

SUNDAY, MARCH 29

1:00 to 5:00 p.m.

Ballroom Foyer
REGISTRATION

MONDAY, MARCH 30

7:30 a.m. to 5:00 p.m.

Ballroom Foyer
REGISTRATION

8:30 to 11:30 a.m.

Room 6/7

S01. SPECIAL INTEREST MEETING: Innovative Approaches in Coastal and Ocean Data Portals

Note: no cost, but you must be pre-registered to attend

8:30 to 11:30 a.m.

Room 8/9

S02. SPECIAL INTEREST MEETING: Exploring the Application of Digital Coast Tools for Enhancing Floodplain Management and Community Rating System Participation

Note: no cost, but you must be pre-registered to attend

8:30 to 11:30 a.m.

Room 10/11

S03. SPECIAL INTEREST MEETING: Linking Land Cover to Water Quality Using OpenNSPECT

Note: no cost, but you must be pre-registered to attend

1:00 to 4:00 p.m.

Room 6/7

S04. SPECIAL INTEREST MEETING: Participatory Mapping: Engaging Communities in Resource Planning and Management

Note: no cost, but you must be pre-registered to attend

1:00 to 4:00 p.m.

Room 8/9

S05. SPECIAL INTEREST MEETING: Mapping the Coast: Elevation, Inundation, and Frequency

Note: no cost, but you must be pre-registered to attend

1:00 to 4:00 p.m.

* First author is the presenter unless indicated

Room 10/11

S06. SPECIAL INTEREST MEETING: Building an OpenNSPECT Database for Your Watershed

Note: no cost, but you must be pre-registered to attend

6:00 to 8:00 p.m.

Ballroom A

EXHIBITOR RECEPTION

TUESDAY, MARCH 31

7:30 a.m. to 5:00 p.m.

Ballroom Foyer
REGISTRATION

8:30 a.m. to 3:00 p.m.

Ballroom A
EXHIBITS

8:30 to 10:00 a.m.

Ballroom B/C4
OPENING PLENARY: Coastal Resilience Trends

Welcome: Dr. Jeff Payne, Acting Director, NOAA Office for Coastal Management

Mr. Chad Berginnis, Executive Director, Association of State
Floodplain Managers

Keynote: Dr. Dawn Wright, Chief Scientist, Esri
“Toward a *Digital* Resilience”

10:00 to 10:30 a.m.

Ballroom A
BREAK

10:30 a.m. to Noon

Room 6/7
GEOTOOLS SOLUTIONS FOR ELEVATION MAPPING AND MODELING I

A01. EMERGING LIDAR SENSOR TECHNOLOGY

John Gerhard, Woolpert

A02. MAXIMIZING ROI THROUGH FEATURE AUTOMATION OF LIDAR IN THE DIGITAL COAST

Brian Mayfield, Atlantic

A03. INNOVATION IN LIDAR TECHNOLOGY AS IT RELATES TO COASTAL MAPPING

Jamie Young, Merrick & Company

**A04. SELECTING THE RIGHT TECHNOLOGY: A COMPARATIVE LOOK AT VESSEL, AIRBORNE, AND SATELLITE
TECHNOLOGIES FOR NEARSHORE BATHYMETRIC SURVEYS**

Todd Mitchell, Fugro-Ventura

10:30 a.m. to Noon

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Room 8/9

PLANNING FOR COASTAL INUNDATION I

A05. POPULATION PROJECTIONS AND RISK OF INUNDATION FROM SEA LEVEL RISE FOR THE UNITED STATES IN 2100

Mathew Hauer, University of Georgia; Jason Evans, Stetson University

A06. INTEGRATED HAZARDS PLANNING IN A COASTAL CONTEXT

Jim Schwab, American Planning Association

A07. FLOODED WITH INFORMATION: HONING IN ON THE EFFECTIVE UTILIZATION OF DATA AND PLANNING TOOLS TO INFORM OCEAN AND COASTAL DECISION-MAKING IN MARYLAND

Kimberly Hernandez, Maryland Department of Natural Resources, Chesapeake and Coastal Service

A08. INTEGRATING DIGITAL COAST INTO HAZARD MITIGATION PLANNING

Mike Robinson, AECOM-Raleigh; Sherrie Collins, Monterey County Office of Emergency Services

10:30 a.m. to Noon

Room 10/11

MODELING AND MAPPING NATURAL RESOURCES

A09. USING NOAA HISTORICAL CHARTS, AERIAL PHOTOGRAPHY, DIGITAL COAST, AND OTHER SATELLITE IMAGERY TO ESTABLISH THE STATUS AND THREATS TO REMNANT TIDEWATER RICE FIELDS AND CANAL SYSTEMS ALONG THE LOWER CAPE FEAR RIVER, NORTH CAROLINA

James Kapetsky, Consultants in Fisheries and Aquaculture Sciences and Technologies, Inc.

