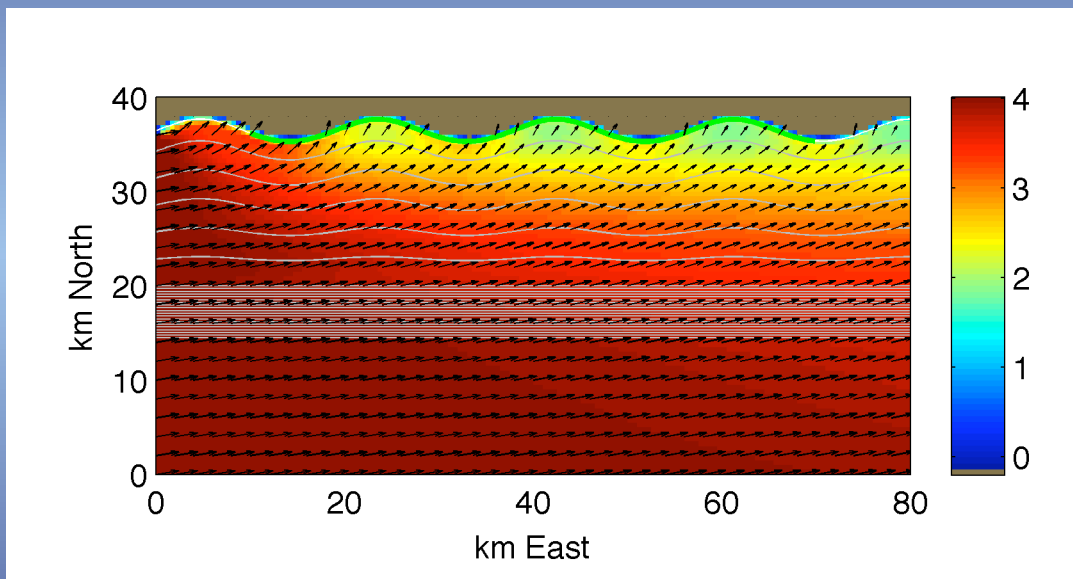


# Proof of Concept Idea #1: Large Scale Coastal Evolution Modeling with “Realistic” Wave Treatment

Pete Adams and Jessica Lovering - *University of Florida*

Dylan MacNamara - *UNC Wilmington*

Brad Murray - *Duke University*

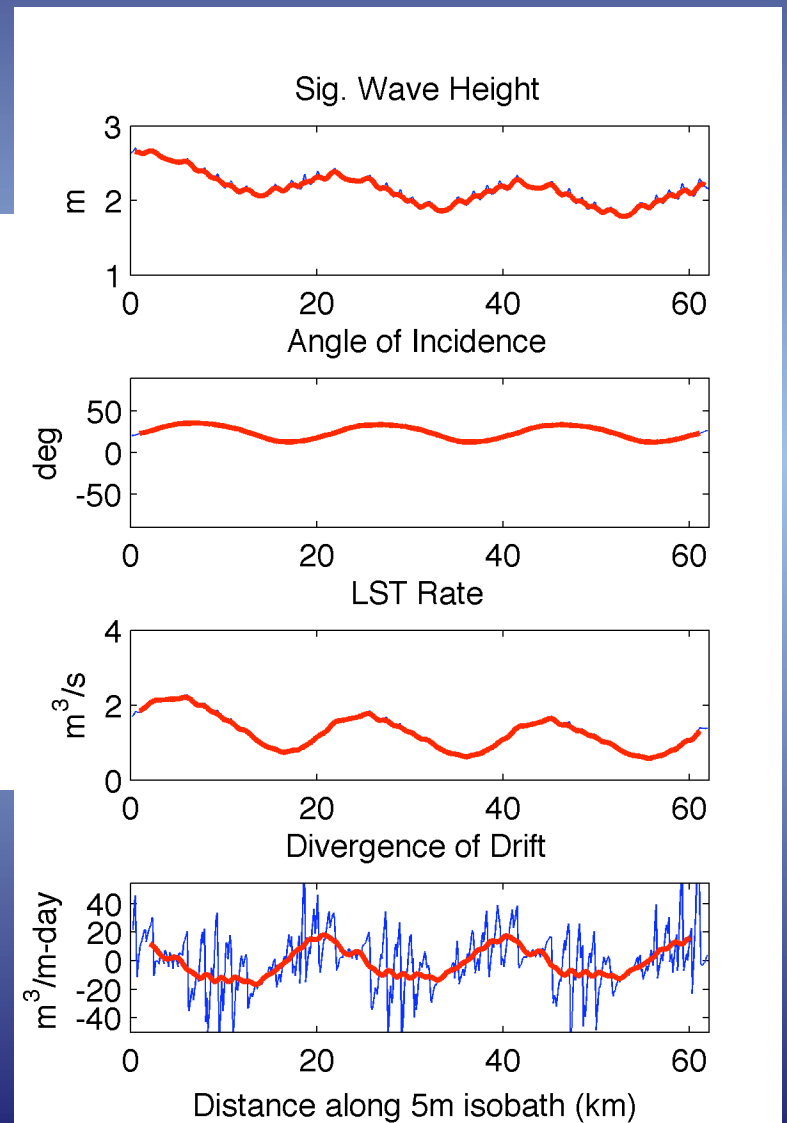


“What I got”:

