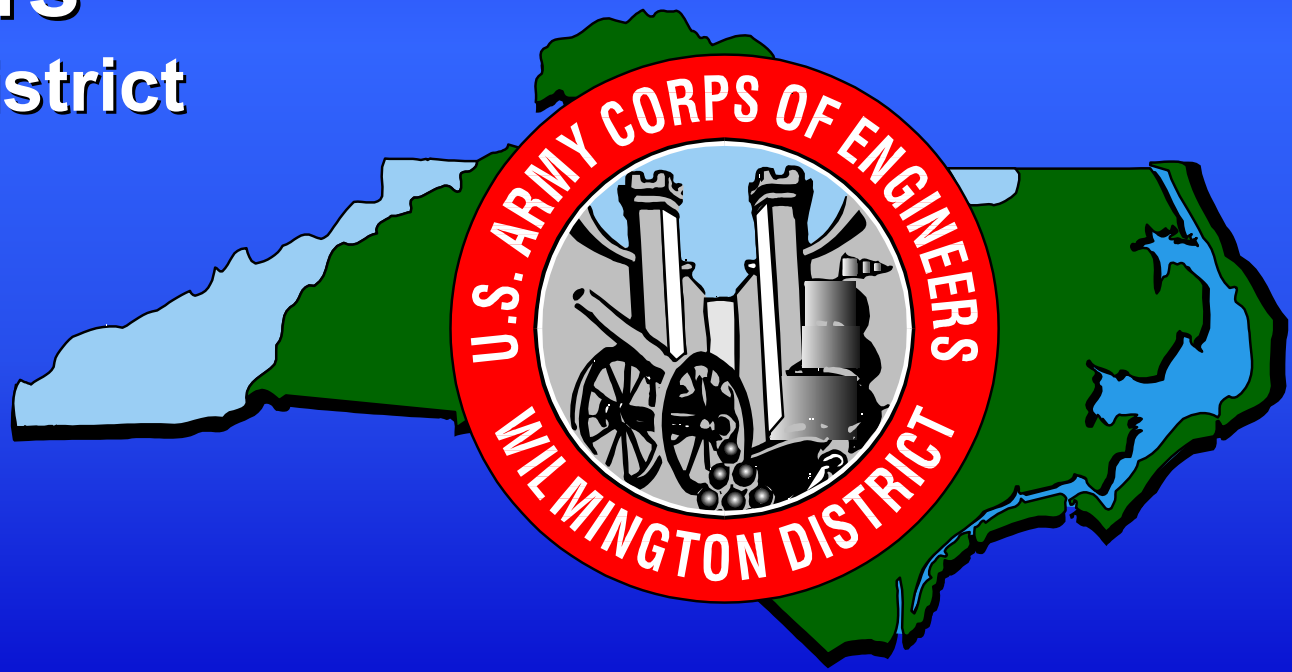
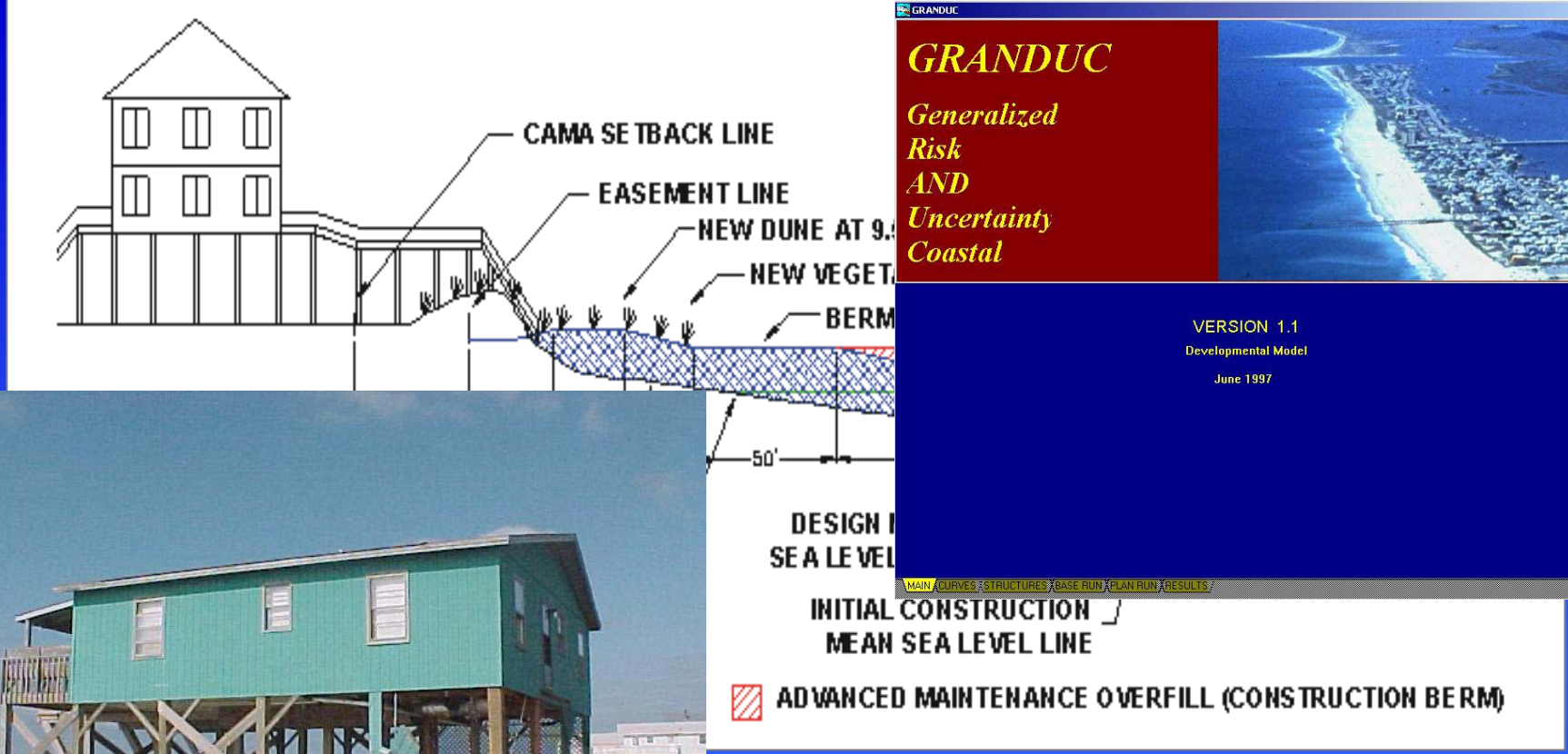
