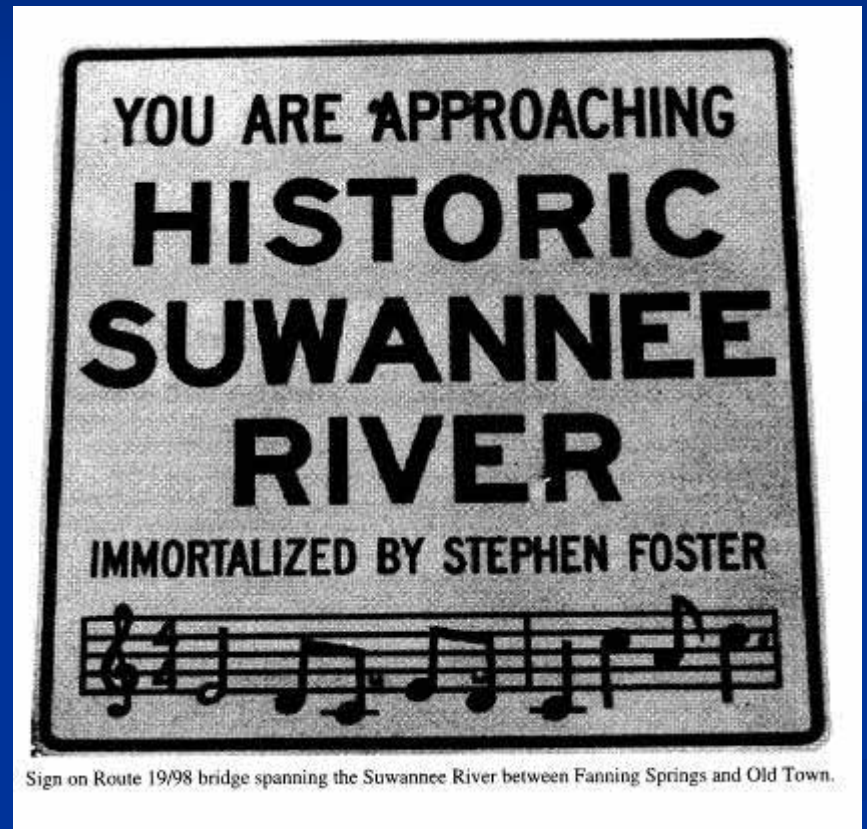


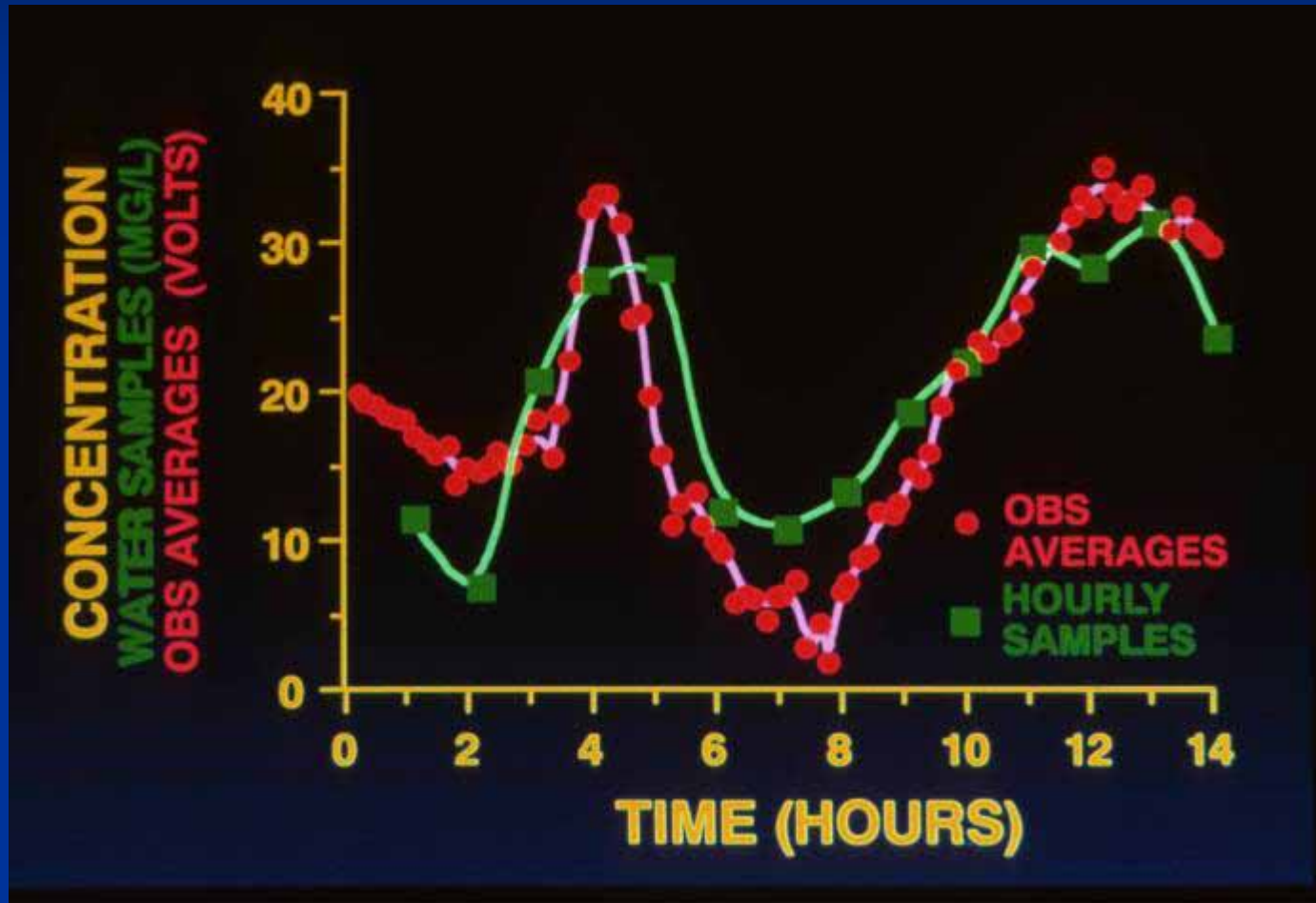
# Who are we?

- Geological oceanographers
- Use geophysical tools to obtain images of seafloor and its subsurface.
- Use geological tools to groundtruth these images.

