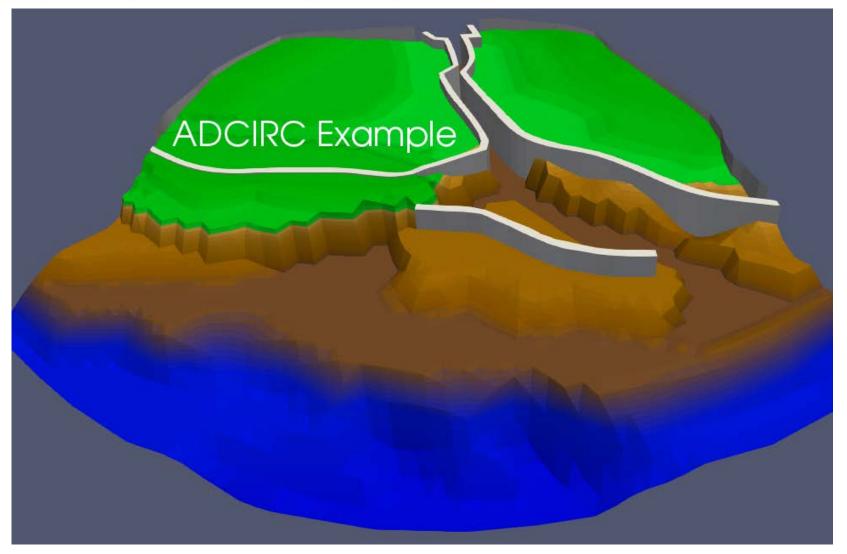
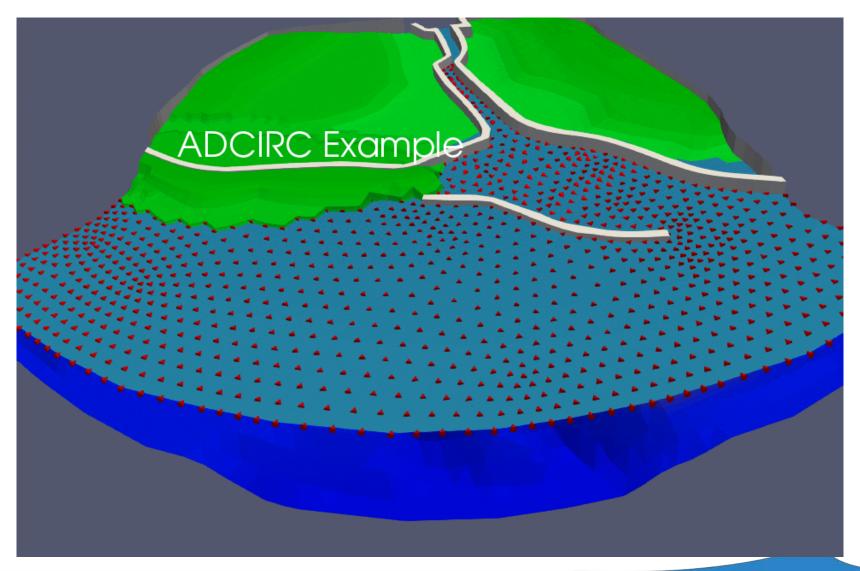
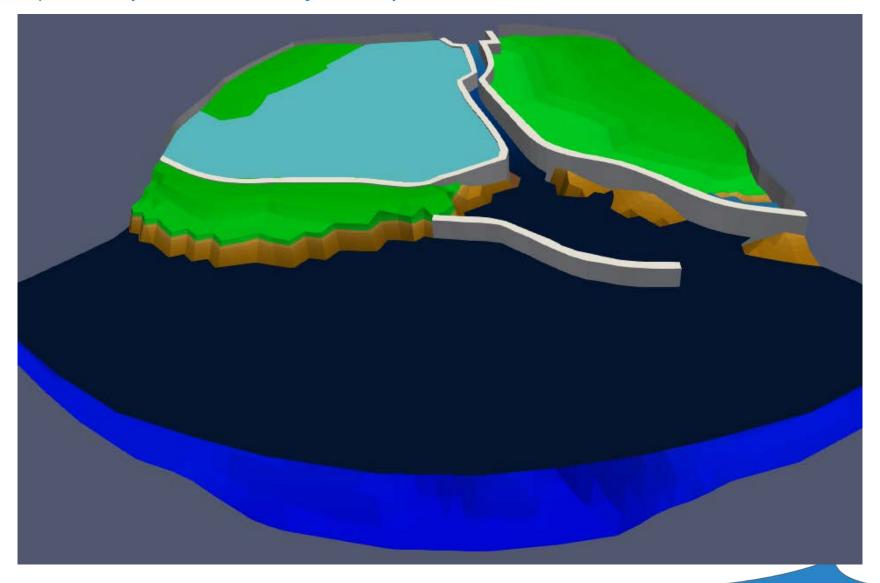
COASTAL RESILIENCE CENTER A U.S. Department of Homeland Security Center of Excellence The ADCIRC Prediction System as a Conduit for Innovation Jason Fleming Seahorse Coastal Consulting CRC 4th Annual Meeting The University of North Carolina at Chapel Hill

