Workshop:

Modeling water level dynamics in intertidal zones using the Time-integrated Model of Shallow-water Availability (TiMSA)

September 7-8, 2022
09:00 – 13:00 EDT
Online and in-person at the Harte Research Institute

Topics

Module 1 - Overview and applications (Sept. 7)

- TiMSA history and overview
- Changes in Water Levels: A Primer
  - Physical constraints
  - Drivers and processes
  - Example methods/models
- The TiMSA model
  - Data domains
  - Inputs/outputs of TiMSA
- Inference: output and issues
- Open discussion: Model limitations
  - Wind-driven systems
  - Larger spatial domains
  - Resolution of space-time
- Known issues and potential solutions

Module 2 - Applying the model (Sept. 8, optional)

- Technical details of TiMSA model
- Hands-on programming
- Scaling TiMSA

Overview:

TiMSA is a hydrological model that quantifies the spatial and temporal dynamics of shallow-water availability in the intertidal zone. Although originally designed to quantify wading bird foraging habitat availability, TiMSA's concept could be applied for a wide range of conservation, restoration, and management goals in coastal systems. This workshop is designed to understand the model's framework, provide a technical walkthrough, and discuss model limitations and tradeoffs in model-realism and scale.

Instructors:
Leonardo Calle (TiMSA developer)
Antonio Cantu (HRI-TAMUCC)
Dale E. Gawlik (HRI-TAMUCC)

Click here to register now!

TEXAS A&M UNIVERSITY CORPUS CHRISTI | HARTE RESEARCH INSTITUTE FOR GULF OF MEXICO STUDIES

FAU FLORIDA ATLANTIC UNIVERSITY

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION