



FALL 2013 SEMINAR SERIES

DEPARTMENT OF OCEAN, EARTH, AND ATMOSPHERIC SCIENCES
3PM – ROOM 200 IN THE OCEANOGRAPHY/PHYSICS BUILDING
THURSDAY NOVEMBER 21st, 2013

“GEOSPATIAL TECHNOLOGIES: FROM MAPPING TO MODELING.”

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ABSTRACT

Geospatial technologies and techniques (GIS, GPS, Remote Sensing) are rapidly becoming /required/ "tools of the trade" for Oceanographers and other scientists. The manner in which these tools may be employed to address questions involving space/location is virtually limitless. A brief survey of a few basic GIS applications will be presented and one case study, urban (campus) flooding visualization, will be reviewed in greater detail. Enhanced visualizations that better communicate “on the ground” potential flooding impacts play an increasingly critical role in risk communication and emergency response. GIS and cartographic techniques combine surge forecasts, orthophotography, and building planimetrics for determination of critical infrastructure accessibility, economic losses, and identification of social vulnerabilities. Such applications require cautious and informed use of disparate data (meteorological, geospatial, infrastructural). Awareness of surge model limitations, factors inhibiting spatial representation, and technical and communications challenges is critically important.

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FOR COFFEE AND COOKIES, AND TO MEET WITH THE SEMINAR SPEAKER.**