

Performance of the New Orleans Flood Control System: Hurricane Katrina



<http://www.noaanews.noaa.gov/stories2005/s2506.htm>

Presented to the Senate Committee on Homeland Security
and Governmental Affairs

November 2, 2005

Washington DC

Levee Assessment Team

- ASCE (Geo-Institute & COPRI)
- NSF (UC Berkeley, CA DWR)

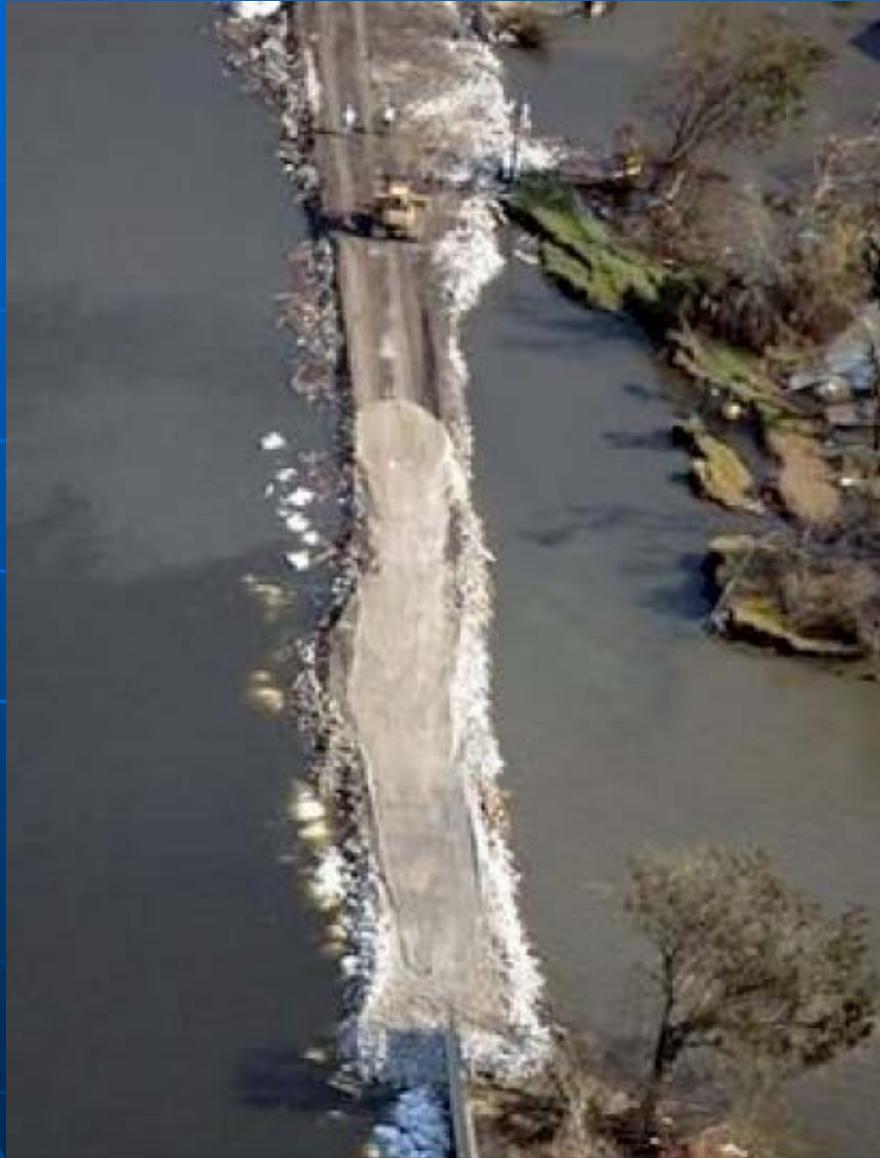
Leading experts in geotechnical engineering, hydraulics, and systems



