IOOS® INTEGRATED OCEAN OBSERVING SYSTEM

CARIBBEAN COASTAL OCEAN OBSERVING SYSTEM

CariCOOS.org

WAVES | WIND | CURRENTS | OCEAN COLOR

AND MORE...

CariCOOS - Marine Spatial Planning Initiative in Support to the Caribbean Regional Ocean Partnership

Data Managers Meeting

Wednesday, March 13, 2013

Double Tree Hilton by Hilton, San Juan, PR

Presented by

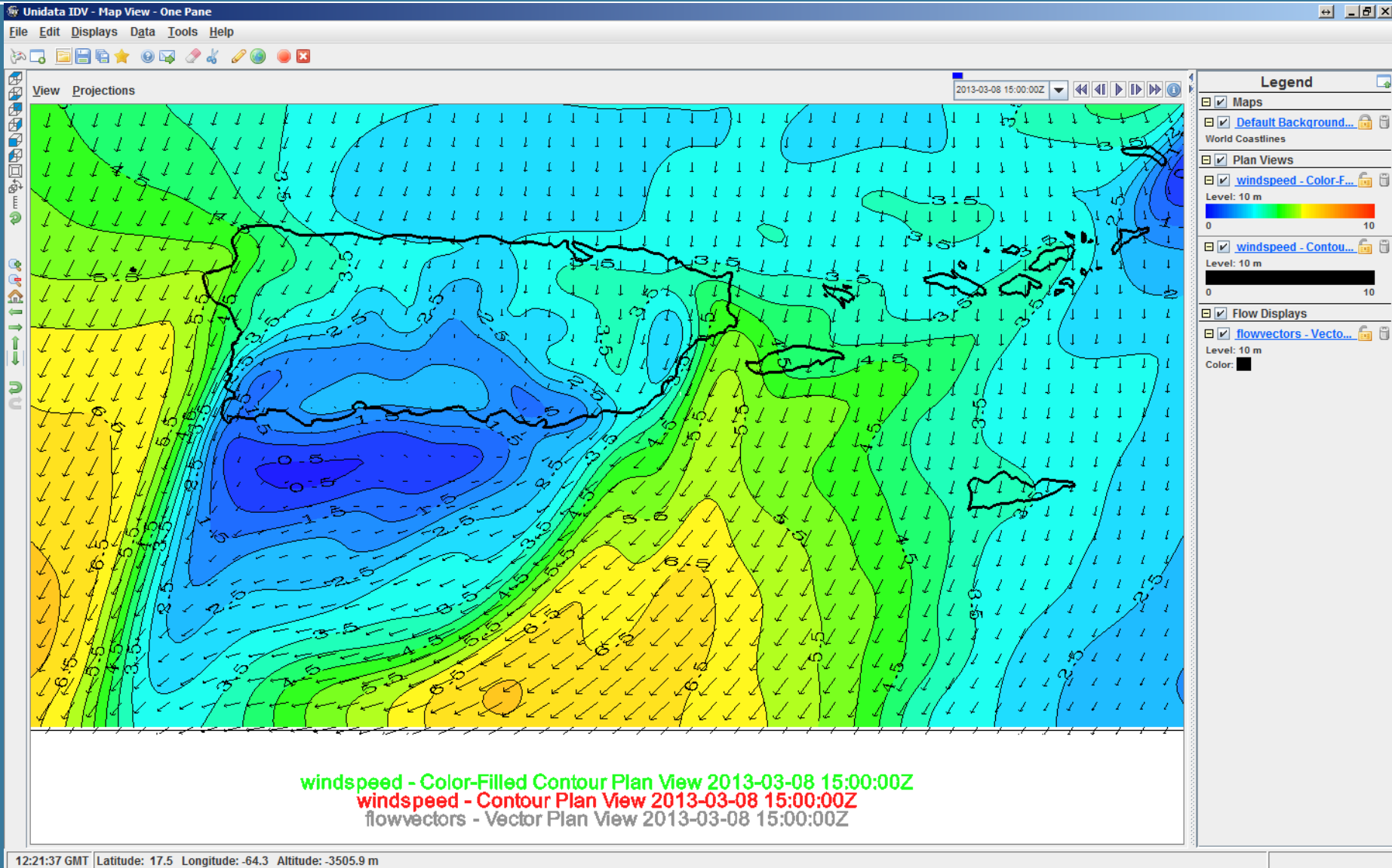Luis D. Aponte-Bermúdez, Ph.D., P.E.

