Fourth Floor							Café Conversation: Massachusetts Ocean Management Planning					
Whittier, Fourth Floor							Café Conversation: The Next Generation of Coastal Management: Building Leadership Capacity					
						Lunch on Your Own						Aquarium Reception (7 to 10 p.m. Meet in hotel lobby at 6:45)

Thursday, July 23, 2009

	8:00		9:00		10:00		11:00		12:00		1:00		2:00		3:00		4:00
Mezzanine	Conference Check-in																
Hancock	Speaker Ready Room																
Fairfield	Internet Café																
Imperial Ballroom Foyer	Coffee					Break									Break		
Imperial Ballroom										Networking Luncheon and Magoon Award (12:30 to 1:45 p.m.)							
Arlington			Offshore Alternative Energy Development: State Needs and Proactive Approaches				Working Waterfronts						Recent Legislative and Policy Developments for NOAA's Conservation and Restoration Programs: ARRA, CELCP, and CZMA			Communicating Stormwater Research to a Diverse Set of Stakeholders	
Berkeley/Clarendon			Coastal Environmental Sensing Networks I: Sensor Devices, Networks, Cyber-infrastructure				Coastal Environmental Sensing Networks II: Sensor Applications						Coastal Environmental Sensing Networks III: Policy and Management-Related Information and Technology Needs			Technology and Information Management	
Georgian			Climate Change Adaptation Strategies				Communicating Climate Change Impacts and Risks to Communities: Lessons Learned						Climate-Ready Estuaries: An Adaptation Toolkit to Get Ready for a Changing Climate			Protect or Retreat: Case Studies of Coastal Hazard Response Strategies	
Stanbro			Establishing Human and Ecological Goals for Ecosystem-Based Management: Applied Case Studies along the West Coast				Conservation Planning						Water Quality: Dischargers and Nutrient Monitoring			Developing Coastal Livelihoods for Coastal Biodiversity Conservation: Lessons from the Sustainable Coastal Communities and Ecosystems Project	
Terrace			How to Arrive at a Regional Vision of Ocean Governance Using Marine Spatial Planning Techniques				Measuring and Communicating the Value of Collaboration in Coastal Management						Applying Innovative Land Use Technology in Coastal Communities			Engaging Stakeholders through Communication, Outreach, and Training	

MONDAY

July 20, 2009

COASTAL ZONE 09
Boston, Massachusetts

REVOLUTIONARY TIMES: CATCHING THE WAVE OF CHANGE

8:00 a.m. to 5:00 p.m. | *Mezzanine*
CONFERENCE CHECK-IN

8:00 to 9:00 a.m. | *Imperial Ballroom Foyer*
COFFEE

9:00 to 10:30 a.m. | *Imperial Ballroom*
OPENING PLENARY

Moderator:
Mr. John H. Dunnigan, Assistant Administrator, NOAA National Ocean Service

Keynote Speakers:
Dr. Jane Lubchenco, Under Secretary of Commerce for Oceans and Atmosphere and Administrator, NOAA
Ms. Laura Davis, Associate Deputy Secretary, Department of the Interior
Ms. Lisa Jackson, Administrator, U.S. Environmental Protection Agency *(invited)*

Climate change adaptation and mitigation is one of the top priorities of United States President Barack Obama's administration. This is good news for state and local governments, since the need for a national strategy is becoming increasingly apparent. At the opening plenary, top administration officials will discuss the national strategy and how this focus will impact our communities and our organizations.

10:30 to 11:00 a.m.
BREAK

11:00 a.m. to 12:30 p.m. | *Arlington*
SOCIAL, ECONOMIC, AND ENVIRONMENTAL PERSPECTIVES ON PROTECTED AREAS
Moderator: Jeff Adkins, NOAA Coastal Services Center

Adaptive Process Design for Multi-Stakeholder Environmental Planning: A Template for Success from the California Marine Life Protection Act Initiative
Evan Fox and Melissa Miller-Henson, California Marine Life Protection Act Initiative

The Role of Socioeconomic Data in Designing and Evaluating MPA Networks: California's Marine Life Protection Act Process
Charles Steinback, Sarah A. Kruse, Ph.D., Jon Bonkoski, Mike Mertens, and Astrid J. Scholz, Ph.D., Ecotrust

Preventing the Ultimate Wipeout: Policy Approaches for Protecting Surfing Areas
Brycen Swart, Rick Wilson, and Chad Nelsen, Surfrider Foundation

Developing a Process and Criteria for Evaluating Wisconsin's Lake Superior Freshwater Estuaries' Ecological Characteristics, Research Potential, and Educational Opportunities
Travis Olson, Wisconsin Coastal Management Program; Patrick Robinson, Becky Sapper, and Cathy Techtmann, University of Wisconsin Extension

11:00 a.m. to 12:30 p.m. | *Berkeley / Clarendon*

FROM OBSERVATIONS TO APPLICATIONS:
ENHANCING COASTAL SCIENCE FOR MANAGERS, PRACTITIONERS, AND THE PUBLIC
Moderator: Kristin Tronvig, NOAA Center for Operational Oceanographic Products and Services

The Changing Tide: Measuring, Understanding, and Applying Variations in Sea Level
Allison L. Allen, NOAA Center for Operational Oceanographic Products and Services; Galen A. Scott, NOAA National Geodetic Survey

Measuring Vertical Land Motion and the Implications for Local Rates of Sea Level Rise
Galen A. Scott, NOAA National Geodetic Survey

Additional Panelists:
Perry F. Gayaldo, Ph.D., NOAA Restoration Center
Kevin Knuuti, U.S. Army Corps of Engineers

11:00 a.m. to 12:30 p.m. | *Georgian*

CLIMATE CHANGE IMPACTS
Moderator: Daniella Hirschfeld, Massachusetts Office of Coastal Zone Management

Evaluating Potential Sea-Level Rise Impact to the U.S. Mid-Atlantic Ocean Coast: Results from a Panel Assessment
Benjamin T. Gutierrez, S. Jeffress Williams, and E. Robert Thieler, U.S. Geological Survey, Woods Hole Science Center

Climate Change and Eutrophication Status and Trends in the Gulf of Maine
Christine M. Tilburg, Gulf of Maine Council, Ecosystem Indicator Partnership; Holly Elwell, Tufts University; Jim Latimer, U.S. EPA Office of Research and Development; Gary Lines and Kathryn Parlee, Environment Canada; Susan Russell-Robinson, U.S. Department of the Interior

Projecting Employment Effects of Storm Surge and Sea Level Rise in York County, Maine
Charles S. Colgan and Samuel Merrill, University of Southern Maine

Coastal Flooding and Environmental Justice: Identifying Vulnerable Communities and Feasible Adaptation Strategies for the Boston Metro Area
Ellen Douglas, Ph.D., and Chris Watson, Environmental, Earth and Ocean Sciences Department, University of Massachusetts, Boston; Paul Kirshen, Ph.D., Civil and Environmental Engineering, Tufts University; Jack Wiggin, Urban Harbors Institute, University of Massachusetts, Boston; Scott Goodwin, Center for Integrative Environmental Research and Department of Anthropology, University of Maryland, College Park

11:00 a.m. to 12:30 p.m. | *Stanbro*

GOT ENERGY? TOOLS, LESSONS LEARNED, AND FUTURE TRENDS FOR TIDAL AND OFFSHORE ENERGY
Moderator: Barry Logue, Second Wind, Inc.

Got Tidal Energy? An Open Source, Web-Based, Spatial Decision Support Tool for Tidal Power Siting
Phil Osborne and Jessica Côté, Pacific International Engineering; Allison Bailey, Sound GIS; Aaron Racicot, Z-Pulley, Inc.; Neil MacDonald, Coldwater Consulting Ltd.

Offshore Renewable Energy Siting in Germany and the United States: Legal and Policy Impediments and Supports
Michelle E. Portman, Marine Policy Center, Woods Hole Oceanographic Institution; John A. Duff, Environmental, Earth and Ocean Science Department, University of Massachusetts, Boston; Johann Köppel and Jessica Reisert, Environmental Assessment and Policy Research Group, Technische Universität, Berlin; Megan E. Higgins, Marine Affairs Institute, Roger Williams University School of Law

Impacts of Energy Resource Development on Coastal Communities
Mitchell T. Baer, Office of Oil and Gas Analysis, Office of Policy, U.S. Department of Energy

11:00 a.m. to 12:30 p.m. | *Terrace*

ECOSYSTEM ASSESSMENT, CONSERVATION, AND MANAGEMENT
Moderator: Pete Wiley, NOAA Coastal Services Center

Integrated Ecosystem Assessments: A Tool for Bridging Science and Ecosystem Management
Gary C. Matlock, Ph.D., Robert Wood, Ph.D., Ruth Kelty, Ph.D., and Susan Baker, Ph.D., NOAA National Centers for Coastal Ocean Science

Science to Inform an Ecosystem Approach to Marine Management
Peter Taylor, Waterview Consulting

An Ecosystem Management Tool for the Selection of Environmental and Socio-Economic Indicators in Urban Estuaries
Kim M. Frashure, Ph.D. Candidate, Robert E. Bowen, Ph.D, Robert F. Chen, Ph.D., and Anamarija Frankic, Ph.D., University of Massachusetts, Boston

The Nature Conservancy's Northwest Atlantic Marine Ecological Assessment: Integrated Planning and Conservation of Coastal and Marine Environments and Resources
Sally Yozell and Jennifer Greene, The Nature Conservancy

12:30 to 1:45 p.m. | *Imperial Ballroom*

NETWORKING LUNCHEON AND HERSHMAN AWARD

Catch up with old friends and colleagues during this sit-down luncheon and hear about the winner of the Marc J. Hershman Excellence in Mentoring Award.

2:00 to 4:30 p.m. | *St. James*

CAFÉ CONVERSATION: NATIVE CONVERSATIONS:
INTERGENERATIONAL CONNECTIONS TO OUR DECISION-MAKING
Leader: Kalani Souza, PRiMO Indigenous Knowledge Hui

What would our great-great-grandchildren think of our natural resource management decision-making? This experience is designed to encourage immersion into "traditional science." Let's collaborate to uncover meaningful questions that will guide our future actions to manage our changing coastal and ocean resources. Join David Isaac and Juanita Brown, co-creators of the World Café; Dr. David G. Blumenkrantz, community psychologist, author, and teacher; and Native Cultural Practitioners, M. Kalani Souza and Chadd Paishon (Master Navigator), to experience the heart of indigenous conversations.

2:00 to 4:30 p.m. | *Stuart*

CAFÉ CONVERSATION: BUILDING CAPACITY FOR COLLABORATIVE DECISIONS, RESILIENT ECOSYSTEMS, AND SUSTAINABLE PRACTICES: WATER, LAND, COMMUNITY, AND PEOPLE
Leader: Marilyn Buchholtz ten Brink, Ph.D., U.S. Environmental Protection Agency

Population growth, urban expansion, and the warming climate have stressed, and will continue to stress, our coastal ecosystems. This café conversation will provide a forum to discuss the interface between people, technical knowledge, and environmental decisions; the urgent need to build capacity across the public sector for collaborative decision-making; the common interest in creating or preserving resilient ecosystems; and the implementation of sustainable practices. Participants are encouraged to bring examples of successes and challenges to this facilitated discussion, share their priorities, and take home strategies and tools that can assist in decision-making within estuarine watersheds.

2:00 to 4:30 p.m. | *Thoreau*

CAFÉ CONVERSATION: THE U.S. OFFSHORE WIND COLLABORATIVE: NEW PARTNERSHIPS, BIG CHALLENGES

Leader: Fara Courtney, Good Harbor Consulting

Offshore renewable energy has the potential to contribute significant public benefits, including climate change mitigation, economic development opportunities, and energy security, among others, creating new alliances among diverse interests. The U.S. Offshore Wind Collaborative (USOWC) provides a forum for ocean and clean energy advocates, state and federal agencies, academic institutions, and industry to work together to create sustainability in this promising new industry. This café conversation will focus on setting a collective agenda for this multi-sector partnership.

2:00 to 4:30 p.m. | *White Hall*

CAFÉ CONVERSATION: ESTABLISHING A RESILIENT MARINE PROTECTED AREAS NETWORK: WHAT'S HAPPENING?

Leaders: Annie Hillary and Gonzalo Cid, NOAA International Program Office

A new era in marine protected area management and network building is emerging. This café conversation will provide a forum for discussing advances being made to establish marine protected area (MPA) networks. The café will provide an opportunity for participants to provide insights on how to develop resilient MPA networks, as well as on current best practices. The results will be summarized and made available to participants and interested individuals and organizations.

2:00 to 4:30 p.m. | *Whittier*

CAFÉ CONVERSATION: WHO SHOULD PAY FOR CONSERVATION?

Leader: Neal Fishman, California Coastal Conservancy

Science, management, restoration, and technology are increasingly expensive. Join in a conversation about funding sources and effective strategies for increasing the size of the pie for the coast and ocean.

2:00 to 3:30 p.m. | *Arlington*

FISHERIES MANAGEMENT

Moderator: Martha Maxwell Doyle, Barnegat Bay Estuary Program

Atlantic Coastal Fish Habitat Partnership: The Role of a Fish Habitat Partnership in Coastal Habitat Conservation
Emily Greene, Atlantic Coastal Fish Habitat Partnership

Graphical Depiction of the Economic Effects of Fishery Management Measures
Monica Galligan, M.Sc. Candidate, Division of Science and Environmental Policy, California State University, Monterey Bay

Particle Tracking to Simulate the Effects of Proposed Hurricane Protection Structures on the Movement of Larval Fish Behaviors into Lake Pontchartrain
Jennifer N. Tate, Tate O. McAlpin, and Tahirih C. Lackey, U.S. Army Corps of Engineers Coastal and Hydraulics Laboratory

Linking Driving Forces of Vulnerability to the Consequences of Regulations in New England Fishing Communities: A Causal Model to Inform Fisheries Management
Seth Tuler and Thomas Webler, Social and Environmental Research Institute, Inc.; Colin Polsky, Department of Geography, Clark University

2:00 to 3:30 p.m. | *Berkeley / Clarendon*

PARTNERING WITH NOAA SEA GRANT IN YOUR STATE

Moderator: Monique Myers, California Sea Grant, University of California Cooperative Extension

Natural Resource Outreach Coalition and New Hampshire's Coastal Communities: Easing the Growing Pains
Julia Peterson, University of New Hampshire Sea Grant Extension

Jasper County Natural Resources Conservation Plan: Preparing For Growth
April Turner, South Carolina Sea Grant Consortium

Local Decision-Maker: A Web-Based GIS Planning System for Natural Resources and Economic Development
Robert McCormick, Illinois-Indiana Sea Grant College Program

Utilizing Shipwrecks, Coastal Tourism and Maritime Heritage as an Economic Development Tool
Joseph E. Lucente and Dave Kelch, Ohio State University Extension, Ohio Sea Grant College Program

2:00 to 3:30 p.m. | *Georgian*

GEOLOGIC MAPS AND MODELS OF COASTAL AND NEARSHORE CHANGE FOR AIDING COASTAL MANAGERS IN ADAPTING TO SEA LEVEL RISE AND STORMS

Moderator: S. Jeffress Williams, U.S. Geological Survey

Assessing Extreme Storm and Long Term Coastal Change Hazards Using Airborne Lidar
Asbury H. Sallenger, U.S. Geological Survey (USGS) and the USGS National Assessment of Coastal Change Hazards Team

Using Bayesian Networks to Evaluate Sea-Level Rise Impacts for Decision Making
Benjamin T. Gutierrez, E. Robert Thieler, and S. Jeffress Williams, U.S. Geological Survey, Woods Hole Science Center; Nathaniel Plant, U.S. Geological Survey, Center for Coastal and Watershed Studies; Donald R. Cahoon and Glenn Guntenspergen, U.S. Geological Survey, Patuxent Wildlife Research Center; Dean Gesch, U.S. Geological Survey, Earth Resources Observation and Science Center, John Masterson, U.S. Geological Survey, Massachusetts/Rhode Island Water Science Center

Integration of Geologic Framework and Oceanographic Studies to Develop Predictive Models of Coastal Change
Walter A. Barnhardt and John C. Warner, U.S. Geological Survey

Seafloor Sediment Characterization of U.S. Continental Shelves Using usSEABED
S. Jeffress Williams, Matthew A. Arsenault, Lawrence J. Poppe, and Jane A. Reid, U.S. Geological Survey; Chris J. Jenkins, University of Colorado

2:00 to 3:30 p.m. | *Stanbro*

ECOSYSTEM-BASED MANAGEMENT APPROACHES

Moderator: Pat Collins, Minnesota Lake Superior Coastal Program

Saving Long Island Sound: Regional Solutions for Long-Term Biodiversity
Jon Kachmar, The Nature Conservancy

Port Orford, Oregon: A Community Approach to Ecosystem-Based Management
Leesa Cobb, Port Orford Ocean Resource Team; Pete Stauffer, Surfrider Foundation; Jennifer Bloeser, Pacific Marine Conservation Council

Acclimatizing to a New Bay Area: Ecosystem-Based Tools and Recommendations
Daniel Robinson, San Francisco Bay Conservation and Development Commission

Everyone in the Water: Collaborative Engagement to Advance New York's Ecosystem-Based Management Initiative
Sue Senecah, New York Ocean and Great Lakes Ecosystem Conservation Council

2:00 to 3:30 p.m. | *Terrace*

REALIZING THE VISION FOR THE FUTURE OF THE COASTAL ZONE MANAGEMENT ACT
Moderator: Kristen Fletcher, Coastal States Organization

Reauthorization of the CZMA: Fact or Fiction?
Kristen Fletcher, Coastal States Organization

Realizing the Vision for the Future of Coastal Management
John H. Dunnigan, NOAA National Ocean Service

Alternative Energy and the Future of Coastal Management
Chad Nelson, Surfrider Foundation

Coastal Management in the Era of Climate Change
Kathryn Mengerink, Environmental Law Institute

3:30 to 4:00 p.m.

BREAK

4:00 to 5:00 p.m. | *Arlington*

REGIONAL SEDIMENT MANAGEMENT
Moderator: Rebecca Haney, Massachusetts Office of Coastal Zone Management

Integrating Dredging Projects into a Broader Management Context in New England
Thomas J. Fredette, U.S. Army Corps of Engineers, New England District; Melville P. Coté, Jr., U.S. Environmental Protection Agency, Region 1; Drew A. Carey, CoastalVision

Borrow Area Management for Barrier Island Restoration in Louisiana
Syed M. Khalil, Louisiana Office of Coastal Protection and Restoration

Emerging Sediment Management Efforts on Cape Cod: A Local Approach
Stephen J. McKenna, Massachusetts Coastal Zone Management

4:00 to 5:00 p.m. | *Berkeley / Clarendon*

THE DEBATE OVER AQUACULTURE
Moderator: Susan Bunsick, NOAA Aquaculture Program

Reframing the Debate over Aquaculture
Kevin Amos, Susan Bunsick, and Kate Naughten, NOAA Aquaculture Program

NOAA'S Role in the Future of U.S. Marine Aquaculture
David O'Brien, NOAA Aquaculture Program

Aquaculture and Tourism in the Coastal Zone: Conflict and Innovation in New Zealand
Laura W. Jodice, Clemson University; John Hull, New Zealand Tourism Research Institute, Auckland University of Technology; Ulrike Sassenberg, Auckland University of Technology

4:00 to 5:00 p.m. | *Georgian*

CLIMATE CHANGE IN THE GREAT LAKES: A PRESENTATION PANEL TO DISCUSS THE RISK, VULNERABILITY, AND THE ROLE OF ADAPTATION IN ADDRESSING COASTAL HAZARDS
Moderator: Pat Collins, Minnesota's Lake Superior Coastal Program

Climate Change in the Great Lakes: The Big Picture
Heather Stirratt, NOAA Coastal Services Center

Great Lakes Climate Change Adaptation Strategies
Patrick J. Doran, Ph.D., The Nature Conservancy

Climate Change Awareness for The Great Lakes Region: Wisconsin Sea Grant's Approach for Research and Outreach of Adaptive Response Planning
Gene R. Clark, P.E., University of Wisconsin Sea Grant Institute

4:00 to 5:00 p.m. | *Stanbro*

EVALUATING THE EFFECTIVENESS OF COASTAL ECOSYSTEM SCIENCE AND MANAGEMENT: MOVING BEYOND PERFORMANCE MEASURES
Moderator: Cory Riley, Cooperative Institute for Coastal and Estuarine Environmental Technology and NOAA Estuarine Reserves Division

Challenge, Promise and Practice of Evaluating Coastal Ecosystem Science and Management
Andy Rowe, ARCeconomics, Inc.

Lessons from Experience with a Multi-Step Process for Evaluating Ecosystem Management Efforts
Julia Wondolleck, University of Michigan, School of Natural Resources and Environment

Coastal Ecosystem Program Evaluation: Measuring Progress in the National Estuary Programs
Richard Ribb, Narragansett Bay Estuary Program

4:00 to 5:00 p.m. | *Terrace*

MARINE ECOSYSTEM-BASED MANAGEMENT IN PRACTICE IN THE NORTHEAST U.S.
Moderator: Heather Leslie, Brown University

Small-Scale Ecosystem-Based Management in Maine: The Taunton Bay Case Study
Kathleen Leyden, Maine Coastal Program

Ecosystem-Based Management and the Massachusetts Ocean Plan: Applications and Lessons Learned
Deerin Babb-Brott, Massachusetts Office of Coastal Zone Management

Rhode Island's Special Area Management Plans: An Ecosystem Management Tool
Grover Fugate, Rhode Island Coastal Resources Management Council

6:00 to 8:00 p.m. | *Imperial Ballroom*

WELCOME RECEPTION

Our federal partners and our poster presenters will be showcased during this reception. Enjoy light hors d'oeuvres and a cash bar while you network with the federal partners about their projects and tools, and view the poster presentations. During the reception, the winner of the Julius A. Stratton Award will be announced.

TUESDAY

July 21, 2009

COASTAL ZONE 09
Boston, Massachusetts

REVOLUTIONARY TIMES: CATCHING THE WAVE OF CHANGE

8:00 a.m. to 5:00 p.m. | *Mezzanine*
CONFERENCE CHECK-IN

8:00 to 9:00 a.m. | *Imperial Ballroom*
COFFEE

9:00 to 11:30 a.m. | *St. James*
CAFÉ CONVERSATION: CREATING MORE EFFECTIVE EDUCATION AND OUTREACH
Leaders: Scott Stafford and Christine Brittle, The Baldwin Group, Inc.

This café conversation will bring together coastal managers and others engaged in educational and outreach activities to discuss current audiences, techniques, successes, and challenges. Attendees will collectively develop a catalogue of outreach tools in use and discuss innovative and noteworthy approaches to engage particular audiences. The discussion will aim to uncover new ways that coastal managers can support one another as they develop and implement outreach and education efforts. All participants will brainstorm and learn from one another with the assistance of two co-facilitators.

9:00 to 11:30 a.m. | *Stuart*
CAFÉ CONVERSATION: COASTAL SMART GROWTH AND RESILIENCE
Leader: Sarah van der Schalie, NOAA Office of Ocean and Coastal Resource Management

During the Smart Growth and Resilience café conversation, participants will engage in discussions on how communities can integrate smart growth, hazard resilience, and climate change into community planning. Case studies will be used to generate a list of ideas and recommendations on how coastal communities can improve their resilience using techniques within the "Waterfront and Coastal Smart Growth Elements" and other coastal management approaches.

9:00 to 11:30 a.m. | *Thoreau*
CAFÉ CONVERSATION: MAPPING FOR MANAGERS: BRIDGING THE GAP BETWEEN DATA AND INFORMATION
Leader: Drew Carey, CoastalVision

The goal of this café conversation is to clarify the spatial information needs of ocean planning initiatives. This session will bring ocean mappers, data classifiers, and ocean managers together to identify problems, define gaps between data and information needs, and outline potential solutions. Invited participants will represent a range of geography and experience in each of the stages of developing map-based ocean governance tools. The session will be structured to involve the audience and invited participants to define their needs and identify approaches to narrowing the gap between mapping ocean data and information requirements of managers.

9:00 to 11:30 a.m. | *White Hall*

CAFÉ CONVERSATION: REGIONAL OCEAN GOVERNANCE: FACING THE CHALLENGES OF REGIONAL COLLABORATION

Leader: Kathleen Leyden, Maine Coastal Program

Participants in this session will be given the opportunity to discuss their experiences with regional ocean governance initiatives, including successes, challenges, and lessons learned. Participants will be asked to agree on three to five top challenges to managing ocean and coastal resources at a regional scale. Using facilitated break-out sessions, participants will work together to develop strategies that address these challenges and will share their plans for bringing these strategies back to their regions.

9:00 to 11:30 a.m. | *Whittier*

CAFÉ CONVERSATION: COASTAL MANAGEMENT INFORMATION NEEDS IN A CHANGING CLIMATE: CHALLENGES AND OPPORTUNITIES

Leader: Eileen Shea, NOAA National Climatic Data Center

This café conversation will provide an opportunity for coastal managers and other conference participants to contribute to the efforts of the NOAA National Environmental Satellite, Data, and Information Service's National Climatic Data Center (NCDC) to identify and respond to critical needs for climate information to enhance the resilience of coastal communities. Using both small-group and plenary discussions, participants will engage in a facilitated discussions on climate-related challenges, including information gaps, data products, and information services needed, as well as NCDC's and NOAA's roles in providing them.