17th Street Canal



17th Street Canal



17th Street Canal



London Avenue Canal, North Breach



London Avenue Canal, North Breach



London Avenue Canal, North

Across from Breach



London Avenue Canal, North

Across from Breach



London Avenue Canal, North

Across from Breach



London Avenue Canal, North

Across from Breach



Heave

Boils



London Avenue Canal, South Breach

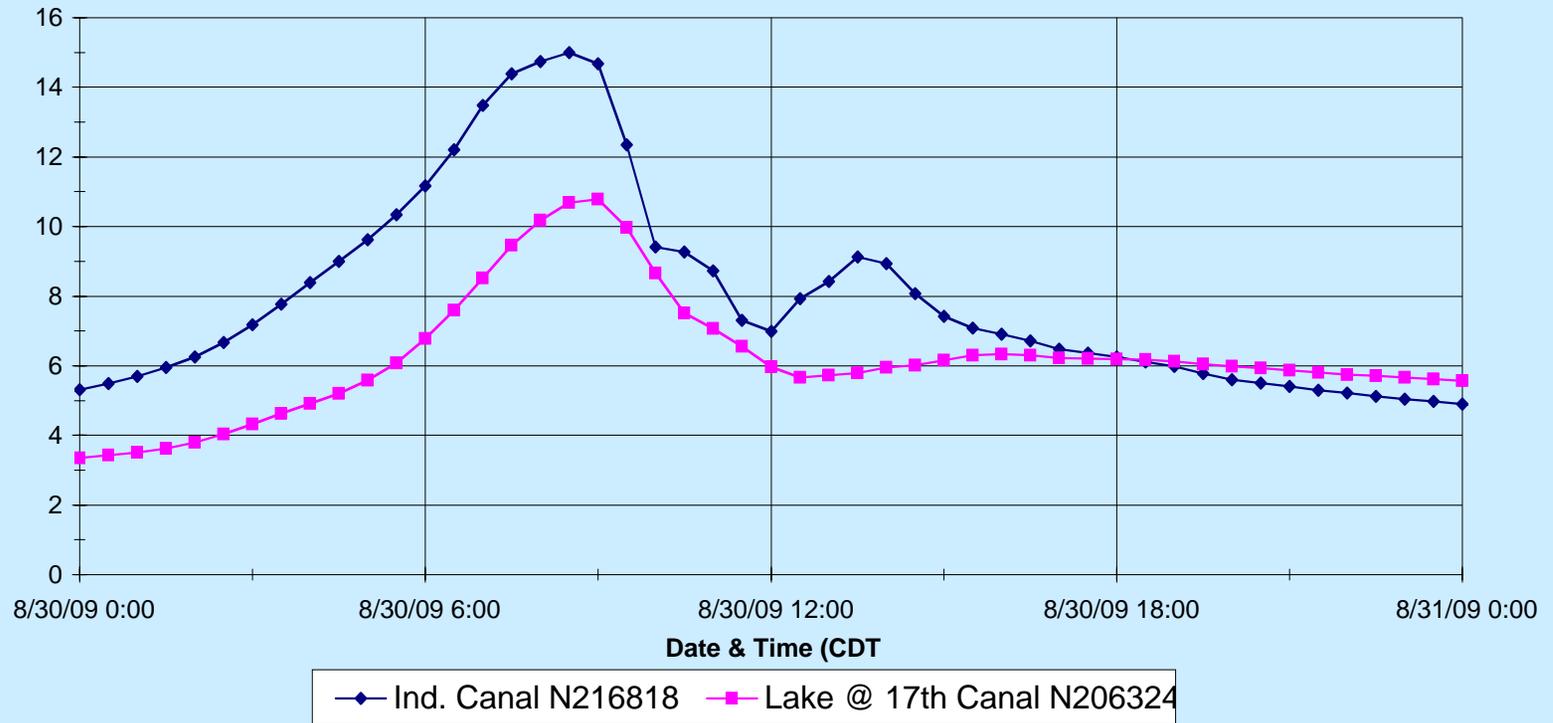


London Avenue Canal, South Breach

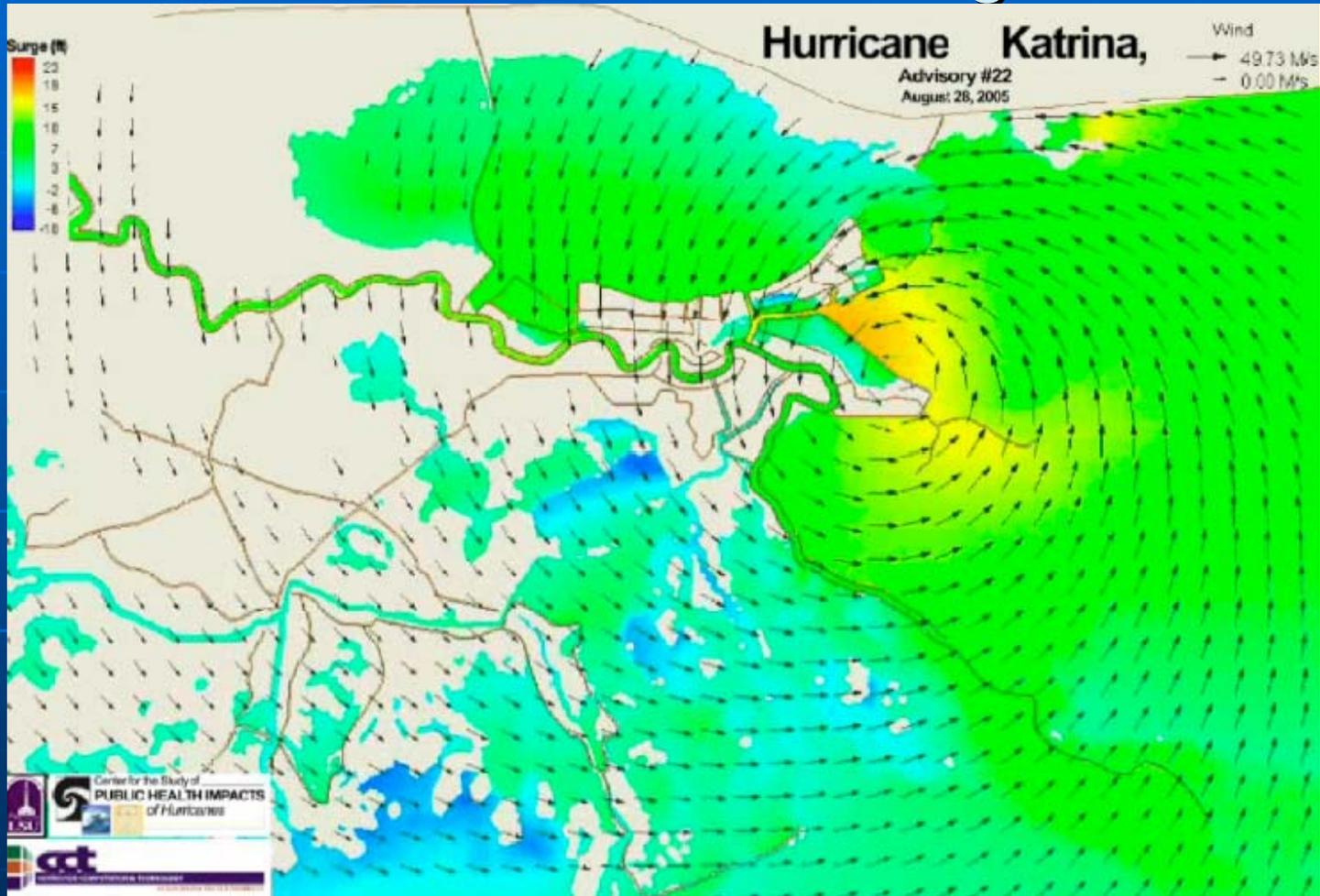


Modelled Storm Surge Heights

Hurricane Katrina Surge at the Industrial Canal & Lake at the 17th Street C:
IC-Peak at 0830 AM; Lake Peak 0900 AM