A10. GEOSPATIAL DATA FOR COASTAL COMMUNITIES

Aaron Lawrence, Woolpert

A11. DATA WAREHOUSE QUERYING AND DISPLAY OF DATA

Ben Shor and Jay Coady,* NOAA Office of Response and Restoration

A12. CETACEAN DENSITY MODELS FOR THE U.S. EAST COAST AND GULF OF MEXICO

Jason Roberts, Duke University; Ben Best, National Center for Ecological Analysis and Synthesis; Laura Mannocci and Pat Halpin, Duke University

10:30 a.m. to Noon

Room 12/13

PLANNING FOR OFFSHORE MANAGEMENT

A13. GEORGIA COASTAL AND MARINE PLANNER: INTERACTIVE GEOSPATIAL DATA AND TOOLS FOR COASTAL AND OFFSHORE GEORGIA

* First author is the presenter unless indicated

Sonny Emmert, Georgia Department of Natural Resources, Coastal Resources Division;
Tony Giarrusso, Georgia Tech Center for GIS

A14. WHAT'S BEHIND THE MAP? UNDERSTANDING OREGON'S TERRITORIAL SEA PLAN

Andy Lanier, Oregon Coastal Management Program

A15. AN OCEAN OF INFORMATION: PROVISIONING OCEAN DATA WITH MARINECADASTRE.GOV

Lindsay Goodwin, The Baldwin Group at the NOAA Office for Coastal Management

A16. QUANTIFYING THE VALUE AND COMMUNICATING THE PROTECTIVE SERVICES OF GREEN SHORELINES USING FLOOD RISK ASSESSMENT

Kytt MacManua, Columbia University; Philip Orton and Alan Blumberg, Stevens Institute of Technology; Eric Sanderson, Mario Giampieri, and Kim Fisher, Wildlife Conservation Society; Erin Doxsey-Whitfield, Columbia University

Noon to 1:30 p.m.

Ballroom A

EXHIBITOR LUNCHEON

1:30 to 3:00 p.m.

Room 6/7

APPROACHES IN ELEVATION MAPPING AND MONITORING

B01. COASTAL GEOMORPHOLOGICAL MONITORING IN PARKS, REFUGES, AND RESERVES

Andrea Spahn, Jacques Cousteau National Estuarine Research Reserve; Norbert Psuty, William Schmelz, Joshua Greenberg, and Irina Beal, Rutgers, State University of New Jersey

B02. AN OVERVIEW OF THE USE OF TERRESTRIAL LIDAR SURVEYS TO MAP COASTAL TOPOGRAPHY

Cindy Thatcher, U.S. Geological Survey, Eastern Geographic Science Center; Joshua Logan, U.S. Geological Survey, Pacific Coastal and Marine Science Center

B03. HIGH-RESOLUTION MODELING OF COASTAL ELEVATIONS ALONG HURRICANE SANDY-IMPACTED COASTS: NEW METHODS AND EARLY RESULTS

Michael Sutherland, University of Colorado at Boulder, Cooperative Institute for Research in Environmental Sciences, and NOAA National Geophysical Data Center; Susan McLean, NOAA National Geophysical Data Center; Barry Eakins, Luke Beasley, and Matthew Love, University of Colorado at Boulder, Cooperative Institute for Research in Environmental Sciences, and NOAA National Geophysical Data Center

1:30 to 3:00 p.m.

Room 8/9

COASTAL FLOODING AND INUNDATION TOOLS FOR RESILIENT SOLUTIONS

* First author is the presenter unless indicated

B04. COASTAL RESILIENCE PLANNING IN THE GREAT LAKES—FROM STORIES TO SOLUTIONS

Jeff Stone and Bridget Faust, Association of State Floodplain Managers

B05. THE COASTAL DEFENSE APPLICATION: EVALUATING NATURE’S ROLE IN COASTAL PROTECTION

Laura Flessner, Zach Ferdana, and James Byrne, The Nature Conservancy; Greg Guannel, Natural Capital; Aaron Cole, Center for Integrated Spatial Research, University of California, Santa Cruz

B06. NEW INTERACTIVE GUIDE TO GREEN INFRASTRUCTURE MAPPING FOR COASTAL RESILIENCE

David Betenbaugh, The Baldwin Group at the NOAA Office for Coastal Management; Chris David, The Trust for Public Land

1:30 to 3:00 p.m.

Room 10/11

ONLINE COASTAL PLANNING TOOLS

B07. CHESAPEAKE BAY HABITAT TOOL

Erik Martin, The Nature Conservancy, Eastern Conservation Team

B08. MARTIN COUNTY COASTAL GIS PROGRAM: ST. LUCIE INLET PLANNING TOOL

Alexandra Carvalho, CMar Consulting, LLC; Kathy Fitzpatrick and Jessica Garland, Martin County, Florida

B09. HOW LONG IS THE COAST OF BRITAIN? DAN IT!

