



AAG Annual Meeting

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Paper Session:

3207 Advances and Challenges in Digital Elevation Models II (Coastal)

is scheduled on Thursday, 4/11/2013, from 10:00 AM - 11:40 AM in Palos Verdes, Westin, Lobby Level

Sponsorship(s):

Coastal and Marine Specialty Group
 Geomorphology Specialty Group
 Spatial Analysis and Modeling Specialty Group

Organizer(s):

[Barry Eakins](#) - University of Colorado
[Jeffrey J. Danielson](#) - United States Geological Survey

Chair(s):

[John Brock](#) - USGS

Abstract(s):

10:00 AM Introduction: [John Brock](#) - USGS

10:00 AM Author(s): *Amar Nayegandhi - Dewberry

Abstract Title: *Merging LiDAR and acoustic data along coastal California*

10:20 AM Author(s): *Jeffrey J. Danielson - United States Geological Survey
 *Dean Tyler - United States Geological Survey
 John C Brock - United States Geological Survey

Abstract Title: *Creation of a Topobathymetric Elevation Model for San Francisco Bay Using Improved Geospatial Methods*

10:40 AM Author(s): *Stephan O'Brien - The University of Southern Mississippi
 David Dodd, PhD - The University of Southern Mississippi
 James Davis - The University of Southern Mississippi
 Jerry D. Wiggert, PhD - The University of Southern Mississippi

Abstract Title: *Development of a Dynamic Digital Elevation Model in the Gulf of Mexico*

11:00 AM Author(s): *Monica Palaseanu-Lovejoy - USGS, EGSC Reston, VA
 John Barras - USGS, SPCMSC Louisiana CPRA Colocation Office

Abstract Title: *Defining Levee Geometric Metrics from High Resolution Airborne Lidar Topography in South Louisiana*

11:20 AM Author(s): *John Barras - U.S. Geological Survey, St. Petersburg Coastal and Marine Science Center, St. Petersburg, FL, USA
 John Brock - U.S. Geological Survey, Coastal and Marine Geology Program, Reston, VA, USA
 Monica Palaseanu-Lovejoy - U.S. Geological Survey, Eastern Geographic Science Center, Reston, VA, USA
 Cindy Thatcher - U.S. Geological Survey, Eastern Geographic Science Center, Reston, VA, USA
 Jeffery Danielson - U.S. Geological Survey, EROS Center, Sioux Falls, SD, USA
 Dean Gesch - U.S. Geological Survey, EROS Center, Sioux Falls, SD, USA

Abstract Title: *Airborne and Terrestrial Lidar Collaboration for Improving Topobathymetric Mapping in Coastal Louisiana*

Session Description: Digital elevation models (DEMs) are a fundamental base layer for many applications, such as hydrologic and storm surge modeling , tsunami and sea-level rise modeling, ecosystems management and habitat research, coastal and marine spatial planning, sediment-transport analysis, and hazard mitigation and community preparedness. We invite papers/illustrated papers on recent advances in DEMs, including new techniques for building or evaluating DEMs, and in challenges that DEMs pose to applications that require them. How can DEMs be improved to support better planning or research? What are the limitations of DEMs in how they are used? How does DEM uncertainty or inaccuracy impact results derived from their use?

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