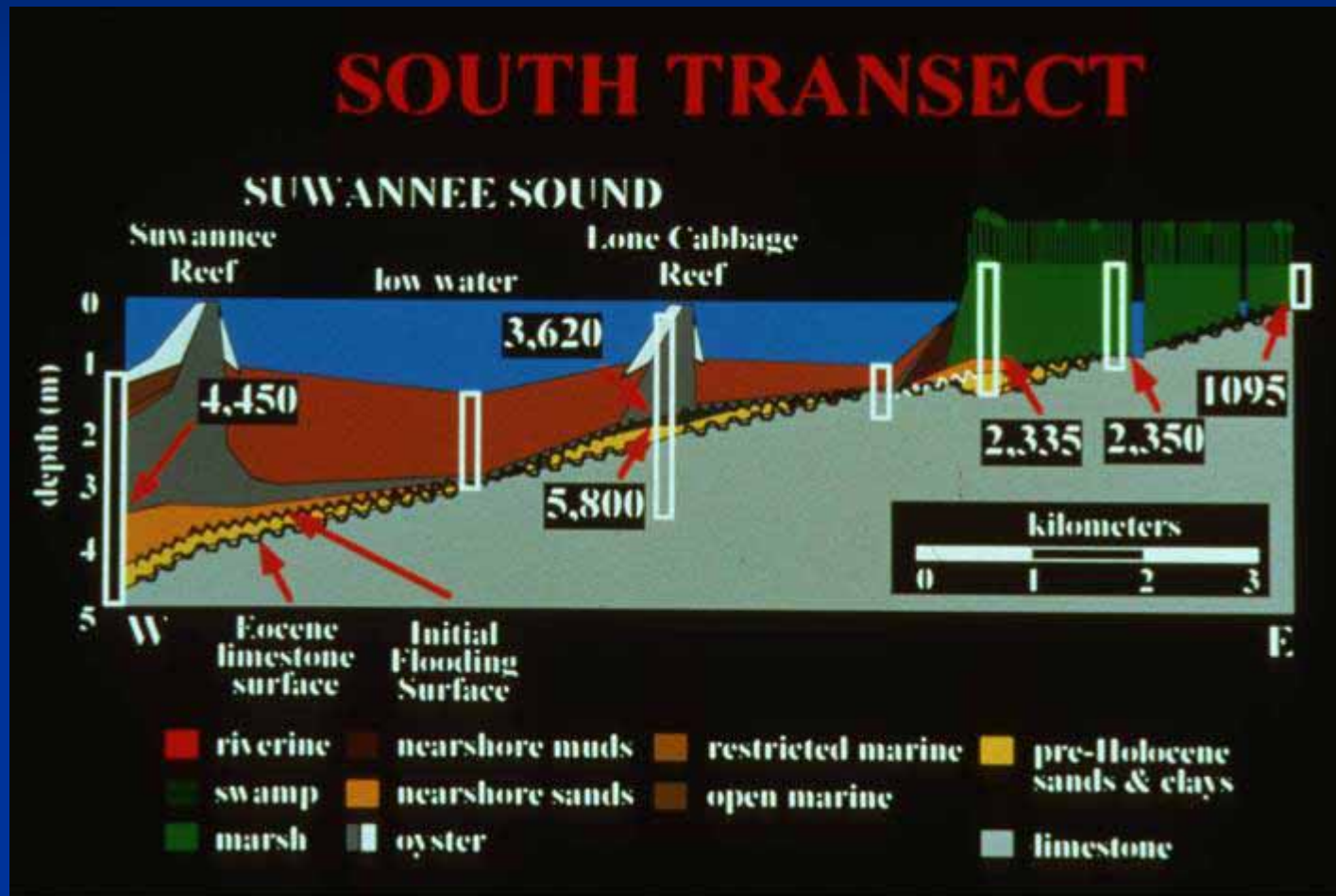




# Sedimentary process studies



# Geologic framework studies





# Karstified Eocene Limestone Surface

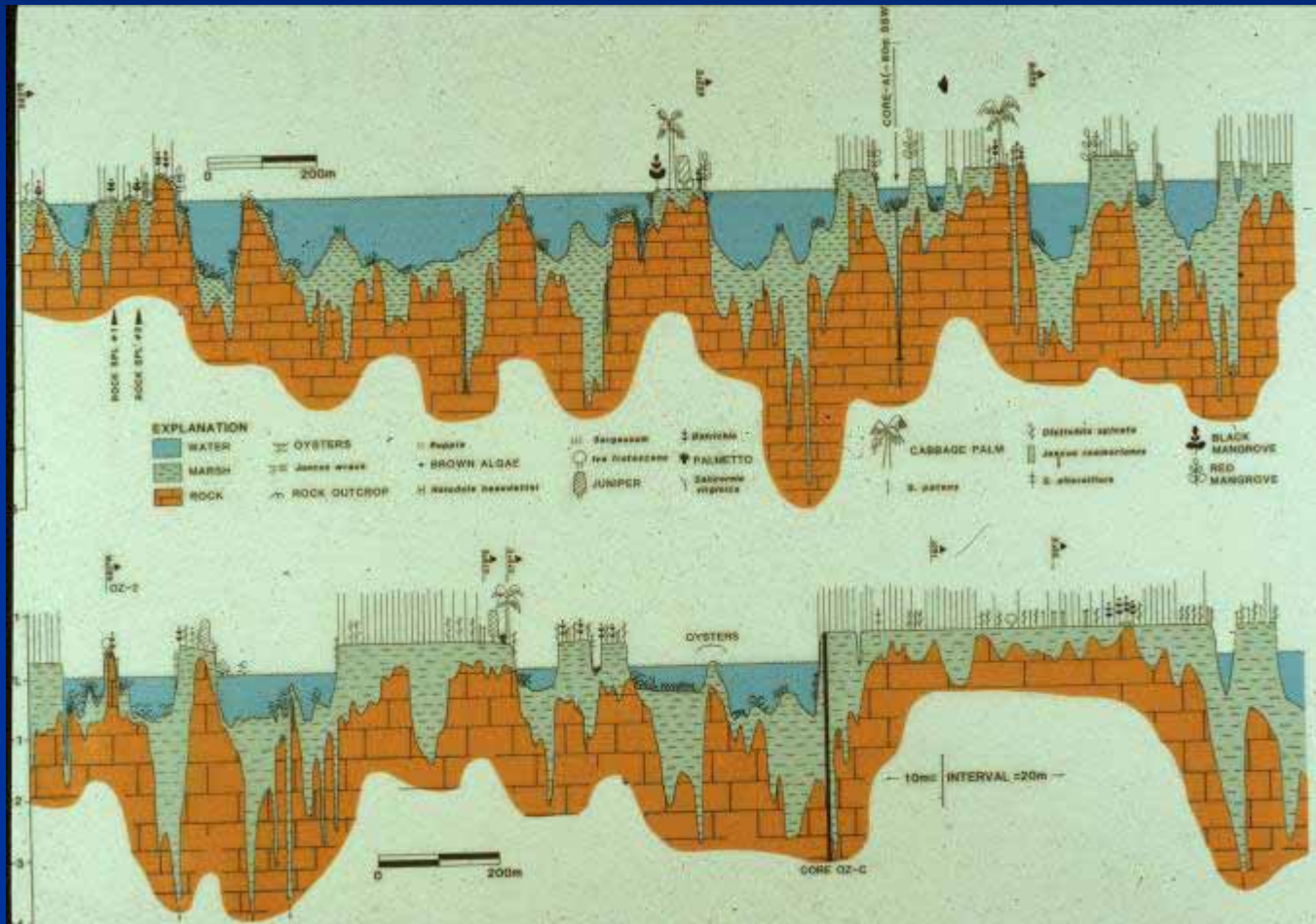


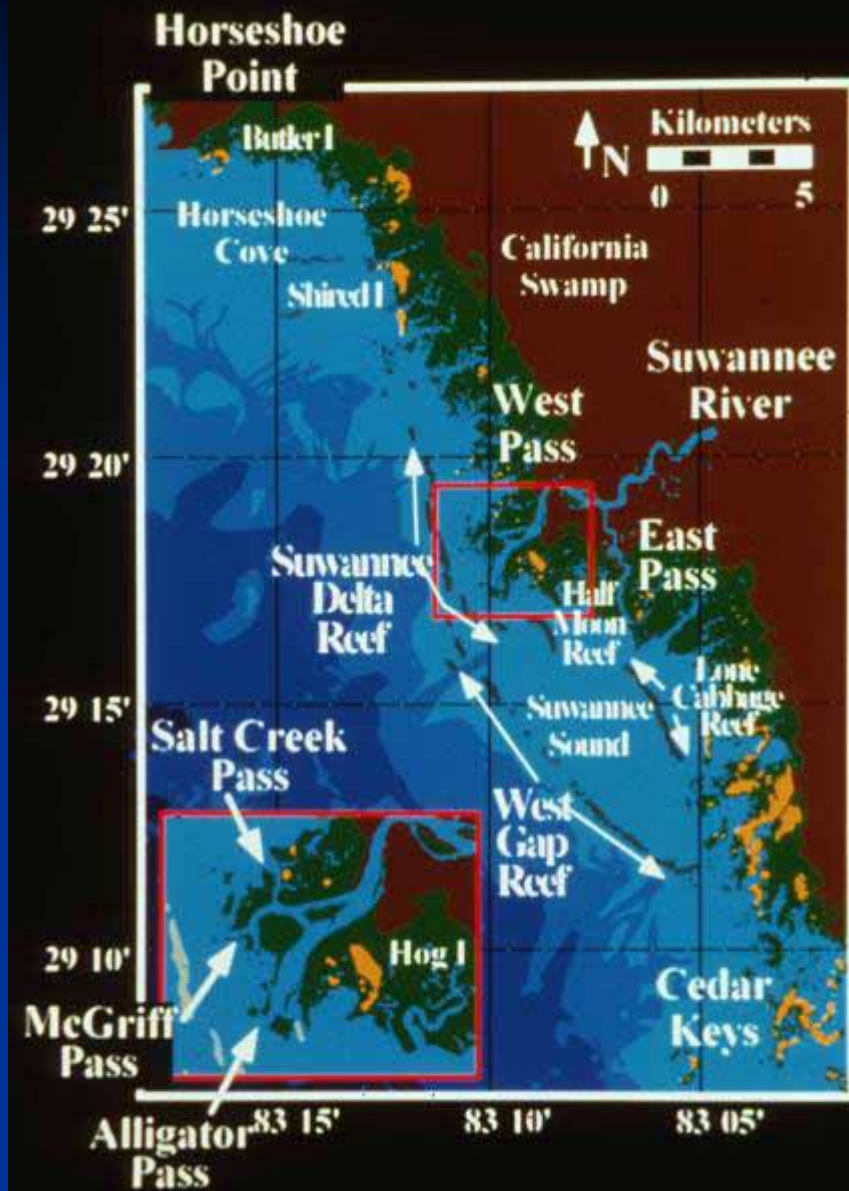
