

The Storm Surge Impacts of the 2017 Hurricane Season

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Introduction

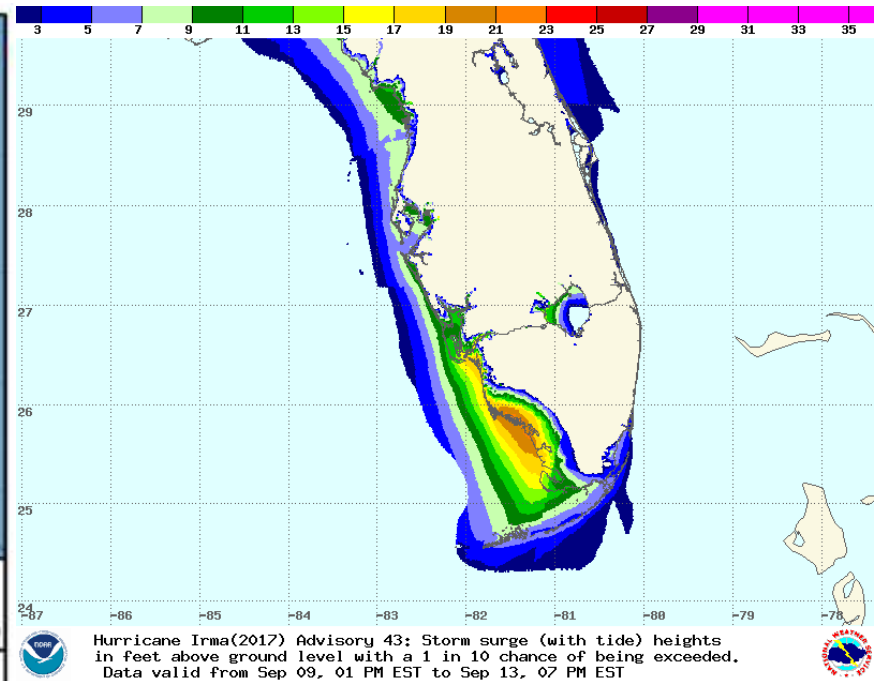


- How many worked Disaster Response last year?
- How many Still Working on it?
- How many communities impacted?
- How many were tracking the storms as developing and approaching?
- How many feel safe? Dodged the bullet?
- What if?

Tracking the Storm

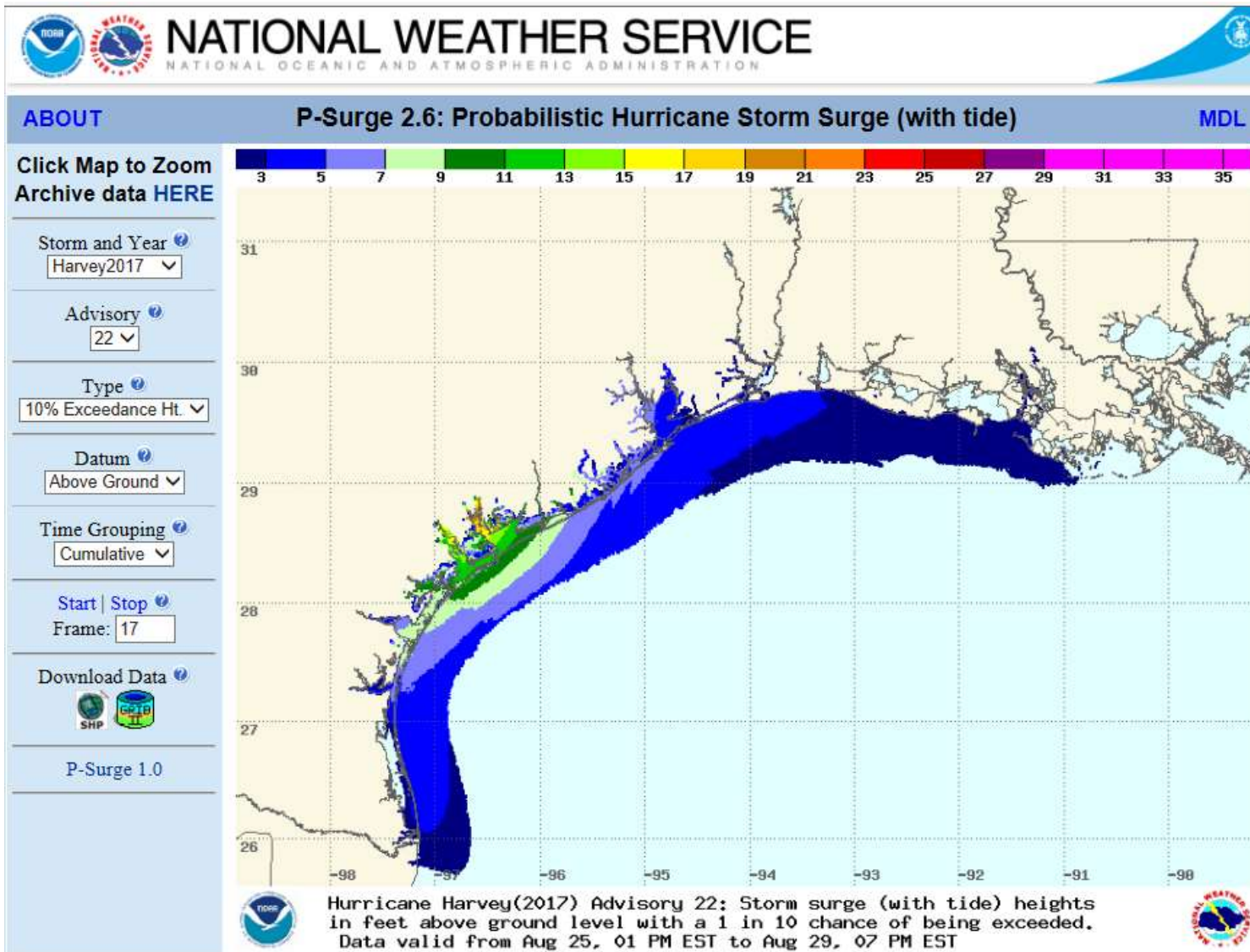
- Where is the storm going to go?
- What are the impacts on the current track and intensity?
- What would be the storm surge impacts?
- What if the track shifted?
- What if the storm intensifies?