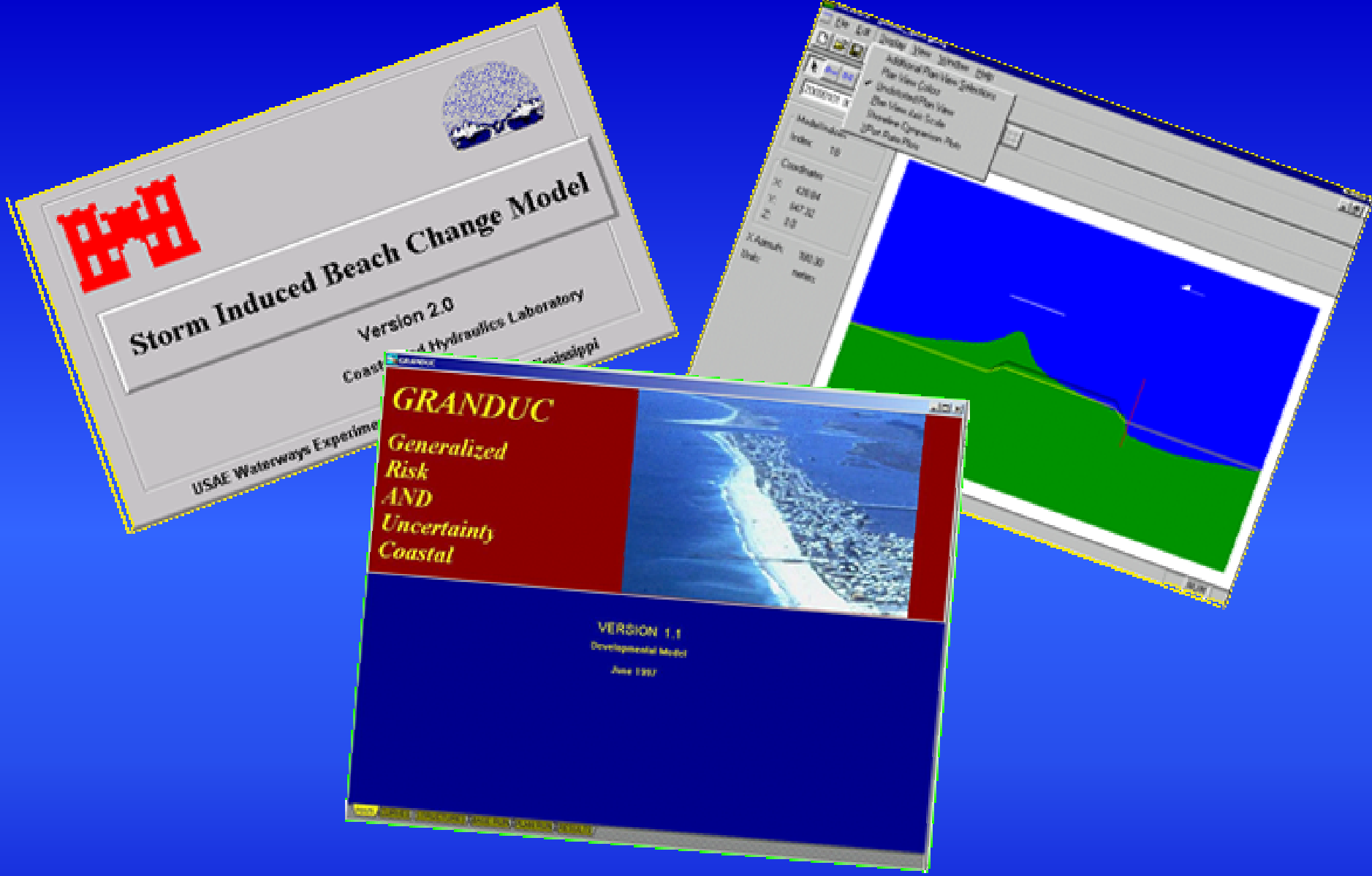
U.S. Army Corps of Engineers

