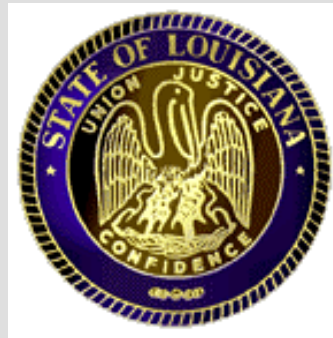




Illinois Governor's Conference on River Management

October 4 – 6, 2005

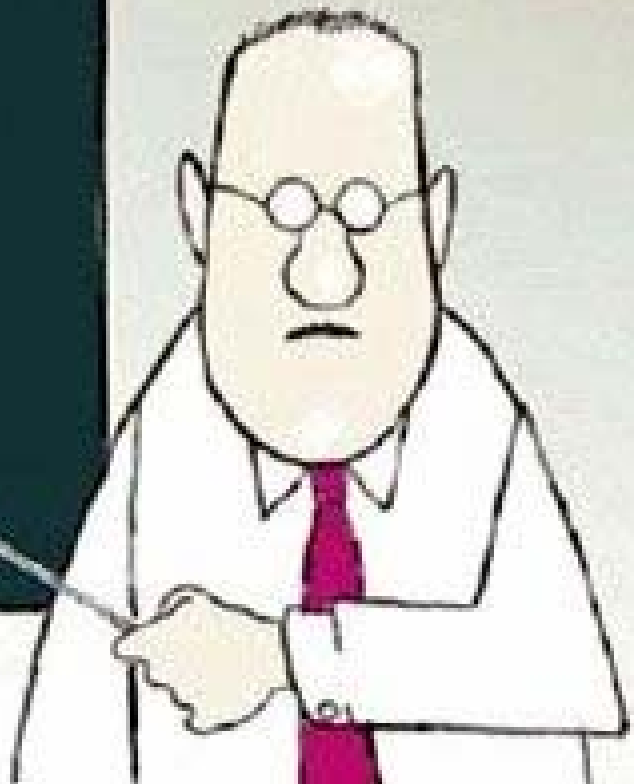


Len Bahr, PhD

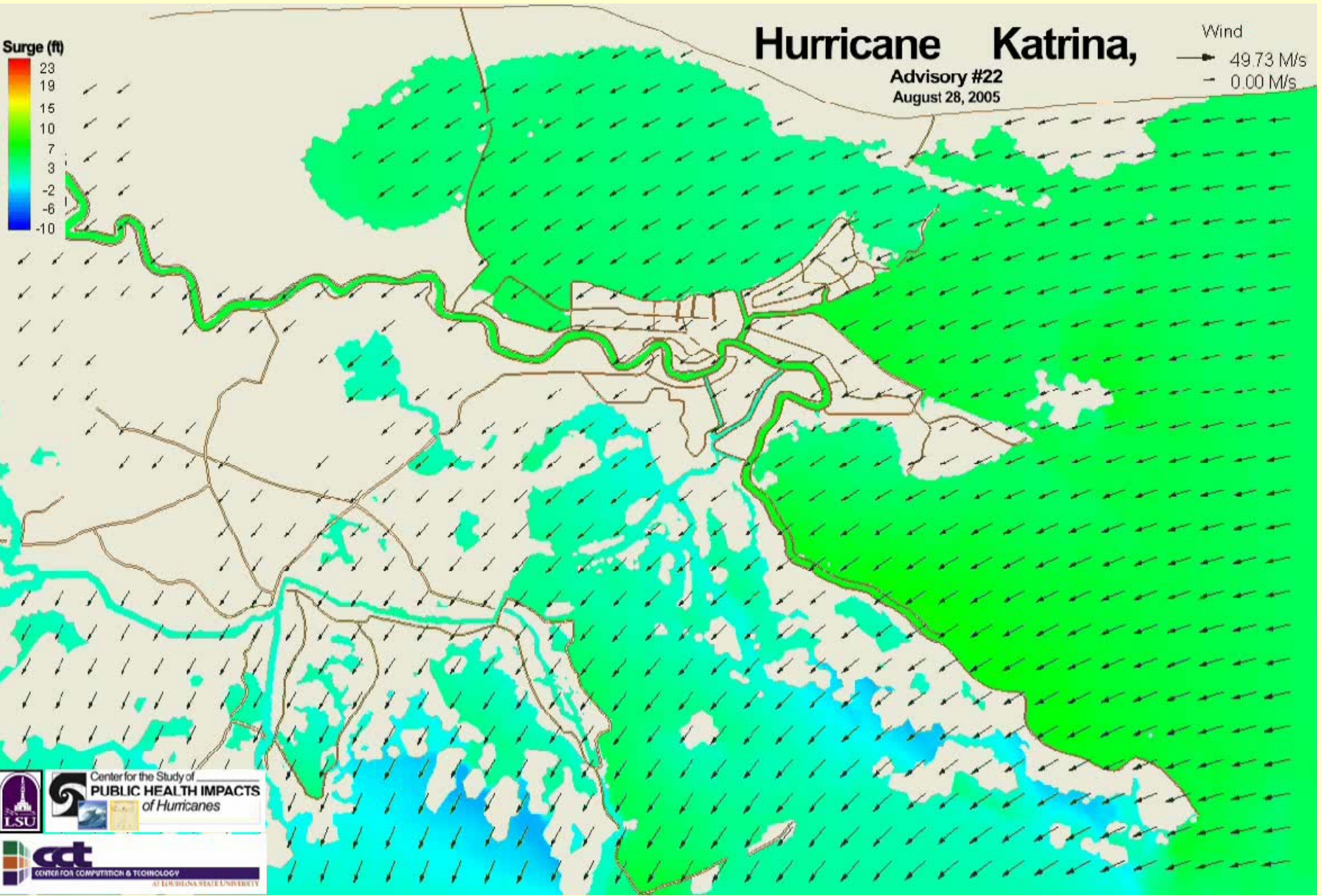
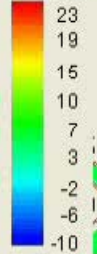
Governor's Office of Coastal Activities



BASICALLY, HERE'S THE SITUATION.