COASTAL RESILIENCE CENTER A U.S. Department of Homeland Security Center of Excellence Origin Story: Katrina



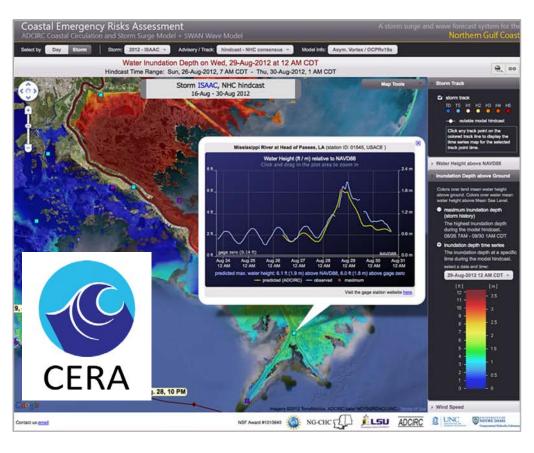




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Real Time Workflow Concept for Decision Support





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Seahorse Coastal Consulting Key Activities

Code Development





Daily Operations

Outreach and Training





A Catalyst

COASTAL RESILIENCE CENTER A U.S. Department of Homeland Security Center of Excellence Hurricane Florence Maximum Water Height above MSL (14-Sep-2018, 09:00 - 19-Sep-2018, 06:00 UTC) Hurricane FLORENCE, Advisory 60, Track: NHC official forecast, advisory issued: 14-Sep-2018, 09:00 UTC Winterville Washington (421) Goldsboro (13) Swanguarte 95 (70) Ocracoke Fayetteville Cedar Island lope Mills Clinton Jacksonville Wallace Morehead Cit Elizabethtown Whiteville Wilmington Sep 14, 9:00 O Sep 14, 15:00 O' Sep 14, 21:00 Sep 15, 3:00 Myrtle Beach

COASTAL RESILIENCE CENTER A U.S. Department of Homeland Security Center of Excellence **Hurricane Florence Hindcast** Maximum Water Height above MSL (10-Sep-2018, 12:00 - 18-Sep-2018, 06:00 UTC) Hindcast Storm FLORENCE, Track: NHC Best Track, 29-Aug - 16-Sep 2018 Beaufort, NC (8656483, NOAA-NOS) Water levels reported in MSL (hover over the graph for more details) DOWNLOAD Water Height (ft) Roanoke Click and drag in the plot area to zoom in 7.50 ft . 5.00 ft 2.50 ft Greensb 0.00 ft

Sep 12

Sep 13

Sep 14

Sep 15

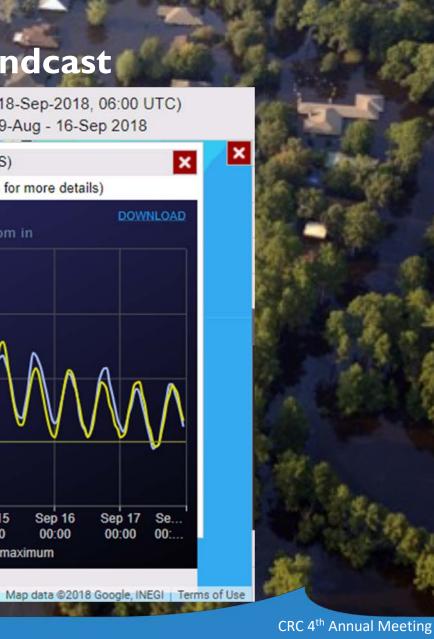
00:00 predicted maximum

Sep 16

00:00

Sep 17 Se...

