

DHI facilitates knowledge sharing on shoreline protection in Florida

On 27 March 2013, DHI co-hosted and participated in a one-day open workshop with special emphasis on the management and protection of the Florida coastline. The workshop, titled “Modelling Coastal Processes and their Effect on Shoreline Morphology”, attracted 25 local professionals and representatives from regulatory authorities, government agencies, engineering firms, environmental consultants and universities. DHI co-hosted the event together with the Florida Department of Environmental Protection (FL DEP) and the Beaches and Shores Resource Center at Florida State University.

From theory to tangible case studies

The workshop included an opening session with a general overview of the scientific background, theory and methodology for the modelling of integrated coastal hydraulics, waves and geomorphology processes presented by Dr. Julio Zyserman. This session was followed by presentations of various case studies related to modelling of: coastal processes, inlet stability, shoreline evolution, impact from coastal structures, sedimentation and dredging, climate change etc. - and how these issues can be addressed with numerical models such as MIKE 21 and LITPACK in this case.

The case studies were presented by Yong Chen from Coastal Systems International “South End Palm Beach Nourishment”; Chris Day from Coastal Planning & Engineering “Borrow area 11 modeling & analysis for potential impacts, Panama City beach, FL” and Julio Zyserman, DHI “Numerical Modeling Assessment of Dredging Spoils Dispersion and Deposition, Fort Lauderdale, FL” (in collaboration with Olsen Associates) and “Optimization of Harbor Layout through Coastal Area Morphological Modeling”.



Knowledge sharing and discussions

The successful workshop provided a good forum for discussions and an excellent opportunity for the attendees to exchange experience and knowledge about how to manage and protect the Florida coastline to ensure healthy beaches, safe navigation and minimal impact from new developments and coastal structures.

If you are interested in attending or co-hosting future events like this, please contact Mikkel Andersen.

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Software:

MIKE BY DHI, MIKE CUSTOMISED BY DHI