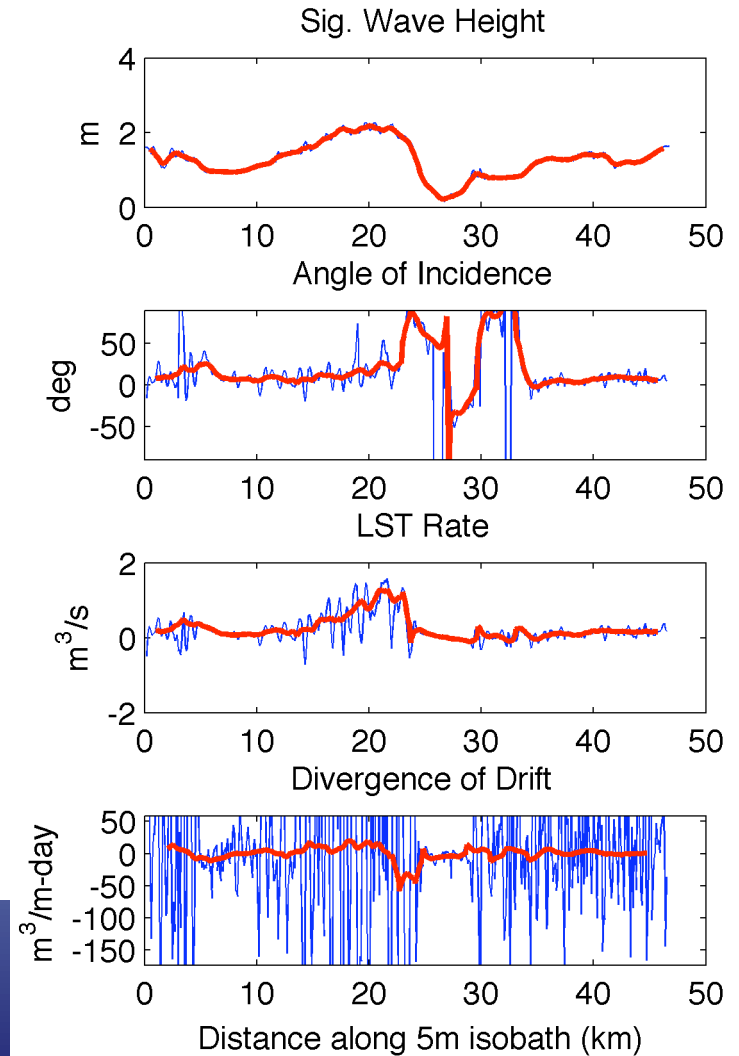
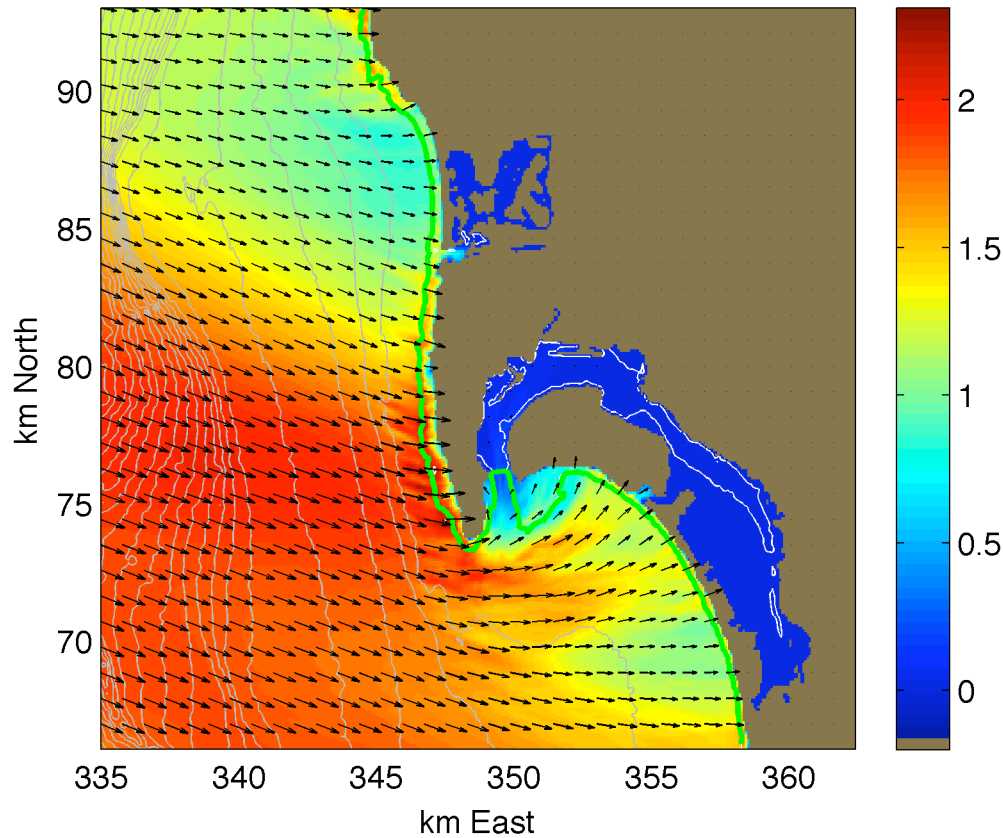
WETSED – A Model Coupling Wave Transformation and Longshore Sed Transport

“What I need”:

Some means of appropriately redistributing transported sediment within the nearshore.