Wilmington District





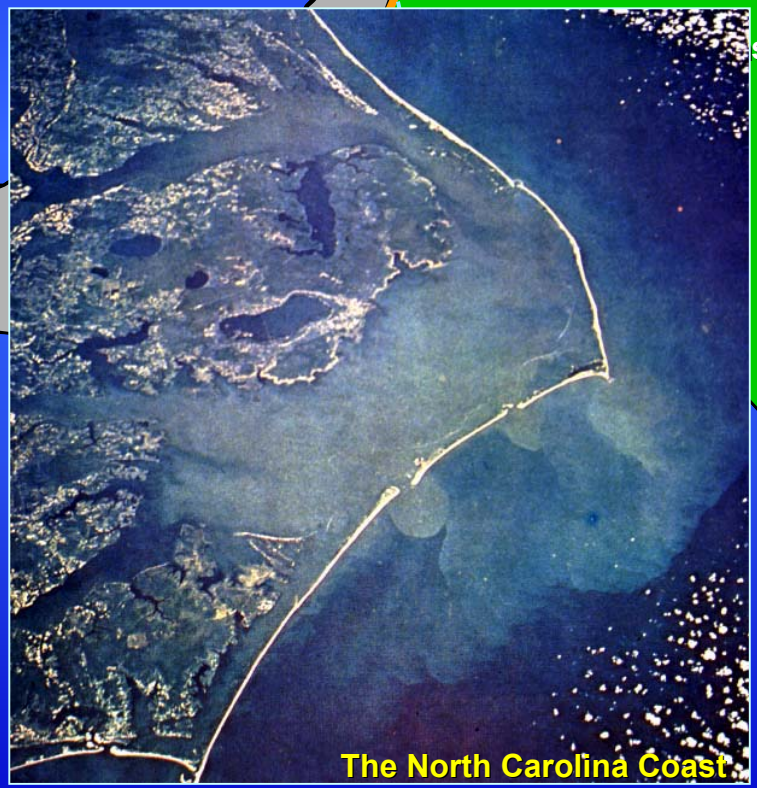
The required risk and uncertainty analysis, the life-cycle approach, the changes in coastal construction, and increasing coastal regulation have complicated the analysis of beach projects.