9:00 to 10:00 a.m. | *Arlington*

EDUCATING AND INSPIRING COASTAL COMMUNITIES

Moderator: Carole McCauley, Massachusetts Office of Coastal Zone Management

Community Education and Responsible Coastal Zone Use
Shannan Lewinski, I.M. Systems Group at the NOAA Pacific Services Center

Climate as Common Ground: Outreach, Education and Research with Religious Communities to Enhance Literacy and Stewardship in the Waquoit Bay Area
Lisa Greber and Anamarija Frankic, University of Massachusetts, Boston; Joan Muller, Waquoit Bay National Estuarine Research Reserve

Developing Awareness of the Coastline for Families through Uses of Song and Story
Karen Melander-Magoon, D. Min, Bridget Fanning-Ono, Psy. D.

9:00 to 10:00 a.m. | *Berkeley / Clarendon*

COASTAL MANAGEMENT POLICY AND LEGISLATION I

Moderator: John Weber, Massachusetts Office of Coastal Zone Management

Towards a Regional Approach to Maritime Boundary Delineations
So-Min Cheong, University of Kansas; Julien Rochette, Institute for Sustainable Development and International Relations, France

Marine Conservation Agreements – A Practitioner's Toolkit: *www.mcatoolkit.org*
Jay Udelhoven, The Nature Conservancy

Is 'Coastality' Able to Catch the Wave of Change along Coastal Abiotic Environment, at Local Level?
John Kiousopoulos, Spatial Analysis Laboratory, Technological Educational Institute of Athens

9:00 to 10:00 a.m. | *Georgian*

HOLDING THE HIGH GROUND: COASTAL HABITAT IN A CHANGING CLIMATE

Moderator: Pat Montanio, NOAA National Marine Fisheries Service, Office of Habitat Conservation

Panelists:
Bruce Stein, National Wildlife Federation
Nadine Hitchcock, California State Coastal Conservancy *(invited)*
Catherine McCall, Maryland Chesapeake and Coastal Program *(invited)*

9:00 to 10:00 a.m. | *Stanbro*

MANAGING BEACH AND SHOREFRONT DEVELOPMENT

Moderator: Josh Lott, NOAA Office of Ocean and Coastal Resource Management

Managing Beach and Shorefront Development
Christa Rabenold and Josh Lott, NOAA Office of Ocean and Coastal Resource Management

Mapping our Way to Coastal Zone Management: New Jersey Coastal Management Program's Use of Mapped Products to Make Land Use and Regulatory Decisions
Dorina Frizzera, AICP, and John R. D'Agostino, New Jersey Department of Environmental Protection, Coastal Management Office

A Progressive, Balanced Coastal Construction Setback Ordinance on the Island of Kauai, Hawaii: Implementation and Lessons Learned
James F. O'Connell, University of Hawaii Sea Grant College Program, Kauai, Hawaii; Dolan Eversole, University of Hawaii Sea Grant College Program, Oahu, Hawaii; Zoe Norcross-Nu'u, University of Hawaii Sea Grant College Program, Maui, Hawaii

9:00 to 10:00 a.m. | *Terrace*

MONITORING AND FORECASTING COASTAL STORM HAZARDS

Moderator: Patricia Bowie, New York Department of State, Division of Coastal Resources

Forecasting of Damage Level of Maritime Structures Caused by Typhoons Based on Central Pressure Method
Ryusuke Hashimura, Sojo University, Department of EcoDesign, Japan

Determining the Effects of Barrier Island Degradation/Restoration in Terms of Storm Intensity and Track
Tate McAlpin, Alison Sleath Grzegorzewski, and Mary Cialone, U.S. Army Corps of Engineers, Coastal and Hydraulics Laboratory

Monitoring the Effects of Changing Management Practice on the Evolution of a Mixed Gravel and Sand Barrier Beach
Andrew P. Bradbury, Channel Coastal Observatory, United Kingdom

10:00 to 10:30 a.m.

BREAK

10:30 to 11:30 a.m. | *Arlington*

HARMFUL ALGAL BLOOMS MONITORING AND MANAGEMENT

Moderator: Mary Culver, NOAA Coastal Services Center

Transferring New Technologies to Coastal Managers: Progress in Monitoring and Management for Harmful Algal Blooms
Marc Suddleson and Danielle Luttenberg, NOAA Center for Sponsored Coastal Ocean Research

Monitoring Toxic Algae in the Puget Sound Using Quantitative PCR
Sonya T. Dyhrman and Sheean T. Haley, Woods Hole Oceanographic Institution; Jerry A. Borchert, Washington State Department of Health, Shellfish Program; Bob Lona, Washington State Department, Marine Biotoxin Unit; Deana L. Erdner, University of Texas at Austin, Marine Science Institute

Cryptic Blooms: Are Thin Layers the Missing Connection?
Margaret A. McManus, Ph.D., and Grieg F. Steward, Ph.D., University of Hawaii at Manoa, Department of Oceanography; Raphael M Kudela, Ph.D., and Mary W. Silver, Ph.D., University of California Santa Cruz, Ocean Sciences Department; Percy L. Donaghay, Ph.D., and James M. Sullivan, Ph.D., University of Rhode Island, Graduate School of Oceanography

10:30 to 11:30 a.m. | *Berkeley / Clarendon*

COASTAL MANAGEMENT POLICY AND LEGISLATION II

Moderator: Bruce Carlisle, Massachusetts Office of Coastal Zone Management

Beyond Sustainability
Vicki Kelly, Koru Coaching, United Kingdom

Water Quality Trading: Legal Hurdles and Scientific Challenges
Stephanie Showalter, National Sea Grant Law Center, University of Mississippi

Using Appropriate Estuarine Shoreline Stabilization Methods through Policy Revisions and Education in North Carolina
Bonnie M. Bendell, North Carolina Division of Coastal Management

10:30 to 11:30 a.m. | *Georgian*

COASTAL HAZARD PREPAREDNESS AND MITIGATION

Moderator: Matt Nixon, Maine Coastal Program

FEMA's Community Rating System in the Coastal Zone
Josh Lott and Christa Rabenold, NOAA Office of Ocean and Coastal Resource Management; Bill Lesser, Federal Emergency Management Agency; Berry Williams, Berry A. Williams & Associates, Inc.

Effective Partnering to Manage Ocean Resources and Mitigate Coastal Hazards
Marnie Meyer and Ann Ogata-Deal, Hawaii Coastal Zone Management Program

After the Hurricanes: Public Risk Assessments and Policy Support in the U.S. Gulf Coast
Hyung Sam Park, Ph.D., and Arnold Vedlitz, Ph.D., Institute for Science, Technology, and Public Policy, Bush School of Government and Public Service, Texas A&M University

10:30 to 11:30 a.m. | *Stanbro*

ENGAGING COMMUNITIES TO PROMOTE HEALTHIER COASTAL ENVIRONMENTS

Moderator: Hanna Goss, NOAA Coastal Services Center

Volunteer Water Quality Monitoring and its Impact on Changing Coastal Communities
Erin Jackson, Department of Marine Affairs, University of Rhode Island

A Neighborhood Non-Profit's Effort to Improve Harbor Water Quality through the Introduction of Oysters via Surface Disbursal
Andrew T. Jay, Massachusetts Oyster Project for Clean Water

Science in Aid of a Community Adapting to an Unexpected New Tidal Inlet: Chatham, Massachusetts
Graham S. Giese, Provincetown Center for Coastal Studies; Theodore L. Keon, Town of Chatham, Massachusetts; Mark B. Adams, Cape Cod National Seashore, National Park Service

10:30 to 11:30 a.m. | *Terrace*

REDUCING RUNOFF TO IMPROVE WATER QUALITY

Moderator: Arlene O'Donnell, Eastern Research Group, Inc.

It's a Shore Thing – The U.S. EPA New England Beach Strategy
Matthew Liebman and Caitlyn Hunt, U.S. Environmental Protection Agency, New England

Reducing Soil and Nutrient Runoff with Conservation Buffers
Fred L. Snyder, Ohio Sea Grant Extension, Ohio State University; Steve Davis, Natural Resources Conservation Service, U.S. Department of Agriculture; Ed Crawford, Division of Soil and Water Conservation, Ohio Department of Natural Resources; Jeff Mitchell, Farm Service Agency

Bioeconomic Analysis of Nutrient Reduction Strategies in the Lower Mississippi River Basin to Address Hypoxia in the Northern Gulf of Mexico
John V. Westra and Augustus Matekole, Louisiana State University

11:30 a.m. to 1:00 p.m. | *Imperial Ballroom*

POSTER LUNCHEON

Take another opportunity to talk with poster presenters and federal partners during this stand-up luncheon.

1:00 to 2:30 p.m. | *Arlington*

SMART GROWTH AT THE WATER'S EDGE: WATERFRONT AND COASTAL COMMUNITY SMART GROWTH

Moderator: Lynn Desautels, U.S. Environmental Protection Agency, Smart Growth Program

Coastal and Waterfront Smart Growth Elements
Kenneth Walker, NOAA Office of Ocean and Coastal Resource Management

Making the Coastal Smart Growth Connection to Local Climate Change Adaptation a Reality in Massachusetts
Andrea Cooper, Massachusetts Office of Coastal Zone Management

Dennis, Massachusetts, Smart Growth Initiatives: From the Shoreline to the Villages
Daniel Fortier, AICP, Town of Dennis, Massachusetts

1:00 to 2:30 p.m. | *Berkeley / Clarendon*

TOXIC CONTAMINANTS: ENVIRONMENTAL ASSESSMENTS AND HUMAN INTERACTION

Moderator: Christian Krahforst, Massachusetts Office of Coastal Zone Management

Characterizing Social Disruption from Oil Spills and Spill Response
Thomas Webler, Seth Tuler, and Fabienne Lord-Fonseca, Social and Environmental Research Institute

A Contaminant Assessment of Vieques, Puerto Rico
David Whitall, NOAA National Centers for Coastal Ocean Science, Center for Coastal Monitoring and Assessment

Land Use and the Spatial Distribution of Lipophilic Contaminants as Measured in the Blubber of Bottlenose Dolphins (Tursiops Truncatus)
Jeffrey Adams, Todd Speakman, Eric Zolman, and Patricia Fair, NOAA National Centers for Coastal Ocean Science; Gregory Bossart, Harbor Branch Oceanographic Institute

Contaminants in Eggs of Marine and Estuarine Birds Compared to Birds in Lacustrine, Riverine, Terrestrial Habitats, Maine U.S.A.
Wing Goodale and David Evers, BioDiversity Research Institute; Steve Mierzykowski, U.S. Fish and Wildlife Service, Maine Field Office; Brad Allen and Charlie Todd, Maine Department of Inland Fisheries and Wildlife; Linda Welch, U.S. Fish and Wildlife Service, Maine Coastal Islands National Wildlife Refuge; Scott Hall, National Audubon Society; Julie C. Ellis, Tufts University, Cummings School of Veterinary Medicine; Kurunthachalam Kannan, Wadsworth Center, New York State Department of Health; Robert Michener, Boston University Stable Isotope Laboratory

1:00 to 2:30 p.m. | *Georgian*

REGIONAL OCEAN GOVERNANCE: PROGRESS TOWARD ECOSYSTEM-BASED MANAGEMENT IN SELECTED MULTI-STATE APPROACHES

Moderator: Laura Cantral, Meridian Institute, Joint Ocean Commission Initiative

Marine Ecosystem-Based Management Implementation
Kathryn Mengerink, Environmental Law Institute

Northeast Regional Ocean Council
Kathleen Leyden, Maine Coastal Program

West Coat Governors' Agreement on Ocean Health
Brian Baird, California Resources Agency

Gulf of Mexico Alliance
William W. Walker, Mississippi Department of Marine Resources

1:00 to 2:30 p.m. | *Stanbro*

MARINE DEBRIS REGIONAL ISSUES AND ACTION PLANS: A ROADMAP TO SUCCESS

Moderator: Holly Bamford, NOAA Marine Debris Program

Addressing Marine Debris in Hawaii: A Dynamic Statewide Action Plan
Carey Morishige and Kris McElwee, I.M. Systems Group, NOAA Marine Debris Program

An Action Plan to Address Marine Debris in the West Coast:
An Implementation of the West Coast Governors' Agreement on Ocean Health
Nir Barnea, NOAA Marine Debris Program; Eben Schwartz, California Coastal Commission; John Hansen, Washington Department of Natural Resources; Cyreis Schmitt, Oregon Department of Fish and Wildlife

Marine Debris Work in Alaska
Erika Ammann, NOAA Fisheries

1:00 to 2:30 p.m. | *Terrace*

DECISION-SUPPORT TOOLS FOR COASTAL HAZARDS

Moderator: Audra Luscher, NOAA Coastal Services Center

NOAA'S North Atlantic Regional Team Works to Enhance Visualization of Coastal Inundation along the New England Coast
Matthew Pendleton and Doug Marcy, NOAA Coastal Services Center

Connecticut Coastal Hazards Data Portal and Visualization Tool
Joel Johnson, Connecticut Department of Environmental Protection, Office of Long Island Sound Programs

Using the SLAMM Model for Predicting Marsh Response to Sea Level Rise
Robert W. Scarborough, Ph.D., and David B. Carter, Delaware Department of Natural Resources and Environmental Control, Delaware Coastal Programs

Using CanVis to Visualize Coastal Hazards
Hansje Gold-Krueck, The Baldwin Group at the NOAA Coastal Services Center

2:30 to 3:00 p.m.

