



# DIGITAL COAST

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## CONNECTIONS

Dear Colleague,

It's that time again, time for the [Coastal GeoTools 2015](#) conference! The abstracts are in and the Association of State Floodplain Managers, sponsor of this year's conference, is hard at work, planning an amazing program that dives into what's working and what isn't in terms of coastal resource management and geospatial data and technology. All we need now are the attendees—that's where you come in.

Please join us in North Charleston, South Carolina, March 30 to April 2, 2015, for the premier conference for coastal geospatial applications. Register now to save your space.

Looking forward to seeing you in March.

Sincerely,

A handwritten signature in black ink that reads "Nicholas Schmidt". The signature is written in a cursive style and is positioned over a light gray rectangular background.

Nicholas Schmidt  
Chief, Science and Geospatial Division  
NOAA Office for Coastal Management



# REGISTER NOW!

REGISTER AT

<http://coastalgeotools.org/registration/>

**March 30 - April 2, 2015**

*North Charleston, SC*

 @FloodsOrg, @NOAADigCoast, #CGT15

 [www.facebook.com/ASFPM](http://www.facebook.com/ASFPM) and [www.facebook.com/NOAADigitalCoast](http://www.facebook.com/NOAADigitalCoast)

<http://coastalgeotools.org/>

## Data Updates

New and Updated Data Sets

### Elevation

- 2005 Hawai'i Office of Planning Lidar: Kilauea Crater
- 2005 Hawai'i Office of Planning Lidar: Kilauea Crater
- 2008 Florida Division of Emergency Management Lidar: Charlotte County
- 2008 Florida Division of Emergency Management Lidar: Indian River
- 2008 Florida Division of Emergency Management Lidar: Lee County
- 2009 Southwest Florida Water Management District Topographic Lidar: Peace River South
- 2009 U.S. Geological Survey (USGS) Topographic Lidar: Coastal North Slope (AK)

## Stories from the Field

Digital Coast Data and Tools in Action

### [Characterizing Fish Habitat within the Northern Gulf of Mexico Coastal Waters](#)

Commercial and recreational fisheries within the Northern Gulf of Mexico contribute significantly to the region's ocean economy, making effective management a priority. Instead of using traditional fishery stock assessments for management strategies, Galveston Bay used the recently developed coastal and marine ecological classification standards to look at habitat distribution for the management of brown shrimp. Using these standards helped managers incorporate habitat data into their critical habitat designations and decision-making process.

### [Using Lidar to Plan for Sea Level Rise in Oregon](#)

Since the late 1800s, farmers in Oregon

- 2010 USGS California Lidar: Salton Sea
- 2010 USGS Lidar: Hillsdale, Jackson, Lenawee Counties (MI)
- 2010 Virginia Information Technologies Agency/VGIN Lidar: Eastern Shore (VA)
- 2011 Southwest Florida Water Management District Lidar: Hillsborough County
- 2011 Southwest Florida Water Management District Lidar: Pasco County
- 2011-2012 U.S. Army Corps of Engineers (USACE) Topobathy Lidar: Lake Erie (MI,NY,OH,PA)
- 2012 NOAA Lidar: Bridge Creek (OR)
- 2012 Southwest Florida Water Management District Lidar: Lake Manatee
- 2012 USACE Topobathy Lidar: Lake Michigan (MI, WI)
- 2012 USACE Topobathy Lidar: Lake St. Clair (MI)
- 2012 USGS Lidar: Louisa County (VA)
- 2013 NOAA Topographic Lidar: U.S. Virgin Islands
- 2013 Puget Sound Lidar Consortium Lidar: Saddle Mountain (OR)
- 2013 Sonoma County, California, Lidar
- 2013 USACE Lidar: ERDC Echo Valley Training Center (WV)
- 2013 USACE: ERDC Rice Rivers Center (VA)
- 2013 USACE: NAO, Craney Island (VA)
- 2013 USACE: Rio de la Plata and Puerto Nuevo (PR)
- 2013 USACE Topobathy Lidar: Long Island (NY)
- 2013 USACE Topobathy Lidar: Stamp Sands, Lake Superior (MI)
- 2013 USGS Virginia Lidar: Norfolk
- 2014 Puget Sound Lidar Consortium Lidar: Cedar River Watershed (Delivery 1)

have been diking estuarine wetlands for their own agricultural benefit. Today, sea level rise threatens to flood the dikes and squeeze out the remaining wetlands in the area. Using lidar and aerial photography, the Oregon Coastal Zone Management Program worked to create an inventory of all the dikes to inform and prioritize future projects to allow marshes to migrate and protect existing infrastructure. The inventory is also being used to predict what the coasts would look like under different sea level rise scenarios.

## News from our Coastal Colleagues

### U.S. Climate Resilience Toolkit Now Live

The [U.S. Climate Resilience Toolkit](#) provides scientific tools, information, and expertise to help people manage their climate-related risks and opportunities, and improve their resilience to extreme events. The site is designed to serve a broad audience—citizens, businesses, planners, and others—and includes case studies, tools, training, and a five-step process to become more resilient to climate-related hazards. The toolkit was developed by a partnership of federal agencies and organizations led by NOAA.

## Additional Updates

### See Ecosystem Services in Action

This short, interactive [animation](#) helps people understand how beach dunes, wetlands, shellfish beds, seagrasses, and living shorelines can buffer communities from storm impacts. This resource can help organizations promote the use of green infrastructure

- 2014 USACE Topobathy Lidar: Avalon (NJ)

in their communities and educate their constituents.

## Imagery

- 2013 Rio Puerto Nuevo, Puerto Rico Airborne Digital Sensor40 4-Band 8 Bit Imagery

**Training Calendar** See the trainings that are coming up on the [trainings calendar](#).

## Land Cover

- 1985 Coastal Change Analysis Program (C-CAP) Regional Forest Fragmentation Land Cover
- 1992 C-CAP Regional Forest Fragmentation Land Cover
- 1992-2010 C-CAP Regional Land Cover Change
- 2003-2010 American Samoa Tutuila High Resolution Land Cover Change
- 2004-2010 American Samoa East Manua High Resolution Land Cover Change
- 2004-2010 American Samoa Swains High Resolution Land Cover Change
- 2004-2010 American Samoa West Manua High Resolution Land Cover Change
- 2005-2010 Hawai'i Kauai High Resolution Land Cover Change
- 2005-2010 Hawai'i Niihau High Resolution Land Cover Change
- 2005-2011 Hawai'i Oahu High Resolution Land Cover Change
- 2006-2009 American Samoa Rose High Resolution Land Cover Change
- 2010 C-CAP Regional Forest Fragmentation Land Cover
- 2010 Hawai'i Kauai High Resolution Land Cover
- 2010 Hawai'i Niihau High Resolution Land Cover
- 2011 Hawai'i Oahu High Resolution Land Cover
- C-CAP Wetland Potential Layer



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Send your product, personnel, or event news to [Caitlyn.McCravy@noaa.gov](mailto:Caitlyn.McCravy@noaa.gov). We'll include it in *Digital Coast Connections*, space permitting. For answers to additional questions, contact [coastal.info@noaa.gov](mailto:coastal.info@noaa.gov).

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