Surge (ft)



Hurricane Katrina,

Advisory #22
August 28, 2005

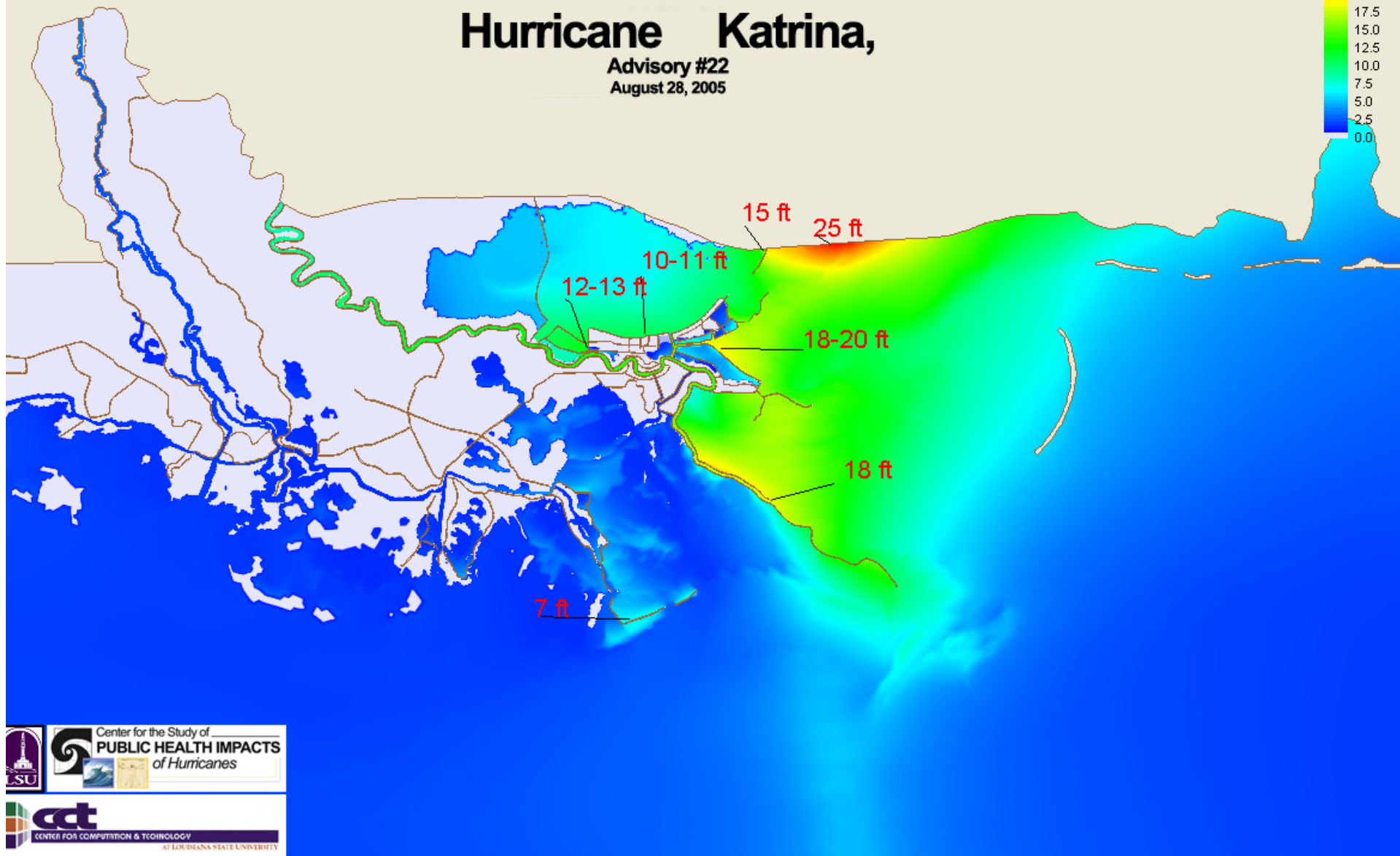
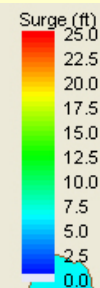
Wind
→ 49.73 M/s
- 0.00 M/s