D. Michael Parrish and Karen Wong-Liang, Flood Risk Solutions, LLC

1:30 to 3:00 p.m.

Room 12/13

NATIONAL OCEAN MAPPING

B10. A PROPOSAL FOR A NATIONAL COASTAL MAPPING STRATEGY

Ashley Chappell, NOAA Office of Coast Survey; Jennifer Wozencraft, U.S. Army Corps of Engineers; John Brock, U.S. Geological Survey

B11. USGS NATIONAL MAP PRODUCTS, DATA, AND MAP SERVICES FOR YOUR COASTAL PROJECTS

Rob Dollison and Allyson Jason, U.S. Geological Survey, National Geospatial Program

B12. COAST SURVEY PROVIDING IMPROVED ACCESS TO MARITIME NAVIGATION PRODUCTS AND SERVICES

Kurt Nelson, NOAA Office of Coast Survey

3:00 to 5:00 p.m.

Ballroom C1/C2/C3

TOOLS SHOWCASE

Refreshments provided

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T01. THE NORTH CAROLINA COASTAL ATLAS: TRANSFORMING DATA INTO INFORMATION FOR COASTAL DECISION-MAKING

Tom Allen and Rob Howard, East Carolina University; Tancred Miller and Ken Richardson, North Carolina Division of Coastal Management; Joseph Thomas, East Carolina University

T02. ASSESSING COMMUNITY EXPOSURE TO COASTAL FLOODING

David Betenbaugh, The Baldwin Group at the NOAA Office for Coastal Management

T03. LAKE LEVEL VIEWER: UNITED STATES GREAT LAKES

Lindy Betzhold, The Baldwin Group at the NOAA Office for Coastal Management; Doug Marcy, NOAA Office for Coastal Management*; Billy Brooks, The Baldwin Group at the NOAA Office for Coastal Management

T04. THE UNITED STATES INTERAGENCY ELEVATION INVENTORY

Lindy Betzhold, The Baldwin Group at the NOAA Office for Coastal Management; Allyson Jason, U.S. Geological Survey, National Geospatial Program; Rebecca Mataosky, The Baldwin Group at the NOAA Office for Coastal Management; Diana Thunen, U.S. Geological Survey, National Geospatial Program

T05. STORMCENTER: A NEW TOOL THAT ALLOWS COMMUNITIES TO UNDERSTAND IMPACTS OF CLIMATE CHANGE ON THE 100-YEAR STORM

Stephen Bourne, Atkins

T06. SOUTH CAROLINA BEACH GUIDE

Jessica Boynton, South Carolina Department of Health and Environmental Control, Ocean and Coastal Resource Management

T07. SEA LEVEL RISE VIEWER AND DATA—TAKE AND USE!

Billy Brooks, The Baldwin Group at the NOAA Office for Coastal Management

T08. MYCOAST: SOUTH CAROLINA—ENHANCING PUBLIC AWARENESS OF COASTAL HAZARDS THROUGH CITIZEN ENGAGEMENT

Daniel Burger, South Carolina Department of Health and Environmental Control, Ocean and Coastal Resource Management

T09. MARTIN COUNTY ARTIFICIAL REEFS INTERACTIVE MAP APPLICATION

Alexandra Carvalho, CMar Consulting, LLC; Kathy Fitzpatrick and Jessica Garland, Martin County

T10. ESTUARY DATA MAPPER: A VIRTUAL PORTAL TO COASTAL DATA INFORMING ENVIRONMENTAL MANAGEMENT DECISIONS

Naomi Detenbeck, U.S. Environmental Protection Agency, Atlantic Ecology Division; Todd Plessel, Lockheed Martin at the U.S. Environmental Protection Agency, Environmental

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Modeling and Visualization Laboratory; Marilyn ten Brink, U.S. Environmental Protection Agency, Atlantic Ecology Division

T11. INNOVATIVE AND INTERACTIVE GREEN STORMWATER INFRASTRUCTURE TOOLS

David Dickson, University of Connecticut, Center for Land Use Education and Research

T12. FLORIDA BIOGEOGRAPHIC ASSESSMENT: IDENTIFYING ECOLOGICALLY IMPORTANT AREAS USING THE MARXAN SYSTEMATIC APPROACH PLANNING

Dan Dorfman, CSS-Dynamac at NOAA National Centers for Coastal and Ocean Science; Heather Coleman, PacMARA

T13. OPENINSPECT: A TOOL FOR ESTIMATING IMPACTS OF LAND USE CHANGES

Dave Eslinger, NOAA Office for Coastal Management; Shan Burkhalter, The Baldwin Group at the NOAA Office for Coastal Management

T14. GEORGIA WETLANDS TOOLKIT: MAXIMIZING USE OF NWI AND NWI+ DATA FOR GEORGIA

Tony Giarrusso, Georgia Tech Center for GIS

T15. NOAA SHORELINE DATA EXPLORER APPLICATION

Doug Graham, Aijun Chen,* and David Ermisch, NOAA National Geodetic Survey

T16. C-CAP COMPARISON TOOL AND THE LAND COVER ATLAS

Nate Herold, NOAA Office for Coastal Management

T17. NEW YORK STATE OFFICE OF PLANNING AND DEVELOPMENT'S GEOGRAPHIC INFORMATION GATEWAY: LET THE INFORMATION BE FREE

Jeff Herter and Elizabeth Podowski, New York Department of State, Office of Planning and Development; David Healy, Stone Environmental, Inc.