Funds for the development of tools to analyze Beach Projects have lagged the increase complexity of the analysis.

Authorized Coastal Projects

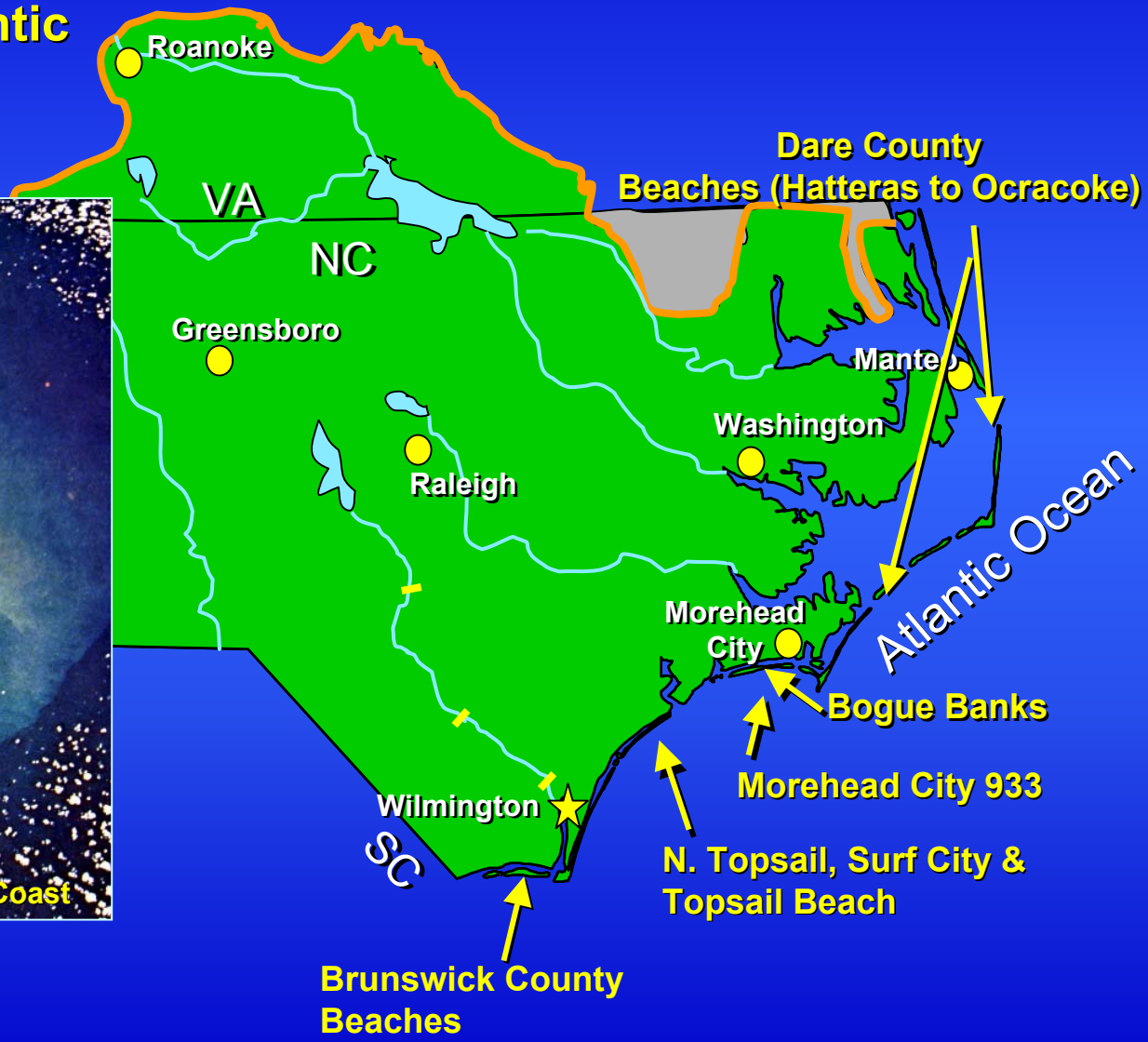
Atlantic storm activity has increased since 1995 with just under 2/yr on the east coast.