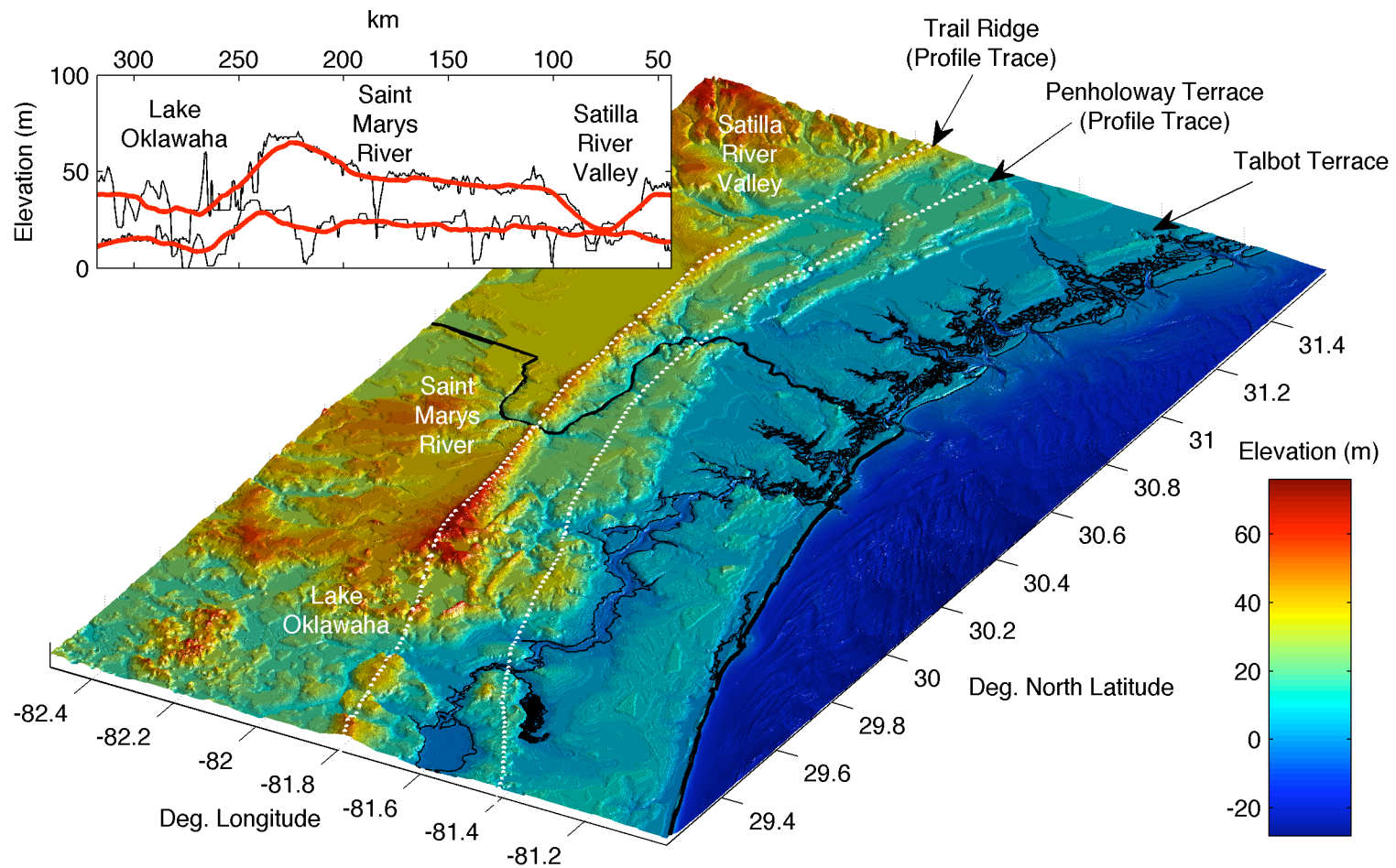
# Application to a Specific Site – e.g. San Diego