00:00 00:...



-2.50 ft

Sep 10

00:00

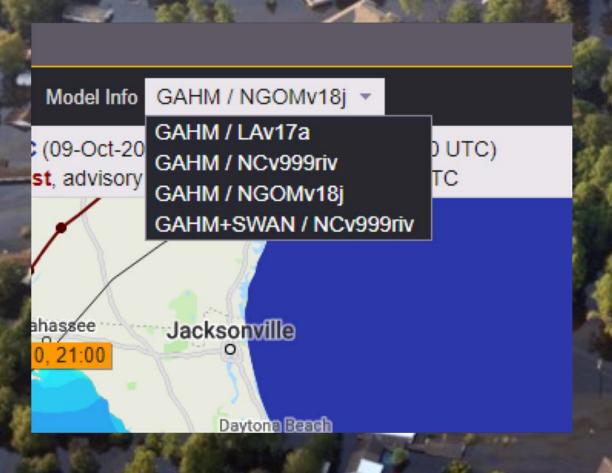
Gage station website: NOAA-NOS

Sep 11

observed

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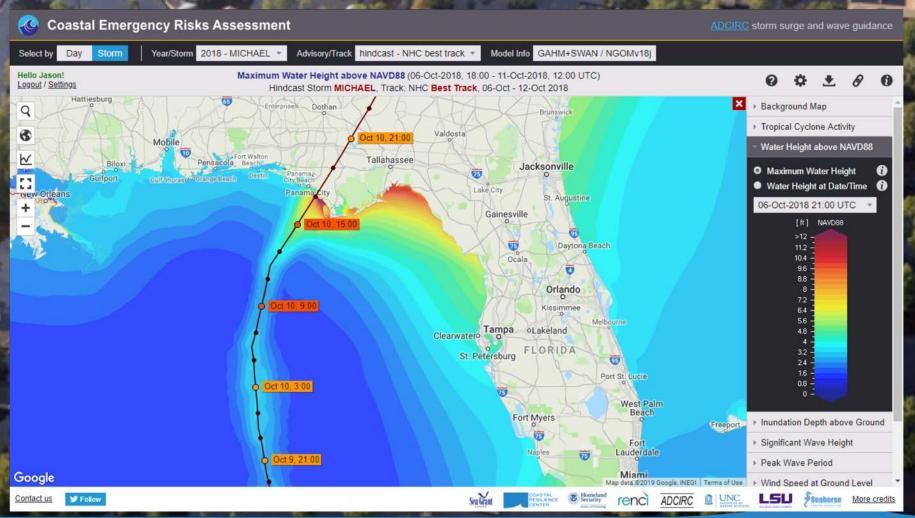
Hurricane Michael Decision Support Scenarios