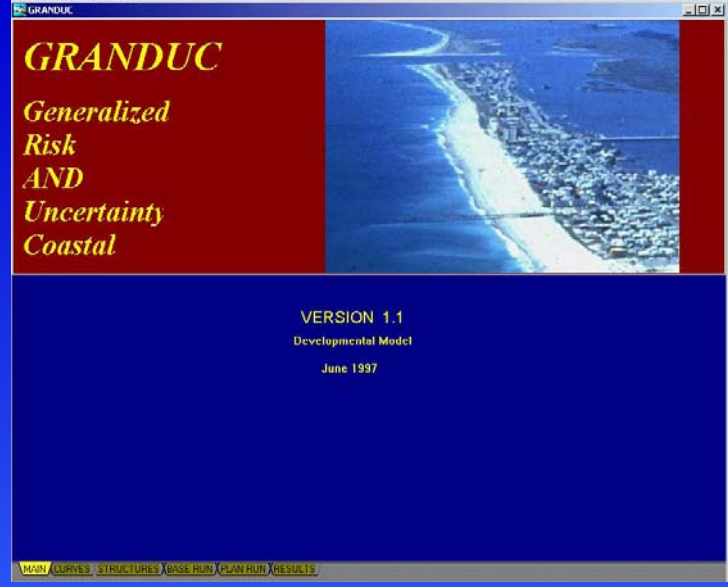
Roanoke
VA
NC
sboro
Raleigh
Manteo (Shallowbag) Bay
& Dare County
Beaches
Manteo
Washington
Atlantic Ocean
Morehead
City
Wrightsville Beach
Carolina Beach
Kure Beach
Wilmington Harbor
Wilmington
SC
Ocean Isle
Beach