T18. THE DIGITAL COAST DATA REGISTRY

Erik Hund and Nate Herold, NOAA Office for Coastal Management

T19. OCEAN USE MAPPING IN THE NORTHEAST

Kelly Knee and Rachel Shmookler, RPS ASA

T20. MAP-BASED STORYTELLING TO IMPROVE MID-ATLANTIC OCEAN PLANNING

Alfonso Lombana and Jay Odell, The Nature Conservancy; Jenny Walsh and Scott Fletcher, Point 97

T21. HOW SEASKETCH IS HELPING FEDERAL IOCM COLLABORATION

Sasha Pryborowski, NOAA Integrated Ocean and Coastal Mapping Program

T22. A TOOL FOR TRANSLATING SPATIAL DATA TO THE COASTAL AND MARINE ECOLOGICAL CLASSIFICATION STANDARD (CMECS)

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Mark Finkbeiner, NOAA Office for Coastal Management

T23. SURGING SEAS RISK FINDER WEB TOOL

Dan Rizza, Scott Kulp, Tim Grandia, and Ben Strauss, Climate Central

T24. MARINE GEOSPATIAL ECOLOGY TOOLS

Jason Roberts, Duke University, Marine Geospatial Ecology Lab; Ben Best, National Center for Ecological Analysis and Synthesis; Daniel Dunn, Duke University, Marine Geospatial Ecology Lab; Eric Trembl, University of Melbourne, Department of Zoology; Pat Halpin, Duke University, Marine Geospatial Ecology Lab

T25. ENOW EXPLORER, OCEAN ECONOMY STORY MAPS

Gabe Sataloff, The Baldwin Group at the NOAA Office for Coastal Management

T26. AUTOMATED TOOL TO MODEL COASTAL FLOODING

Al Souid, AMEC Environment and Infrastructure

T27. DATA NAVIGATION WITH MARINECADASTRE.GOV

Christine Taylor, Bureau of Ocean Energy Management

T28. USING ARCGIS FOR CRITICAL INFRASTRUCTURE FLOOD HAZARD PLANNING

Bing Wang, Daniel Stapleton,* and Daniel Boudreau, GZA GeoEnvironmental

T29. COASTALRECON TOOL

Xiaoyi Zhang, Jeff Gangai,* John Sun, and Yi Zheng, Dewberry Consultants, LLC

T30. ASSOCIATION OF STATE FLOODPLAIN MANAGERS' TOOLS

WISCONSIN SHORELINE AND OBLIQUE PHOTO VIEWER

Jason Hochschild, Association of State Floodplain Managers

GREAT LAKES COASTAL RESILIENCE PLANNING GUIDE

Bridget Faust, Association of State Floodplain Managers

THE TOLEDO FLOOD HAZARD VISUALIZER

Lizzi Slivinski, Association of State Floodplain Managers

6:00 p.m.

Embassy Suites Atrium Lounge

TWEETUP

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WEDNESDAY, APRIL 1

7:30 a.m. to 5:00 p.m.

Ballroom Foyer
REGISTRATION

8:30 a.m. to Noon

2:00 to 3:30 p.m.

Ballroom A
EXHIBITS

8:30 to 10:00 a.m.

Room 6/7

IMPROVING MAPPING TECHNOLOGY

C01. NEW ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA

David Maune, Dewberry Consultants, LLC

C02. A BOUNDARY DELINEATION SYSTEM FOR THE BUREAU OF OCEAN ENERGY MANAGEMENT

Douglas Vandegraft, Bureau of Ocean Energy Management

C03. OBLIQUE IMAGERY FOR COASTAL MANAGEMENT

Greg Tilley, Sanborn

8:30 to 10:00 a.m.

Room 8/9

GREAT LAKES FLOOD VISUALIZATION TOOLS

C04. THE BENEFITS OF A USER-CENTERED DESIGN PROCESS FOR THE NOAA LAKE LEVEL VIEWER

David Hart, University of Wisconsin Sea Grant Institute; Robert Roth, University of Wisconsin-Madison

C05. GREAT LAKES COASTAL FLOOD HAZARD MAPPING

Alan Lulloff, Association of State Floodplain Managers

C06. THE FLOOD HAZARD VISUALIZER-ANALYZING AND COMMUNICATING FLOOD RISKS AND MITIGATION OPPORTUNITIES IN THE GREAT LAKES

Lizzi Slivinski and Jeff Stone, Association of State Floodplain Managers

8:30 to 10:00 a.m.