NOAA National Hurricane Center



- <https://www.nhc.noaa.gov/>
- <http://slosh.nws.noaa.gov/psurge2.0/>

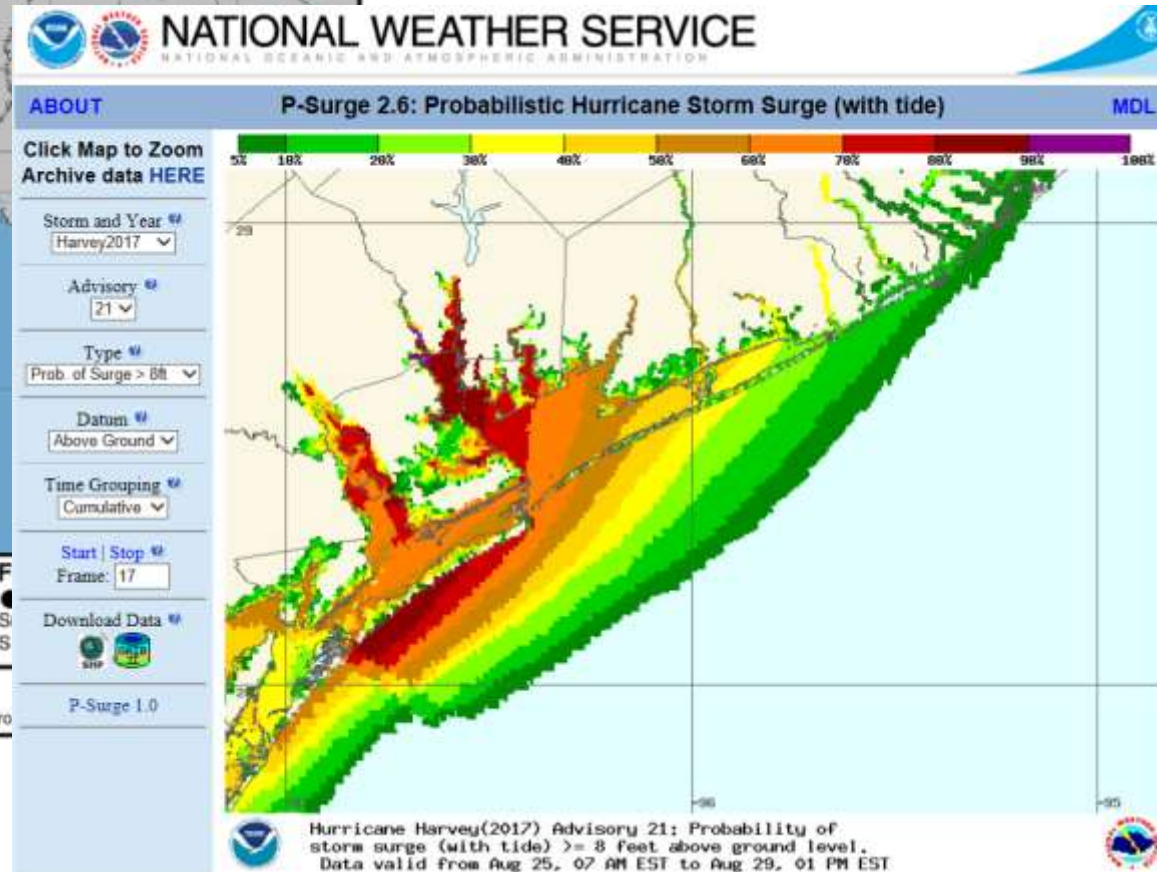
NOAA P-SURGE



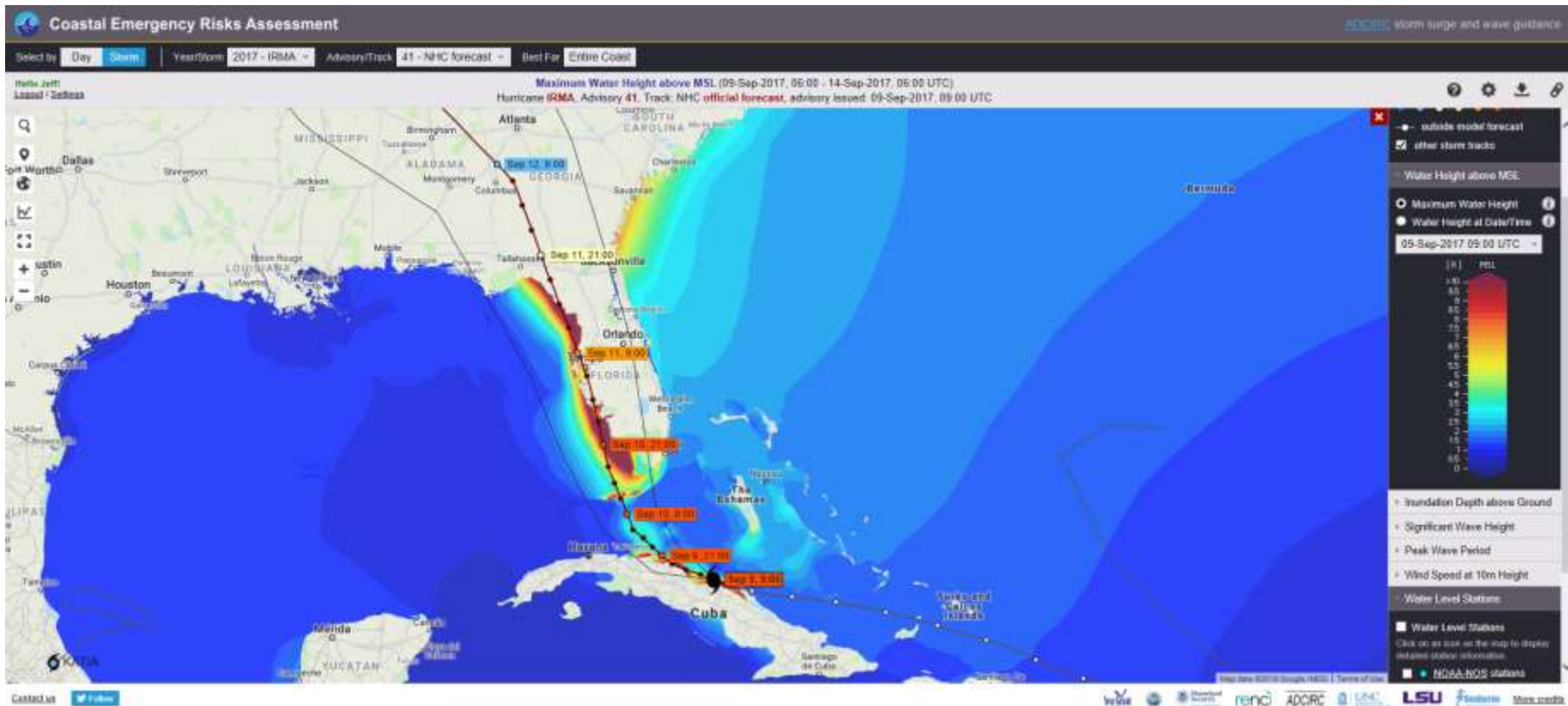
NOAA P-SURGE



Start [Navigation icons] Rock Zoom [Navigation icons] Save Image

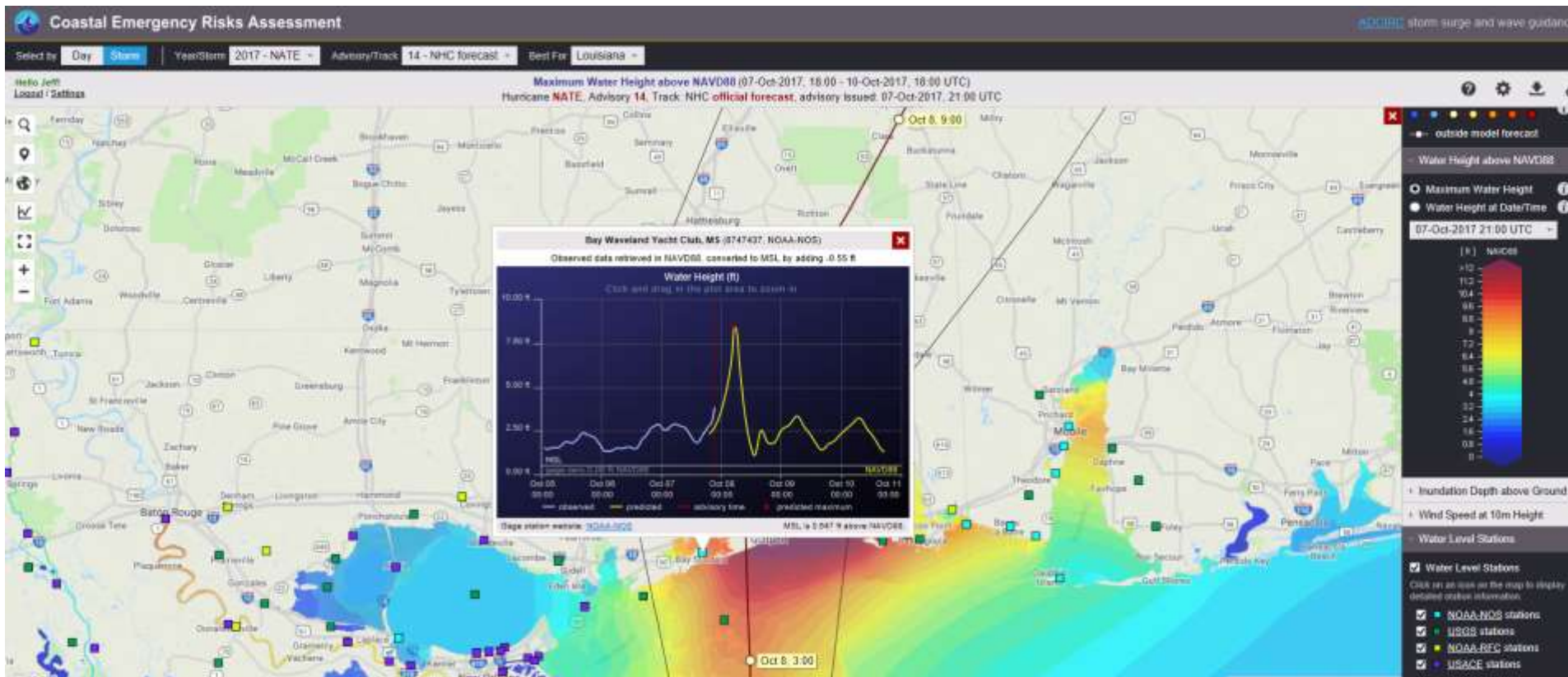