# Marsh Hammocks





# Bedrock Control on Marsh Hammocks







# THE DELTA

12-14-89

USDA

40

12000

889-188

Salt Creek  
Pass

McGriff  
Pass

West  
Pass

Hog  
Island

Suwannee  
Delta  
Reef

Alligator  
Pass

Half  
Moon  
Reef

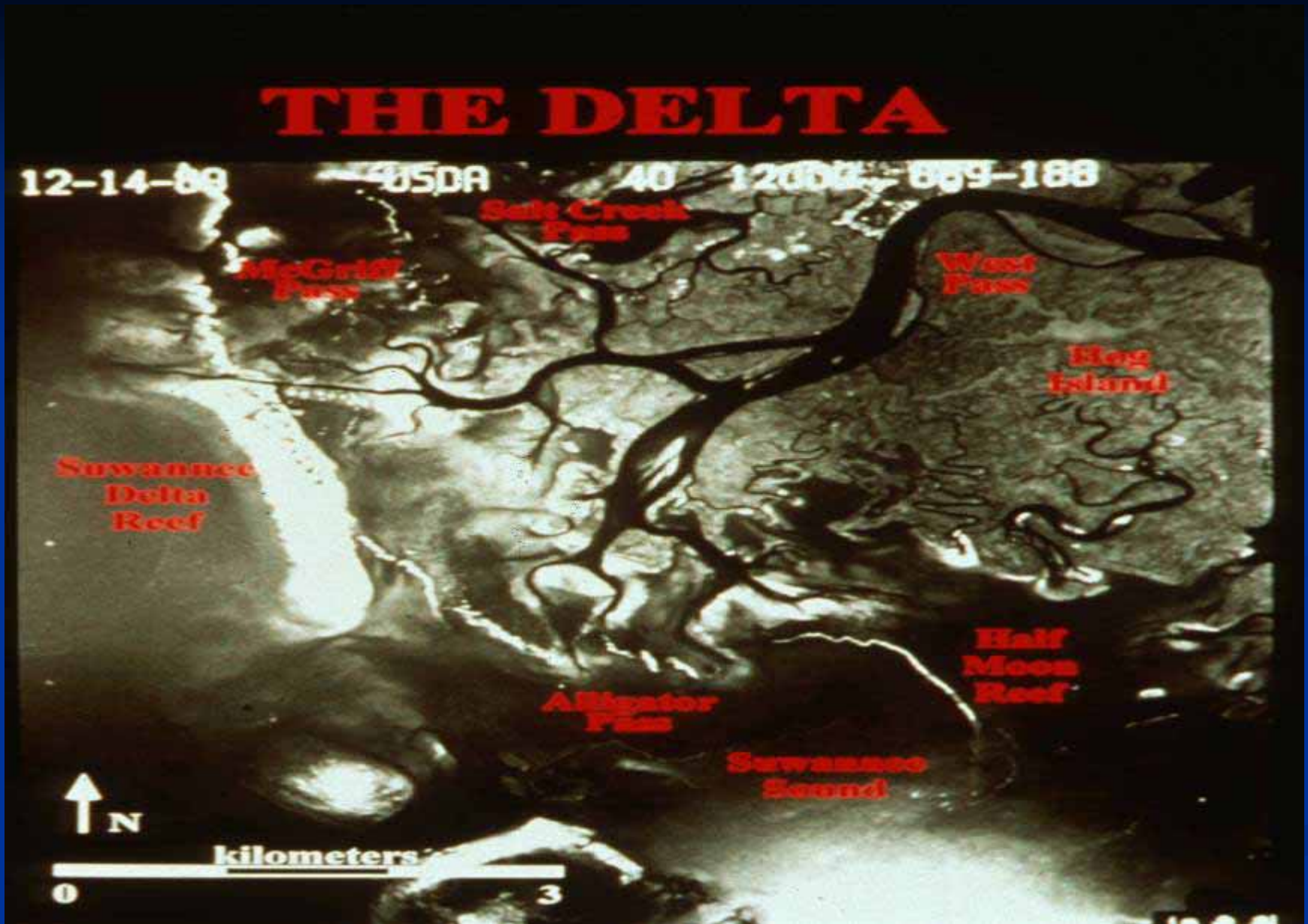