Room 10/11

DATA ACCESS AND COORDINATION

C07. SHARING GEOSPATIAL DATA: LESSONS LEARNED

* First author is the presenter unless indicated

Lynda Wayne, GeoMaxim

C08. DATA CATEGORIES FOR MARINE PLANNING

Frances Lightsom, U.S. Geological Survey, Woods Hole Coastal and Marine Science Center; Giancarlo Cicchetti, U.S. Environmental Protection Agency, Environmental Effects Research Laboratory; Charles Wahle, NOAA Office of National Marine Sanctuaries

C09. RADAR OPERATIONAL SURVEILLANCE SYSTEM: AN OCEAN/COASTAL DATA MANAGEMENT AND EXPLOITATION SYSTEM INCORPORATING RADAR, ELECTRO OPTICAL IMAGERY AND GIS

Jeff Van de Vaarst, Intergraph Government Solutions

8:30 to 10:00 a.m.

Room 12/13

APPLICATIONS OF ECONOMICS IN PLANNING AND MANAGEMENT

C10. CATCH OF THE DAY: THE GEOGRAPHIC DISTRIBUTION OF THE U.S. COMMERCIAL FISHING INDUSTRY

Jeffery Adkins, I.M. Systems Group at NOAA Office of Program Planning and Integration

C11. DEPLOYMENT OF TEXAS'S ARTIFICIAL REEFS FOR ECONOMIC ENHANCEMENT

Sarah Braddy and D. Yoskowitz, Harte Research Institute, Texas A&M University-Corpus Christi; M. Starek, School of Engineering and Computing Sciences, Texas A&M University-Corpus Christi; J. Lee, Department of Decision Sciences and Economics, Texas A&M University-Corpus Christi

C12. WMOST: A TOOL FOR ASSESSING COST-BENEFITS OF WATERSHED MANAGEMENT DECISIONS AFFECTING COASTAL RESILIENCE

Naomi Detenbeck, U.S. Environmental Protection Agency, Atlantic Ecology Division; Viktoria Zoltay, Abt Associates; Alisa Morrison, ORISE Post-Doc at U.S. Environmental Protection Agency, Atlantic Ecology Division; Trish Garrigan and Jackie LeClair, U.S. Environmental Protection Agency, Region I

10:00 to 10:30 a.m.

Ballroom A

BREAK

10:30 a.m. to noon

Room 6/7

MAPPING AND ANALYZING SHORELINE CHANGE

D01. GENERATING TIDALLY-REFERENCED SHORELINES USING GUS, VDATUM, AND LIDAR

Daniel Barone, Richard Stockton College, Coastal Research Center; Roger Barlow, U.S. Geological Survey

D02. USING GEOSPATIAL DATA TO INFORM FUTURE SHORELINE PLANNING ON THE OREGON COAST
Meg Gardner, Oregon Coastal Management Program, Oregon Parks and Recreation
Department

**D03. UTILIZING GEOREFERENCED HISTORICAL AERIAL PHOTOGRAPHY FOR ANALYZING SHORELINE CHANGE
AND INLET MIGRATION**
Marcus Gruver and Alex Ferencz, Richard Stockton College, Coastal Research Center

10:30 a.m. to noon

Room 8/9

MODELING AND MAPPING TO ASSESS FLOOD RISKS

**D04. A HOLISTIC APPROACH TO GEO-TOOL DEVELOPMENT: DESIGNING COMPLEMENTARY RESOURCES
FOR EXPLORATION OF FLOOD RESILIENCE STRATEGIES**
Bridget Faust, Jason Hochschild, Lizzi Slivinski, and Jeff Stone, Association of State
Floodplain Managers

**D05. PROJECTING FUTURE COASTAL FLOOD RISKS FOR MASSACHUSETTS BAY: COASTAL DATA
APPLICATIONS**
Bin Wang, Tianyi Liu, Daniel Stapleton, and Michael Mobil, GZA GeoEnvironmental, Inc.