CERA – Coastal Emergency Risk Assessment

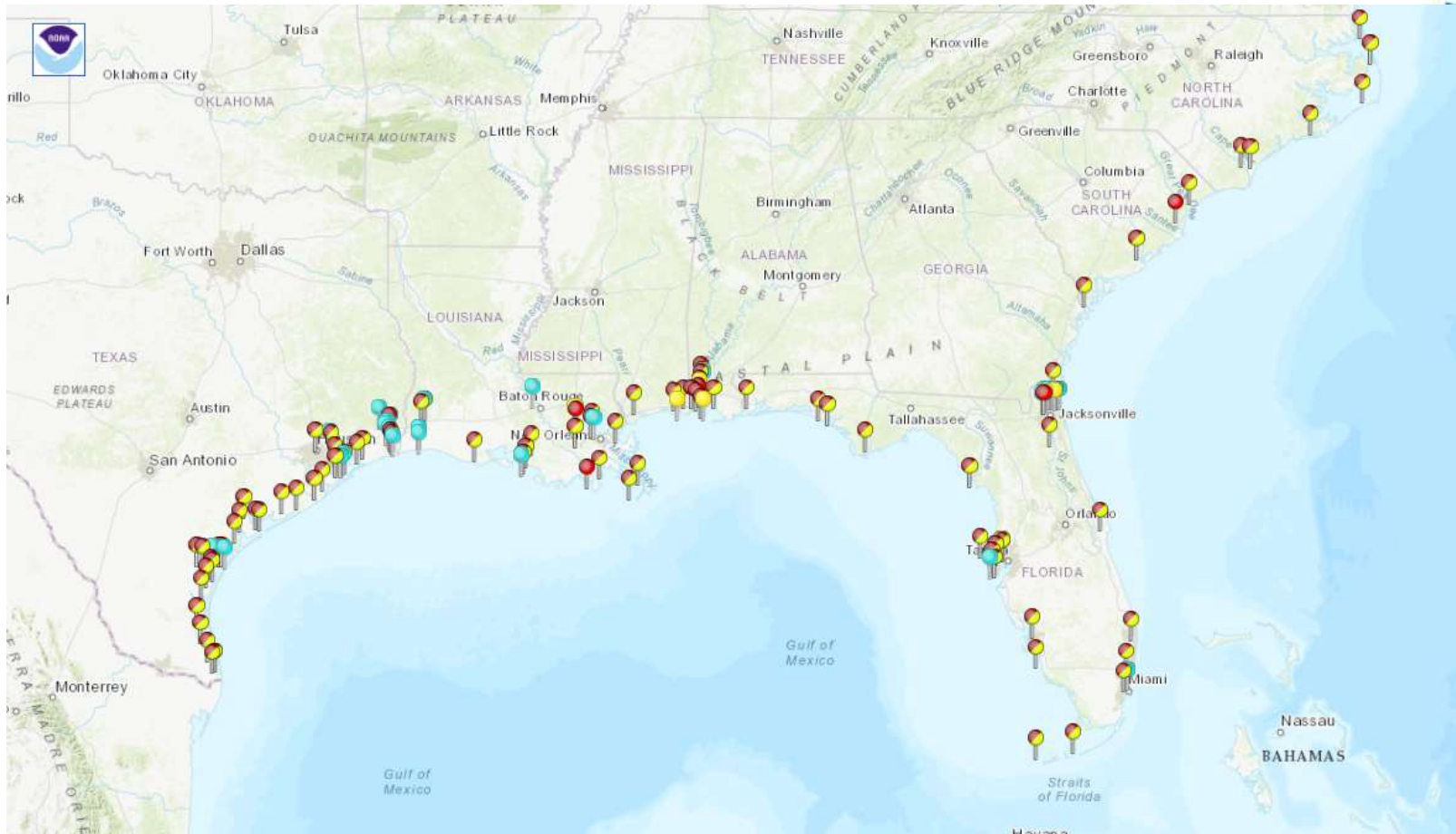


- <https://cera.coastalrisk.live/>

CERA – Coastal Emergency Risk Assessment



NOAA – Tides and Currents

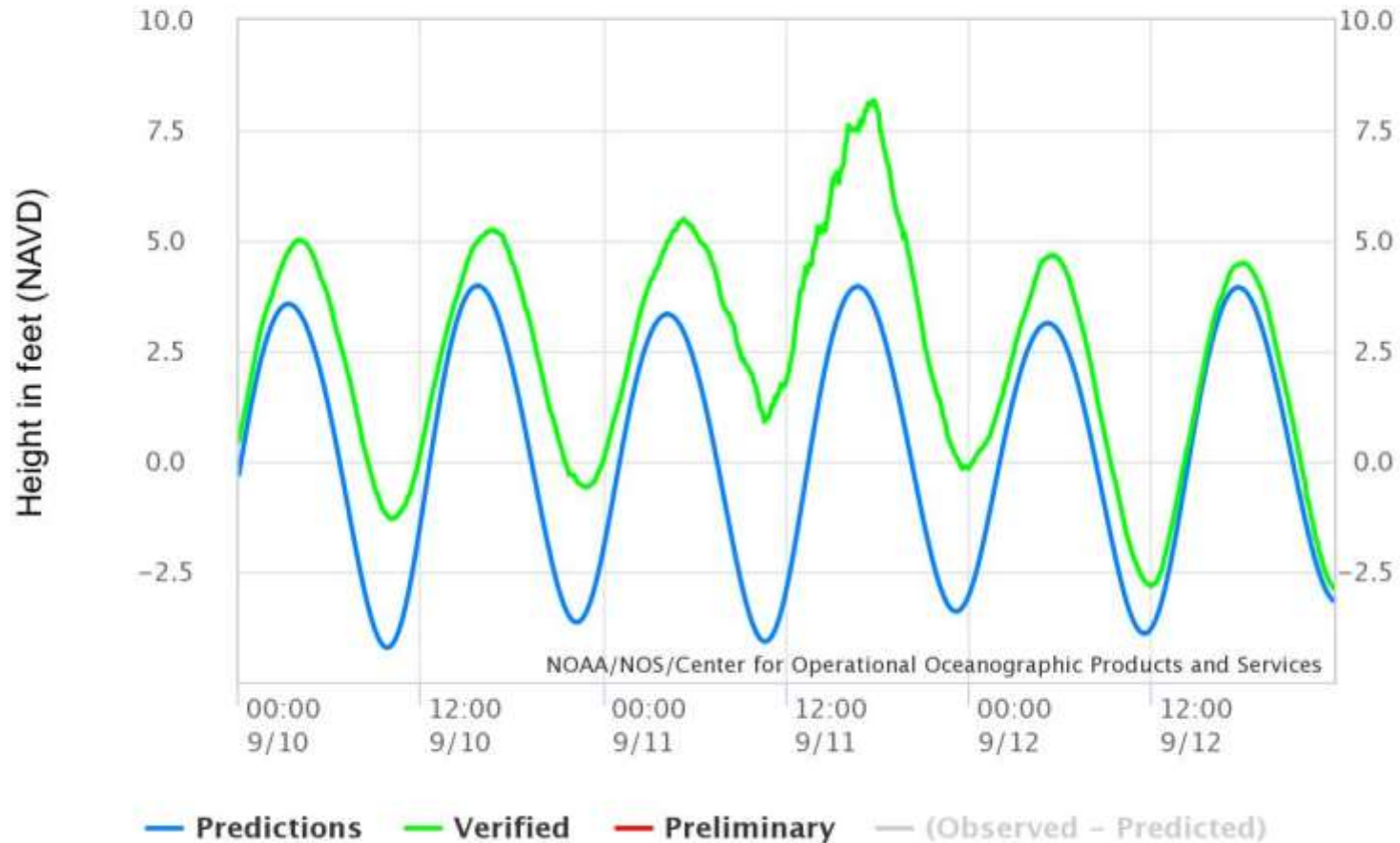


- <https://tidesandcurrents.noaa.gov/>

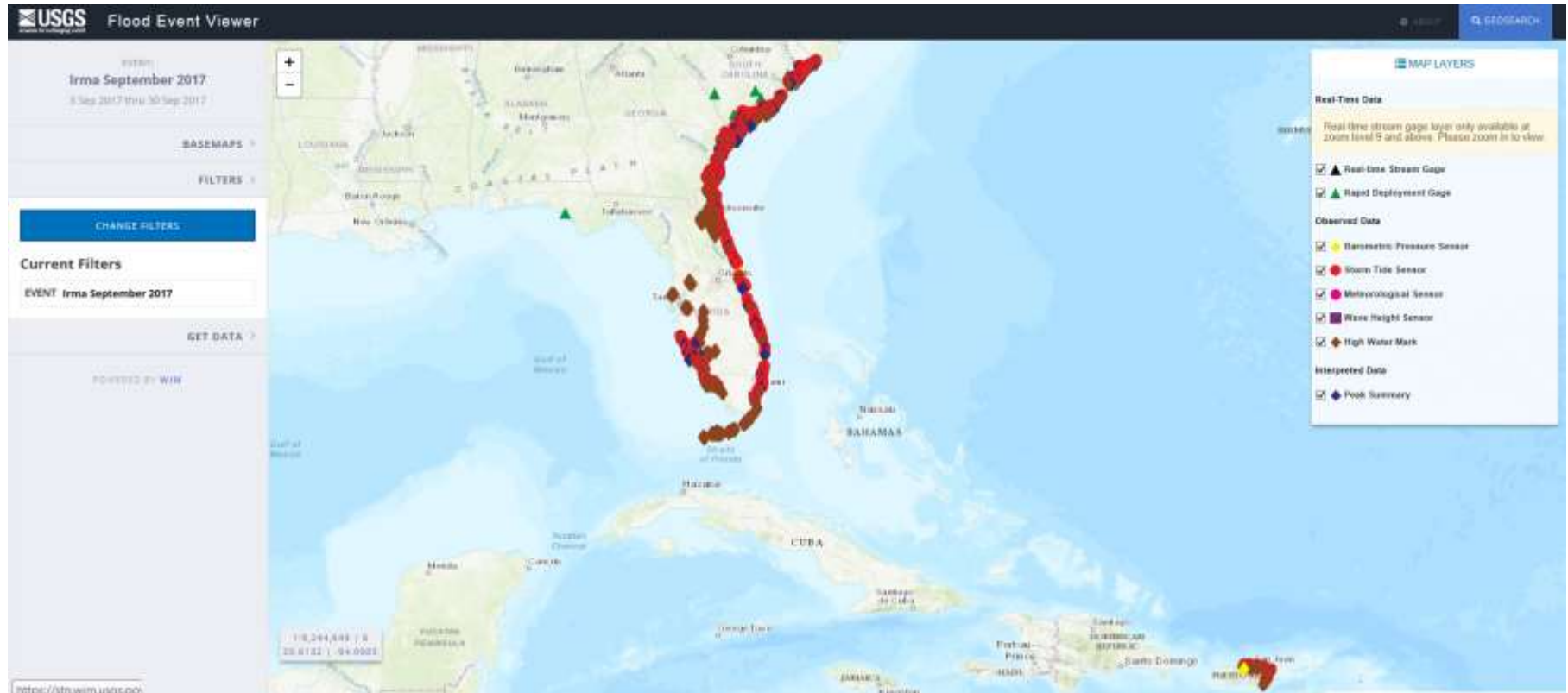