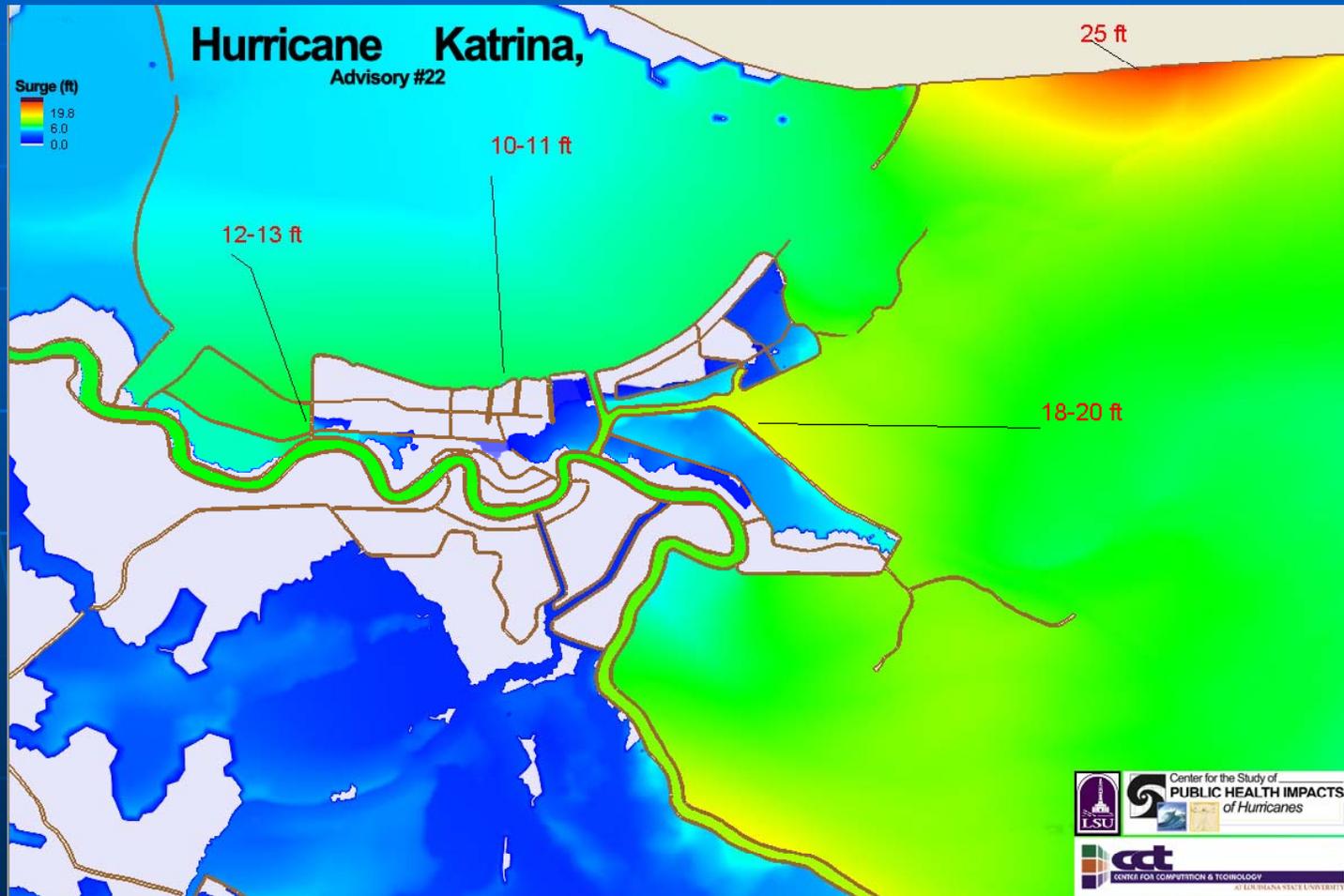


Modeled Storm Surge



Courtesy LSU Hurricane Center

Modelled Storm Surge



Courtesy LSU Hurricane Center



Embankment Overtopping



Overtopped Embankment (Sand Core)



Overtopped Embankment (Sand Core)



Embankment Successes



Inner Harbor Navigation Channel (Industrial Canal)



Inner Harbor Navigation Channel Lower 9th Ward



Lower 9th Ward



Inner Harbor Navigation Channel Back Scour at Lower 9th Ward



MRGO, North Bank (New Orleans East): Overtopping Back Scour



MRGO, North Bank (New Orleans East): Floodwall Overtopping Failure



Common Transition Problems



Common Transition Failures



Common Transition Failures



Common Transition Failures



Complex Transitions