D06. GEOSPATIAL FILTERING METHODS FOR DEVELOPING STILLWATER SURFACES
Chris Mack, AECOM

10:30 a.m. to noon

Room 10/11

FEDERAL ADVANCES TO DATA ACCESS

D07. NOAA'S INTEGRATED DISSEMINATION PROGRAM GEOGRAPHIC INFORMATION SYSTEM PROJECT
Kari Sheets, NOAA National Weather Service, Integrated Dissemination Program; Ken
Ward, NOAA National Weather Service, NCEP Central Operations; Viviane Silva, NOAA
National Weather Service, Integrated Dissemination Program; Kenneth Pelman, NOAA
National Weather Service, Climate Prediction Center; Nipah Parikh, NOAA National
Weather Service, Integrated Dissemination Program

**D08. GEOESPIS: MODERNIZING BOEM'S ENVIRONMENTAL STUDIES PROGRAM INFORMATION SYSTEM
THROUGH GEOSPATIAL SCIENCE**
Michael Rasser and Jonathan Blythe,* Bureau of Ocean Energy Management; David Stein,
NOAA Office for Coastal Management; Steven Raber, Quantum Spatial

D09. U.S. INTEGRATED OCEAN OBSERVING SYSTEM DATA ACCESS SERVICES
Hassan Moustahfid, Chris Duncombe Rae, Derrick Snowden,* Becky Baltes, and Robert
Ragsdale, NOAA U.S. IOOS

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10:30 a.m. to noon

Room 12/13

SOCIAL AND PHYSICAL VULNERABILITY ASSESSMENTS

D10. HURRICANE SANDY'S IMPACT ON THE ENVIRONMENTAL SENSITIVITY INDEX (ESI) MAPS AND DATA

Jill Petersen, NOAA Office of Response and Restoration

D11. SHORELINE DYNAMICS: BEACHFRONT JURISDICTION AND NEARSHORE ALTERATION APPLICATIONS

Jessica Boynton, South Carolina Department of Health and Environmental Control, Ocean and Coastal Resource Management

D12. MULTI-HAZARD VULNERABILITY ASSESSMENT OF CAPE HATTERAS NATIONAL SEASHORE

Michael Flynn, Tom Allen, Burrell Montz, J.P. Walsh, and Tom Crawford, East Carolina University

Noon to 1:45 p.m.

Ballroom B/C4

PLENARY LUNCHEON: From Katrina to Sandy—Lessons Learned

Moderator: Mr. Nicholas (Miki) Schmidt, Division Chief, NOAA Office for Coastal Management

Panelists: Dr. Tim De Troye, South Carolina State GIS Coordinator, and Past President, National States Geographic Information Council

Mr. Doug Bausch, Senior Physical Scientist, Federal Emergency Management Agency

Mr. Kurt Allen, Vice President, Quantum Spatial

Mr. Tim Hillier, Vice President, CDM Smith, and Coastal Issues Co-Chair, Association of State Floodplain Managers

2:00 to 3:30 p.m.

Room 6/7

GEOTOOL SOLUTIONS FOR ELEVATION MAPPING AND MODELING II

E01. APPLICATION OF THE RIEGL VQ-820-G TOPOBATHYMETRIC LASER SCANNER FOR MAPPING NEARSHORE COASTAL AND RIVERINE ENVIRONMENTS

Colin Cooper and Russell Faux, Quantum Spatial, Inc.

E02. USE OF ELEVATION DATA IN NOAA COASTAL MAPPING SHORELINE PRODUCTS

David Ermisch, NOAA National Geodetic Survey

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E03. POST-SANDY TOPOBATHYMETRIC LIDAR ALONG THE EASTERN ATLANTIC SEABOARD

Amar Nayegandhi, Dewberry Consultants, LLC; Michael Aslaksen, NOAA National Geodetic Survey

2:00 to 3:30 p.m.

Room 8/9

ELEVATION MODELING SOLUTIONS

E04. ONE FOOT OUT OF THE BATHTUB

Brian Caufield and Mark Zito, CDM Smith

E05. GIS-BASED FINANCIAL ANALYSIS FOR COASTAL FLOODING AND SEA LEVEL RISE

Jasmine Bird, Blue Marble Geographics

E06. TAKING UAS TO THE NEXT LEVEL FOR COASTAL APPLICATIONS

Jeff Lovin and John Gerhard,* Woolpert

2:00 to 3:30 p.m.

Room 10/11

TELLING STORIES WITH DATA

E07. AN OCEAN OF STORY MAPS

Dawn Wright, Esri

E08. DEEP MAPS AND TIMELINES FOR COASTAL STEWARDSHIP

David Hart, University of Wisconsin, Sea Grant Institute

E09. NEW YORK'S GEOGRAPHIC INFORMATION GATEWAY: STORYTELLING WITH GEOGRAPHIC INFORMATION

Elizabeth Podowski and Jeffrey Herter, New York State Department of State, Office of Planning and Development

2:00 to 3:30 p.m.