NOAA – Tides and Currents



NOAA/NOS/CO-OPS
Observed Water Levels at 8670870, Fort Pulaski GA
From 2017/09/10 00:00 GMT to 2017/09/12 23:59 GMT

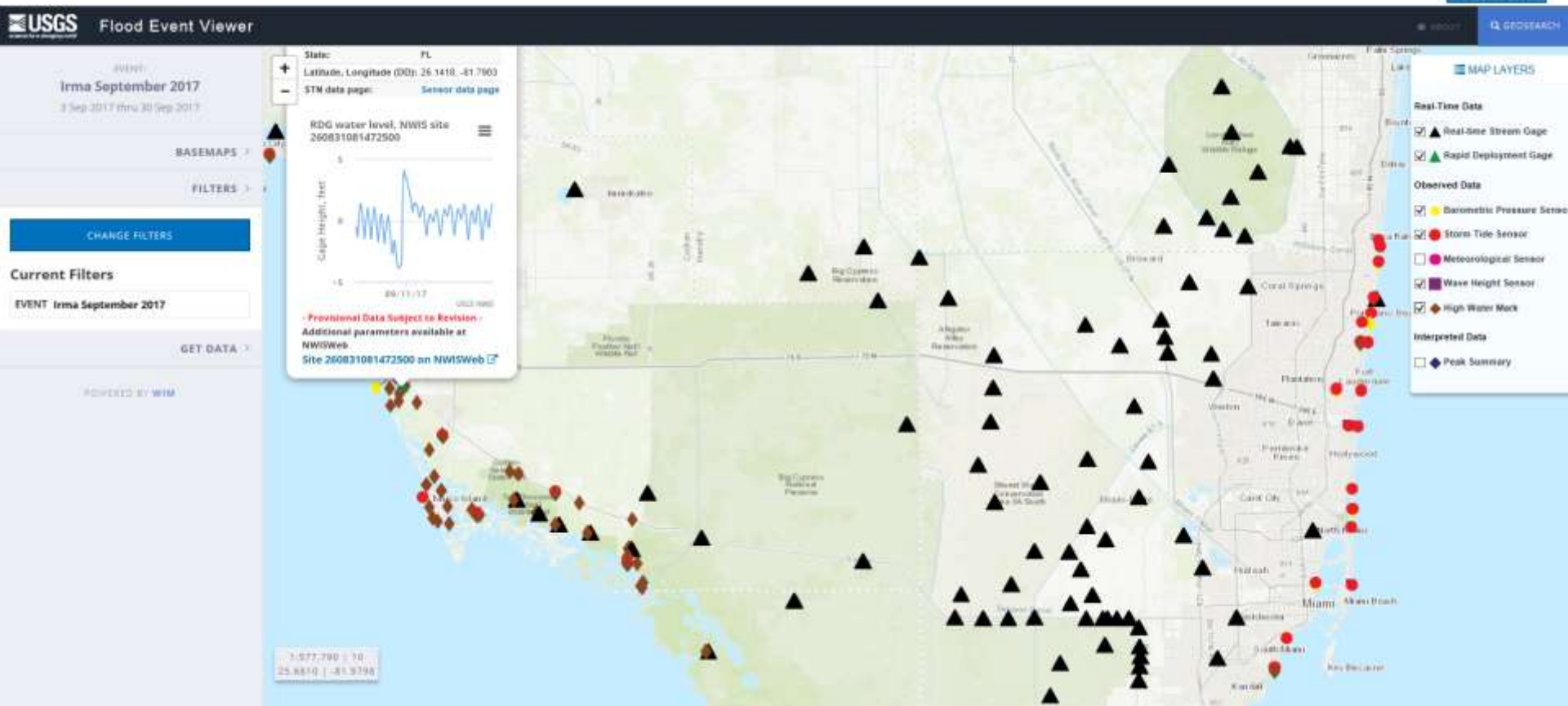


USGS – Rapid Gage Deployment

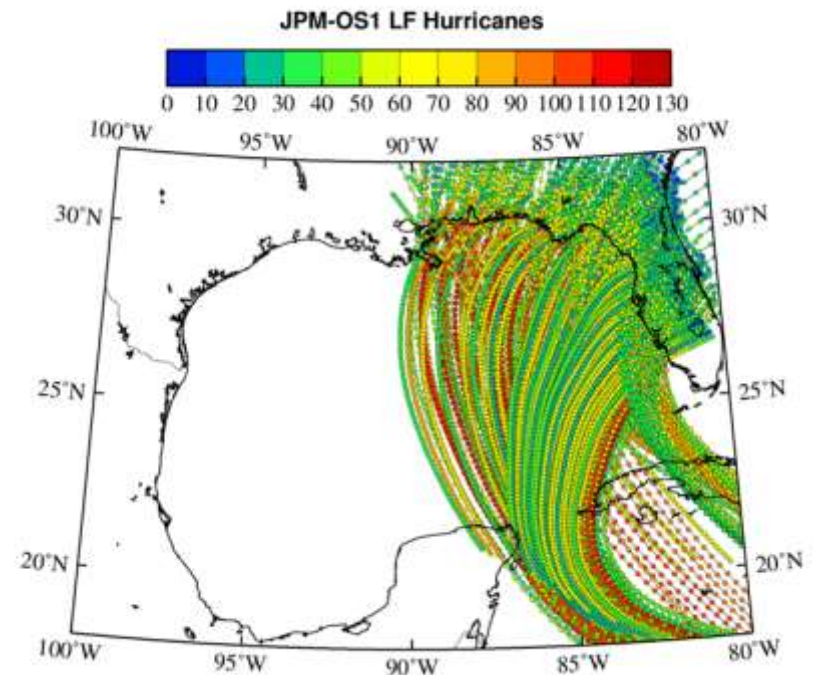
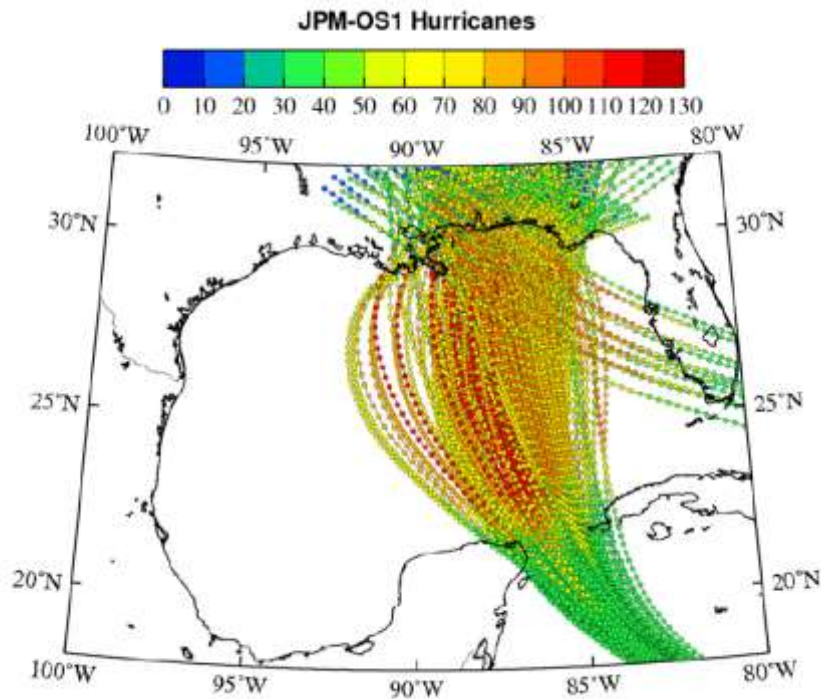