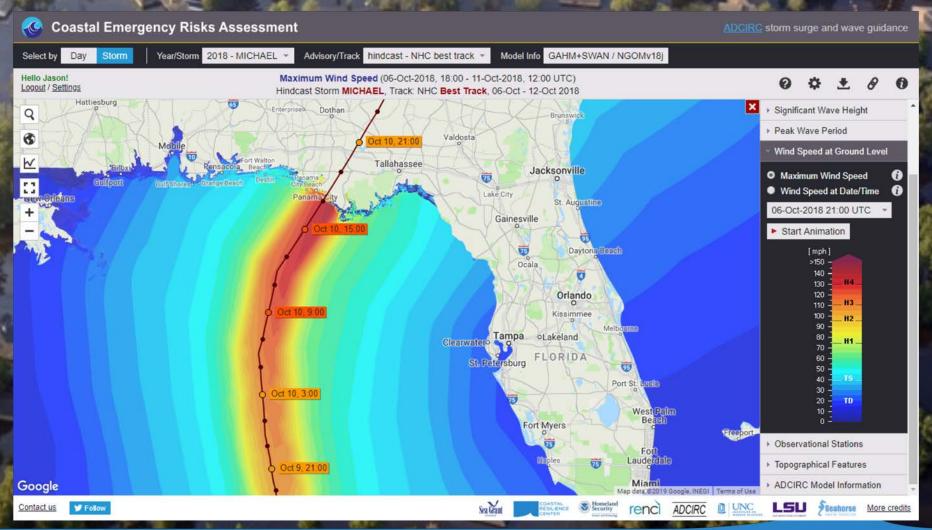
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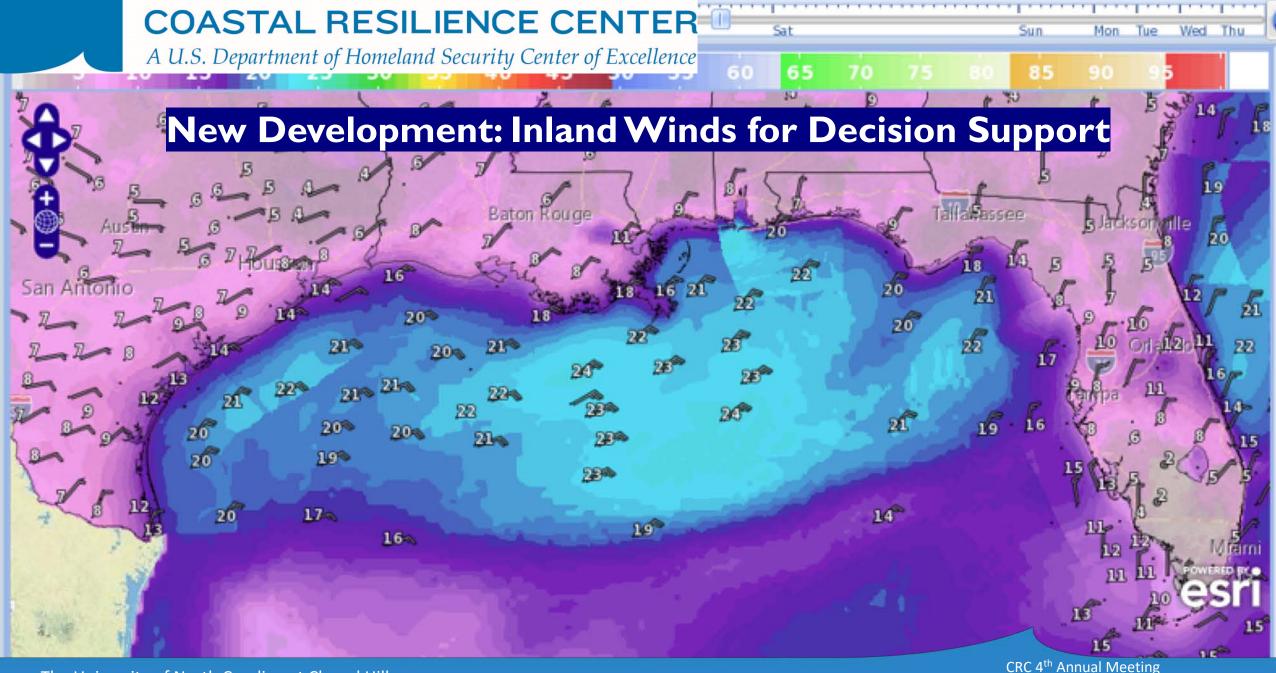
Hurricane Michael



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Hurricane Michael





COASTAL RESILIENCE CENTER A U.S. Department of Homeland Security Center of Excellence

offset (m)







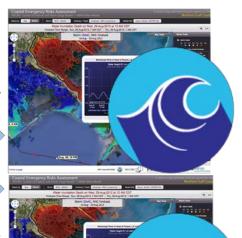








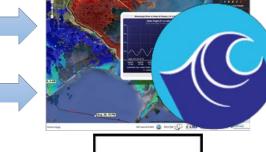
















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Network of Networks Organizational Structure



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Cyber Facilitated Organizational Structure





CEO

Catalyst

The Boss ----- A Peer

Command-and-Control ---- Trust

Rational ---- Emotionally Intelligent

Powerful ---- Inspirational

Directive ---- Collaborative

In the Spotlight ---- Behind the Scenes

Order ----- Ambiguity

Organizing ---- Connecting