BREAK

3:00 to 4:30 p.m. | *Arlington*

DEVELOPMENT OF WAVE ENERGY IN OREGON, U.S.A.

Moderator: Holly V. Campbell, JD LLM, Oregon State University

Oregon Marine Energy Planning
Holly V. Campbell, JD LLM, Oregon State University

Catching Fishermen – Engaging Coastal Communities in Ocean Energy Development
Kaety Hildenbrand and Flaxen Conway, Oregon Sea Grant

The San Juan Initiative: An Ecosystem Approach to Protecting Environment and Community
Amy Windrope and Jim Kramer, San Juan Initiative; Pete Stauffer, Surfrider Foundation

Ecological Effects and Research Needs for Alternative Energy off the Oregon Coast
Cathy Tortorici, NOAA National Marine Fisheries Service, Northwest Region

Amending the Regulatory Regime for Ocean Energy Development in Oregon
Paul N. Klarin, Oregon Coastal Management Program

3:00 to 4:30 p.m. | *Georgian*

DEPARTMENT OF THE INTERIOR OCEAN AND COASTAL ACTIVITIES REGIONAL GOVERNANCE

Moderator: Terry Holman, U.S. Department of the Interior

Panelists:
Terry Holman, U.S. Department of the Interior
Dave Russ, U.S. Geological Survey
Jess Weaver, U.S. Geological Survey
Marvin Moriarty, U.S. Fish and Wildlife Service
Fred Piltz, Minerals Management Service
Leon Carl, U.S. Geological Survey

3:00 to 4:30 p.m. | *Stanbro*

BY LAND AND BY SEA:
BLENDING SCIENCE, TECHNOLOGY, AND INFORMATION TO TACKLE MARINE DEBRIS

Moderator: Holly Bamford, NOAA Marine Debris Program

Integrating Marine Debris Prevention with Solid Waste and Wastewater Management
Katherine Weiler, Ashley Greene, and Molly Madden, Ocean and Coastal Protection Division, U.S. Environmental Protection Agency

Gulf of Mexico Marine Debris Project: Addressing the Impacts on Coastal Communities by Hurricanes Katrina and Rita
Nir Barnea, NOAA Office of Response and Restoration, Marine Debris Division; Neal Parry, I.M. Systems Group at the NOAA Marine Debris Division; Peter Murphy, Genwest Systems at the NOAA Marine Debris Division

From Marine Debris Evaluation to Debris Removal: The Benefit of a Sound Scientific Approach
H. Ward Slacum Jr., Versar Incorporated, Ecological Sciences and Analysis Division; Steve Giordano, NOAA Chesapeake Bay Office; Jay Lazar and David Bruce, Versar, Inc., NOAA Chesapeake Bay Office

At-Sea Detection of Derelict Fishing Gear: Utilizing a Novel Approach to Combat Marine Debris
Kris McElwee and Carey Morishige, I.M. Systems Group at NOAA Marine Debris Program; Kitty Courtney, TetraTech EM Inc.

3:00 to 4:30 p.m. | *Terrace*

CLIMATE RISKS AND VULNERABILITIES

Moderator: Christine Feurt, Wells National Estuarine Research Reserve

Analyzing the Impacts of Sea-Level Rise on Coastal Property and Ecological Resources
Jeremy A. Martinich, U.S. Environmental Protection Agency; Daniel E. Hudgens and Ann Jones, Ph.D., Industrial Economics, Inc.

Incorporating the Impacts of Climate Change into Coastal Risk Assessments
Erica L. Harris, Marine Resource Management Program, College of Oceanic and Atmospheric Sciences, Oregon State University; Peter Ruggiero, Ph.D., Department of Geosciences, Oregon State University

Effects of Long-Term Sea-Level Rise and Tropical Storms on Coastal Communities: An Interdisciplinary Integrated Assessment
Travis Franck, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology

Impacts of Climate Change on Seaports: A Survey of Knowledge, Perceptions and Planning Efforts among Port Administrators
Austin Becker, School of Earth Sciences, Stanford University; Martin Fischer, Department of Civil and Environmental Engineering, Stanford University; Meg Caldwell, Center for Ocean Solutions, Stanford University; Ben Schwegler, Walt Disney Imagineering Research and Development/Stanford University

WEDNESDAY

July 22, 2009

COASTAL ZONE 09
Boston, Massachusetts

REVOLUTIONARY TIMES: CATCHING THE WAVE OF CHANGE

8:00 a.m. to 5:00 p.m. | *Mezzanine*
CONFERENCE CHECK-IN

8:00 to 9:00 a.m. | *Imperial Ballroom Foyer*
COFFEE

9:00 to 10:30 a.m. | *Imperial Ballroom*
LOCAL PLENARY

Moderator:
Mr. Deerin Babb-Brott, Assistant Secretary for Oceans and Coastal Zone Management and Director, Massachusetts Office of Coastal Zone Management

Opening Remarks:
Lieutenant Governor Timothy Murray, State of Massachusetts

Panelists:
Susan Tierney, Analysis Group, Massachusetts Ocean Advisory Committee Chair
John Bullard, Executive Director of Sea Education Association, Massachusetts Ocean Advisory Committee Member
Richard Delaney, Executive Director of Provincetown Center for Coastal Studies, Massachusetts Ocean Partnership Governing Board Chair
Paul Diodati, Director of Massachusetts Division of Marine Fisheries, Massachusetts Ocean Advisory Committee Member

"The coastal waters of Massachusetts are our blessing, our birthright, and our legacy." With that statement, on May 28, 2008, Governor Deval L. Patrick signed the Massachusetts Oceans Act. This legislation marked the beginning of a comprehensive ocean management plan created to identify areas for protection and areas for development, particularly development related to renewable energy, aquaculture, and sand extraction for beach nourishment. Join us to learn about this plan from the stakeholders involved in its progress.

10:30 to 11:00 a.m.
BREAK

11:00 a.m. to 12:30 p.m. | *Arlington*
SMART GROWTH: FROM RESEARCH TO OUTREACH
Moderator: Andrea Cooper, Massachusetts Office of Coastal Zone Management

Coastal Smart Growth Elements in Practice: Case Studies from the Great Lakes Region
Rebecca Pearson and Victoria Pebbles, Great Lakes Commission; Heather Stirratt, NOAA Coastal Services Center

Are They Ready? Determining Whether or Not Towns are Prepared to Shift from Town-Based Land Use Master Planning to Watershed Master Planning
Erika Washburn, Ph.D. Candidate, University of New Hampshire; Steve Miller, Great Bay National Estuarine Research Reserve, Coastal Training Program

South Carolina's Shoreline Change Advisory Committee: Research Priorities and Policy Options for the Future
Matthew J. Slagel, Earth Resources Technology Inc. at the South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management; Braxton C. Davis, South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management

Using Community Growth Scenarios to Evaluate Potential Water Quality Impacts
Jesse Schomberg, University of Minnesota Sea Grant; Valerie Brady, Ph.D., and Gerry Sjerven, University of Minnesota, Duluth, Natural Resources Research Institute

11:00 a.m. to 12:30 p.m. | *Berkeley / Clarendon*

COASTAL AND OCEAN OBSERVING SYSTEMS: APPROACHES AND APPLICATIONS
Moderator: Anne Ball, NOAA Coastal Services Center

Applicability of the Integrated Ocean Observing System for Coastal Management: Responding to Data and Information Needs
Josie Quintrell, National Federation of Regional Associations; Kate Zultner, Coastal States Organization

Building Coastal Community Support for Observing Systems: NOAA "Smart Buoys" and the Captain John Smith Chesapeake National Historic Trail
Andrew W. Larkin, NOAA Chesapeake Bay Office

Fishermen in Ocean Observing Research: Assessing the Affordability and Feasibility of Working with Oregon Commercial Crab Fishermen to Deploy Scientific Instrumentation
Jeremy L. Childress, R. Kipp Shearman, Ph.D., and Michael Harte, Ph.D., Oregon State University

An Interagency Collaboration toward Improving Integration of Water Quality Data
Rob Ragsdale, Ami Kang, Jeff de La Beaujardiere, and Charles Alexander, NOAA Integrated Ocean Observing Systems

11:00 a.m. to 12:30 p.m. | *Georgian*

CLIMATE CHANGE ON THE COAST: PLAN TODAY TO ADAPT TOMORROW
Moderator: Matt Gove, NOAA Office of Ocean and Coastal Resource Management

Challenges for Coastal Managers in Developing Adaptation Plans
Julia Wyman, Coastal States Organization

Mainstreaming Adaptation – Applying a Climate "Lens" to Coastal Management
Pam Rubinoff, Rhode Island Sea Grant, Coastal Resources Center

Designing for Rising Tides: Results of an International Competition for Ideas Responding to Sea Level Rise in San Francisco Bay and Beyond
Brad McCrea, San Francisco Bay Conservation and Development Commission

11:00 a.m. to 12:30 p.m. | *Stanbro*

POLICY AND PLANNING STRATEGIES SUPPORTING THE FUTURE OF OCEAN MANAGEMENT
Moderator: Dale Blanton, Oregon Coastal Management Program

The Rhode Island Ocean Special Area Management Plan
Jennifer McCann, University of Rhode Island, Coastal Resources Center

North Carolina's Emerging Ocean Policy Challenges
Lisa C. Schiavinato, North Carolina Sea Grant and North Carolina Coastal Resources Law, Planning, and Policy Center; Joseph K. Kalo, University of North Carolina School of Law and North Carolina Coastal Resources Law, Planning, and Policy Center

Coastal Spatial Planning of Uninhabited Islands in Korea
Jungho Nam, Keun-Hyung Yook, and Heejung Choi, Ocean and Coastal Policy Research Department, Korea Maritime Institute; Daeseok Kang, Department of Ecological Engineering, Pukyong National University

11:00 a.m. to 12:30 p.m. | *Terrace*

COASTAL FLOODING: IDENTIFYING AND ASSESSING CURRENT AND FUTURE RISKS
Moderator: Mark Crowell, Federal Emergency Management Agency

An Estimate of the U.S. Population Subject to the One-Percent Annual Change (100-Year) Coastal Flood Hazard
Mark Crowell, Federal Emergency Management Agency; Kevin Coulton, Watershed Concepts, AECOM Water

Risk Reduction Measures for Reducing Impacts of Coastal Storms on the Built Environment
John Ingargiola, Federal Emergency Management Agency

Evaluating the Impact of Climate Change on the National Flood Insurance Program
David Divoky, Watershed Concepts, AECOM Water; Mark Crowell, Federal Emergency Management Agency

Improving FEMA's Coastal Floodplain Mapping: Primary Frontal Dune and Coastal Zone Assessments for the NFIP
Jonathan E. Westcott, P.E., Federal Emergency Management Agency; Darryl Hatheway, AECOM Water

12:30 to 2:00 p.m.

LUNCH ON YOUR OWN

2:00 to 4:30 p.m. | *St. James*

CAFÉ CONVERSATION: BUILDING COLLABORATION BETWEEN COASTAL MANAGEMENT AND FEMA'S COMMUNITY RATING SYSTEM: CHANGING THE COASTAL ELEMENTS
Leader: Bill Lesser, Federal Emergency Management Agency

The Community Rating System (CRS) is a voluntary program which encourages communities that participate in the National Flood Insurance Program (NFIP) to implement floodplain management techniques that are above the minimum NFIP standards. There are many overlaps between CRS standards and coastal zone management principles, including maintaining coastal floodplains in a natural, undeveloped state, implementing erosion-based coastal development setback programs, greater protection of coastal dunes, and requiring disclosure of coastal flood risks in real estate transactions. Currently, these and other CRS coastal elements are being revised, and this café conversation, led by FEMA and NOAA officials, will provide a forum for coastal managers to provide meaningful input on how the CRS should be revised to encourage more progressive coastal floodplain management. Participants will hear an overview of the CRS and the specific coastal elements, and then, aided by facilitators, will break into small groups to discuss and decide on specific recommendations. Output from this session will be collected by FEMA for inclusion in the revised CRS coastal standards.