- <https://stn.wim.usgs.gov/FEV/>

USGS – Rapid Gage Deployment



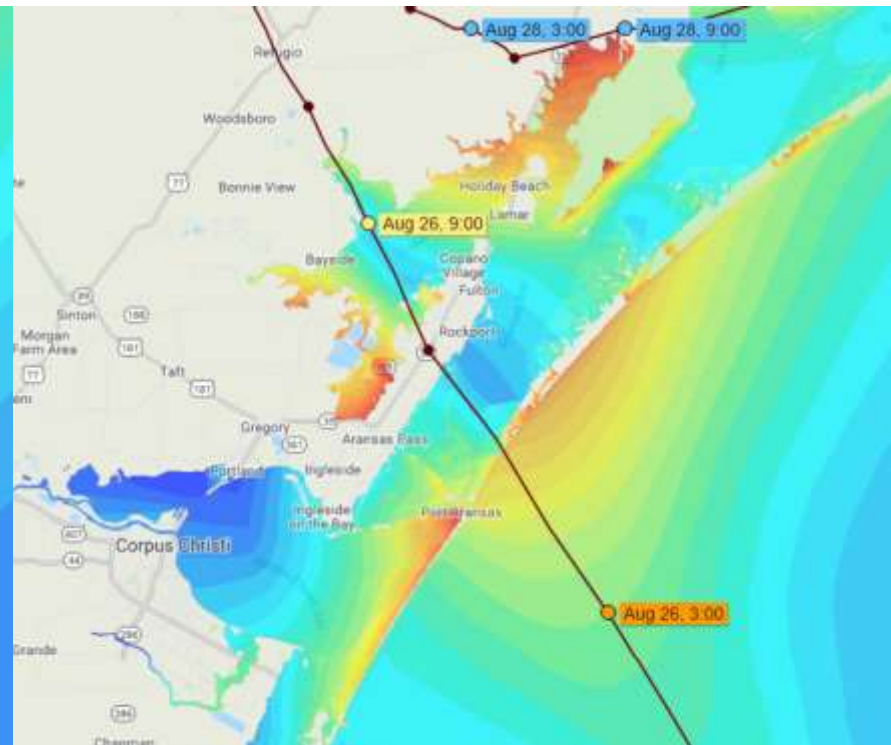
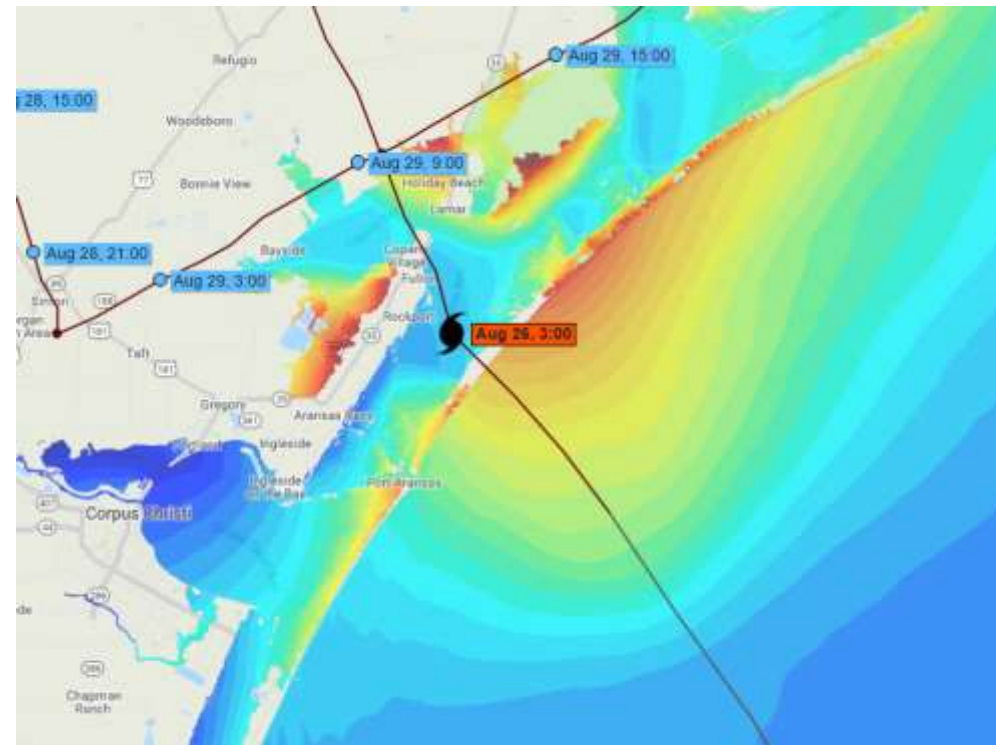
FEMA Coastal Flood Studies