Wave B.C.'s:  $H=4m$ ,  $T=12s$ ,  $D=305deg$

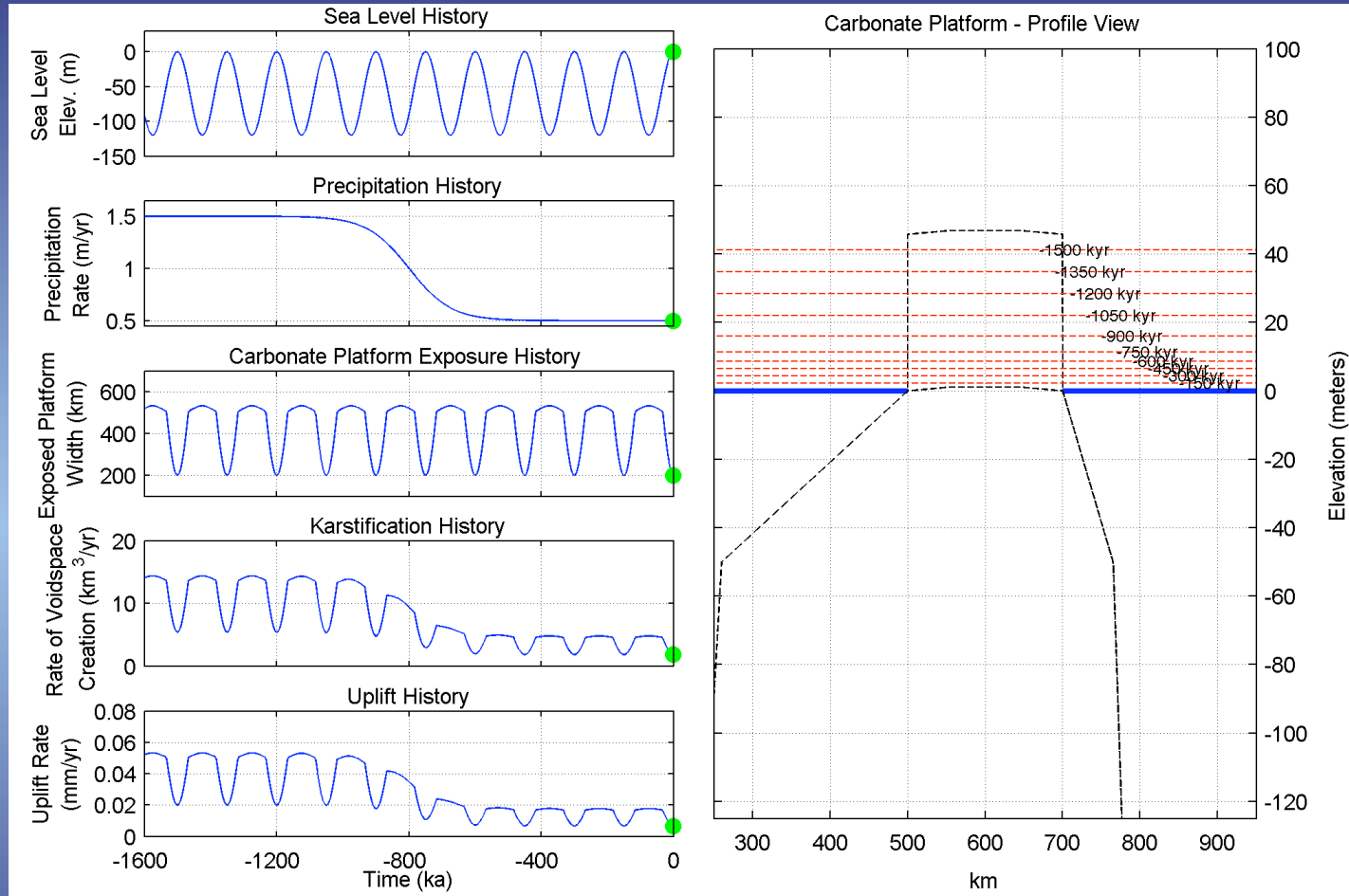
## *Proof of Concept Idea #2:*

# Karstostasy: Epeirogenic Uplift From Solutional Landscape Denudation



## Proof of Concept Idea #2:

# Karstostasy: Epeirogenic Uplift From Solutional Landscape Denudation



“What I got”:

A Simple Model Linking Precipitation, Sea Level Oscillation, Karstification, and Isostatic Uplift

“What I need”:

Improvement on all aspects – starting with void space generation and flexural isostasy

# Model Architecture (the wiring diagram)