Room 12/13

REACHING YOUR USERS: NEW COMMUNITY ENGAGEMENT TOOLS

E10. NEW JERSEY COASTAL VULNERABILITY INDEX MAPPING

Evan Sherer, New Jersey Department of Environmental Protection

E11. MAPS TO RESILIENCE: DATA AND MAPS TO START DISCUSSIONS ABOUT COASTAL FLOOD HAZARDS

David Betenbaugh, The Baldwin Group at the NOAA Office for Coastal Management

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E12. ENGAGING GREAT LAKES COMMUNITIES TO DEVELOP WATERSHED ACTION PLANS WITH TIPPING POINT PLANNER

Kara Salazar, Purdue University and Illinois-Indiana Sea Grant College Program; Joseph Lucente, Ohio State University Extension and Ohio Sea Grant College Program; Jarrod Doucette* and Brandon Beatty, Purdue University and Illinois-Indiana Sea Grant College Program; Brian Miller, Illinois-Indiana Sea Grant College Program

3:30 to 4:00 p.m.

Room 4/5

BREAK

4:00 to 5:30 p.m.

Room 6/7

BENTHIC HABITAT MAPPING

F01. USE OF CMECS TO CLASSIFY ESTUARINE HABITATS IN OREGON

Tanya Haddad, Laura Mattison, Randy Dana, and Andy Lanier, Oregon Coastal Management Program; Laura Brophy, Greenpoint Consulting

F02. CREATING A COMPREHENSIVE SEAFLOOR SEDIMENT MAP IN MASSACHUSETTS

Daniel Sampson and Emily Huntley, Massachusetts Office of Coastal Zone Management

F03. HABITAT MAPPING AND CLASSIFICATION IN THE NORTHEAST U.S.: A STORY MAP JOURNAL

Emily Shumchenia, E&C Enviroscope and Northeast Regional Ocean Council

4:00 to 5:30 p.m.

Room 8/9

PLANNING FOR COASTAL INUNDATION II

F04. PLANNING FOR SEA LEVEL RISE AT THE LOCAL LEVEL

Benjamin McFarlane, Hampton Roads Planning District Commission

F05. UTILIZING PROPERTY-LEVEL DATASETS TO INTERPRET COASTAL FLOOD RISKS

Betsy Hayden and Curtis Smith, URS Corporation

F06. DEVELOPMENT OF A HAZARD VULNERABILITY INDICATOR TO PRIORITIZE AREAS SUBJECT TO SEA-LEVEL CHANGE AND COASTAL FLOODING IN THE CHESAPEAKE BAY

Michael Scott, Arthur Lembo, and Brett Dobelstein, Salisbury University; Michael Sheffer, Maryland State Highway Administration

4:00 to 5:30 p.m.

Room 10/11

WATER QUALITY TOOLS

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F07. AN ONLINE DECISION SUPPORT TOOL FOCUSING ON NITROGEN SOURCES AND SINKS IN COASTAL WATERSHEDS

Chester Arnold, University of Connecticut, Center for Land Use Education and Research;
Dorothy Kellogg, University of Rhode Island

**F08. A SPATIALLY SPECIFIC TOOL FOR PLANNING POLLUTION REDUCTIONS AT THE FACILITY LEVEL:
BAYFAST**

Greg Allen, U.S. Environmental Protection Agency, Chesapeake Bay Program

F09. WHAT'S UPSTREAM? GIS'S CRITICAL ROLE IN DEVELOPING NUTRIENT REFERENCE CONDITIONS FOR ESTUARIES

Patrick Clinton, Cheryl Brown, and Walter Nelson, U.S. Environmental Protection Agency

4:00 to 5:30 p.m.

Room 12/13

F10. FACILITATED DISCUSSION: EXPLORING THE FEASIBILITY OF A DIGITAL COAST USER GROUP

Ginger Hinchcliff, NOAA Office for Coastal Management; Allison Hardin, City of Myrtle Beach Planning Department

7:00 to 10:00 p.m.

Boone Hall Plantation

SPONSOR RECEPTION

Note: Buses will depart from convention center beginning at 6:30 p.m.

THURSDAY, APRIL 2

7:30 a.m. to 12:30 p.m.

Second Floor Foyer

REGISTRATION

9:00 to 10:30 a.m.

Room 6/7

FEDERAL ELEVATION ACTIVITIES

G01. 3D ELEVATION PROGRAM: COASTAL CONNECTIONS

Allyson Jason and Jason Stoker, U.S. Geological Survey, National Geospatial Program

G02. CONSTRUCTION OF 3DEP-CZ AS THE COASTAL COMPONENT OF THE 3D ELEVATION PROGRAM

Jeffrey J. Danielson, John C. Brock, Gayla A. Evans, and Dean J. Tyler, U.S. Geological Survey

G03. EXECUTING THE USACE NATIONAL COASTAL MAPPING PROGRAM IN THE CZMIL ERA

Charlene Sylvester, U.S. Army Corps of Engineers, JALBTCX

9:00 to 10:30 a.m.

Room 8/9

COASTAL GEOMORPHOLOGY: NEW METHODS TO COLLECT AND USE COASTAL DATA

G04. A METHODOLOGY FOR QUANTIFYING STORM-DEPOSITED SEDIMENTS WITHIN NAVIGATION CHANNELS IN THE ABSENCE OF HYDROGRAPHIC SURVEY DATA

Daniel Barone and Stewart Farrell, Richard Stockton College, Coastal Research Center

G05. AN ASSESSMENT FOR UTILIZING FORMER SUBAQUEOUS BORROW SITES AS DREDGE MATERIAL PLACEMENT LOCATIONS IN NEW JERSEY

B. Steven Howard, Richard Stockton College, Coastal Research Center

G06. MAPPING GEOMORPHOLOGICAL FEATURES IN SHALLOW WATER ENVIRONMENTS USING SATELLITE-DERIVED DATA LAYERS

François Smith, MDA Information Systems, LLC

9:00 to 10:30 a.m.

Room 10/11

ADVANCED APPLICATIONS FOR COASTAL MANAGEMENT

G07. THE APPLICATION OF SYNTHETIC APERTURE RADAR (SAR) TO DEEPWATER HORIZON NATURAL RESOURCE DAMAGE ASSESSMENT

George Graettinger, Jay Coady, Nicholas Eckhardt, and Mathew Dorsey, NOAA Office of Response and Restoration

* First author is the presenter unless indicated

G08. ANALYSIS OF TIDES AND STORM SURGE FROM OBSERVATIONAL RECORDS IN THE DELAWARE INLAND BAYS

John Callahan, Delaware Geological Survey, University of Delaware

G09. REMOTE SENSING METRICS TO SUPPORT COASTAL PLANNING AND OPERATIONS

Lauren Dunkin, Molly Reif,* and Jennifer Wozencraft, U.S. Army Corps of Engineers

9:00 to 10:30 a.m.

Room 12/13

GIS ON THE WEST COAST

G10. THE MARINE VEGETATION ATLAS: WEB-BASED ACCESS TO CRITICAL, YET HARD TO FIND, INFORMATION IN WASHINGTON STATE

Allison Bailey, Sound GIS; Lisa Ferrier and Helen Berry, Washington State Department of Natural Resources; Greg Corradini, ChopShop Geospatial

G11. MODELLING TIDAL INUNDATION IN OREGON ESTUARIES

Randy Dana, Oregon Coastal Management Program

G12. MAPPING IMPACTS OF MARINE DEBRIS USING THE WEST COAST OCEAN DATA PORTAL

Todd Hallenbeck, West Coast Governors Alliance on Ocean Health; Andy Lanier, Oregon Coastal Management Program; Steve Steinberg, Southern California Coastal Water Research Project

10:30 to 11:00 a.m.

Room 4/5

BREAK

11:00 a.m. to 12:30 p.m.

Room 6/7

COASTAL MAPPING AND ASSESSMENTS

H01. IDENTIFICATION OF PROPERTIES VULNERABLE TO DISASTER LOSSES DUE TO TITLE DEFECTS

Scott Pippin, Jimmy Nolan, and Shana Jones,* University of Georgia Carl Vinson Institute of Government

H02. EVALUATING COASTAL LAND COVER DATA FOR WETLAND CHANGE AND RESILIENCE

Nate Herold, NOAA Office for Coastal Management

H03. LOSS OF CARBON SEQUESTRATION FROM LAND USE CHANGE IN CONNECTICUT

Emily Wilson, University of Connecticut, Center for Land Use Education and Research; Linda Tomasso, Harvard University, Center for Health and the Global Environment

* First author is the presenter unless indicated

11:00 a.m. to 12:30 p.m.

Room 8/9

DATA TOOLS

H04. EASTERN CARIBBEAN GEONODE

John Knowles, The Nature Conservancy; Tim Welch, Consultant

H05. ERMA 2.0: MIGRATING TO THE ELASTIC COMPUTE CLOUD

Chander Ganesan, Open Technology Group, Inc.; Robert St. Lawrence, University of New Hampshire, Research Computing Center

H06. AUTOMATED CROSS-SHORE MODELING AND ANALYSIS SYSTEM (AUTOCMAS)

Yi Zheng and Jeff Gangai, Dewberry

11:00 a.m. to 12:30 p.m.

Room 10/11

WHY BE TRADITIONAL? CREATIVE APPLICATIONS OF GEOSPATIAL INFORMATION

H07. CROWDSOURCING FLOODING DATA WITH A SMARTPHONE APP

William Stiles, Wetlands Watch

H08. BACK TO THE FUTURE: USING HISTORIC CLIMATE ANALOGS TO MAP CLIMATE CHANGE VULNERABILITIES IN THE MARIANA ISLANDS

Robbie Greene, CNMI Division of Coastal Resources Management

H09. CO-OPS WATER LEVEL APPLICATIONS FOR COASTAL RESILIENCE

Chris Paternostro, William Sweet, Lijuan Huang, and Audra Luscher, NOAA CO-OPS