Center for the Study of
PUBLIC HEALTH IMPACTS
of Hurricanes

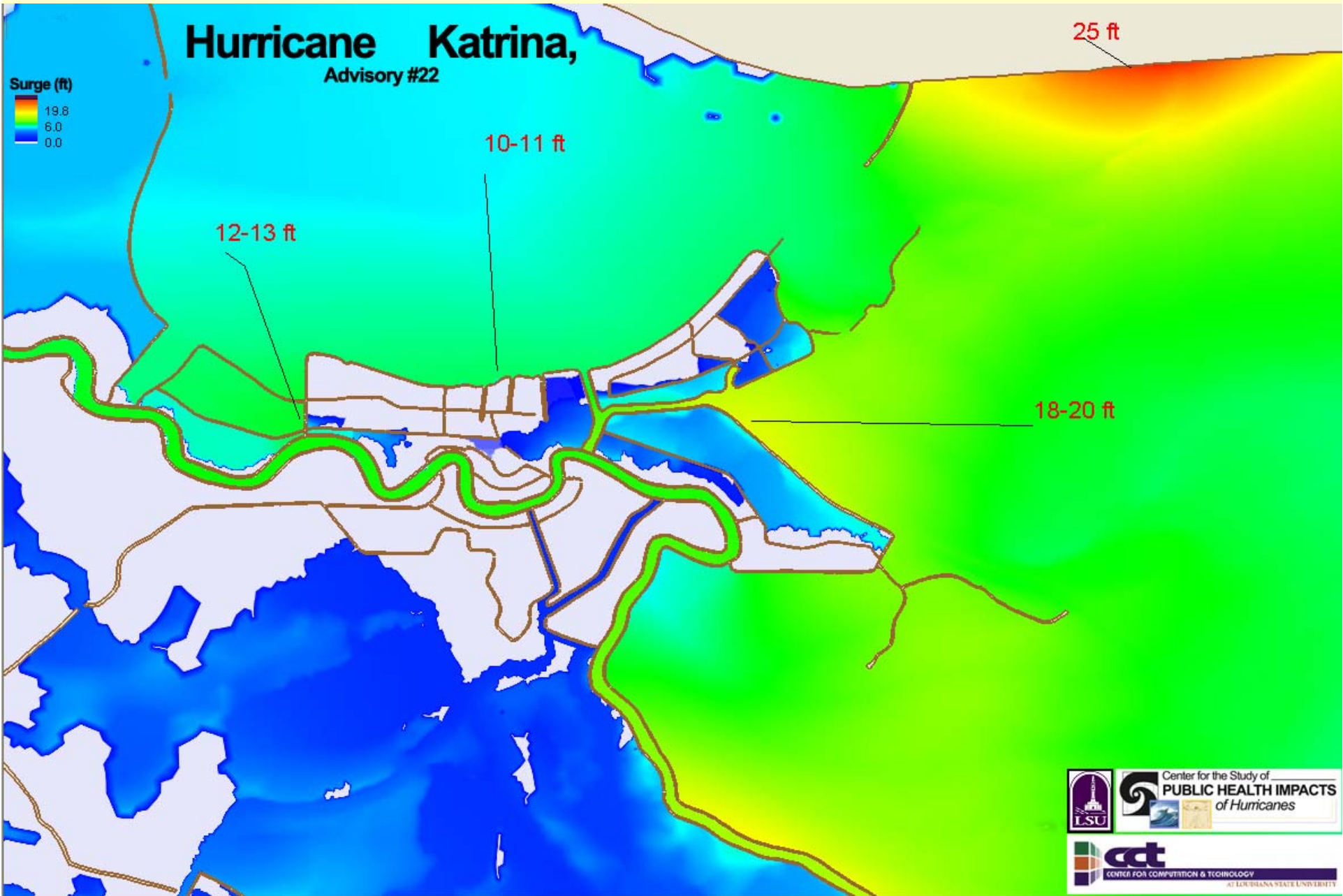
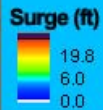
ct
CENTER FOR COMPETITION & TECHNOLOGY
AT LOUISIANA STATE UNIVERSITY