Suwannee  
Sound



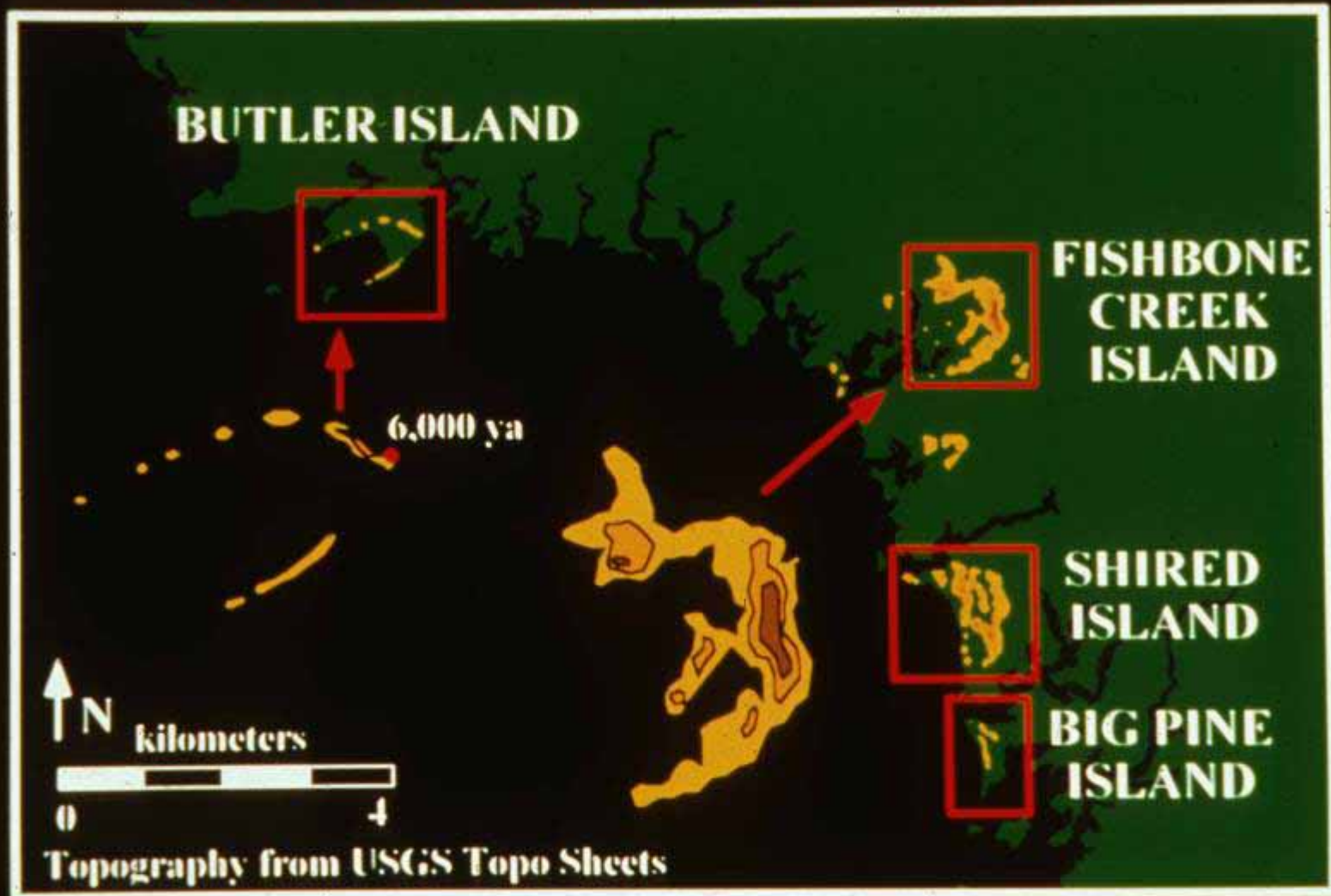
kilometers

0

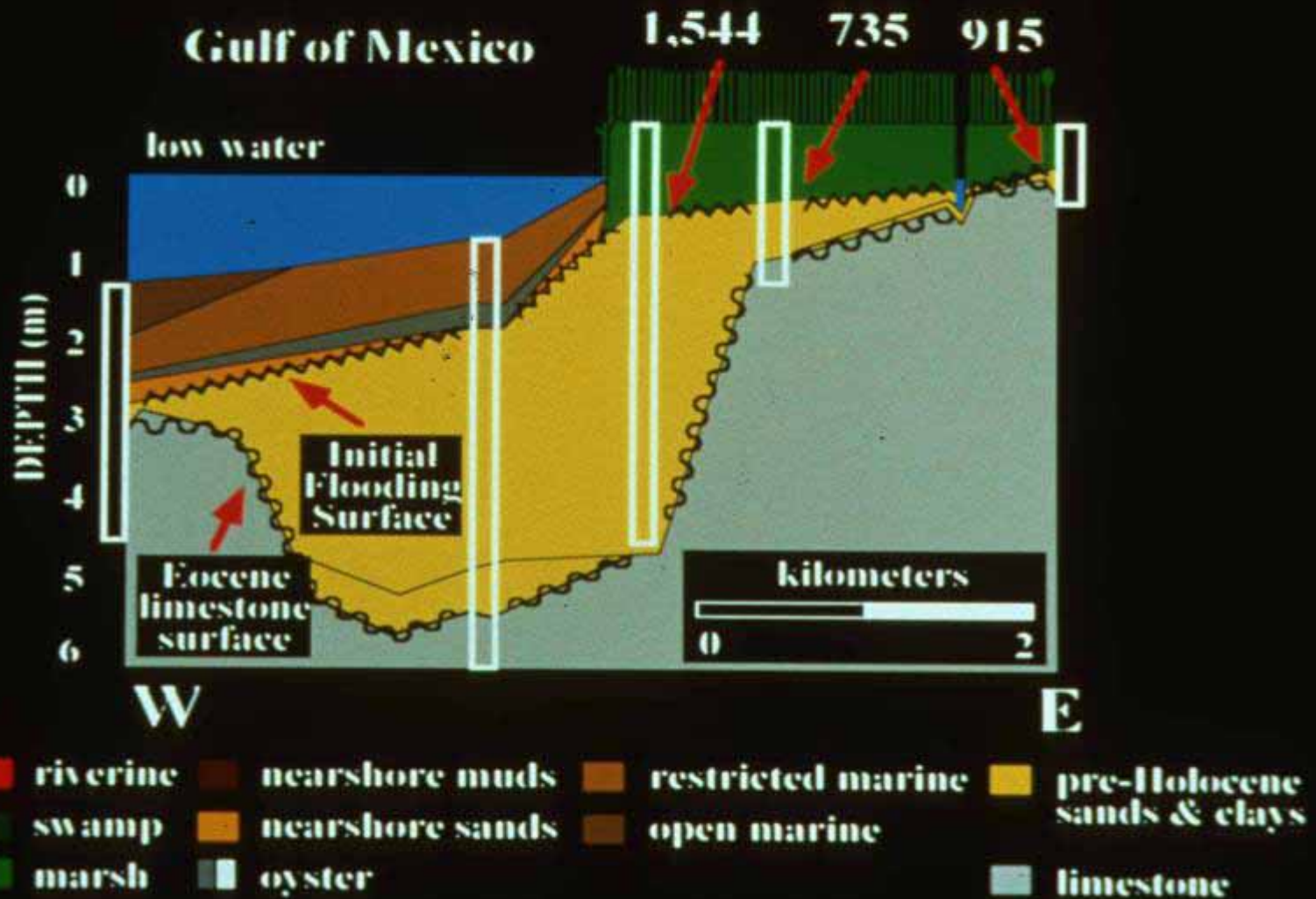
3



# ISLANDS/PALEO SAND DUNES

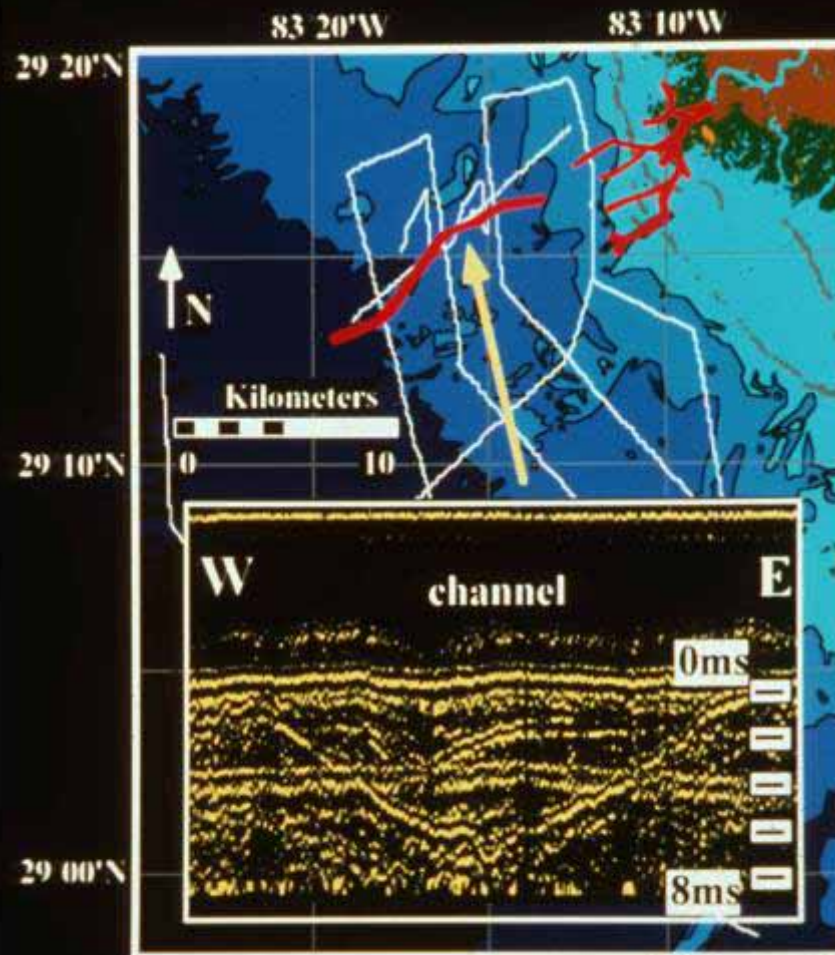


# NORTH TRANSECT



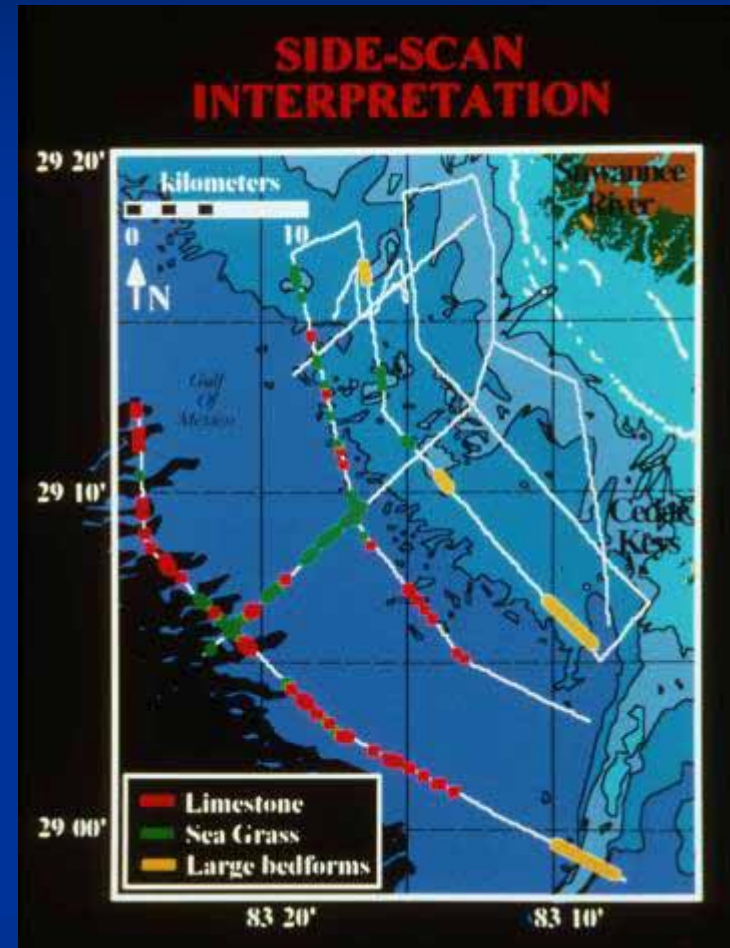


# PALEO-CHANNELS



# The past...

- Widely spaced track lines producing incomplete benthic maps
- Poor navigation
- Analog, limited digital acquisition and processing
- Map products hand constructed on computers
- Labor intensive



