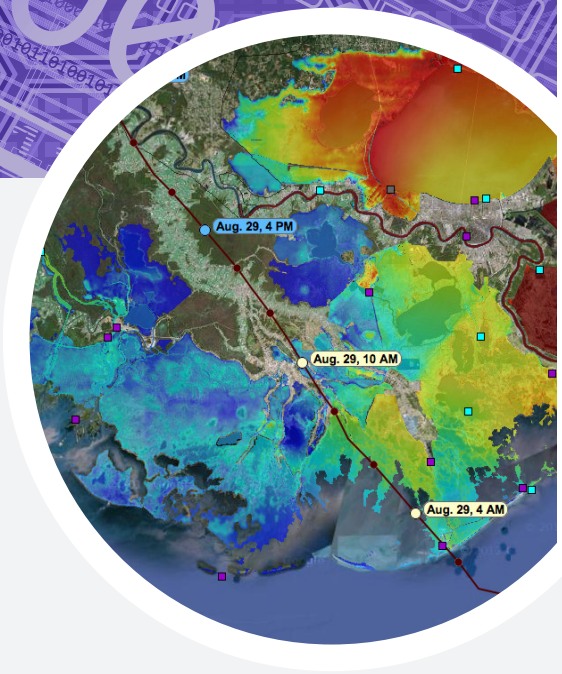
CERA
Coastal Emergency Risks Assessment



What is CERA?

CERA is an easy-to-use interactive mapping website that shows hurricane storm surge, winds and water level gage data for official decision-makers.

Why Is It Significant?

CERA allows emergency officials to quickly evaluate critical locations and make time-sensitive operational decisions before and during a hurricane.

Who are CERA's clients?

- Local, State, and Federal emergency managers
- Department of Homeland Security (FEMA)
- NOAA National Weather Service (NWS) offices
- U.S. Coast Guard Atlantic Command (USCG)
- Louisiana Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP)
- Texas State Operations Center
- Texas Department of Transportation (TxDOT)

LSU Center for Computation & Technology

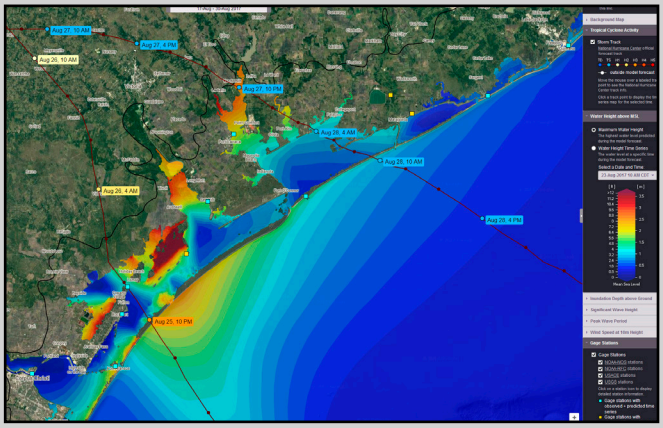
Seahorse Coastal Consulting

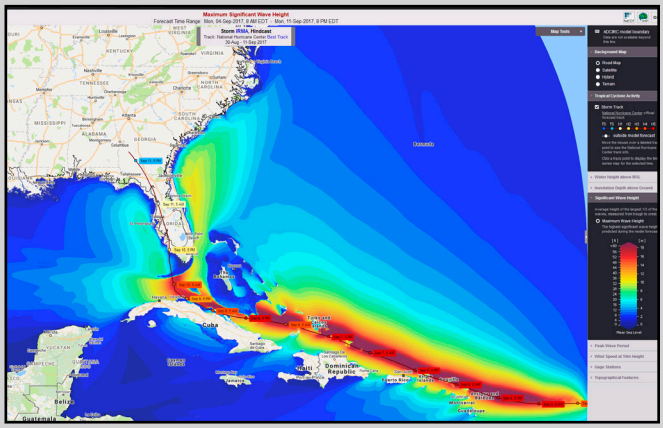
The University of North Carolina at Chapel Hill

Sea Grant Louisiana

ADCIRC

Coastal Resilience Center
A U.S. Department of Homeland Security Center of Excellence





"The model was key to my decision regarding aircraft protection in Puerto Rico, and our decision to relocate our command center out of Miami. I'll be watching it with every update."

U.S. Coast Guard
Rear Admiral Peter Brown,
Commander of District 7, used CERA to plan for evacuation of USCG staff during Hurricane Irma (2017).

When was CERA actively used by officials?

- Hurricanes Irene (2011), Isaac (2012), and Sandy (2012)
- Hurricane Matthew (2016)
- Hurricanes Harvey, Irma, Jose, Maria, Nate (2017)

Where is CERA developed?

- At LSU under the umbrella of Louisiana Sea Grant & the Center for Computation & Technology (CCT)
- Partners: Seahorse Coastal Consulting (NC)
- Scimaritan, L3C (LA)
- UNC Institute of Marine Science (NC)
- University of Notre Dame (IN)
- University of Texas in Austin (TX)
- ADCIRC storm surge model community

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