Email: luisd.aponte@upr.edu

Associate Professor – UPRM & CariCOOS Co-PI

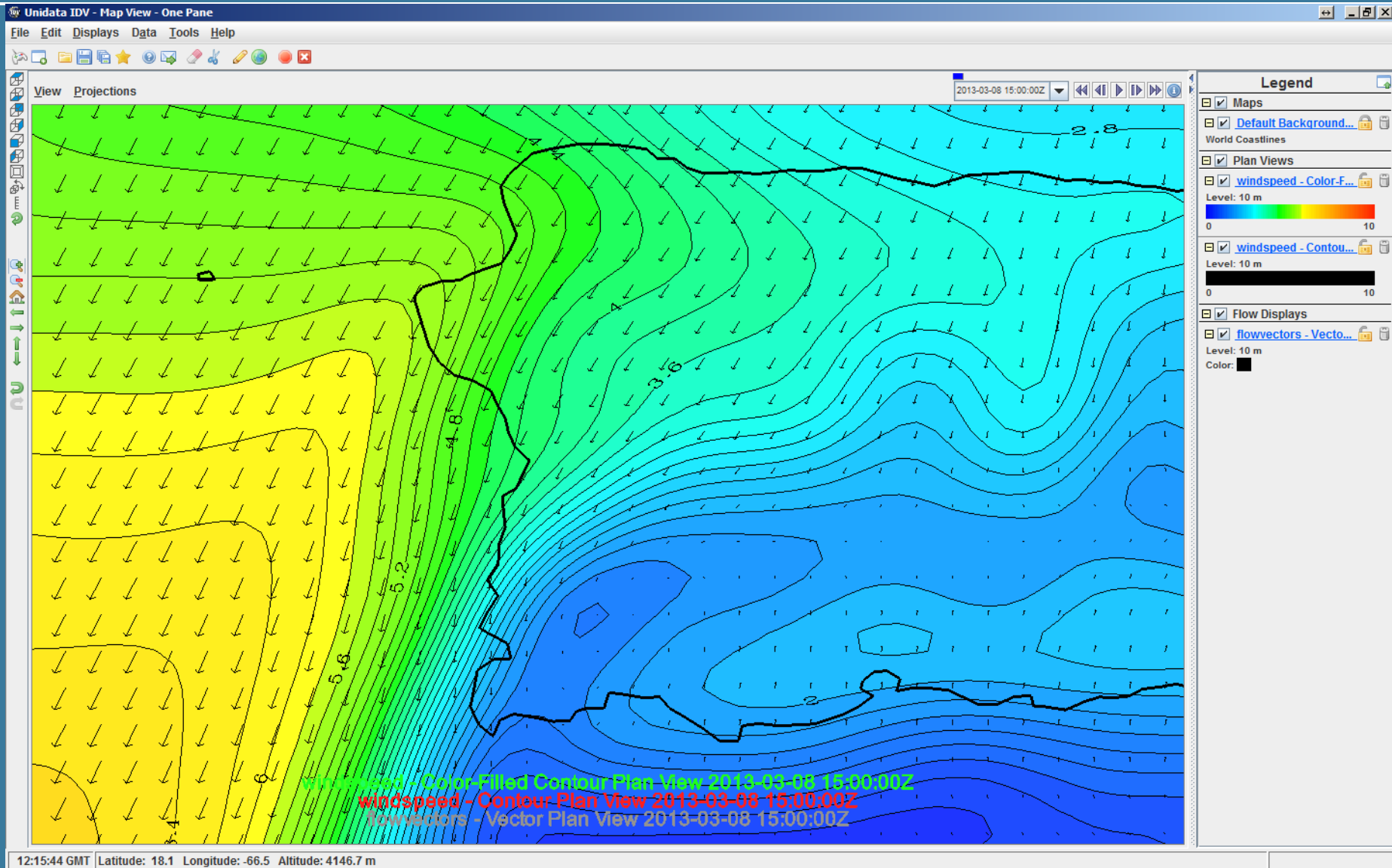Department of Civil Engineering and Surveying