# Bedforms on Suwannee River Bottom

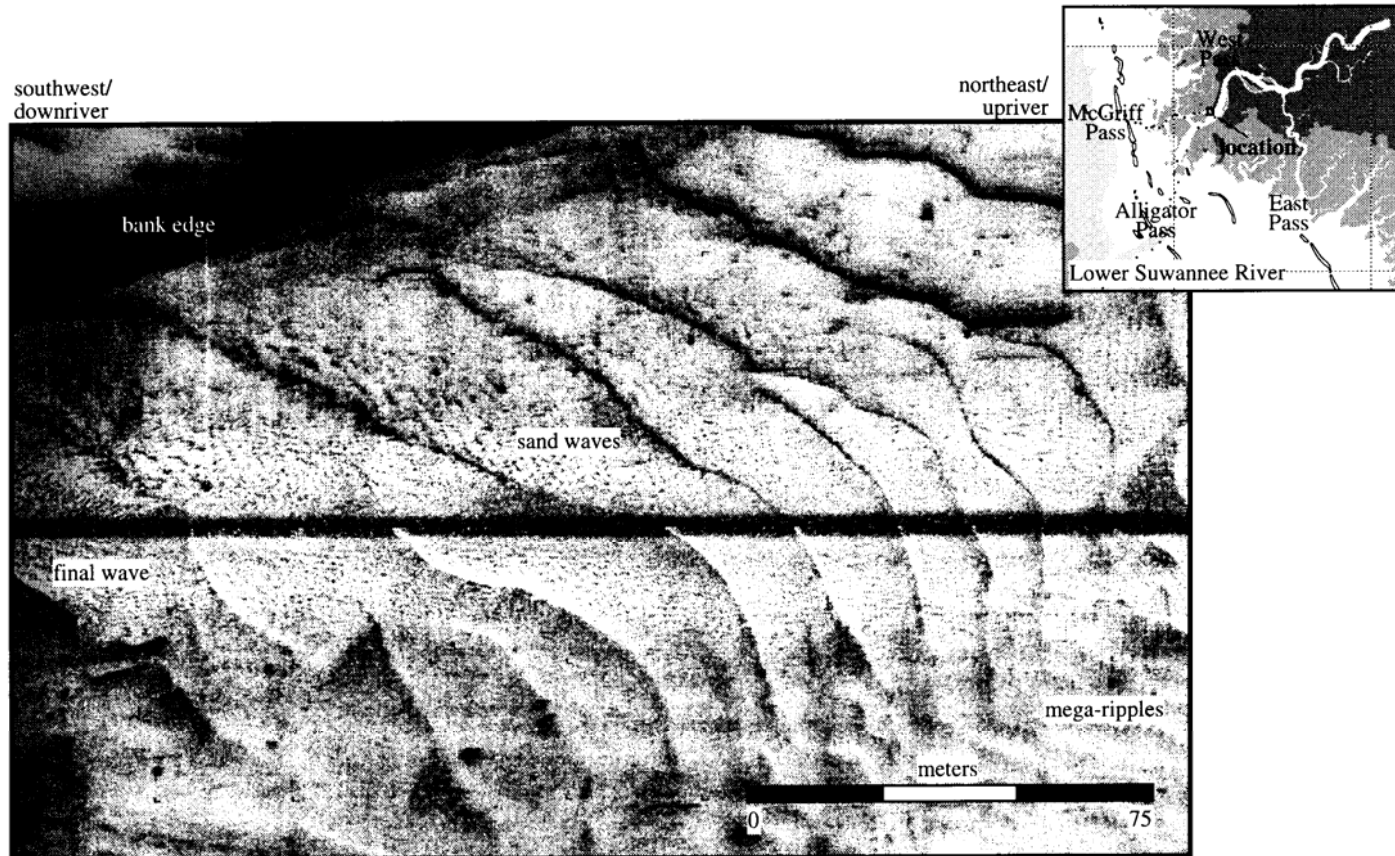
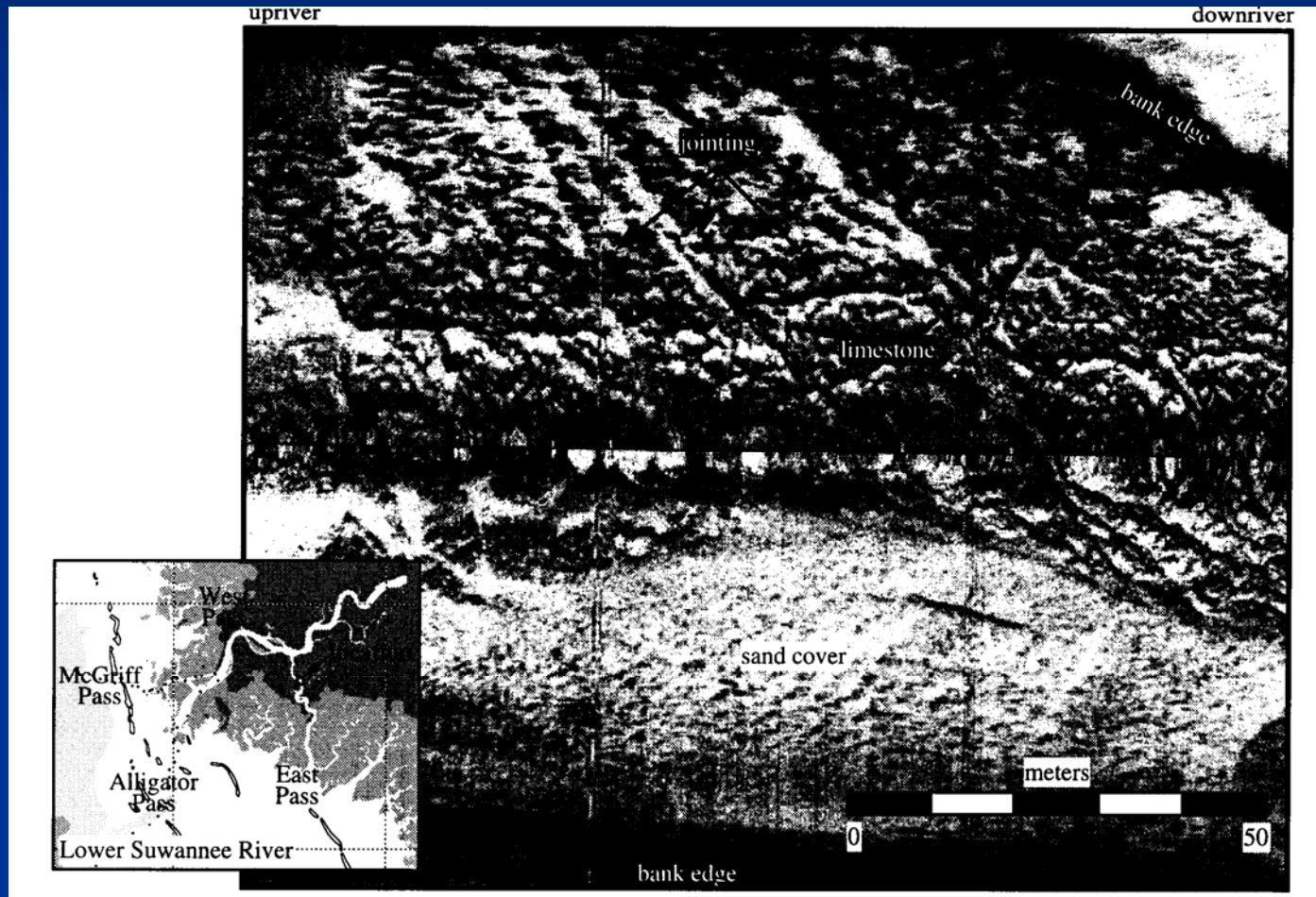
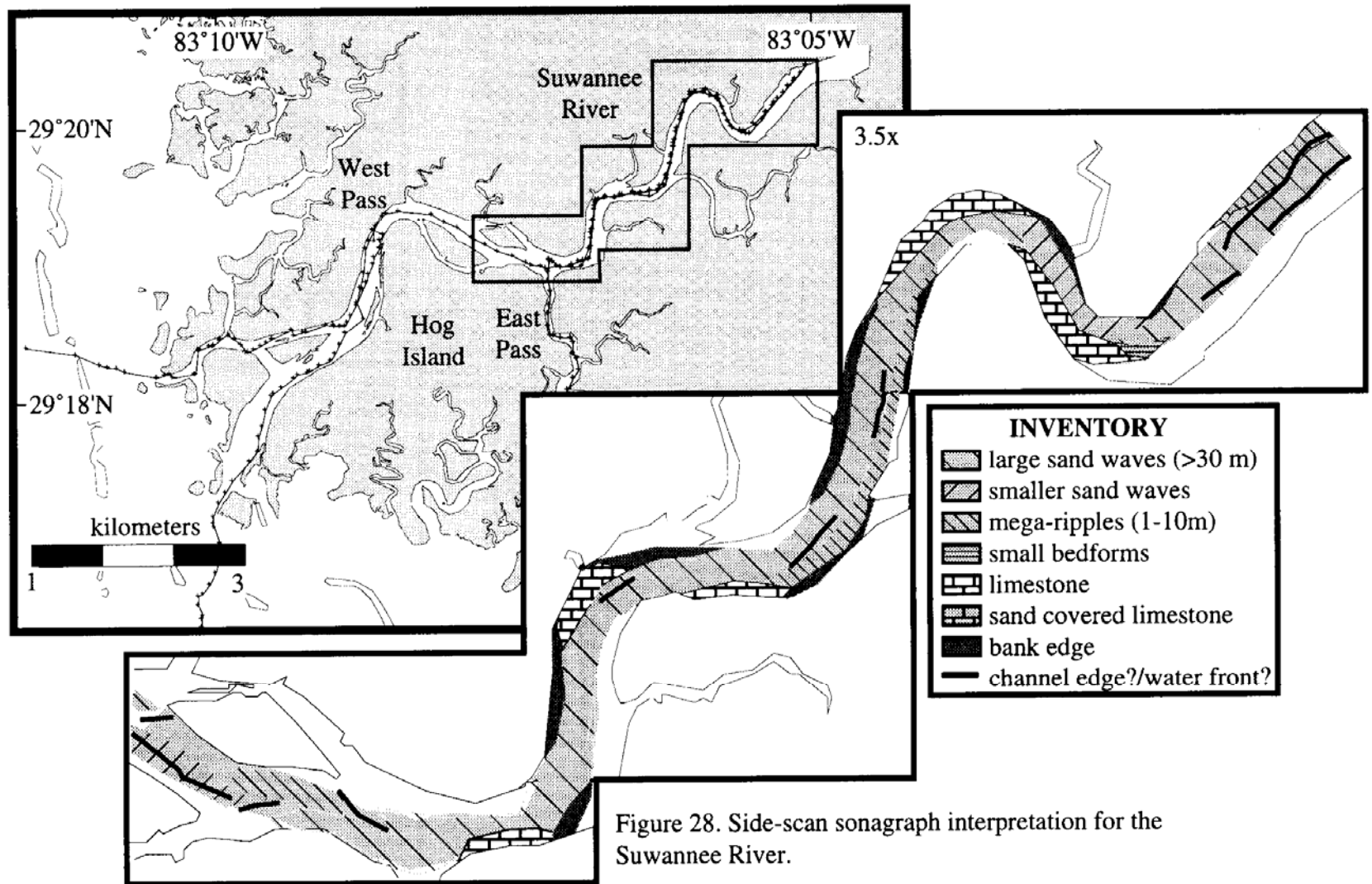