Hurricane Harvey

Forecast 23

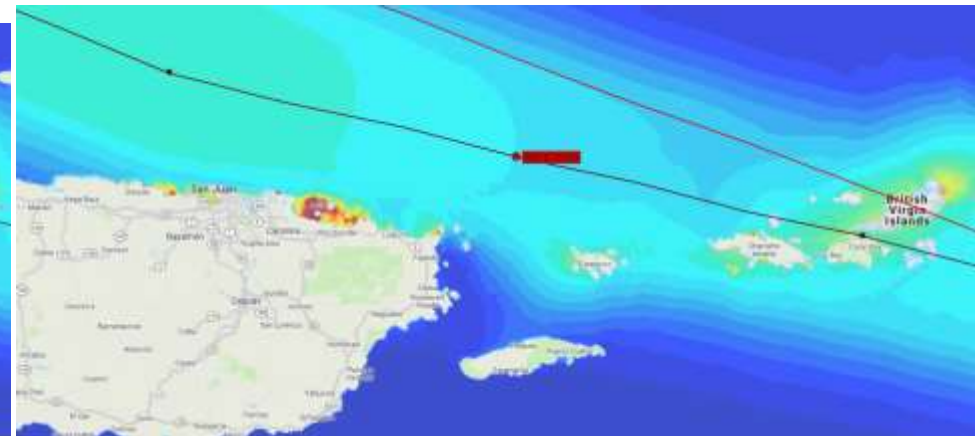
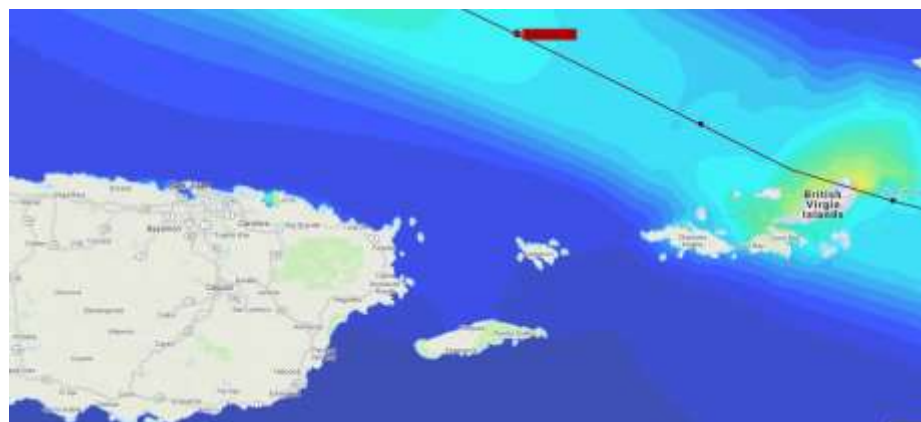
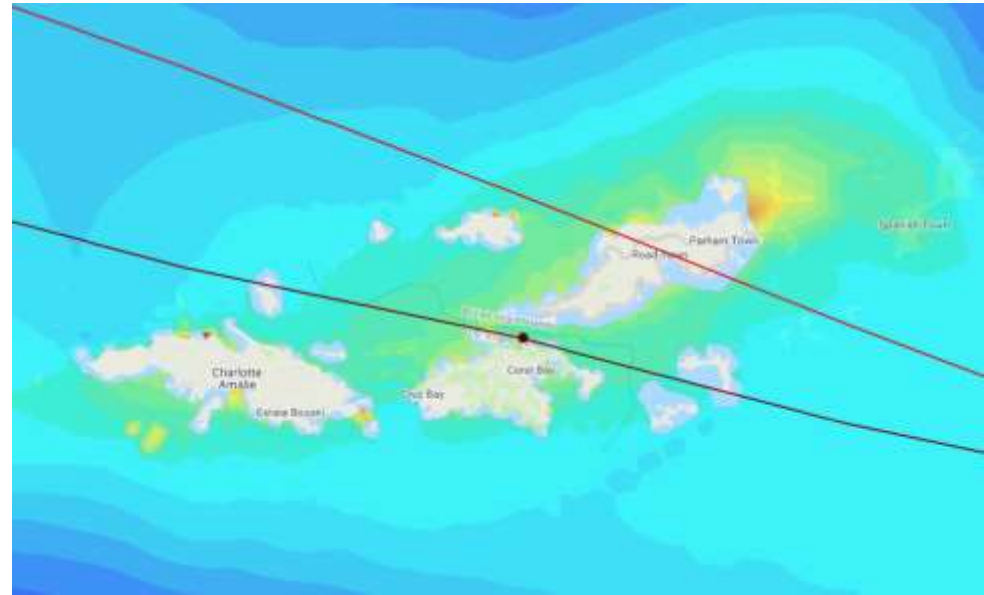
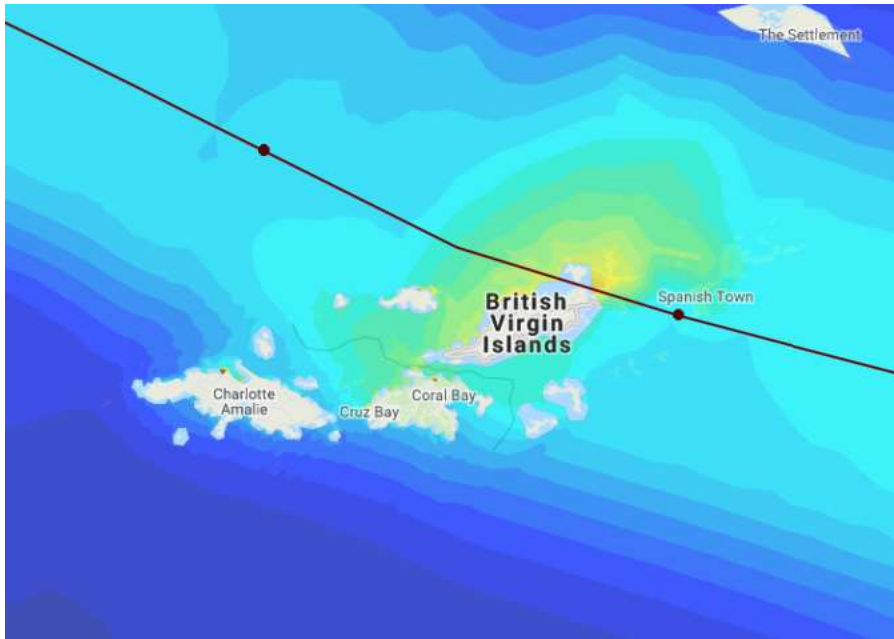
Forecast 20



Hurricane Irma

Hindcast

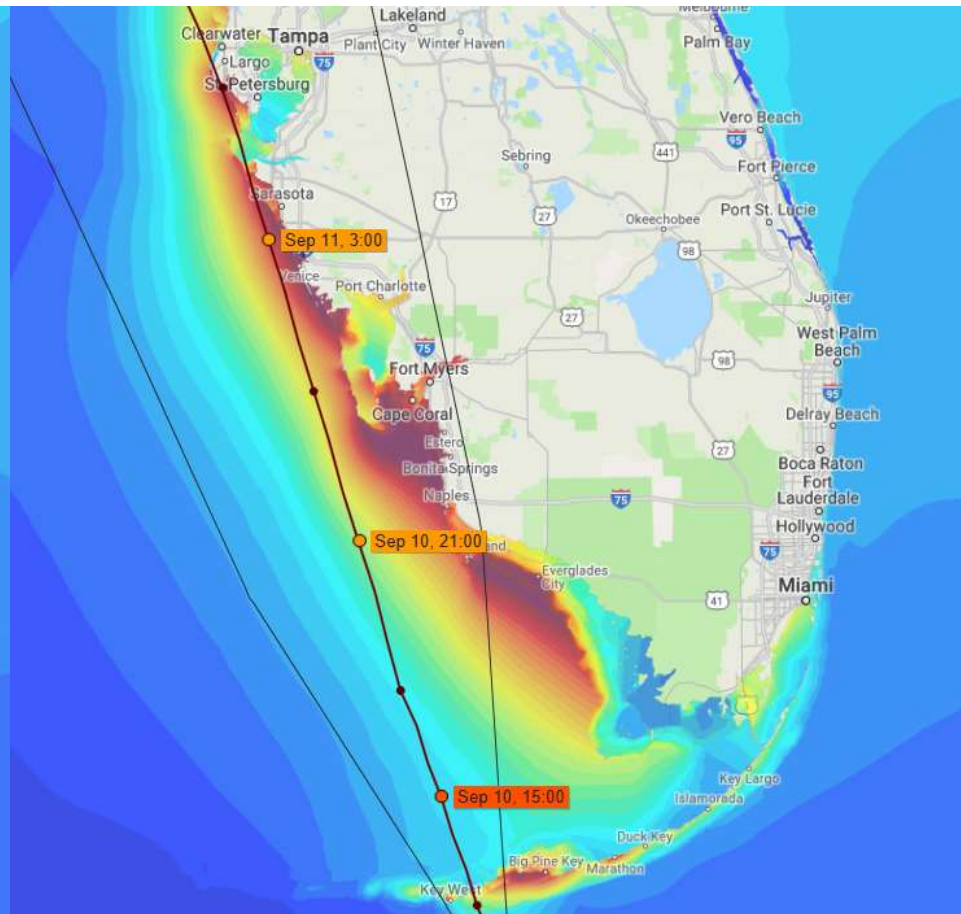
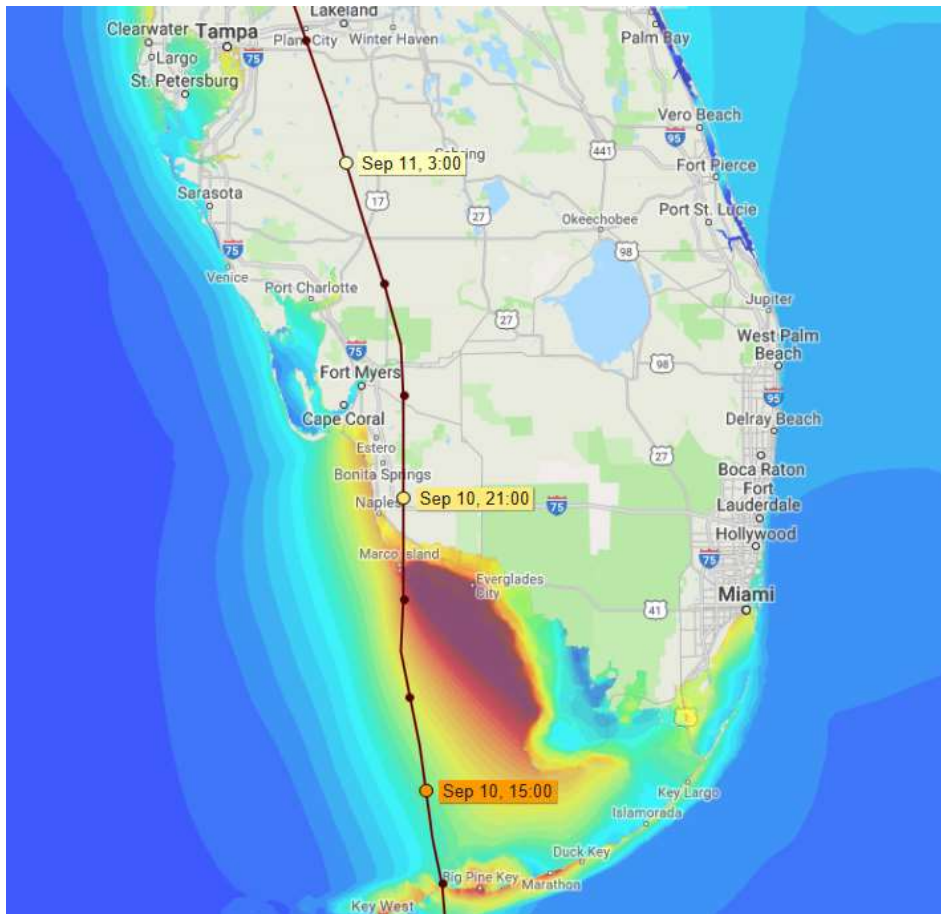
Forecast 30 – Left 50%