Hurricane Katrina,

Advisory #22
August 28, 2005

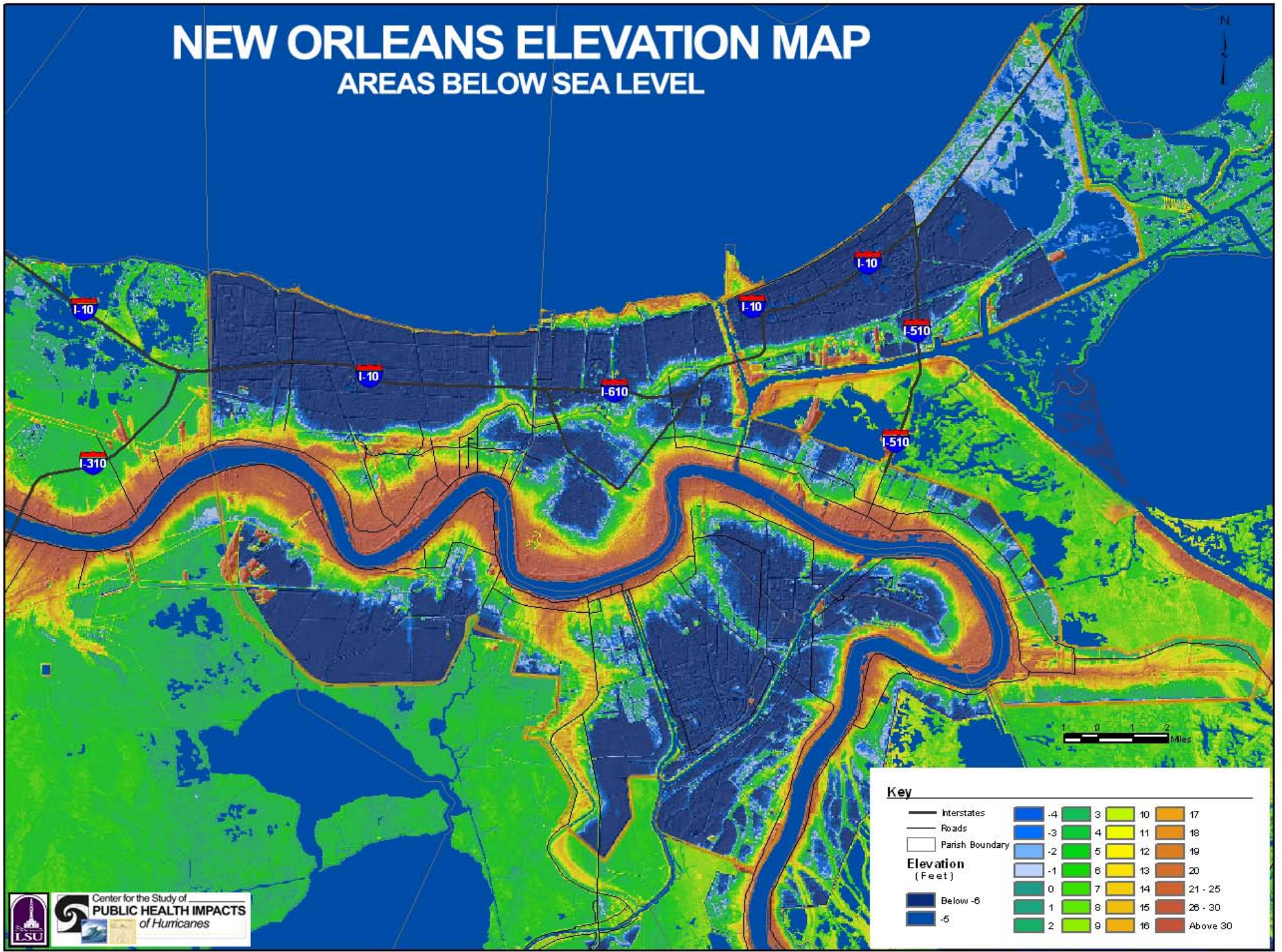


Hurricane Katrina, Advisory #22



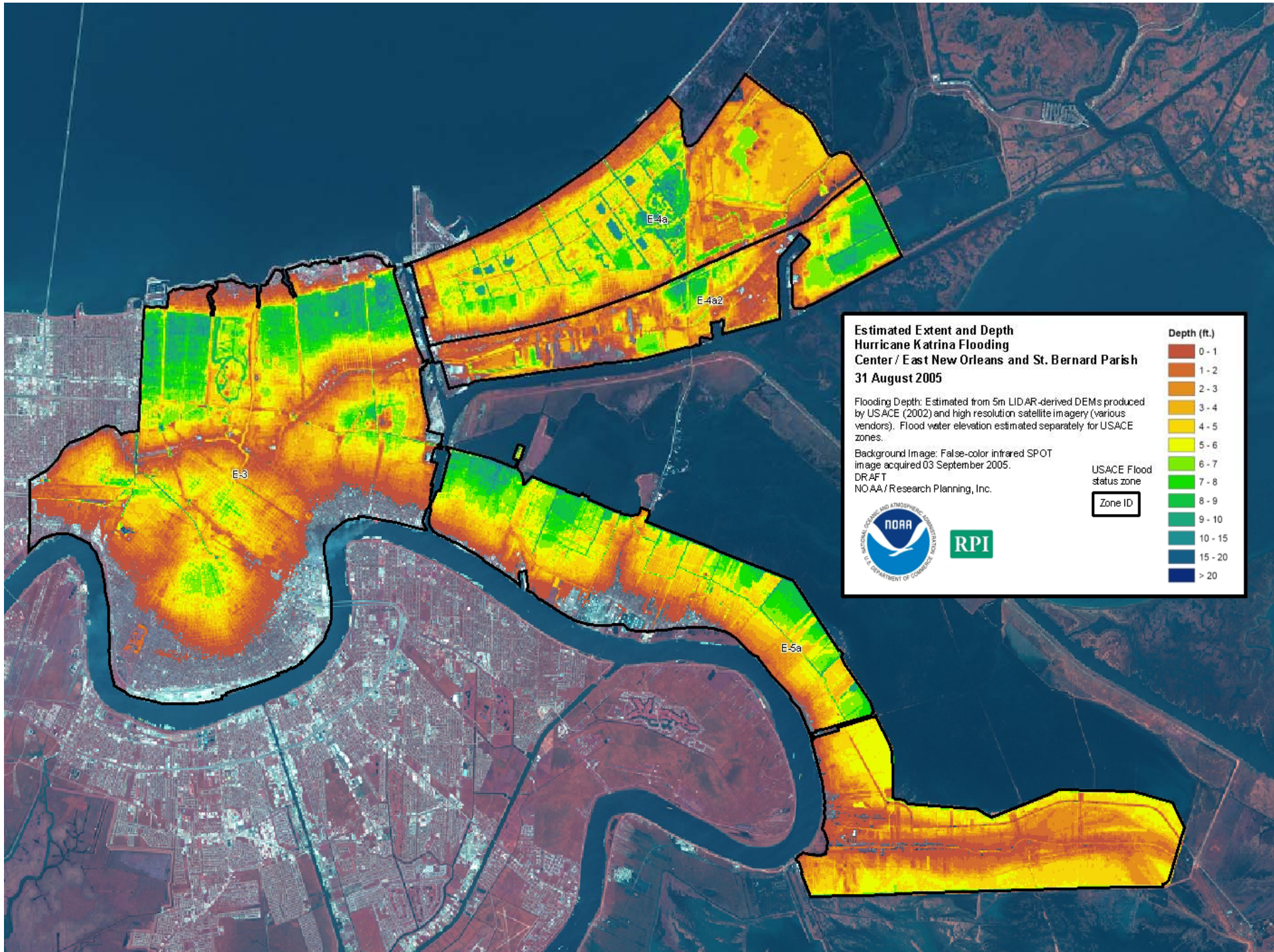
NEW ORLEANS ELEVATION MAP

AREAS BELOW SEA LEVEL

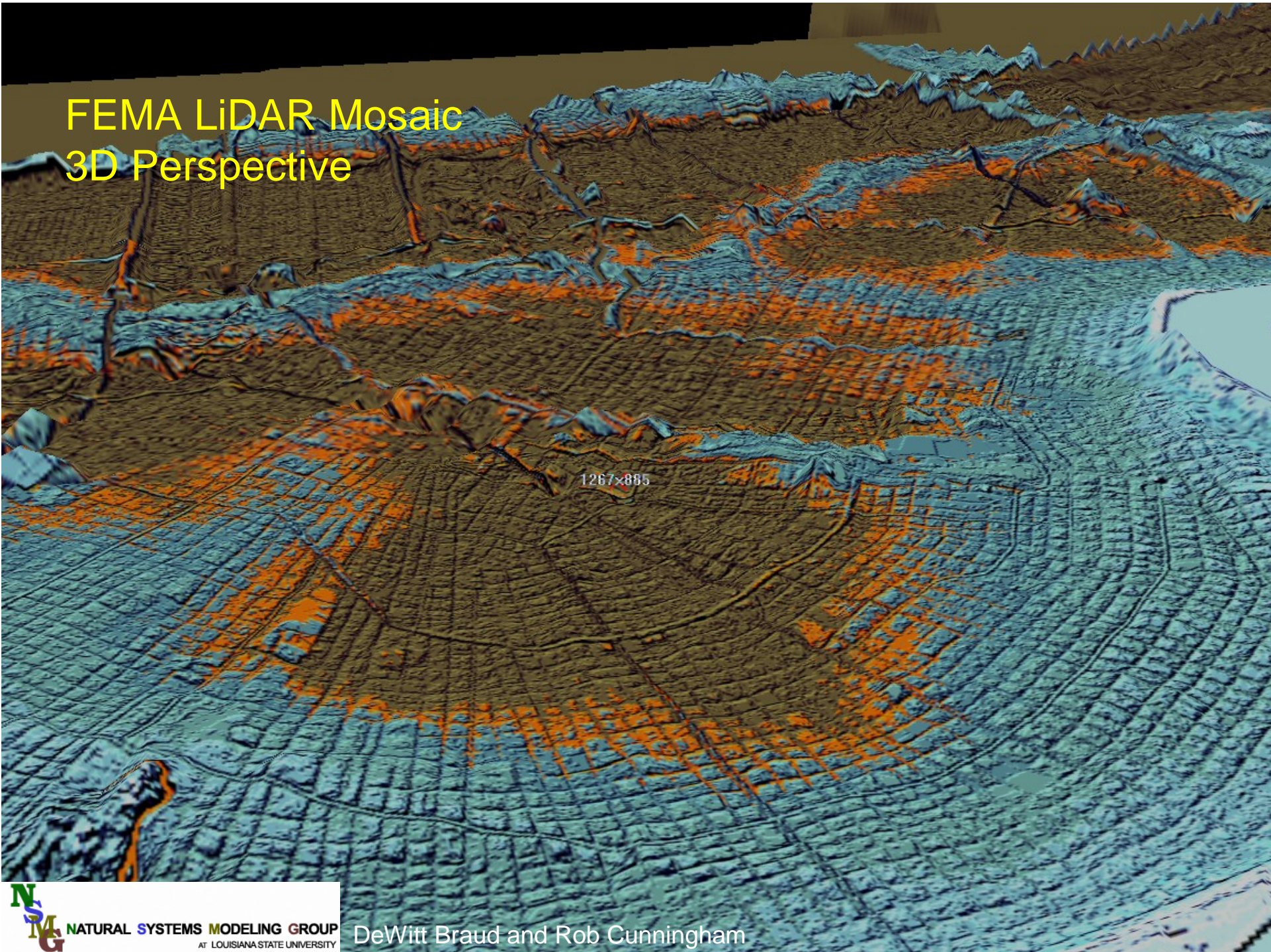


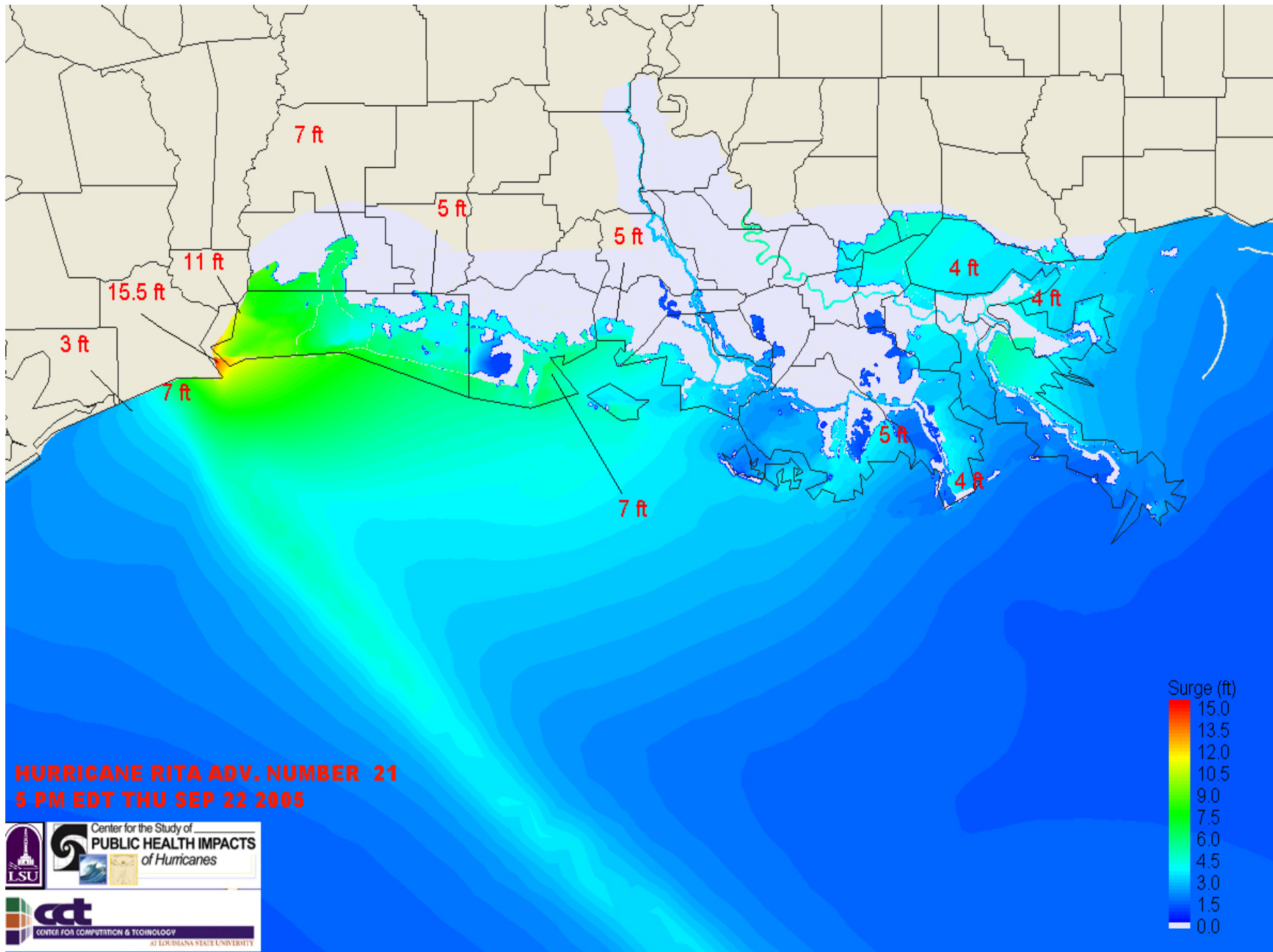
Key

— Interstates	Blue	-4	Green	3	Light Green	10	Orange	17
— Roads	Blue	-3	Green	4	Yellow-Green	11	Orange	18
□ Parish Boundary	Blue	-2	Green	5	Yellow	12	Orange	19
Elevation (Feet)	Blue	-1	Green	6	Yellow	13	Orange	20
Dark Blue	Green	0	Light Green	7	Yellow	14	Orange	21 - 25
Blue	Green	1	Light Green	8	Yellow	15	Orange	26 - 30
	Green	2	Light Green	9	Yellow	16	Orange	Above 30