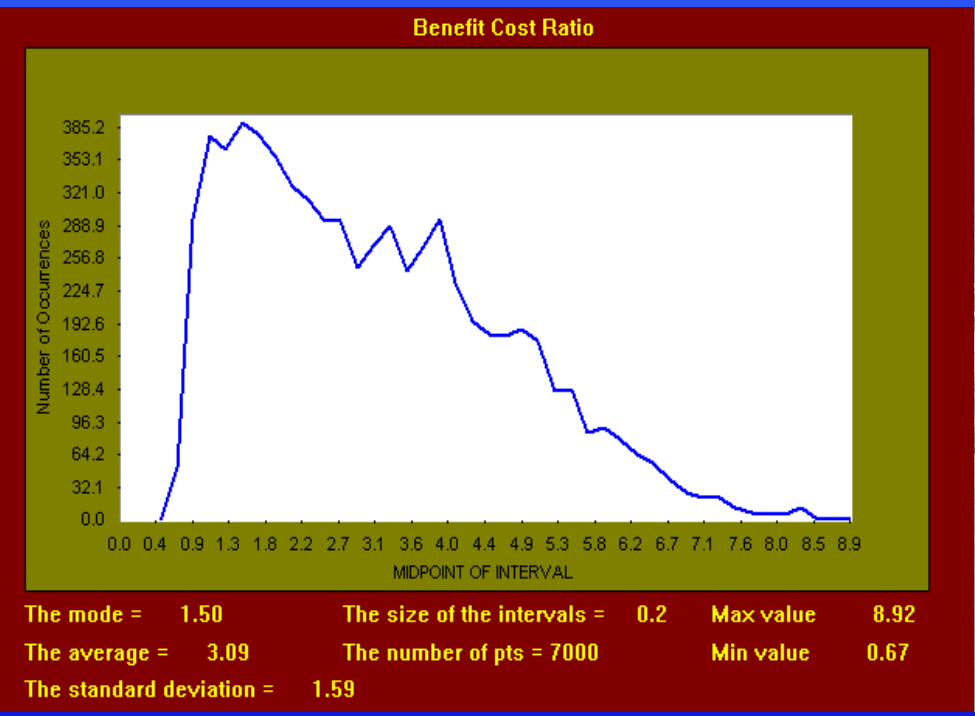
Coastal Studies Underway

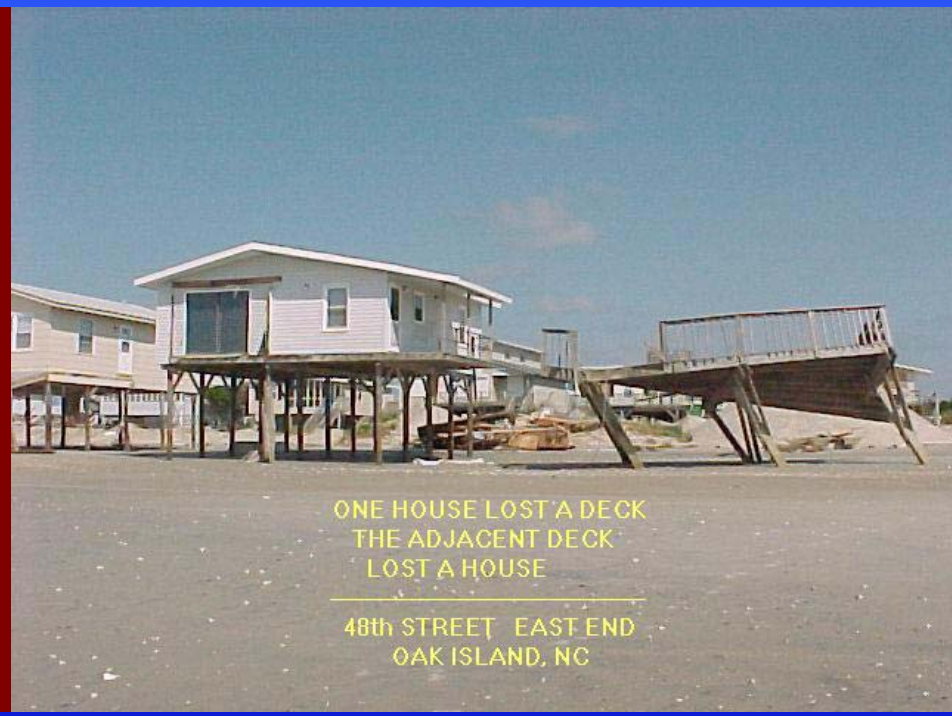
One quarter of the US population lives in Atlantic coastal counties.