2:00 to 4:30 p.m. | *Stuart*

CAFÉ CONVERSATION: BUILDING IN CLIMATE CHANGE EFFECTS TO URBAN WATERFRONT DEVELOPMENT POLICIES

Leader: Leslie-Ann McGee, Waquoit Bay National Estuarine Research Reserve

Now that most Americans understand that coastal areas will feel effects of climate change such as relative sea level rise and increased frequency and intensity of storms despite future mitigation efforts, it is time to build consideration of these effects into urban waterfront planning policies. Climate change adaptation will require the production or packaging of scientific data, risk and socio-economic assessments, mapping and modeling, science transfer to policy, planning, technical capacity, and coalition-building, as well as regulatory and technical tools for implementation strategies. Results of this conversation will be recommendations of practical procedures and means for taking climate change into account in urban planning and impact assessment.

2:00 to 4:30 p.m. | *Thoreau*

CAFÉ CONVERSATION: HOW CAN GEOSS CONNECT COASTAL ZONE OBSERVATIONS WITH COASTAL ZONE CONCERNS?

Leader: Joshua Lieberman, Ph.D., Traverse Technologies/Open Geospatial Consortium

Coastal zones in many ways epitomize the interoperability issues that the Global Earth Observation System of Systems (GEOSS) must overcome to realize its mission. Participants in this café conversation will be challenged to pose questions of Earth observation interoperability, comparability, discovery, and integration, and then consider how these questions can be addressed by developing specific capabilities within the framework provided by GEOSS. This is an opportunity for the coastal zone community to both learn more about GEOSS and provide feedback at a critical early phase of operational deployment.

2:00 to 4:30 p.m. | *White Hall*

CAFÉ CONVERSATION: MASSACHUSETTS OCEAN MANAGEMENT PLANNING

Leader: Stephanie Moura, Massachusetts Ocean Partnership

While the ink is still drying on Massachusetts' first-in-the-nation draft integrated ocean management plan, join the Executive Office of Energy and Environmental Affairs and the Massachusetts Ocean Partnership for an interactive dialogue about the commonwealth's ocean management planning experience. Discussion will highlight key challenges and lessons learned in three core aspects: science integration, stakeholder engagement, and the public-private collaboration model. Participants will come away with pragmatic information to support their own marine spatial planning work and will connect with colleagues facing similar challenges.

2:00 to 4:30 p.m. | *Whittier*

CAFÉ CONVERSATION: THE NEXT GENERATION OF COASTAL MANAGEMENT: BUILDING LEADERSHIP CAPACITY

Leader: Corey Riley, NOAA Office of Ocean and Coastal Resource Management, Cooperative Institute for Coastal and Estuarine Environmental Technology

This café conversation will build upon a session from Coastal Zone 07, which discussed how to transition to a new generation of coastal managers. Participants will identify actions to help solve the common gaps and challenges. Breakout groups led by facilitators from academia, government, and nonprofit organizations will contribute practical ideas to make clear progress on addressing topics such as establishing leadership fellowships or mid-career training opportunities; working with academic programs to ensure the essential skills identified are taught to graduate students; providing support to ensure effective succession planning; and identifying useful networking tools to address workforce management needs, etc. Facilitators and key partners will lead the generation of action items and identification of next steps and responsible parties. This café conversation will be a working session to move the important dialogue about the future of coastal management into actionable steps and clear outcomes.

2:00 to 3:30 p.m. | *Arlington*

SPATIAL DATA AND TOOLS OF THE TRADE

Moderator: Chris Kinkade, NOAA Coastal Services Center

Ocean Information Products in Support of Oregon's Marine Spatial Planning Processes

Andy S. Lanier, Oregon Department of Land Conservation and Development

Coastal Resilience: Using Marine Spatial Planning to Support Management Decisions That Address the Needs of Natural and Human Communities

Zach Ferdana, The Nature Conservancy

Marine Spatial Planning in California: The Use of Common Mapping and Data Gathering Protocols to Improve Agency Coordination

Matthew Armsby, Caitlin Crain, and Margaret Caldwell, Center for Ocean Solutions; Ben Halpern, National Center for Ecological Analysis and Synthesis; Fiorenza Micheli, Hopkins Marine Station, Stanford University; Deborah Sivas, Stanford Law School

The Human Dimension in Waterway Resource Management: The Florida Perspective

Charles Sidman and Russell Watkins, Florida Sea Grant College Program; William Sargent, Florida Fish and Wildlife Conservation Commission; Robert Swett, School of Forest Resources and Conservation, University of Florida; Laila Racevskis, Food and Resource Economics Department, University of Florida

2:00 to 3:30 p.m. | *Berkeley / Clarendon*

WORKING TOGETHER FOR HABITAT RESTORATION IN THE NARROW RIVER (PETTAQUAMSCUTT RIVER ESTUARY)

Moderator: Veronica M. Berounsky, Graduate School of Oceanography, University of Rhode Island

What You Can Learn from a Watershed Association, Volunteer Monitors, and Graduate Students: Grass Roots Monitoring Results and the Call for Restoration in the Narrow River (Pettaquamscutt Estuary) in Rhode Island

Veronica M. Berounsky, Graduate School of Oceanography, University of Rhode Island

The State's Role in Restoring the Narrow River

Elizabeth Scott, Rhode Island Department of Environmental Management, Office of Water Resources

Narrow River Stormwater Abatement Study and Implementation

M. James Riordan, AICP, Fuss & O'Neill, Inc.

Planning Estuarine Ecosystem Restoration in the Narrow River

Lawrence R. Oliver, U.S. Army Corps of Engineers, New England District

2:00 to 3:30 p.m. | *Georgian*

THE STORMSMART NETWORK: HOW LOCAL ACTION ACROSS THE U.S. IS PREPARING COMMUNITIES FOR CLIMATE CHANGE

Moderator: Julia Knisel, Massachusetts Office of Coastal Zone Management

No Adverse Impacts and How it Applies to Decision-Makers Dealing with Floodplains and Climate Change

Edward A. Thomas, Esq., Michael Baker Jr., Inc.

How Massachusetts' Communities are Getting Ready for Climate Change Impacts

Daniella Hirschfeld, Massachusetts Office of Coastal Zone Management

Creating a Network – Linking Local Change

Wesley Shaw, Blue Urchin Consulting

2:00 to 3:30 p.m. | *Stanbro*

EDUCATION AND CAPACITY BUILDING IN COASTAL COMMUNITIES

Moderator: Kris Tronvig, NOAA Center for Operational Oceanographic Products and Services

Adaptive Training Methodologies for Dynamic Coastal Communities
Lisa Auermuller, Jacques Cousteau National Estuarine Research Reserve; Rebekah Walker-Szivak, ACE Basin National Estuarine Research Reserve

Connecting More Effectively with the Public for Ocean Literacy and Conservation: Findings from The Ocean Project National Survey
Bill Mott, The Ocean Project

Coastal Planning in American Samoa through Innovation, Education, Erosion Hazard Analysis, and Sediment Management
Jessica H. Podoski and Thomas D. Smith, U.S. Army Corps of Engineers, Honolulu District

Water, People, and Nature in a Tanzanian Coastal Watershed: Fostering Ecosystem and Social Ties
Donald D. Robadue, Jr., and Jim Tobey, University of Rhode Island; Appa Mandari and Jeremiah Daffa, Tanzania Coastal Management Partnership

2:00 to 3:30 p.m. | *Terrace*

INTRODUCING THE INTERNATIONAL COASTAL ATLAS NETWORK (ICAN)

Moderator: Dawn Wright, Oregon State University

Opening Remarks: Overview and History of ICAN
Dawn Wright, Oregon State University

U.S. West Coast Perspective on ICAN
Tanya Haddad, Oregon Coastal Management Program

U.S. East Coast Perspective on ICAN
Marcia Berman, Virginia Institute of Marine Science

U.S. Great Lakes Perspective on ICAN
David Hart, University of Wisconsin Sea Grant Institute

ICAN and the Digital Coast Initiative
Tony LaVoi, NOAA Coastal Services Center

Voicing Concerns about Regional Climate Impacts and Community Vulnerability on the Oregon Coast
Tim Nyerges, University of Washington

3:30 to 4:00 p.m.

BREAK

4:00 to 5:00 p.m. | *Arlington*

TECHNOLOGY AND PARTNERSHIPS IN CORAL REEF MANAGEMENT

Moderator: April Turner, South Carolina Sea Grant Consortium

Blending Space-Based Technology with Community-Based Knowledge to Address Coral Reef Management
Jamie Carter, The Baldwin Group at the NOAA Pacific Services Center; Dave Eslinger, NOAA Coastal Services Center; Danielle Bamford, The Baldwin Group at the NOAA Coastal Services Center; Christine Feinholz, I.M. Systems Group at the NOAA Pacific Services Center; Chris Robinson and Keil Schmid, I.M. Systems Group at the NOAA Coastal Services Center

Assessing the Effects of Agricultural Conservation Practices on a Coral Reef Ecosystem: A NOAA and USDA Partnership
Adam G. Zitello, David R. Whitall, Ph.D., Mark E. Monaco, Ph.D., and John D. Christensen, NOAA National Centers for Coastal Ocean Science, Center for Coastal Monitoring and Assessment

Two Samoas: Taking an Archipelago-Wide Approach to Addressing Management and Conservation Issues
Doug Harper, American Samoa Department of Commerce

4:00 to 5:00 p.m. | *Berkeley / Clarendon*

INTEGRATED COASTAL MANAGEMENT: LESSONS LEARNED

Moderator: Nell Codner, NOAA Coastal Services Center

Small Island Planning – Integrating CZM in Paradise
Steve Tilley, Zoning Office, Saipan, Commonwealth of the Northern Mariana Islands

Ecuador's Coastal Resources Management Program (1985-2008): Two Decades of Integrated Coastal Management and Lessons Learned
Maria D. Herrera, Graduate School of Oceanography, Coastal Resources Center, University of Rhode Island; Eduardo F. Molina, Ecuador Coastal Management Program (PRMC), Ministerio del Ambiente

Land Acquisition as a Tool for Erosion, Sea-Level Rise and Climate Change Problems: Ebro Delta Case Study
Jordi Galofré, Ministry of the Environment and Rural and Marine Affairs, Spain

4:00 to 5:00 p.m. | *Georgian*

COLLABORATIVE APPROACHES TO REGIONAL OCEAN GOVERNANCE

Moderator: Tricia Ryan, NOAA Coastal Services Center

Regional Ocean Governance: Leveraging the Efforts
Robbin E. Peach, McCormack Graduate School of Policy Studies, University of Massachusetts, Boston; Michael K. Orbach, School of the Environment and Earth Sciences, Duke University

Coastal and Ecosystem Restoration in Complex Multi-Jurisdictional Settings: Case Studies in Institutional Innovation
Michael J. Donahue, Ph.D., National Coastal and Ecosystem Restoration Practice, URS Corporation

An Action Plan to Address Sustainable Economic Development in Coastal Communities: Implementation of the West Coast Governors' Agreement on Ocean Health
Lynn Longan, Washington Community, Trade and Development; Chris Claflin, Oregon Economic and Community Development Department; Mary Small, California Coastal Conservancy; Stephen Freese, Ph.D., NOAA National Marine Fisheries Service; Valerie Termini, California Ocean Protection Council

4:00 to 5:00 p.m. | *Stanbro*

TOOLS AND APPROACHES FOR ENVIRONMENTAL RESTORATION

Moderator: Hunt Durey, Massachusetts Office of Coastal Zone Management

Mapping the Potential Distribution of Shallow Subtidal Eelgrass in the Greater Puget Sound Region of Washington State
Jeremy Davies, Anne Guerry, and Mary Ruckelshaus, Northwest Fisheries Science Center, NOAA Fisheries

Restoration of Tidally Restricted Salt Marshes at Rumney Marsh, Revere, Massachusetts: Balancing Flood Protection with Marsh Restoration by Use of Self-Regulating Tidegates
Edward L. Reiner, U.S. Environmental Protection Agency, New England District

Classifying South Carolina's Coastal Waterbodies for Additional Protection
Shawn Kiernan, AICP, South Carolina Department of Health and Environmental Control, Office of Ocean and Coastal Resource Management; Rob Hudson, AICP, GISP, Photo Science, Inc.