Figure 33. Side-scan sonograph (slant-range corrected) of sand waves ending into McGriff Pass.



# Limestone Outcrop on Suwannee River Bottom



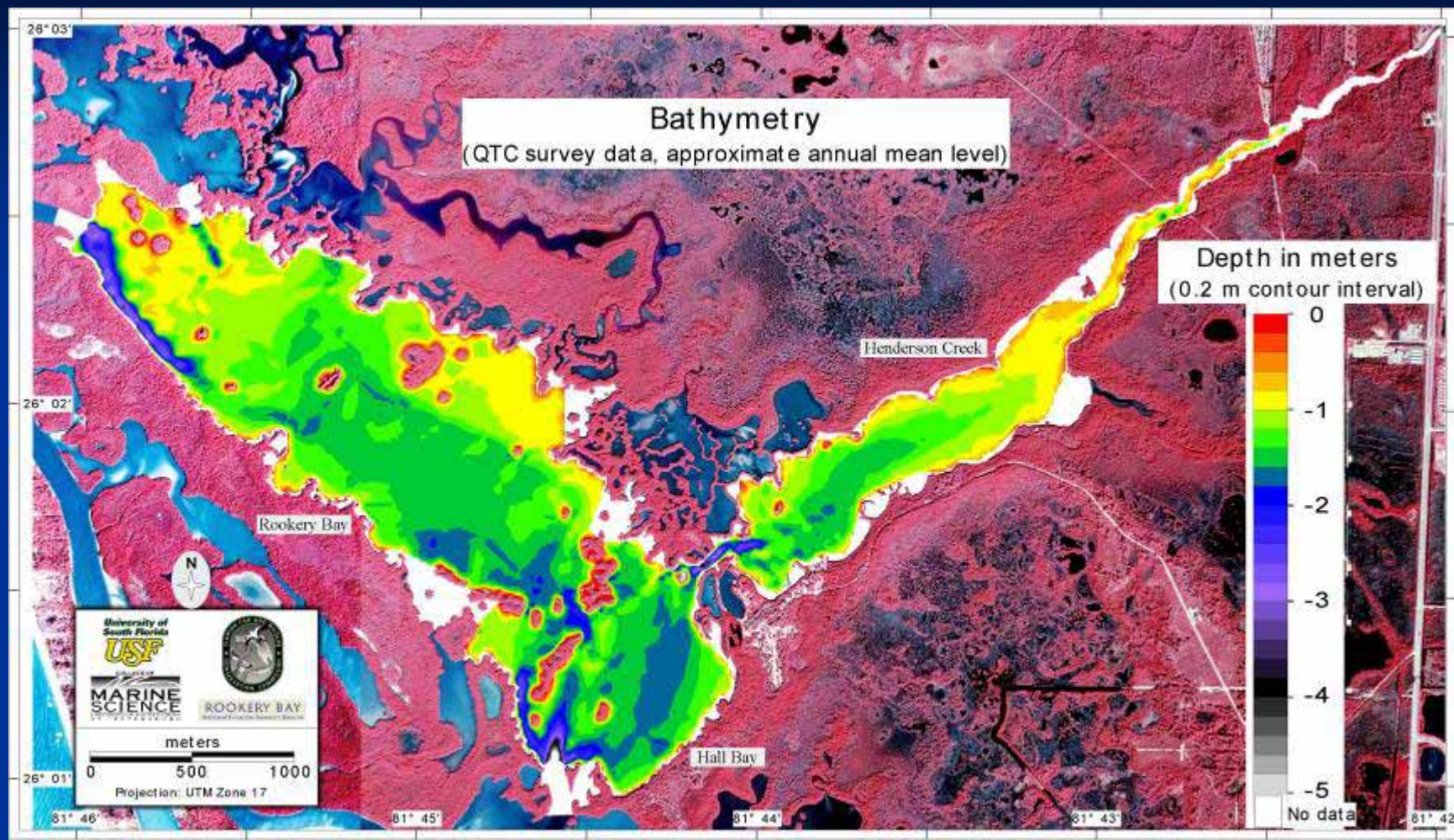


# The present, future...

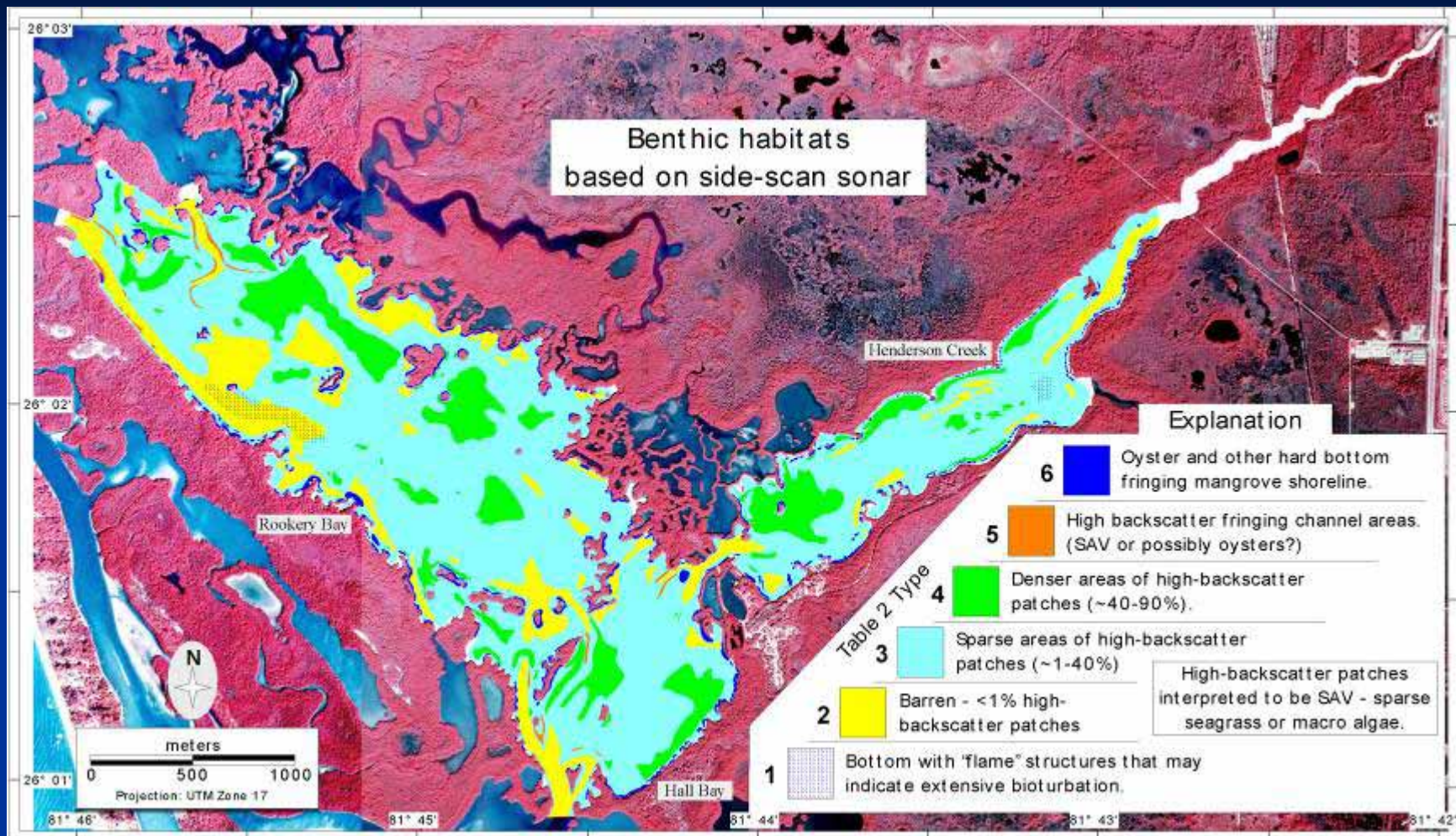
- Precise navigation
- Digital acquisition and processing
- Computer generated maps
- Precise bathymetry