Hurricane Irma

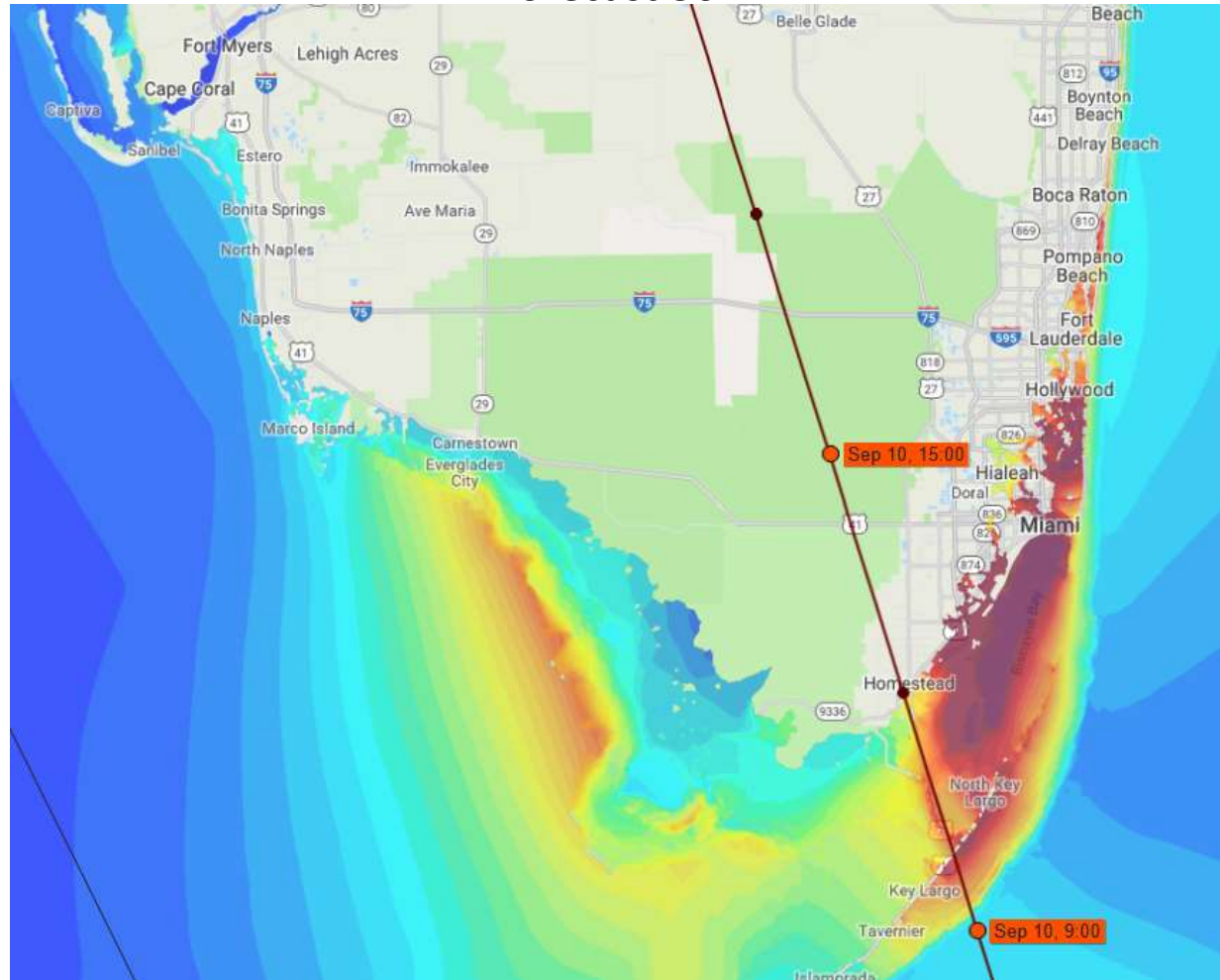
Hindcast

Forecast 45



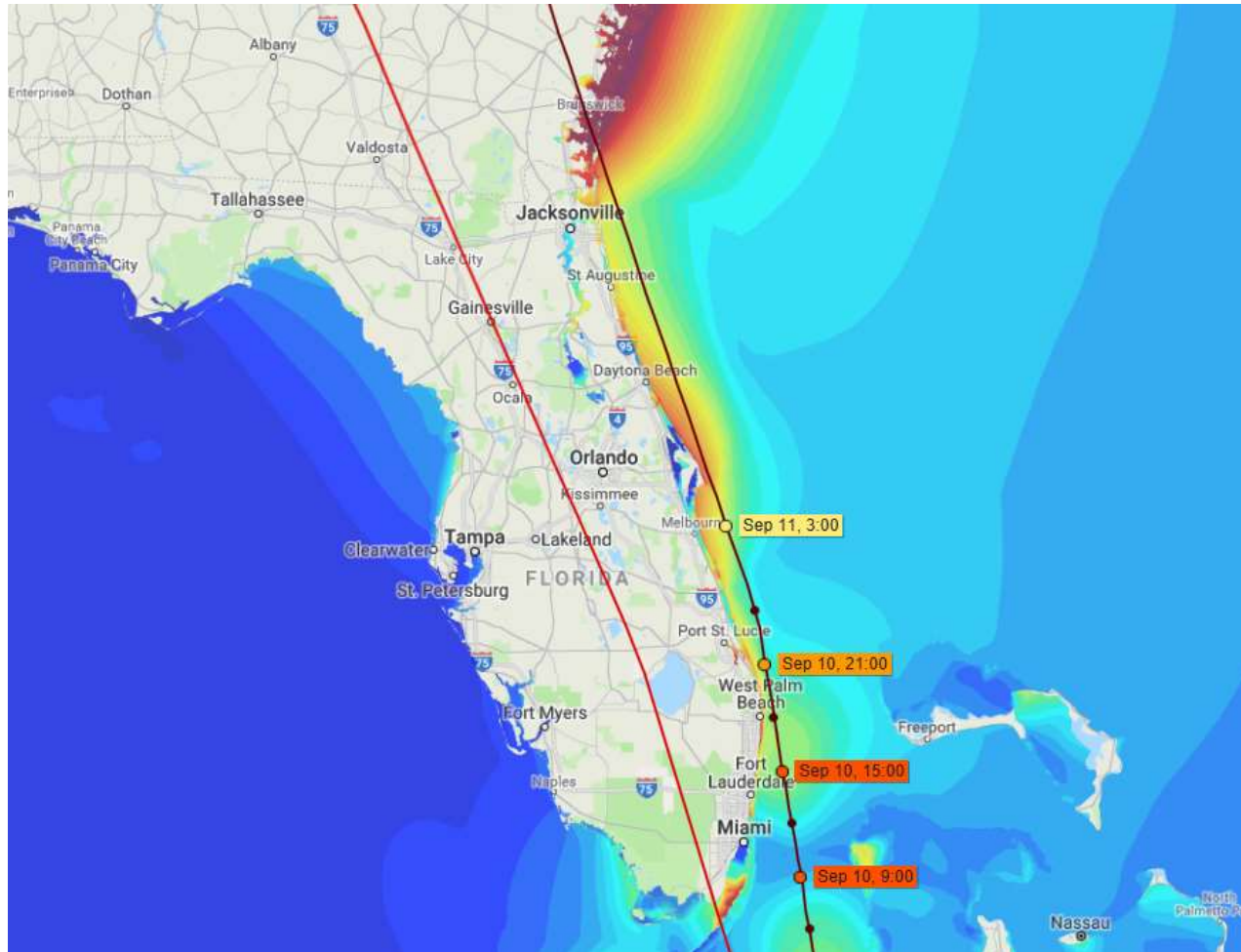
Hurricane Irma

Forecast 36



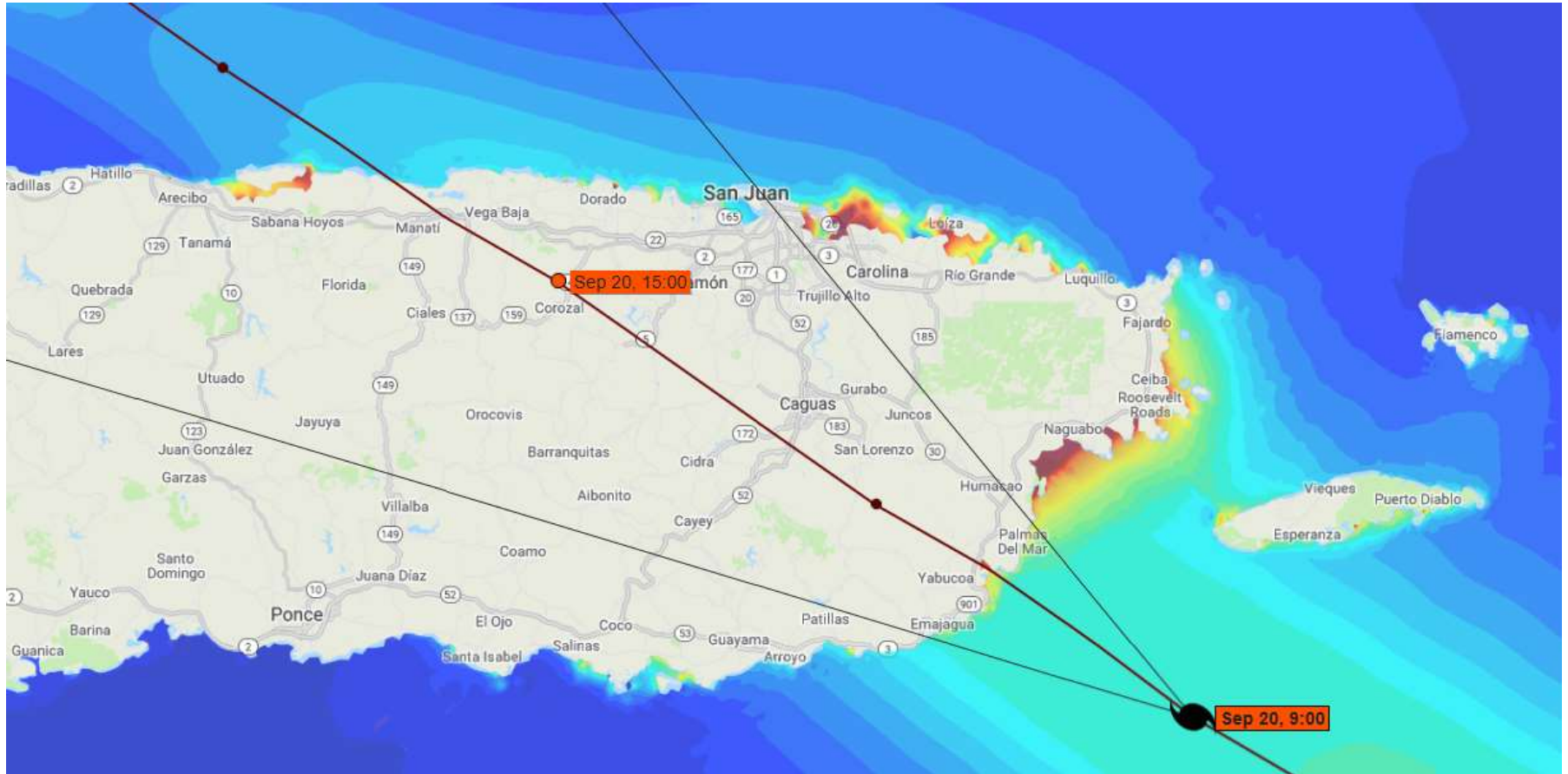
Hurricane Irma

Forecast 36 – Right 50%



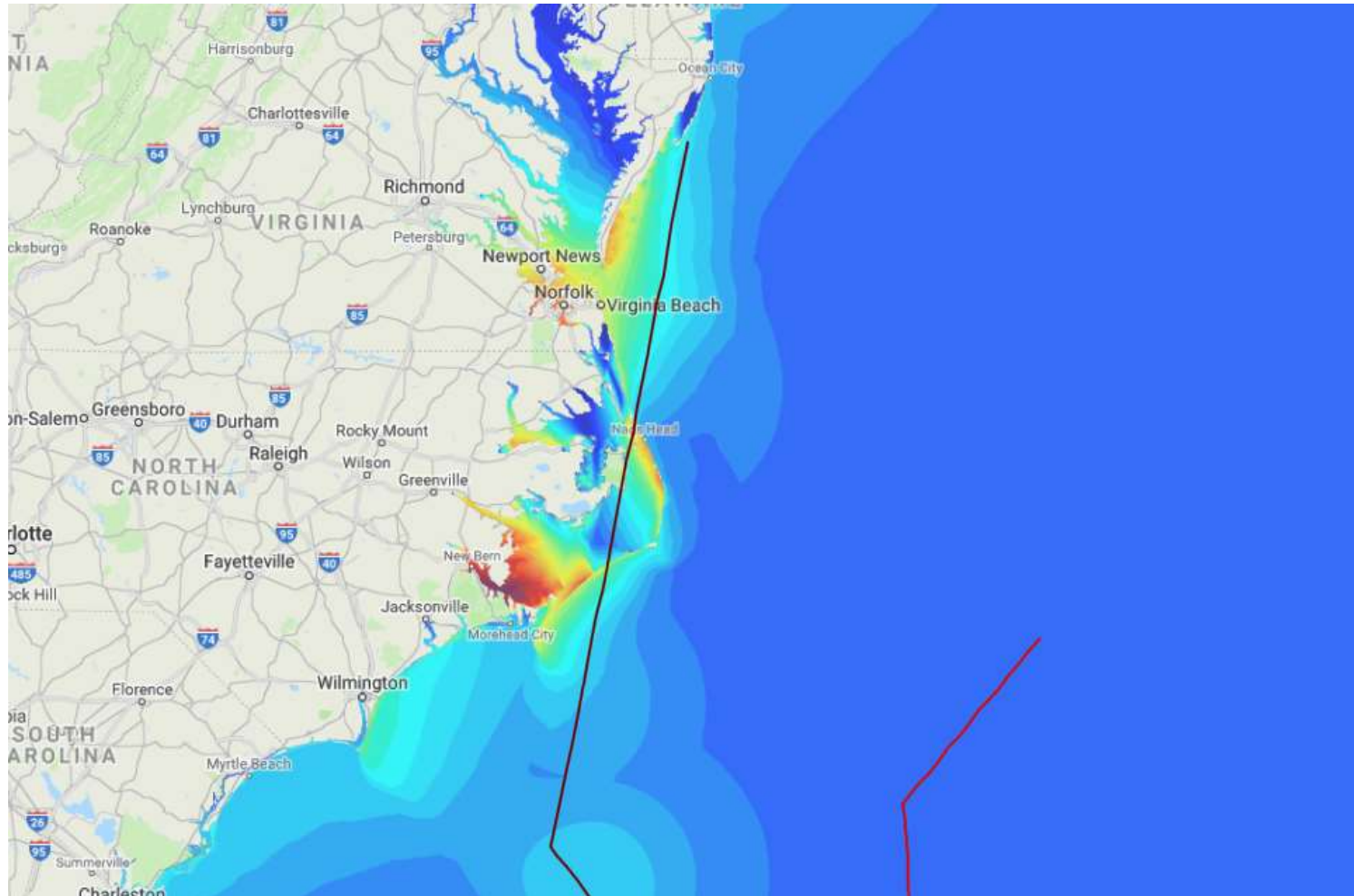
Hurricane Maria

Forecast 17



Hurricane Maria

Forecast 30 – Left 100%



Hurricane Nate

Hindcast

Forecast 15

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Summary



- Be Prepared for the worst
- Use the available tools
 - Before Hurricane Season
 - As Storm approaches
 - After the storm for Recovery and Mitigation
- What If?