4:00 to 5:00 p.m. | *Terrace*

ECOLOGICAL FORECASTING: PROVIDING PREDICTIONS FOR ECOSYSTEM-BASED MANAGEMENT

Moderator: Elizabeth Turner, NOAA National Ocean Service

Towards the Future of Environmental Modeling at NOAA: Including Marine Ecological Forecasting
Marie Colton, Ph.D., NOAA Great Lakes Environmental Research Lab

Forecasting to Manage: Successes and Challenges of a Collaboratory for the Columbia River Estuary and Plume
Antonio Baptista, Ph.D., Science and Technology Center for Coastal Margin Observation

Modeling the Gulf of Maine for Ecosystem-Based Management
Robert Beardsley, Ph.D., Woods Hole Oceanographic Institute

7:00 to 10:00 p.m. | *New England Aquarium*

AQUARIUM RECEPTION

Join our non-federal partners at the New England Aquarium to learn about their coastal management tools and services. As you network with colleagues, you will also be able to experience all the aquarium has to offer—from the African penguins, to Myrtle the green sea turtle, to exhibits on the Amazon rainforest and Pacific reef coral community. Heavy hors d'oeuvres and a cash bar will be provided.

Transportation to the aquarium will be provided beginning at 6:45 p.m. Meet in the hotel lobby, and don't forget your name badge and ticket!

THURSDAY

July 23, 2009

COASTAL ZONE 09
Boston, Massachusetts

REVOLUTIONARY TIMES: CATCHING THE WAVE OF CHANGE

8:00 a.m. to 3:30 p.m. | *Mezzanine*
CONFERENCE CHECK-IN

8:00 to 9:00 a.m. | *Imperial Ballroom Foyer*
COFFEE

9:00 to 10:30 a.m. | *Arlington*
OFFSHORE ALTERNATIVE ENERGY DEVELOPMENT: STATE NEEDS AND PROACTIVE APPROACHES
Moderator: Carleigh Trappe, NOAA Office of Ocean and Coastal Resource Management

Alternative Energy Development in the Coastal States
Kate Zultner, Coastal States Organization

Massachusetts Ocean Management Plan
John Weber, Massachusetts Office of Coastal Zone Management

Wind Energy in Lake Erie: Ohio's Planning and Regulatory Framework
Ohio Department of Natural Resources, Office of Coastal Management

Alternative Energy on the Outer Continental Shelf
Will Waskes, Minerals Management Service, Office of Offshore Alternative Energy Programs

9:00 to 10:30 a.m. | *Berkeley / Clarendon*
COASTAL ENVIRONMENTAL SENSING NETWORKS I: SENSOR DEVICES, NETWORKS, CYBER-INFRASTRUCTURE
Moderator: Robert D. Stevenson, University of Massachusetts, Boston

Developing Cyber-Infrastructure for Coastal Applications: Forming the Teams and Adapting the Standards
Philip Bogden and Tom Shyka, Gulf of Maine Ocean Observing System, Inc.

Using Simulation to Design Marine Acoustic Monitoring Systems
David C. Mountain and David Anderson, Boston University Department of Biomedical Engineering

Design and Implementation of an Embedded Sensor Network for the Observation and Research of Harmful Algal Blooms in Southern California Coastal Waters
Ryan N. Smith, Robotic Embedded Systems Laboratory, University of Southern California

Information Agents for Environment Sensor Networks
Alex Rogers, University of South Hampton

9:00 to 10:30 a.m. | *Georgian*

CLIMATE CHANGE ADAPTATION STRATEGIES

Moderator: Jennifer Pagach, Connecticut Department of Environmental Protection, Office of Long Island Sound Programs

Coastal Protection of Lowlands: Are Alternative Strategies Purposeful for Changing Climate?
Hanz D. Niemeyer, Coastal Research Station of the Lower Saxon State Board for Ecology

Designing Coastal Governance to Promote Resiliency to Climate Change
Margaret Peloso, Ph.D. Candidate, Duke University, J.D., 2009, Stanford Law School; Meg Caldwell, Center for Ocean Solutions, Stanford Environmental and Natural Resources Law and Policy Program

Developing a Regional Strategy for Climate Change and Sea Level Rise
Will Travis, San Francisco Bay Conservation and Development Commission

What Do You Do When Your Communities Could Vanish Overnight? The State of Alaska's Response to Six Communities in Peril from Climate Change
Michael Black, Alaska Immediate Action Work Group (IAWG) and Department of Commerce, Community and Economic Development; Patricia Opheen, IAWG and U.S. Army Corps of Engineers Alaska District; John Madden, IAWG and Alaska Department of Homeland Security and Emergency Management; Steve Ivanof; Amy Holman, IAWG and NOAA Alaska Regional Collaboration Team; Meg King, IAWG and Resource Solutions, Office of Community Partnerships, University of Alaska Anchorage

9:00 to 10:30 a.m. | *Stanbro*

ESTABLISHING HUMAN AND ECOLOGICAL GOALS FOR ECOSYSTEM-BASED MANAGEMENT: APPLIED CASE STUDIES ALONG THE WEST COAST

Moderator: Linwood Pendleton, The Ocean Foundation

Panelists:
Dean E. Wendt, Ph.D., California Polytechnic State University
Bryan Largay, Elkhorn Slough National Estuarine Research Reserve
Susan Schlosser, University of California Sea Grant Extension
Pete Stauffer, Surfrider Foundation

9:00 to 10:30 a.m. | *Terrace*

HOW TO ARRIVE AT A REGIONAL VISION OF OCEAN GOVERNANCE USING MARINE SPATIAL PLANNING TECHNIQUES

Moderator: Leslie-Ann McGee, Waquoit Bay National Estuarine Research Reserve

Panelists:
Leslie-Ann McGee, Waquoit Bay National Estuarine Research Reserve
Betsy Nicholson, NOAA Coastal Services Center
Michael Orbach, Duke University
Sally Yozell, The Nature Conservancy

10:30 to 11:00 a.m.

BREAK

11:00 a.m. to 12:30 p.m. | *Arlington*

WORKING WATERFRONTS

Moderator: Dorina Frizzera, New Jersey Coastal Management Program

Preserving Seafood-Related Working Waterfront through Strategic Decision-Making Processes
Gilbert Sylvia, Coastal Oregon Marine Experiment Station, Oregon State University; Heather Mann, Seafood Consumer Center; Laurel Kellner, Marine Resource Management, Oregon State University; Jeff Feldner, Oregon State University Extension Service; Susan Hanna, Agricultural and Resource Economics, Oregon State University; Michael Dickerson, Adam Zimmerman, and Margret Kirby, Shorebank Enterprise Cascadia

Maine's Working Waterfront Access Pilot Program
Hugh Cowperthwaite, Coastal Enterprises, Inc.

Waterfront Land Use Change and Marine Resource Conditions: The Case of New Bedford/Fairhaven Harbor
Michelle E. Portman and Di Jin, Marine Policy Center, Woods Hole Oceanographic Institution; Eric Thunberg, NOAA National Marine Fisheries Service, Northeast Fisheries Science Center

The Fate of Working Waterfronts after Hurricane Katrina: The Alabama Experience
Jody A. Thompson, Auburn University Marine Extension and Research Center/Alabama Sea Grant Extension

11:00 a.m. to 12:30 p.m. | *Berkeley / Clarendon*

COASTAL ENVIRONMENTAL SENSING NETWORKS II: SENSOR APPLICATIONS

Moderator: Robert F. Chen, University of Massachusetts, Boston

Development of Autonomous Chemical Sensors for Ocean Carbon Cycle Research and Monitoring
Mike DeGrandpre, University of Montana

Micro-Mobile Sensor Networks
Rajan Zambre, CEO/CTO, Erallo Technologies

Application of Dissolved Organic Matter Fluorescence to Monitor Ballast Water Exchange Compliance in Commercial Vessels
Jennifer Boehme, Christopher Brown, Tim Mullady, Monaca Noble, Darrick Sparks, George Smith, and Greg Ruiz, Smithsonian Environmental Research Center; Kate Murphy, School of Civil and Environmental Engineering, University of New South Wales

VoxNet: A Distributed Acoustic Sensing Network for Localizing Animal Calls
Lewis Girod, Massachusetts Institute of Technology

11:00 a.m. to 12:30 p.m. | *Georgian*

COMMUNICATING CLIMATE CHANGE IMPACTS AND RISKS TO COMMUNITIES: LESSONS LEARNED

Moderator: Sunshine Menezes, Metcalf Institute for Marine and Environmental Reporting

Insurance Industry Strategies for Loss Prevention
Diana L. McClure, Institute for Business and Home Safety

How Newspapers Communicate Climate Change
Beth Daley, The Boston Globe

Addressing Barriers to Coastal Community Resilience: Research and Outreach in Maine and Oregon
Kristen Grant, Maine Sea Grant and University of Maine Cooperative Extension

11:00 a.m. to 12:30 p.m. | *Stanbro*

CONSERVATION PLANNING

Moderator: Katie Dolan, The Nature Conservancy

Building Support for Coastal Conservation: Small Organizations and Big Plans
Tin Smith and Susan Bickford, Wells National Estuarine Research Reserve

E-Estuary: A Decision Support System for Coastal Water and Ecosystem Management in the U.S.A.
Naomi Detenbeck, Marilyn Buchholtz ten Brink, Marguerite Pelletier, Mohammed Abdelrman, Steve Rego, and Jim Latimer, U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division

Cooperative Habitat Protection Partnerships and a Pilot Effort in Mobile Bay, Alabama
Roberta Arena Swann, Mobile Bay National Estuary Program; Carl Ferraro, Alabama Department of Coastal and Natural Resources; Kathi Rodrigues, NOAA Office of Habitat Conservation; Mary Austill Lott and Jay Udelhoven, The Nature Conservancy; Lauren Long, NOAA Coastal Services Center

Promoting Alternative Mooring Technologies to Protect Eelgrass Habitat
Christopher Boelke, NOAA National Marine Fisheries Service

11:00 a.m. to 12:30 p.m. | *Terrace*

MEASURING AND COMMUNICATING THE VALUE OF COLLABORATION IN COASTAL MANAGEMENT

Moderator: Kate Barba, NOAA Office of Ocean and Coastal Resource Management, National Policy and Evaluation Division

SLOSEA (San Luis Obispo Science and Ecosystem Alliance): A Boundary Organization Helping Develop Marine EBM on the Coast of Central California
Dean E. Wendt, Ph.D., California Polytechnic State University

Enhancing Resilience in Community-Based Planning in Hawaii
Catherine A. Courtney, Tetra Tech EM Inc.

Barriers and Bridges to Ecosystem Management – Using Collaborative Learning to Define and Measure Progress
Christine Feurt, Wells National Estuarine Research Reserve

Humboldt Bay Initiative: Adaptive Management in a Changing World
M. Wheetley and Susan Schlosser, University of California Sea Grant Extension

12:30 to 1:45 p.m. | *Imperial Ballroom*

NETWORKING LUNCHEON AND MAGOON AWARD

Visit and network with new friends and colleagues during this sit-down luncheon and hear about the winner of the Orville T. Magoon Award for Service.

2:00 to 3:00 p.m. | *Arlington*

RECENT LEGISLATIVE AND POLICY DEVELOPMENTS FOR NOAA'S CONSERVATION AND RESTORATION PROGRAMS: ARRA, CELCP, AND CZMA

Moderator: Emily Woglom, The Nature Conservancy *(invited)*

Panelists:
Chris Doley, NOAA National Marine Fisheries Service, Office of Habitat Conservation
Ralph Cantral, NOAA Office of Ocean and Coastal Resource Management
Elaine Vaudreuil, NOAA Office of Ocean and Coastal Resource Management

2:00 to 3:00 p.m. | *Berkeley / Clarendon*

COASTAL ENVIRONMENTAL SENSING NETWORKS III: POLICY AND MANAGEMENT-RELATED INFORMATION AND TECHNOLOGY NEEDS

Moderator: John A. Duff, University of Massachusetts, Boston

Current and Future Environmental Sensing Applications for Coastal Zone Management
Bruce K. Carlisle, Massachusetts Office of Coastal Zone Management

Monitoring for Change in the Stellwagen Bank National Marine Sanctuary
Ben Cowie-Haskell, NOAA Office of National Marine Sanctuaries, Stellwagen Bank National Marine Sanctuary

Landscape Studies and their Integration into Decision-Making Databases – A View from the "Field"
Allen M Gontz, University of Massachusetts, Boston

2:00 to 3:00 p.m. | *Georgian*

CLIMATE-READY ESTUARIES: AN ADAPTATION TOOLKIT TO GET READY FOR A CHANGING CLIMATE

Moderator: John Wilson, U.S. Environmental Protection Agency

Climate Change Adaptation in a Coastal New Hampshire Watershed: Improving Culvert Infrastructure for Increased Storm Frequency and Intensity
Derek Sowers, Piscataqua Region Estuaries Partnership; Michael Simpson and Colin Lawson, Antioch University; Latham Stack, Syntectic International; Thomas Crosslin, Climate Techniques

Estimating the Costs to Replace Lost Ecological Services Due to Sea Level Rise in the Delaware Estuary
Ann Shellenbarger Jones, Industrial Economics, Inc.