IOOS

CariCOOS MSP Initiative

- Recently CariCOOS as implemented an ArcGIS Server in order to disseminate its models products:
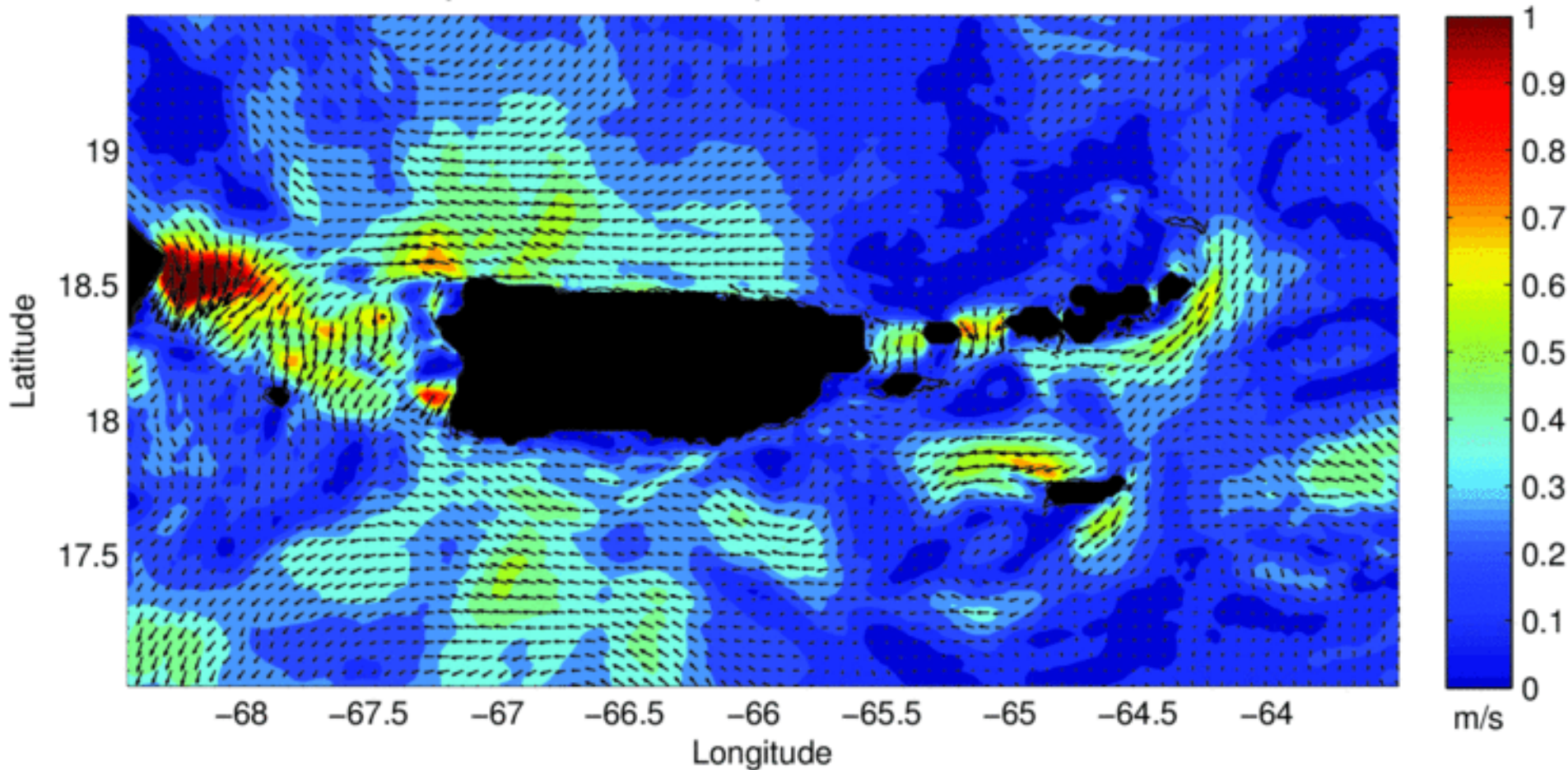 - Winds
  - Waves
  - Currents
  - Ocean Color
  - Storm Surge Simulation

