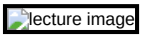

Special Guest Lectures

The ADvanced CIRCulation model (ADCIRC)

Dr. Hassan Mashriqui
Hurricane Center
Johnston Hall 338
May 19, 2006 - 10:00 am

Abstract:
The ADvanced CIRCulation model (ADCIRC) began to be used experimentally to forecast surge for approaching hurricanes beginning in 2002. Since then, a research team at the Louisiana State University Center for the Study of Public Health Impacts of Hurricanes and the Hurricane Research Center has submitted 33 forecasts to emergency management personnel for 10 hurricanes making landfall in the Gulf of Mexico. The operational potential was well demonstrated during the approach of Hurricane Katrina when 7 forecasts were issued prior to the landfall on August 29, 2005. Very good agreement between simulated surge elevation and high water marks was achieved in ADCIRC runs based on National Hurricane Center advisories issued up to 2 days before landfall. In this talk we will focus on other information produced by ADCIRC surge and current velocities during hurricane Katrina. Besied storm surge simulation several state-of-the-art coastal modeling are being developed by the school of the coast & environment research team. This talk will cover on going surge and ecological modeling efforts.

Speaker's Bio:
Dr. Mashriqui is a licensed professional engineer and civil/water resources engineer. He is currently developing coastal hydrologic/hydraulic modeling capabilities for the LSU Center for the Study of Public Health Impacts of Hurricanes utilizing storm surge forecasting. His research interests include coastal and inland flooding due to hurricanes; hydrodynamic and sediment transport modeling; wetland restoration; river management; Geographic Information Systems and Light Detection And Ranging (LIDAR) technology-based environmental modeling. He is actively involved with the Natural Systems Modeling Group and Laboratory at the LSU School of the Coast and Environment in support of numerous coastal restoration research efforts.

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