Responding To Rising Tides: Vulnerability Assessment and Policy Response to Sea Level Rise in San Francisco Bay
Steve Goldbeck, San Francisco Bay Conservation and Development Commission

2:00 to 3:00 p.m | *Stanbro*

WATER QUALITY: DISCHARGERS AND NUTRIENT MONITORING

Moderator: Zack Steele, Wells National Estuarine Research Reserve

No Discharge Areas (NDAs): Eliminating the Last Major Sources of Sewage during Dry Weather
Regina Lyons, Office of Ecosystem Protection, U.S. Environmental Protection Agency, New England Region

Best Management Practices and Guidelines for Green Boston Harbor, Massachusetts, USA
Anamarija Frankic, Carrie Schuman, and Dorothy Bassett, University of Massachusetts, Boston

The Maine Healthy Beaches Program: Integrating Science and Education for Better Water Quality
Peter Slovinsky, Maine Geological Survey; Paula Thomson, Maine Coastal Program; Todd Janeski, Virginia Commonwealth University; Esperanza Stancioff, University of Maine Cooperative Extension

2:00 to 3:00 p.m. | *Terrace*

APPLYING INNOVATIVE LAND USE TECHNOLOGY IN COASTAL COMMUNITIES

Moderator: Kalle Matso, Cooperative Institute of Coastal and Estuarine Environmental Technology, University of New Hampshire

Applying Innovative Land Use Technology in Coastal Communities
Kalle Matso, Cooperative Institute of Coastal and Estuarine Environmental Technology, University of New Hampshire

Dissemination and Use of a Web-Based Tool to Support Natural Resource-Based Planning at the Local Level
Chester L. Arnold, Jr., Center for Land Use Education and Research, University of Connecticut; David Dickson, Emily Wilson, and John Rozum, NEMO

Collaborative Learning and Land Use Tools to Support Community-Based Ecosystem Management
Christine Feurt, Wells National Estuarine Research Reserve

3:00 to 3:30 p.m.
BREAK

3:30 to 4:30 p.m. | *Arlington*
COMMUNICATING STORMWATER RESEARCH TO A DIVERSE SET OF STAKEHOLDERS
Moderator: Richard Langan, Cooperative Institute of Coastal and Estuarine Environmental Technology

Regional Results from User-Driven Outreach and Education Strategies at the UNH Stormwater Center
James J. Houle, Robert M. Roseen, and Thomas P. Ballestero, University of New Hampshire Stormwater Center

Local Land Use Decision Makers as the Bottom Line: Tales from the National NEMO Network
Chester L. Arnold, Jr., Center for Land Use Education and Research, University of Connecticut; David Dickson, National NEMO Network

California Water and Land Use Partnership: Partnering across the State of California and Providing Tools for Local Decision Makers
Susan F. Zaleski, University of Southern California Sea Grant Program; Al Wanger, California Coastal Commission; Timothy Lawrence, California Sea Grant Program, University of California, Davis

3:30 to 4:30 p.m. | *Berkeley / Clarendon*
TECHNOLOGY AND INFORMATION MANAGEMENT
Moderator: Joel Johnson, Connecticut Department of Environmental Protection, Office of Long Island Sound Programs

How Digital Is What Divides Us? The Role of Information and Communication Technology (ICT) in Support of Regional Networks of Leaders Working toward Sustainable Coastal Communities and Ecosystems
Bob Bowen and Donald D. Robadue, Jr., Coastal Resources Center, University of Rhode Island

COINAtlantic, A Network of People and Technology in Support of Coastalshed Management
M.J.A. Butler, International Ocean Institute; P.R. Boudreau and C. LeBlanc, ACZISC Secretariat; J. Boxall, Geographic Information Centre, Dalhousie University; C.W. MacDonald, GeoNova, Province of Nova Scotia

Do Ethics Matter? Addressing Unforeseen Ethical, Legal, and Regulatory Implications of New Ocean Science Technology
Edward R. Urban, Jr., Ph.D., Scientific Committee on Oceanic Research (SCOR), University of Delaware, College of Marine and Earth Studies; Melissa A. Brodeur, U.S. Census of Marine Life Program Office, Consortium for Ocean Leadership

3:30 to 4:30 p.m. | *Georgian*
PROTECT OR RETREAT: CASE STUDIES OF COASTAL HAZARD RESPONSE STRATEGIES
Moderator: Deborah Purce, Washington State Department of Ecology

Climate Change Adaptation Strategies in the Spanish Coast: Ebro Delta Case Study
Jordi Galofré, Ministry of the Environment and Rural and Marine Affairs

Beach Protection Policy in the Southeastern Coastal Zone
Sarah Skigen, Town of Hilton Head Island, South Carolina

Managed Retreat in Maui, Hawaii
Thorne Abbott, Maui County Planning Department; Zoe Norcross-Nu'u, University of Hawaii Sea Grant

3:30 to 4:30 p.m. | *Stanbro*
DEVELOPING COASTAL LIVELIHOODS FOR COASTAL BIODIVERSITY CONSERVATION: LESSONS FROM THE SUSTAINABLE COASTAL COMMUNITIES AND ECOSYSTEMS PROJECT
Moderator: Elin Torell, Ph.D., University of Rhode Island, Coastal Resources Center

Moderating our Expectations on Livelihoods in ICM: Experiences from Thailand, Nicaragua, and Tanzania
Elin Torell, Ph.D., University of Rhode Island, Coastal Resources Center

Community-Based Marine Conservation and Sustainable Livelihoods: Lessons for North Sulawesi Indonesia
Brian Crawford, University of Rhode Island, Coastal Resources Center

Small-Scale, Community-Based Aquaculture – Examples from our Global Experience
Maria Haws, University of Hawaii, Hilo

3:30 to 4:30 p.m. | *Terrace*
ENGAGING STAKEHOLDERS THROUGH COMMUNICATION, OUTREACH, AND TRAINING
Moderator: Lisa Auermuller, Jacques Cousteau National Estuarine Research Reserve

Using Communication Science to Effectively Engage Coastal Populations
Joseph Cone, Oregon Sea Grant, Oregon State University

Planning for Climate Change: How NOAA's Coastal Training Program Is Helping Local Entities Prepare
Cathy Angell, Padilla Bay National Estuarine Research Reserve; Katrina Hoffman, Washington Sea Grant; Lara Whitely Binder, Climate Impacts Group; Elizabeth Willmott, King County Executive Office

Meeting the Needs of Coastal Communities in the Face of Climate Change: Creating Targeted Outreach Materials
Jenna Borberg and Michael Harte, Oregon State University; Joseph Cone, Oregon Sea Grant; Laurie Jodice, Clemson University

CONFERENCE POSTERS

COASTAL COMMUNITIES ADAPTING TO CHANGING CONDITIONS

Coastal Development Regulation in Response to Coastal Erosion in Three Northwest Florida Counties
Ariana Marshall and Larry Robinson, Ph.D., Florida A&M University, NOAA Environmental Cooperative Science Center and Environmental Sciences Institute

Coastal Geologic Hazards and Climate Change
Jon C. Boothroyd, Rhode Island Geological Survey, University of Rhode Island; Rachel E. Hehre, Department of Geosciences, University of Rhode Island

Communicating Risk Associated with a Dynamic Coastline
Alan Lulloff, Association of State Floodplain Managers

A Data Integration Framework to Enhance Research, Monitoring, and Assessment of Coastal and Ocean Conditions to Benefit Coastal Communities
Charles Alexander, Jeff de La Beaujardiere, Carmel Ortiz, Rebecca Shuford, and Marcia Weaks, NOAA Integrated Ocean Observing Systems

Decades of Change in a Rural Coastal Zone: Water, Mangrove, Fish and People
Jon P. Altamirano and Hisashi Kurokura, Laboratory of Global Fisheries Science, University of Tokyo

Developing a Sea Level Rise Adaptation Plan for the State of Delaware
Gabrielle Lyons, Susan Love, and Dave Carter, Delaware Coastal Programs, Division of Soil and Water Conservation, Delaware Department of Natural Resources and Environmental Control

Developing Guidance for the Management of Marine Riparian Areas in Puget Sound, Washington
Kathy Taylor, Ph.D., Washington Department of Ecology; Timothy Quinn, Ph.D., and Randy Carman, Washington Department of Fish and Wildlife; Jim Brennan, Washington Sea Grant; Hilary Culverwell, Starrfish Environmental Consulting

Development of New York State Guidelines for Post-Storm Redevelopment Plans
Patricia Bowie, New York State Department of State, Division of Coastal Resources

The Development of the South Carolina Coastal Information Network and Portal Site: Bringing Training Opportunities and Educational Resources to Coastal Community Officials and the Public
April L. Turner and Samantha M. Bruce, South Carolina Sea Grant Extension Program

The Gulf of Mexico at a Glance: A Presentation of Selected Regional Socioeconomic Variables Developed in Support of the Gulf of Mexico Alliance
Kristen Crossett, NOAA Special Projects, Coastal Resources Assessment Branch

HD.gov: An Interagency Web Portal Focused on the Human Dimensions of Natural Resource Management
Hansje Gold-Krueck, The Baldwin Group at the NOAA Coastal Services Center; Jeffery E. Adkins, NOAA Coastal Services Center; Fred J. Clark, Office of Tribal Relations, U.S. Forest Service; Thomas E. Fish, Cooperative Ecosystem Studies Units Network, National Park Service

Marine and Coastal Adaptation to Climate Change in North America: A Synthesis of Emerging Ideas
Lara Hansen, Rachel M. Gregg, Jennie Hoffman, Eric Mielbrecht, Jessica Hitt, and Alex Score, EcoAdapt

Monitoring Oyster Viability after Reintroduction to Boston Harbor
Mathew E. Brevard, M.S., and Andrew Jay, DMD, MBA, Massachusetts Oyster Project; Richard Bradshaw, Ph.D., Condition Engineering

Multi-Dimensional Integrated Approach to Coastal Environment Management in Masan Bay of Korea
Jungho Nam, Wonkeun Chang, Jisun Lee, Heejung Choi, and Keunhyung Yook, Ocean and Coastal Policy Research Department, Korea Maritime Institute

A Novel Approach for Estimating Hurricane Damages to Coastal Fishing
Rex H. Caffey and Richard F. Kazmierczak, Center for Natural Resource Economics and Policy, Louisiana State University

Numeric Nutrient Criteria for the Great Bay Estuary in New Hampshire
Philip R. Trowbridge, Piscataqua Region Estuaries Partnership

Opening Windows for Climate Change Policy Development: Key Factors
Rebecca Feldman, NOAA Office of Ocean and Coastal Resource Management

An Overview of Flooding, Erosion and Village Relocation Efforts in the Native Village of Newtok, Alaska
Sally Russell Cox, Alaska Division of Community and Regional Affairs; Stanley Tom, Newtok Traditional Council, Native Village of Newtok

The Pacific Islands Coastal Manager's Virtual Library and Forum
Carrie Hall, Sarah van der Schalie, and Marjorie Ernst, NOAA Office of Ocean and Coastal Resource Management; Mary Lou Cumberpatch, NOAA Central Library; Stephanie Fauver, Steve Frano, and Stephanie Beard, NOAA Coastal Services Center; Sarah Jones, NOAA National Weather Service

A Parametric Study of Meteorological Forcing in Storm Surge Modeling: A Case Study in Coastal Mississippi
Himangshu S. Das, Jackson State University; Emily Dhingra, URS Corporation

Processing and Accuracy of Topographic Lidar Data in Coastal Marshes
Keil Schmid, Brian Hadley, and Rebecca Love, I.M. Systems Group at the NOAA Coastal Services Center; Rebecca Mataosky and Robert McGuinn, The Baldwin Group at the NOAA Coastal Services Center

Project CI-FLOW – Tracking the Raindrop from the Sky to the Summit to the Sea
Suzanne Van Cooten, NOAA National Severe Storms Laboratory; Kevin Kelleher, Jack Thigpen and Robert Bacon

A Quantitative Analysis of the Relationship between Socio-Economic Indicators and Vulnerability to Coastal Flooding
Jawon Lee, Geography Department, Sungshin Women's University, Korea; Ellen Douglas, Environmental, Earth and Ocean Sciences, University of Massachusetts, Boston

A Review of the Puerto Rico Sustainable Coastal Community Development Project: Challenges and Opportunities to Reach Sustainable Development in the Caribbean
Lillian Ramírez-Durand and Manuel Valdés-Pizzini, Ph.D., Sea Grant College Program, University of Puerto Rico

Rising Waters: Helping Hudson River Valley Communities Adapt to Climate Change
Katie Dolan, The Nature Conservancy