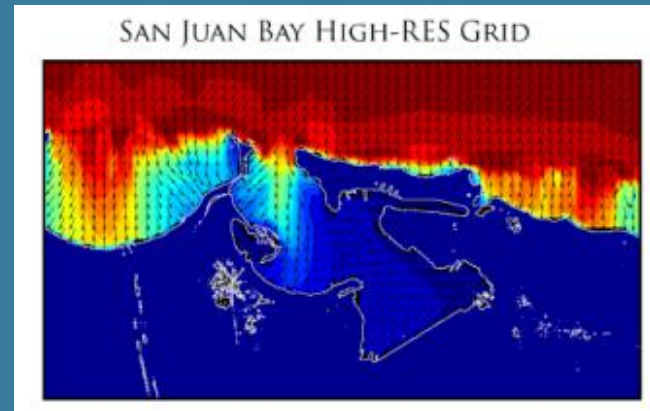# Wind – CariCOOS High-Res WRF
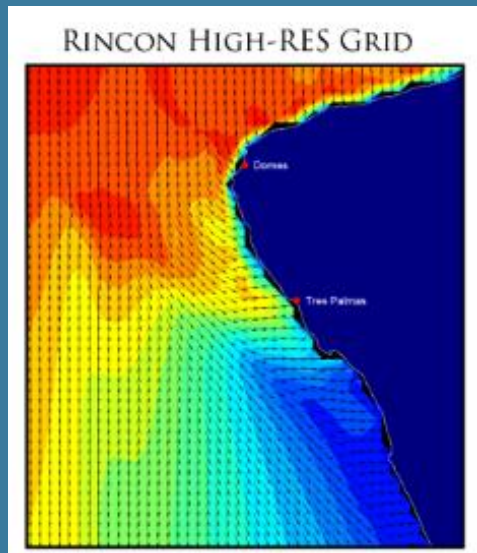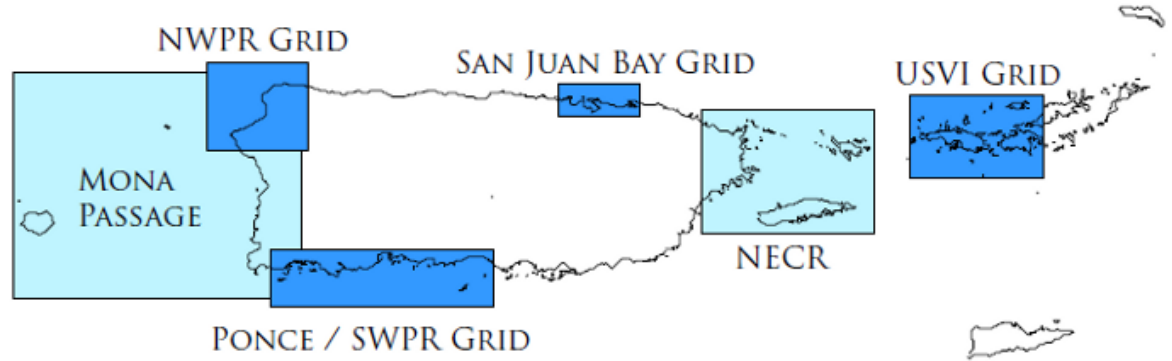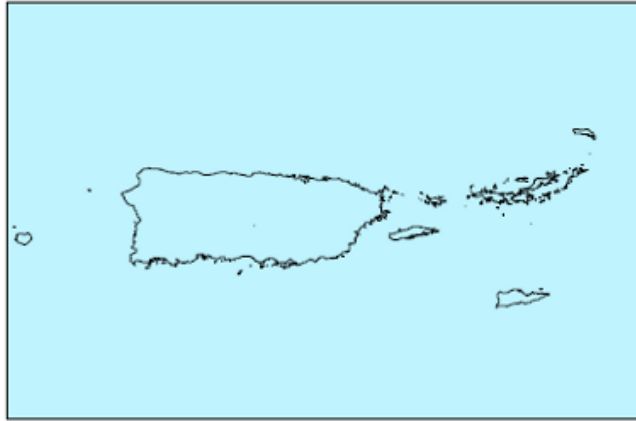
Wind – CariCOOS High-Res WRF

