

Using GIS & Modeling in Support of Emergency Response Operations

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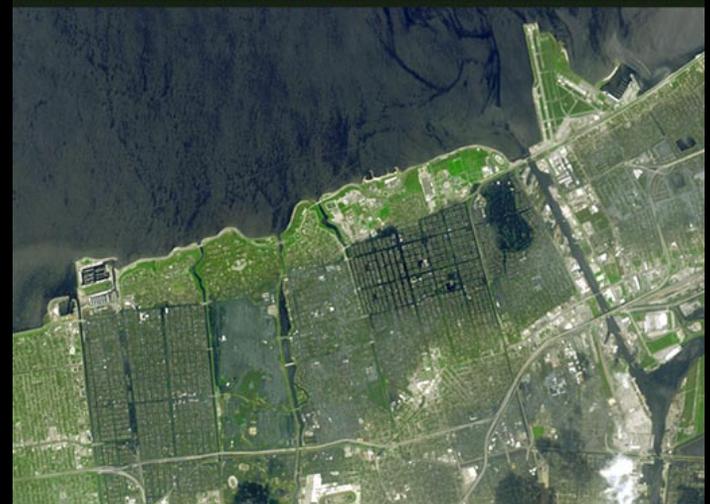
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<http://www.katrina.lsu.edu>



Time Expectancy of Spatial Data

- Much of the data is needed within 24 hours of the disaster event
 - Real time (in place) monitoring is critical to data collection
 - Remote sensing imaging is needed immediately (Aster Satellite)



The Clearinghouse Concept



HURRICANE KATRINA & RITA

Clearinghouse Cooperative

General

Data

Contribute

More Information

:: ABOUT THE SITE

This clearinghouse has been established at the Louisiana State University, Baton Rouge to facilitate the collection, dissemination, and archiving of data related to Hurricane Katrina and Rita. Katrina made landfall in Louisiana on Monday, August 29, 2005 and Rita made landfall on September 24, 2005.

ALL ABOUT LSU GIS CLEARINGHOUSE & SERVICES PROVIDED

:: SPONSORS

[Louisiana State University](#)

[CADGIS Research Laboratory, LSU](#)

[Federal Emergency Management Agency](#)

[Hurricane Center, LSU](#)

[World Health Organization Collaborating Center, LSU](#)

[Louisiana Geological Survey](#)

[Louisiana Geographic Information Center](#)

:: DOWNLOADS

Map Products, Reports & Data Downloads

[LIDAR Mosaics by parishes available in ArcGrid and IMG format in GIS Store](#) Added **07/21/06**

[FEMA Individual Assistance \(IA\) by block group: Maps](#) Added **05/03/06**

[Proceed to download...](#)

Data Server & Websites

GIS STORE

20 TB DATA SERVER & Clearinghouse

Information on the 20 TB data server housed in LSU for hurricane related efforts; available data etc. [More...](#) (0.5 meter resolution Aerials Express Imagery added **NEW!** More...)

Atlas, The Louisiana Statewide GIS

Download a variety of Louisiana data online including

:: RESEARCH

This section will be dedicated to providing information on research activities related to hurricanes Katrina & Rita. [More info...](#) Updated **10/16/06!**

:: CONTACT

Contact information for various programs areas are available here.

[:: Program Coordination](#)

[:: FEMA Coordinators](#)

[:: Remote Sensing](#)

[:: Webmaster/GIS Data](#)

[:: Mapping Sciences & Analysis](#)

[:: Hurricane Storm Surge](#)

[:: Hurricane Winds](#)

[:: Public Health Impacts](#)

[:: Environmental Impacts & Environmental Quality](#)

[:: Social, Cultural &](#)

:: IMPORTANT

If you need to reach us/need more info on our services or have questions on GIS Store etc, please email us at clearinghouse@lsu.edu

:: NEWS

[NEW IMAGERY ADDED TO GIS-STORE](#) Updated **08/31/06**

[INDEX OF AVAILABLE DATA IN GIS STORE.](#) Updated **08/31/06**

[LSU GIS Clearinghouse Cooperative involved in Hurricane Preparedness efforts in mid-coastal parishes of LA](#)

:: PHOTO GALLERIES



The screenshot shows the website's navigation tabs: General, Data, Contribute, and More Information. Below the tabs, there is a section titled "Google Earth" with text explaining the effort to make GIS data available for use in Google Earth. It includes a link to download the Google Earth software and a note that the data is in KMZ format. There is also a section for "Data Download for Google Earth" with links to various data types like FCC data, ASR, FM, MDSATFS, and Microwave. A note at the bottom states that some layers are marked with an asterisk because they take a long time to load. The footer contains a link to FEMA Hurricane Katrina Surge Inundation Limits and a list of metadata files.

