



## AAG Annual Meeting

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### Paper Session:

#### 3107 Advances and Challenges in Digital Elevation Models I (Overview)

is scheduled on Thursday, 4/11/2013, from 8:00 AM - 9:40 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):

**8:00 AM Introduction:** [John Brock](#) - USGS

**8:05 AM Author(s):** \*Barry W Eakins - University of Colorado  
 Jeffrey J Danielson - U.S. Geological Survey  
 \*John Brock - USGS

Abstract Title: *Creating an Integrated Framework for U.S. Digital Elevation Models*

**8:20 AM Author(s):** \*XiaoHang Liu - San Francisco State University

Abstract Title: *Accuracy Assessment of LiDAR-Derived DEM*

**8:40 AM Author(s):** \*Mark Masry, B.Sc.EE, Ph.D. - CARIS

Abstract Title: *Variable Resolution Surfaces: techniques and applications*

**9:00 AM Author(s):** \*Kurt Schwehr, PhD - Google  
 Jamie Adams - Google  
 Jenifer Austin Foulkes - Google

Abstract Title: *Classification of Bathymetry Grids Using Open Source Tools*

**9:20 AM Author(s):** \*Dean Gesch - U.S. Geological Survey

Abstract Title: *Accounting for Vertical Uncertainty in Elevation-Based Sea-Level Rise Assessments*

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**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?

New Query