Currents – CariCOOS AmSeas NCOM

AMSEAS Velocity field for 0 meters depth at 12-Mar-2013 11:00:00 local time

Waves - CariCOOS Swan Nearshore Wave Model

CariCOOS SWAN Multigrid Wave Model version 2.0 – PRVI Grid
Significant wave height (Hs – feet) and direction for 2013–03–13–1100 local time

CariCOOS SWAN Multigrid Wave Model version 2.0 – SJBAY Grid
Significant wave height (Hs – feet) and direction for 2013–03–13–1100 local time
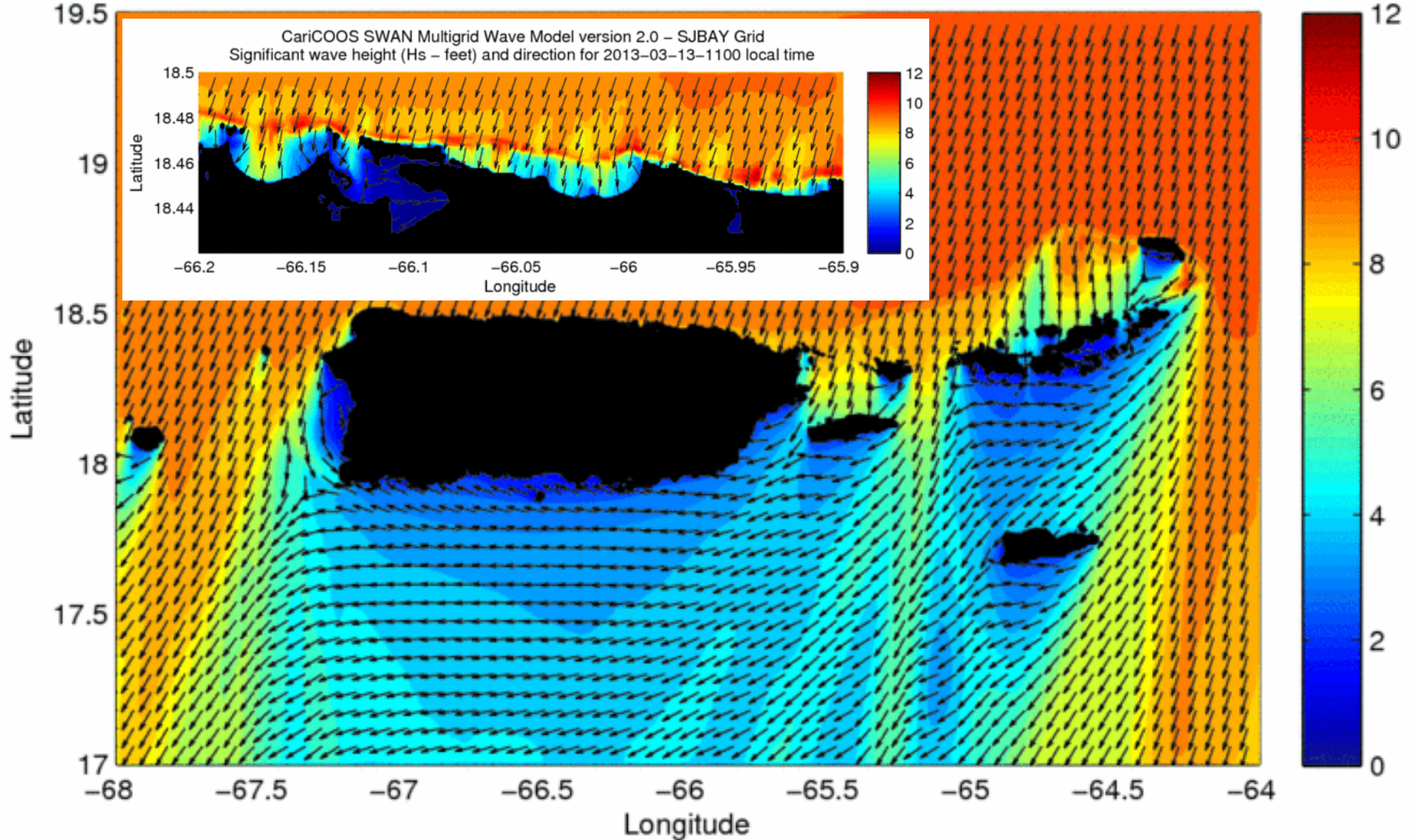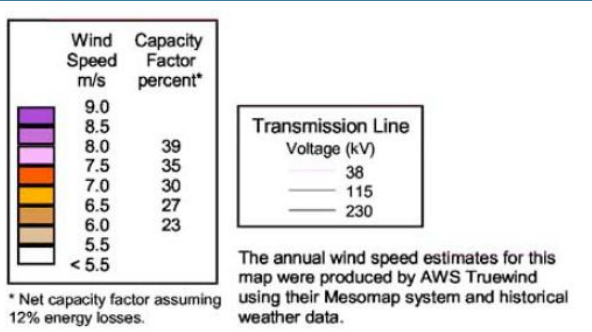
Caribbean IOOS: Storm Surge Simulation