Remote Sensing Data

- Digital Globe (Quickbird)
- Image America
- SPOT
- IKONOS
- Radarsat
- MODIS
- AVHRR
- Landsat
- LIDAR



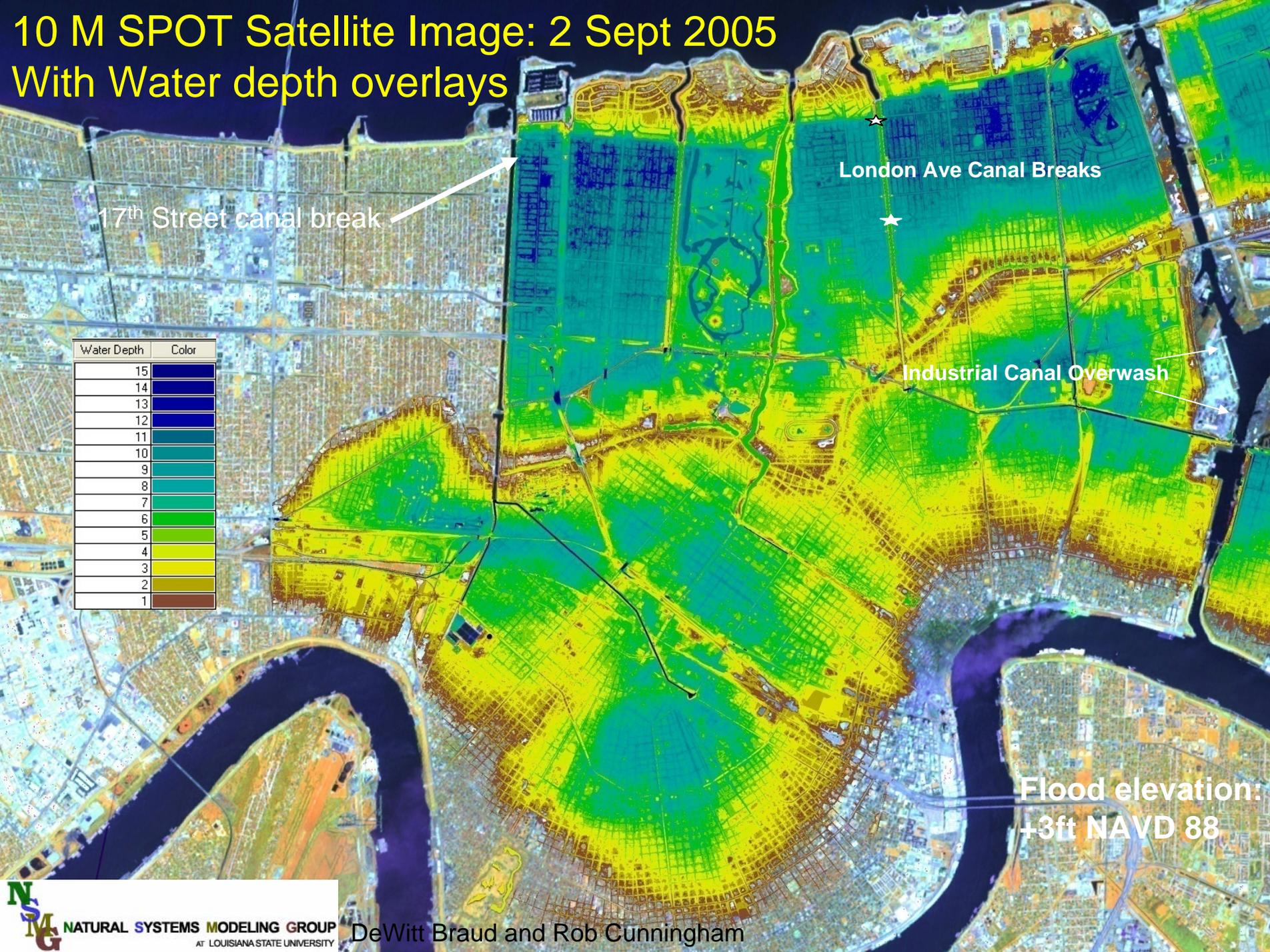
September 15, 2005



September 7, 2005

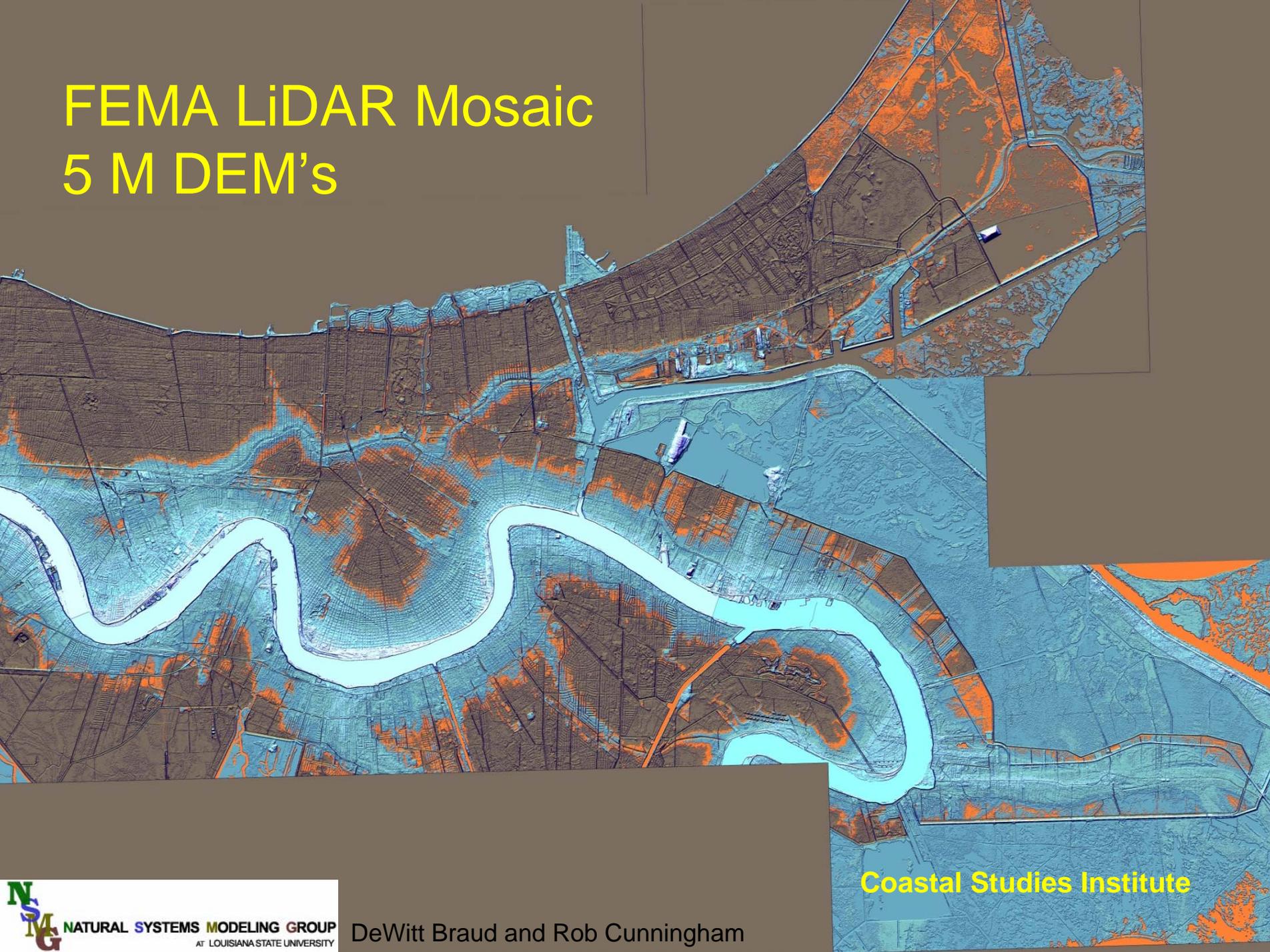
10 M SPOT Satellite Image: 2 Sept 2005

With Water depth overlays



Water Depth	Color
15	Dark Blue
14	Blue
13	Dark Teal
12	Teal
11	Light Teal
10	Greenish Teal
9	Green
8	Light Green
7	Yellow-Green
6	Yellow
5	Light Yellow
4	Yellow
3	Light Yellow
2	Light Brown
1	Dark Brown

FEMA LiDAR Mosaic 5 M DEM's



Coastal Studies Institute

NEW ORLEANS LEVEES BREACHED



Landsat 5 TM Satellite Image – Sept. 7, 2005
True-Color Aerial Photograph – Sept 2, 2005

Emergency Impact Data: Post Event

- Flood inundation or nature and extent of the hazard event
- Status of lifelines and other critical infrastructure (utilities, transportation networks, levees & dams)
- Damage to buildings, critical property, environmental impacts
- Weather conditions