FEMA LiDAR Mosaic 3D Perspective







LEGEND

- Proposed Alignment
- Floodgate
- Pump Station (P.S.)
- Lock
- Water Control Structure
- Structure - Navigable
- Diversion Structure

SCALE
MILES

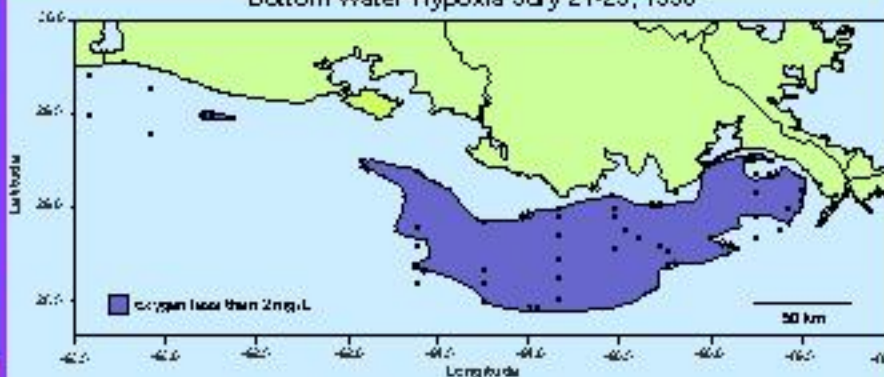
5 0 5 10



Mississippi River System



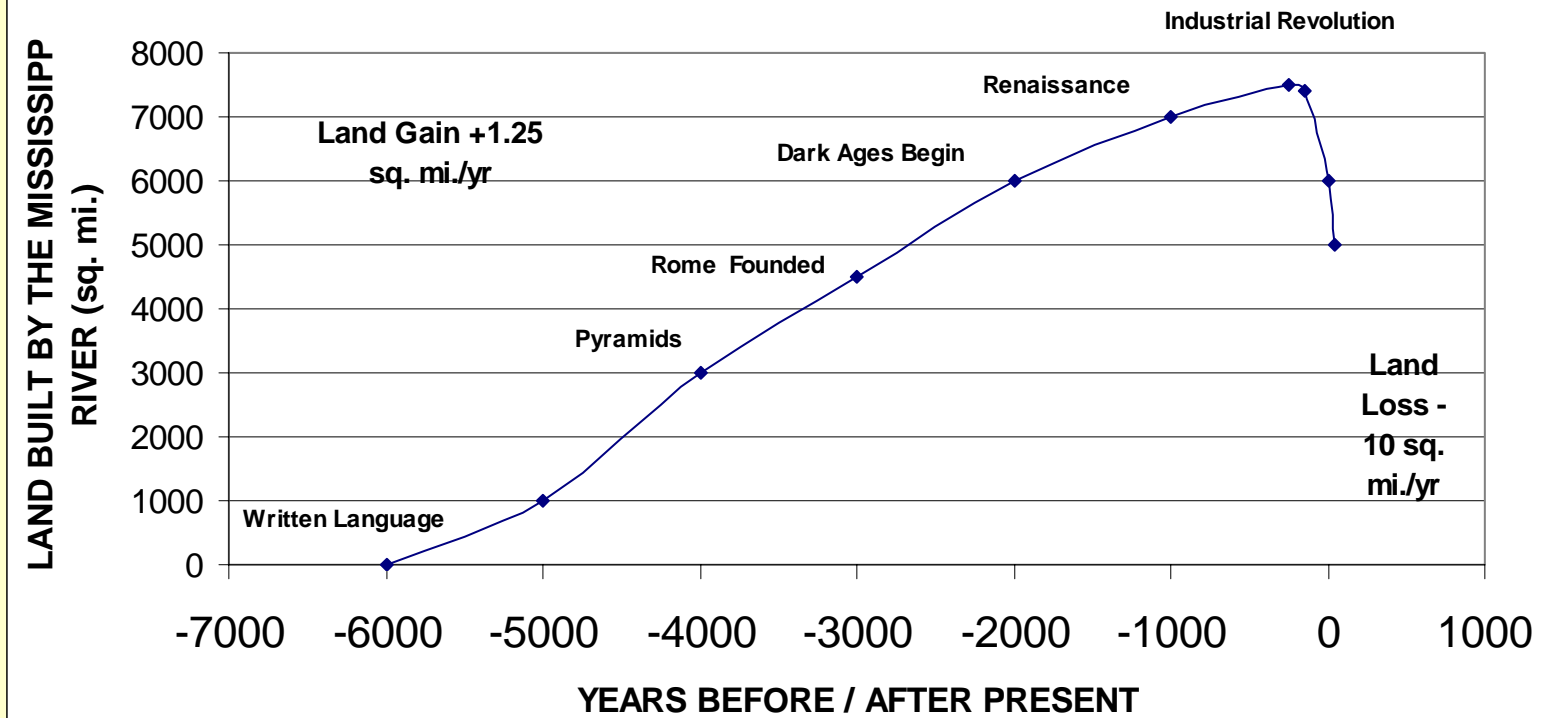
Bottom Water Hypoxia July 21-25, 1998





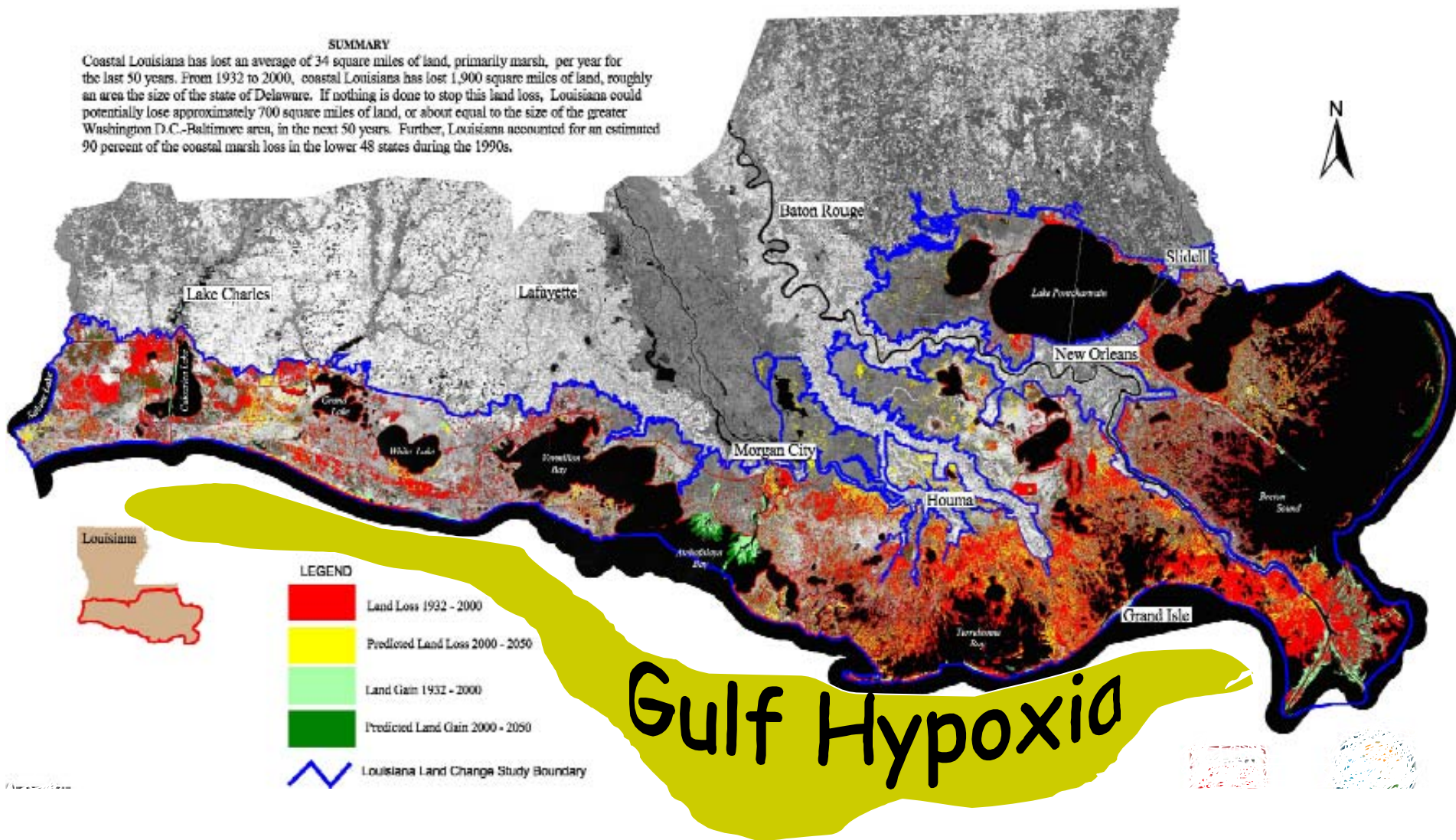


RISE AND FALL OF COASTAL LOUISIANA



SUMMARY

Coastal Louisiana has lost an average of 34 square miles of land, primarily marsh, per year for the last 50 years. From 1932 to 2000, coastal Louisiana has lost 1,900 square miles of land, roughly an area the size of Delaware. If nothing is done to stop this land loss, Louisiana could potentially lose approximately 700 square miles of land, or about equal to the size of the greater Washington D.C.