- Seafloor classification systems
- Map benthic habitats



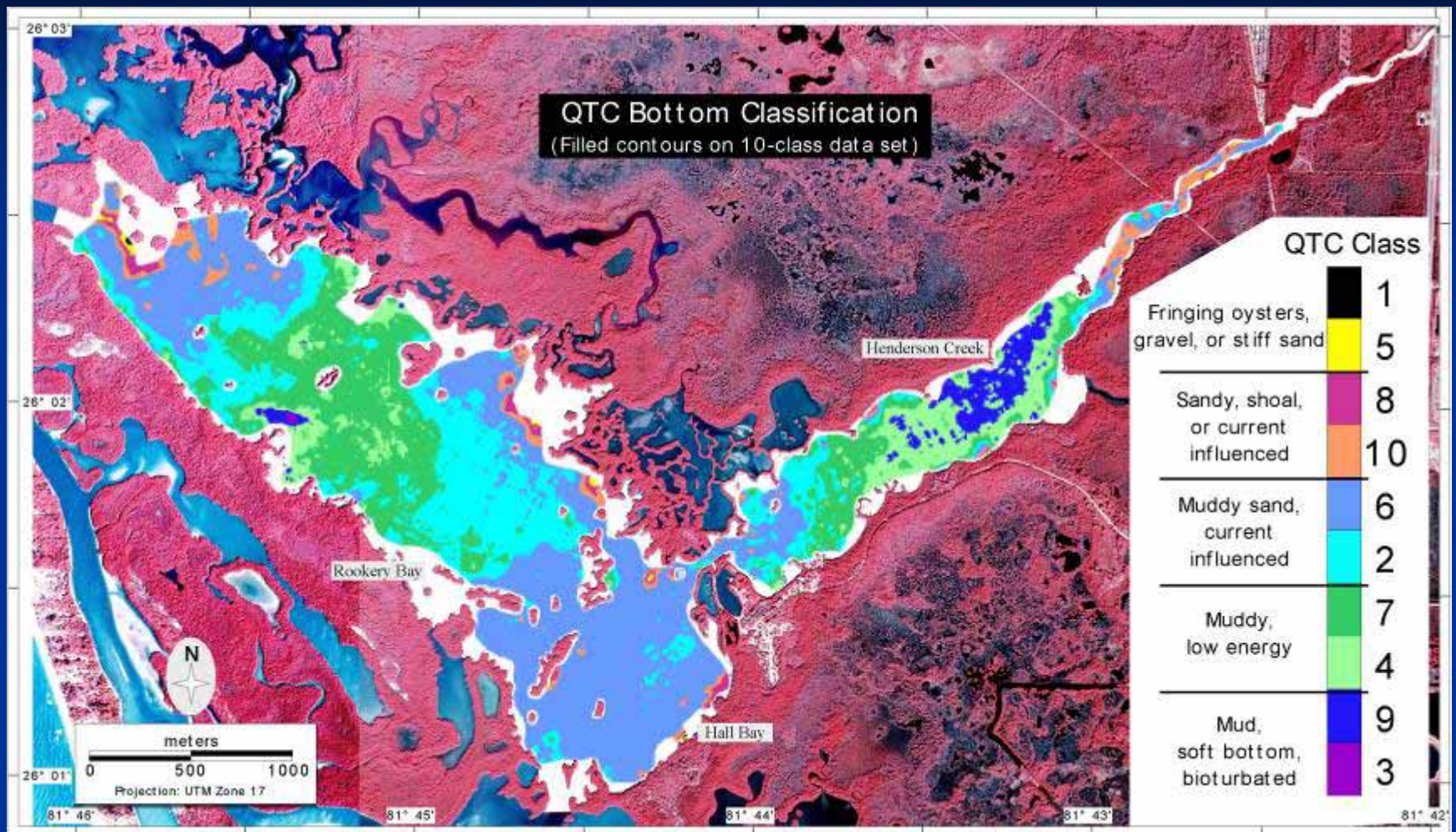














# We propose...

- Baseline bathymetric, benthic habitat, and seafloor mapping for the lower Suwannee River and the adjacent inner continental shelf.
- These tools are essential in ecosystem management; can be used to ask more fundamental questions.