- Dissemination Strom Surge Models (Currently under CariCOOS test bed ArcGIS Server)
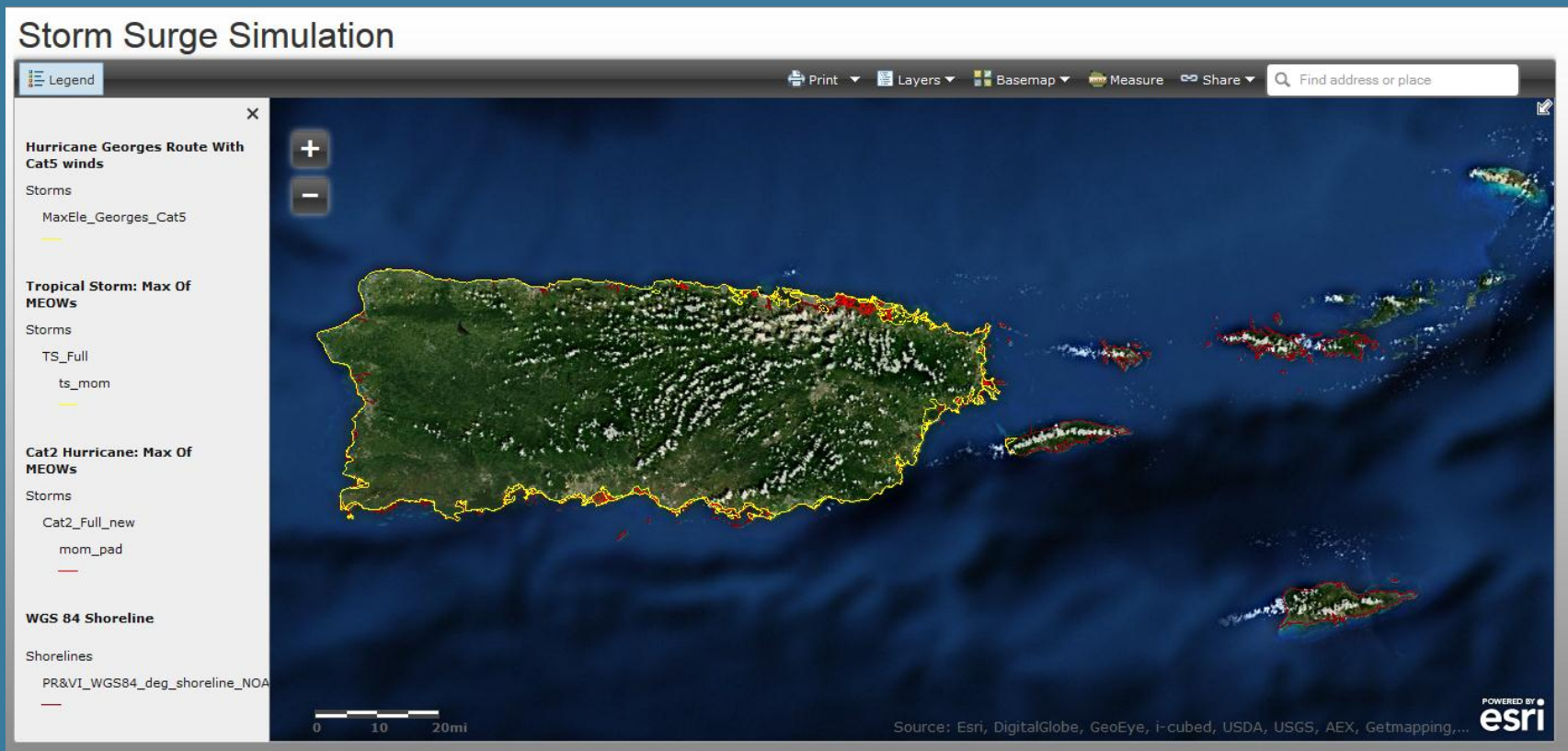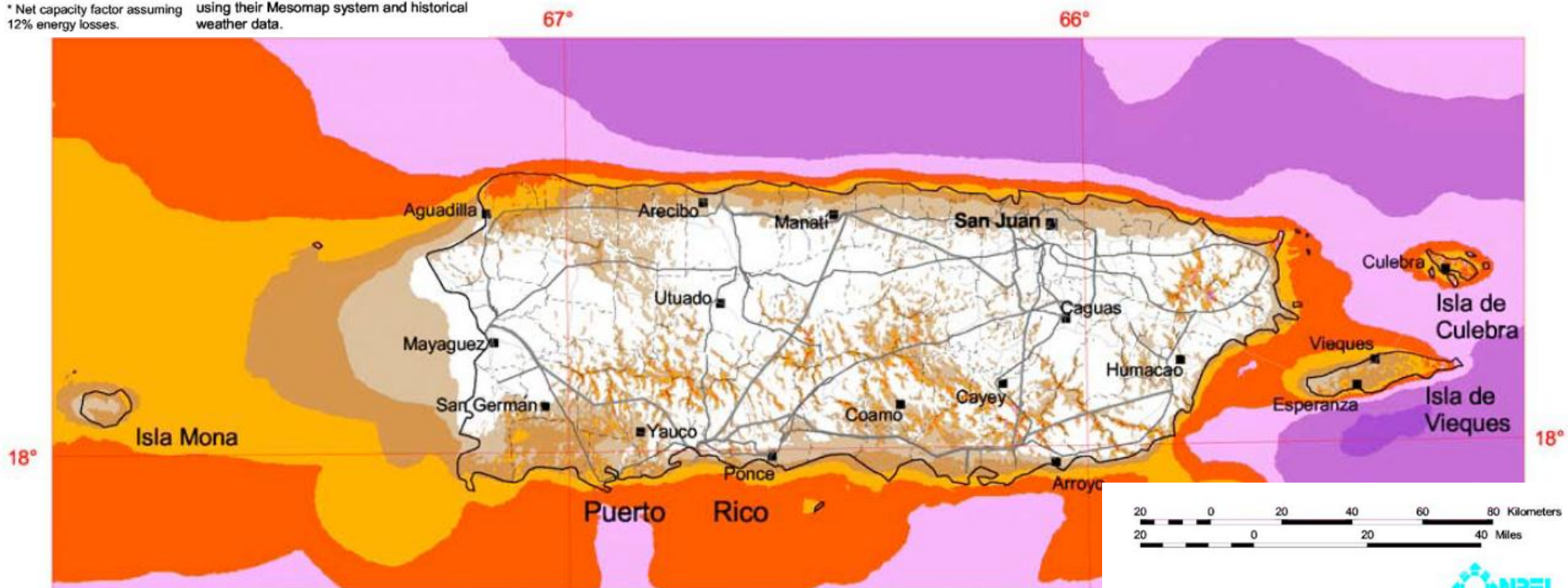
Caribbean IOOS: Storm Surge Simulation

Puerto Rico - 100 m Wind Speed

CariCOOS MSP Initiative

Looking forward to work with the CROP

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