-Baltimore area, in the next 50 years. Further, Louisiana accounted for an estimated 90 percent of the coastal marsh loss in the lower 48 states during the 1990s.











An aerial photograph showing a wide waterway, likely a canal or river, flowing through a landscape. In the foreground, a concrete dam structure is visible, with water cascading over it. The waterway continues into the distance, flanked by dense green vegetation on the left and a mix of green fields, residential houses, and a golf course on the right. A multi-lane highway runs parallel to the waterway in the middle ground. The sky is clear and blue.

St. Bernard Parish
Plaquemines Parish

**Caernarvon Free
Diversion Stru**

Recreating Wetland Substrate In Shallow Water

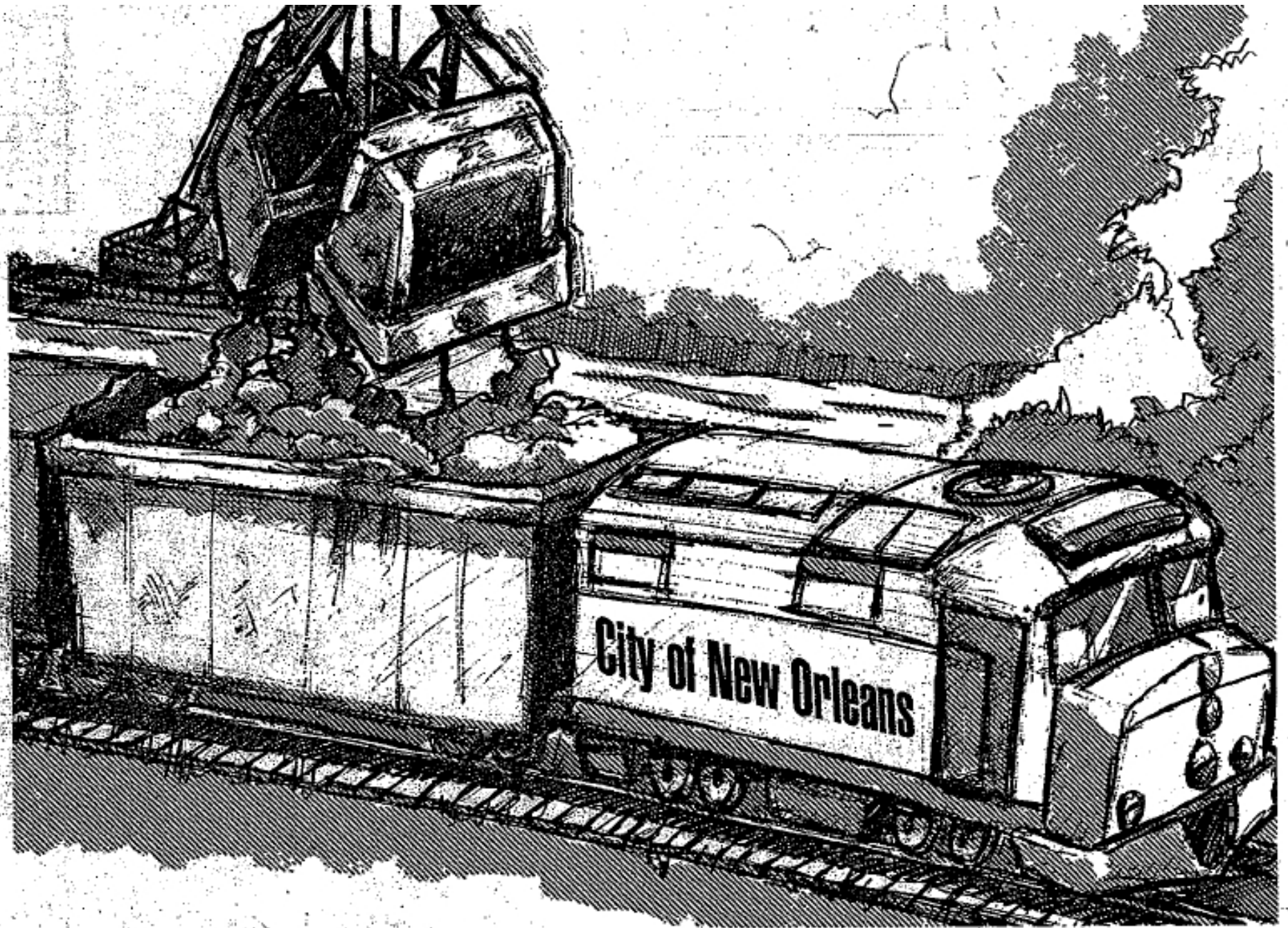
Assumptions:

- 1) 3' depth
- 2) ~3.1 million cubic yds sediment per square mile
- 3) 1,200 cubic yds per barge @ \$24K*

At this rate: ~\$62 million/square mile**

* Sept 2004 estimate for demo project (sediment dredged and barged to coastal Louisiana)

**doesn't include application cost or economy of scale



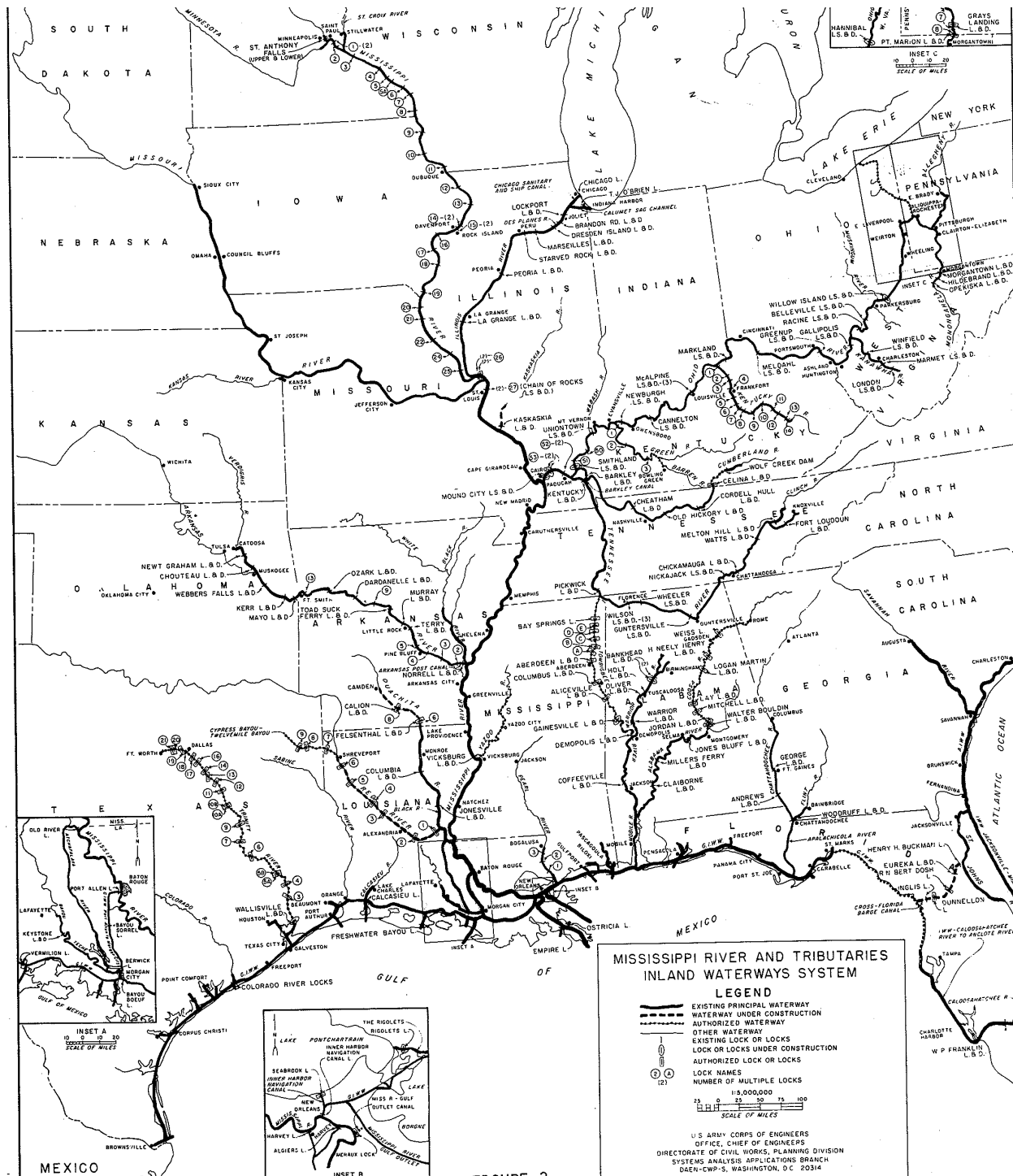


FIGURE 2

