

PLENARY SESSION

Plenary Talk 4 - Disaster Predictions in Support of Response Preparedness in the Coastal Zone

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Many coastal cities exist under the significant threat of flooding and are facing growing flood risk due to factors that include relative sea level rise, increasingly virulent storms and human development. Risk mitigation planning and design in coastal areas such as these are dependent on the delineation of flood hazards by sophisticated computer models such as ADCIRC. The Hurricane Storm Damage and Risk Reduction System around New Orleans is a preeminent example of risk mitigation infrastructure designed using this model. Dr. Rick Luettich provided an overview of ADCIRC capabilities, its uses from forensic studies to mitigation design, and the development and application of the ADCIRC Prediction System (APS), which provides a new generation, event-based, coastal flood prediction capability for use in response preparedness.