The Role of Abiotic Factors in Submerged Aquatic Vegetation Change in the Hudson River
Catherine A. McGlynn, Hudsonia Ltd.; Eugenia Barnaba, Susan Hoskins, and Stephen Smith, Institute for Resource Information Sciences, Cornell University; Elizabeth A. Blair, Hudson River National Estuarine Research Reserve; Stuart E. G. Findlay, Cary Institute of Ecosystem Studies; W. Charles Nieder, New York State Department of Environmental Conservation

Satellite Oceanography at the NOAA National Oceanographic Data Center: A New Generation of High Quality Long-Term Climate Data Records and Enhanced User Access
Kenneth Casey, Yongsheng Zhang, Tess Brandon, Vicky Lin, and Sheri Phillips, NOAA National Oceanographic Data Center

Shoreline Change in Accra, Ghana: Past, Present, and Future
Kwasi Appeaning Addo, Ph.D., Accra Polytechnic

Spatial Models for the Assessment of the Storm-Surge Affected Regions in Coastal Areas: Case Study of the Cyclone Nargis in Myanmar
Ceyhun Ozcelik, Columbia University; Yuri Gorokhovich, Lehman College, City University of New York

The State of the Coast Web Site: Telling the Story of the Coast
Chris David, NOAA Special Projects Office

StormSmart Coasts in Action: An Evaluation of Local Level Climate Change Adaptation and Floodplain management Strategies
Daniella Hirschfeld, Massachusetts Office of Coastal Zone Management

A Study of Water Circulation and Water Quality in Hilo Bay, Hawaii
Jessica H. Podoski and Thomas D. Smith, U.S. Army Corps of Engineers, Honolulu District

Toward Understanding the Dynamics of Water Dependent Uses and Coastal Policy through Rhode Island's Ports and Commercial Harbors Inventory
Donald D. Robadue, Jr., Rebecca Bannon, and Angela Wilson, University of Rhode Island; Austin Becker, Stanford University

Tsunami Education, Preparation and Recovery Project for Downtown Hilo
Christian Kay, County of Hawai`i Planning Department; Genevieve Cain, Pacific Tsunami Museum

Ventura County's Compact for Sustainable Development
Monique Myers, California Sea Grant, University of California Cooperative Extension

Visible Space by Landscape Recognition by Local Inhabitants and the Composition
Hirotomo Ohuchi, Department of Architecture College of Industrial Technology, Nihon University, Japan; Satoshi Yamada and Setsuko Ouchi, Graduate School of Industrial Technology, Nihon University, Japan

Visualizing Sea Level Rise: A Glimpse at Rhode Island's Future Coastline
Angela Wilson, Virginia Lee, Pam Rubinoff, and Nate Vinhatero, Coastal Resources Center, University of Rhode Island

Waterfront Evolution: Investigating Land Use Change in Newport, Oregon
Laurel Kellner, Marine Resource Management, Oregon State University; Gil Sylvia, Coastal Oregon Marine Experiment Station, Oregon State University

CONSERVATION IN THE FACE OF CHANGE

Addressing Marine Debris Prevention through Existing Solid Waste and Wastewater Management Tools
Ashley Greene, U.S. Environmental Protection Agency, Ocean and Coastal Protection Division

Assessment of Horseshoe Crab Management Regimes
Denise M. Ellis and John A. Duff, J.D., LL.M., University of Massachusetts, Boston

Cultural and Historical Resource Assessment for Ecosystem-Based management
Zac Hart, I.M. Systems Group at the NOAA Coastal Services Center; Christina Hoffman, The Baldwin Group at the NOAA Coastal Services Center; Rebecca Pollock, NOAA Coastal Services Center; Susan Schlosser, California Sea Grant Extension Program; Tiffany Wilson, Planwest Partners, Inc.

Defining and Meeting Management Challenges at the Stellwagen Bank National Marine Sanctuary
Craig D. MacDonald, Stellwagen Bank National Marine Sanctuary

Delaware Bay Benthic Mapping Project: Providing Constraints on Conservation of the Estuary
John Madsen, University of Delaware; Bartholomew Wilson and Michael Rhode, Delaware Department of Natural Resources and Environmental Control

The EBM Tools Collaborative: Fostering an On-line Community of Ecosystem-Based Management Practitioners
Sarah Carr and Patrick Crist, NatureServe; Ken Snyder, Jason Lally, and Jocelyn Hittle, PlaceMatters

Economic Valuation of Potential Ecosystems Benefits from Crawfish Pond Habitat in Coastal Louisiana
John V. Westra and Rex H. Caffey, Center for Natural Resource Economics and Policy, Louisiana State University; Jay V. Huner, Crawfish Research Station, University of Louisiana at Lafayette

Examining the Efficiency of Coastal Restoration in Louisiana
Rex H. Caffey and John Westra, Center for Natural Resource Economics and Policy, Louisiana State University; Christiane Aust, Department of Agricultural Economics and Agribusiness, Louisiana State University

Green Marinas on Nantucket Island: A Recipe for a Sustainable Wild Bay Scallop Fishery on Nantucket Island, Massachusetts, USA
Kimberly Starbuck, Urban Harbor Institute; Anamarija Frankic, University of Massachusetts, Boston

Improving Coastal Land-Use Planning through the Application of Decision Support Tools in the Mission-Aransas National Estuarine Research Reserve
Kiersten Madden and Sally Morehead, Mission-Aransas National Estuarine Research Reserve; Patrick Crist, NatureServe; Ken Dunton, Department of Marine Science, University of Texas at Austin; Dave Eslinger, NOAA Coastal Services Center; John Jacob, Texas Coastal Watershed Program, Texas Sea Grant Extension; Doug Walker, Placeways

An Internet-Based, Geospatial Technique for Assessing Scenic Preferences and Aesthetic Resources for Washington State Parks
Anthony O. Gabriel, Department of Geography, Central Washington University; David S. Cordner, Center for Spatial Information, Central Washington University

Marine Debris in "Down East" North Carolina: Local Perceptions and Mitigative Approaches
Chris Ellis, Ph.D., NOAA Coastal Services Center; Shay Viehman and Jenny Vander Pluym, NOAA National Centers for Coastal Ocean Science, Center for Coastal Fisheries and Habitat Research; Paula Gillikin, North Carolina Division of Coastal Management, North Carolina National Estuarine Research Reserve; Katherine Straus, Vassar College

MarineMap: Participatory Marine Protected Area Design Using an Web-Based Open Source Tool
Charles Steinback, EcoTrust; Will McClintock, Chad Burt, Colin Ebert, Jared Kibele, Chris MacDonald, Matt Merrifield, Mike Mertens, Alexei Peters, and Dennis Wuthrich

Mississippi Oyster Restoration Efforts Post Hurricane Katrina
Dale A. Diaz, Kristina Broussard, and John S. Gordon, Office of Marine Fisheries, Mississippi Department of Marine Resources

Monitoring the Restoration of Red Brook, A Small Coastal Stream in Southeastern Massachusetts
Ellen M. Douglas, Steven L. Kichefski, Barry Fradkin, and Allen M. Gontz, Environmental, Earth and Ocean Sciences, University of Massachusetts, Boston; Beth C. Lambert and Tim A. Purinton, Massachusetts Riverways Program, Department of Fish and Game

Preserving Valuable Ecosystem Services: Collaborating to Integrate Information Needs and Resources
Susan Lovelace, Ph.D., NOAA Center for Human Health Risk, Hollings Marine Laboratory; L. Dorsey Worthy, Ph.D., U.S. Environmental Protection Agency, Ecosystem Services Research Program, National Exposure Research Laboratory; Robert McGuinn, NOAA Coastal Services Center; Laura Jackson, Ph.D., U.S. Environmental Protection Agency, Ecosystem Services Research Program, National Health and Environmental Effects Research Laboratory

Responding to the Coral Reef User Community: The NOAA Coral Reef Information System (CORIS) Regional Data Portal
Michele Newlin, Donald Collins, Anthony Picciolo, Sarah O'Connor, Sheri Phillips, and Zachary Bronder, NOAA National Oceanographic Data Center; Davida Remer and Georgia Shao, NOAA National Ocean Service, Communications and Education Division; Robb Wright, NOAA National Ocean Service, Strategic Program Services Division

A Spatial Bibliography to Assess Existing Information on Atlantic Coastal Fish Habitat
David Moe Nelson, Tom McGrath, and Ken Buja, NOAA Center for Coastal Monitoring and Assessment; Emily Greene, Atlantic States Marine Fisheries Commission

Spatial Economics of Wetland Mitigation Banking
Rex H. Caffey, Ryan Bourriaque, and John Westra, Center for Natural Resource Economics and Policy, Louisiana State University

Understanding the Role of ENGOs in Developing Fishery Management Plans
Alesia N. Read, Department of Natural Resources and the Environment, University of New Hampshire

Watershed to Ocean: Personal Connections to the Ocean through On-line Interactive Experiences
Bruce D. Campbell, The Ocean Project

OCEAN AND GREAT LAKES PLANNING FOR CHANGING HUMAN USES

Depositional Environments and Sediment Transport on a Microtidal, Wave Dominated Shoreface
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Derelict Gear Hotspot Analysis: Using Spatial Modeling Tools to Support Derelict Net Removal Efforts in Puget Sound
Jeremy Davies and Tom Good, NOAA Fisheries, Northwest Fisheries Science Center; Ginny Broadhurst, Northwest Straits Commission; Kyle Antonelis, Natural Resources Consultants, Inc.

The Hydrological Impact of Thermoelectric Energy Production in Massachusetts
Seth Sheldon and Anamarija Frankic, University of Massachusetts, Boston

In-Stream Gravel Mining in Oregon
James W. Charland, Oregon Coastal Management Program

An Interagency Approach to Renewable Energy Planning and Resource Mapping: Current Initiatives in the State of Maine
Matthew E. Nixon, Maine State Planning Office and Maine Department of Marine Resources

A Local Comparison of Sea Mussel, Mytilus californianus (Conrad) Growth Rates on the Central Coast of California
A. M. Jones, Division of Science and Environmental Policy (SEP), California State University Monterey Bay; D. P. Lohse, Department of Biology, University of California, Santa Cruz

New Northward Polychaetes Immigrants through the Suaz Canal
H. H. El-Rashidy, M. M. Atta, M. M. Dorgham, and R. Hamdy, Oceanography Department, Faculty of Science, Alexandria University, Egypt

Observations of Coastal Suspended Sediments during the 2005 Hurricane Season
S. Jack Stamates and John R. Proni, PhD., NOAA Atlantic Oceanographic and Meteorological Laboratory, Ocean Chemistry Division; Christopher J. McArthur, P.E., U.S. Environmental Protection Agency, Region 4

Reaching the Shore: Providing Shoreline Public Access Information through the Washington Coastal Atlas
Deborah Purce and Kathy Taylor, Ph.D., Shorelands and Environmental Assistance Program, Washington State Department of Ecology

Seamless Network Concept Spurs Use of REMUS in Environmental Data Gathering for Dock-Site Planning at Sandyhook, NJ, Gateway National Recreation Area, NPS
Norbert P. Psuty, Michael DeLuca, Joseph Dobarro, Tom Grothues, and Tanya Silveira, Rutgers University; Barry Sullivan and Mark Christiano, Gateway National Recreation Area, National Park Service; Lisa Auermuller, Jacques Cousteau National Estuarine Research Reserve; Charles T. Roman, National Park Service

Sediment Management Strategies for the Long Island Replacement Cable Project: Mapping the Plume of Planning and Implementation Strategies
Mark D. Driscoll and Susan M. Herz, ESS Group, Inc.

Siting Analysis for Hull, Massachusetts, Offshore Wind Energy Project: Stuck Between a Rock and a Crustacean
Glendon Barnes, Mark D. Driscoll, Carol Wasserman, Jonathan Alvarez, and Meghann Murray, ESS Group, Inc.

Stakeholder-Driven Regional Research Planning: An Example of Two Approaches
Stephen H. Sempier and LaDon Swann, Mississippi-Alabama Sea Grant Consortium; Julie M. Risien, Oregon Sea Grant; Karl Havens, Florida Sea Grant; Robert Stickney, Texas Sea Grant; Charles Wilson, Louisiana Sea Grant

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The Baldwin Group
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MEZZANINE LEVEL

SECOND FLOOR

Ladies Room *Telephones*
Men's Room *Business Center*

CONFERENCE ROOMS

FOURTH FLOOR

Ladies Room *Telephones*
Men's Room *Handicap Accessible*

NOAA Coastal Services Center

LINKING PEOPLE, INFORMATION, AND TECHNOLOGY

Guiding the conservation and management of the nation's coastal resources is a primary function of the federal government's National Oceanic and Atmospheric Administration (NOAA). This goal is accomplished through a variety of mechanisms, including collaboration with state coastal programs.

NOAA's Coastal Services Center supports local and state coastal programs by facilitating their access to the most up-to-date technology, information, and management strategies available in this field of work.

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