Districts have had to devise their own tools for the analysis of beach projects

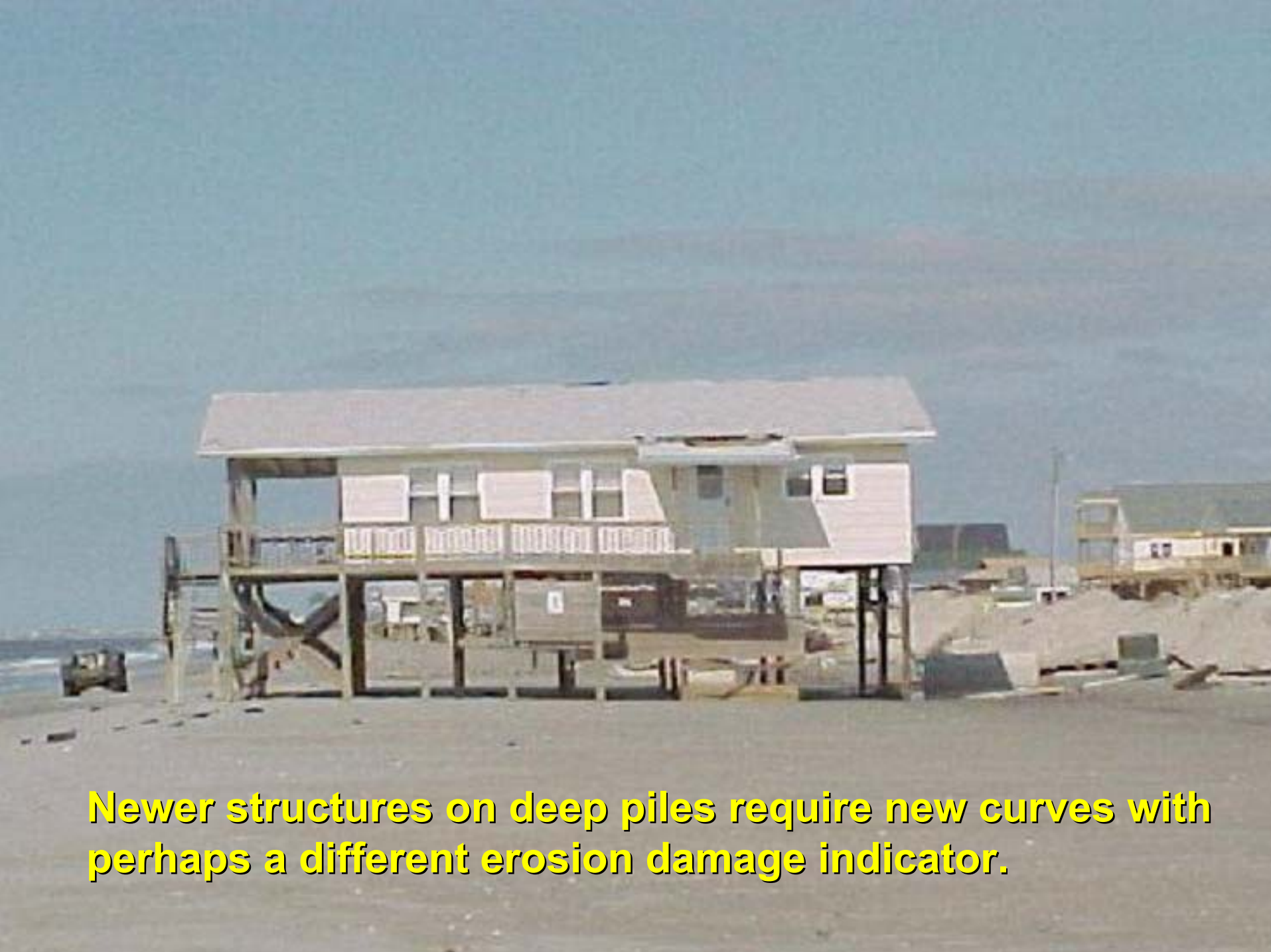






UNCERTAINTY -> THE RANGE OF ANSWERS

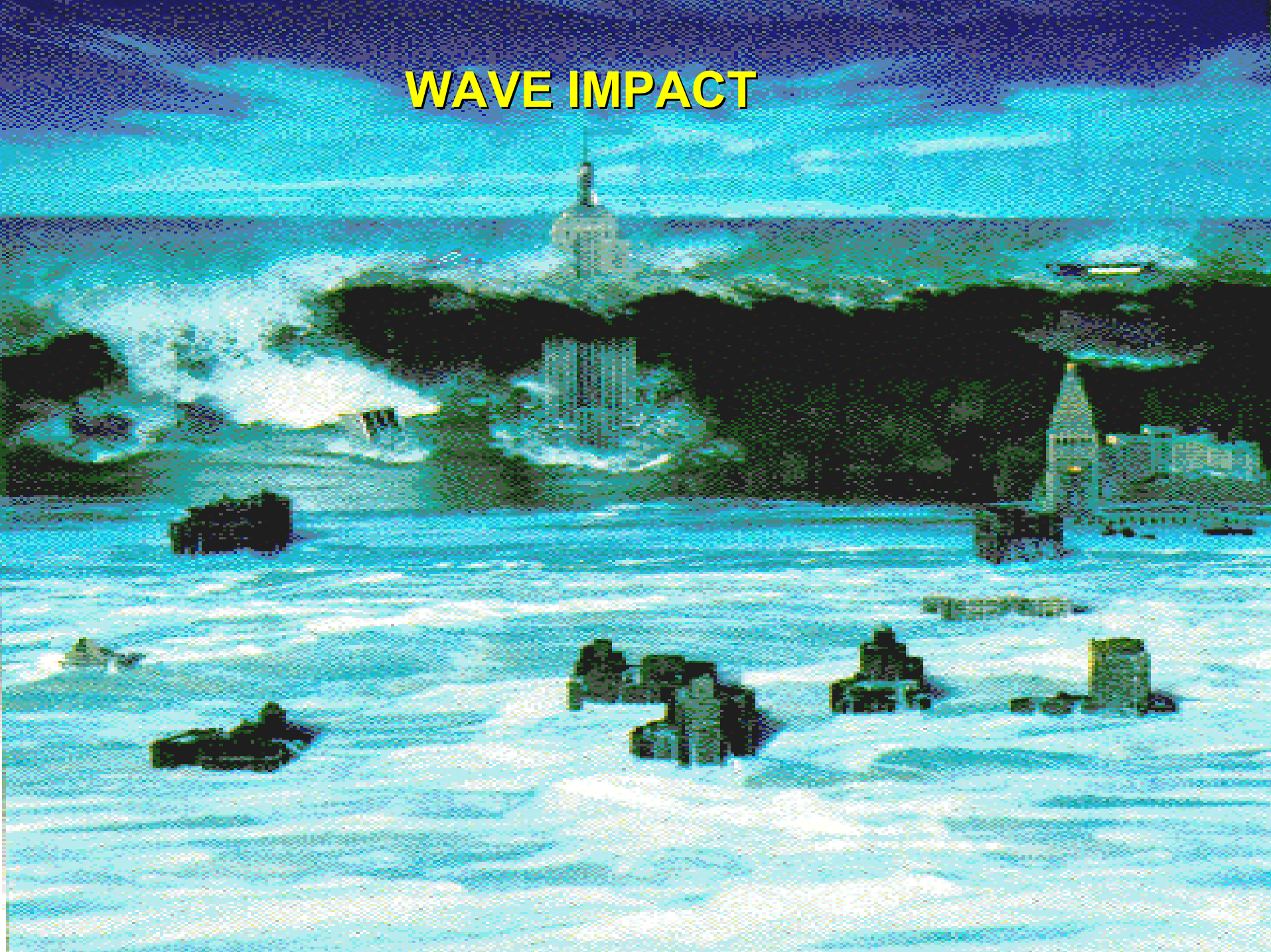
Determining erosion damage curves was easy when houses were on slabs or shallow piles.



Newer structures on deep piles require new curves with perhaps a different erosion damage indicator.

EROSION DAMAGE RESPONSE

WAVE IMPACT



Districts devising their own tools for the analysis of beach projects increases the possibility of inconsistent project evaluations.

Communities in different regions of the country may require different types of analysis, however, a specific community should receive the same analysis regardless of which District performs the evaluation.

REGIONAL COASTAL EXPERTISE TEAM