

Modeling Inundation and Impacts

Inundation Models Applied by PDC

Michael Chatman
Modeling Analyst
Pacific Disaster Center

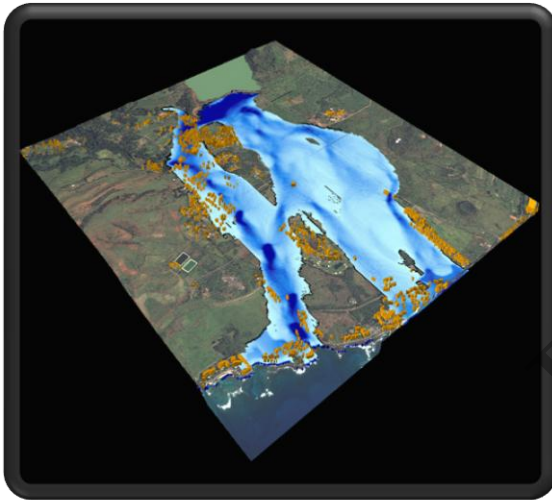


Inundation Models Applied by PDC

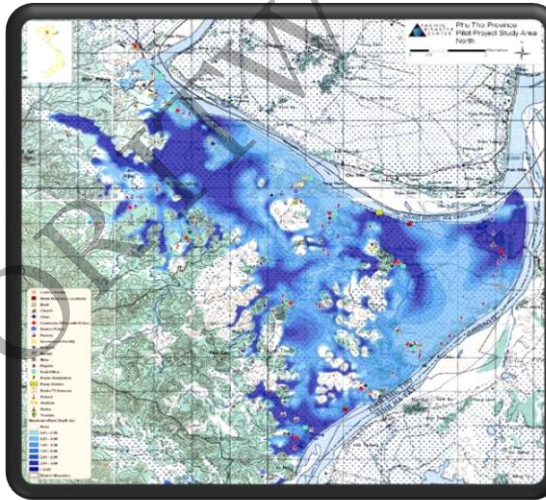
- MIKE Modeling Suite
 - Flo-2D
 - HAZUS-MH
 - Tsunamis – MOST and TTT
 - TAOS
-
- Visualization

MIKE Modeling Suite

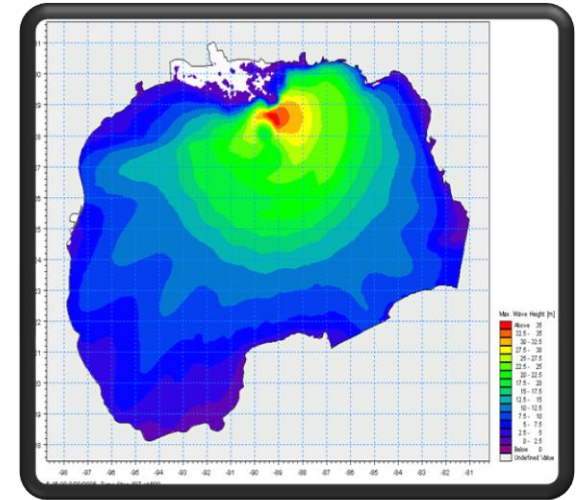
- Dam/Levee Failure, Storm Surge, Flash Flood, Rainstorm Flooding



Dam Break Inundation



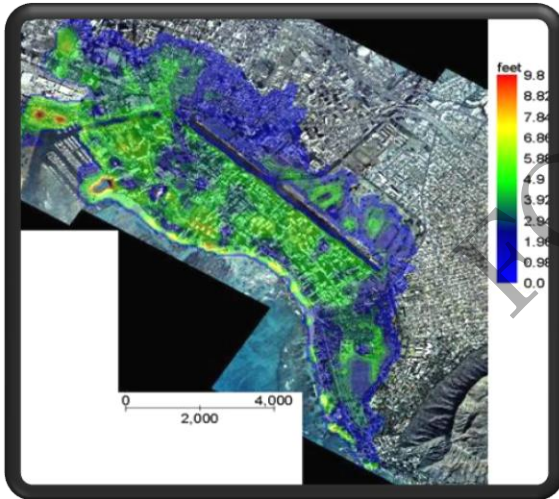
Levee Break Inundation



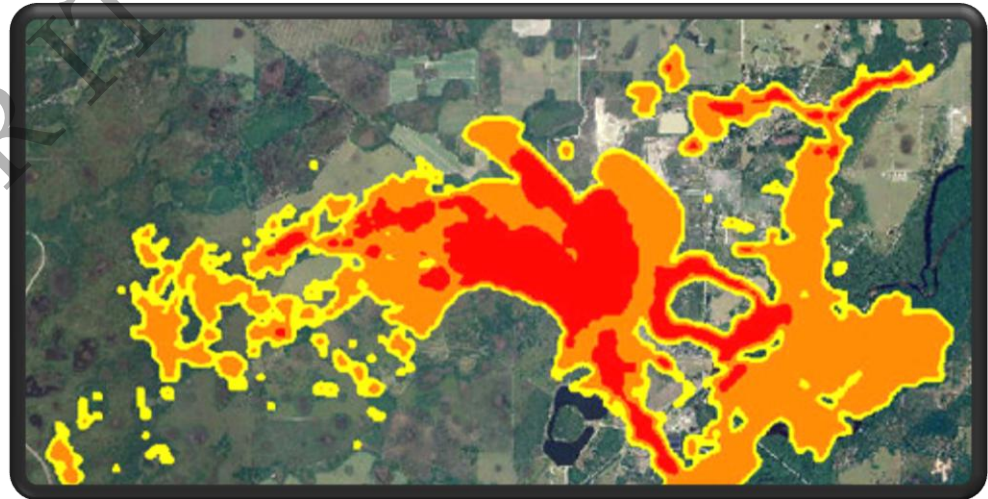
Storm Surge Inundation

Flo-2D

- Dam/Levee Failure, Storm Surge, Flash Flood, Rainstorm Flooding, Debris Flow and Sediment Transport



Storm Surge

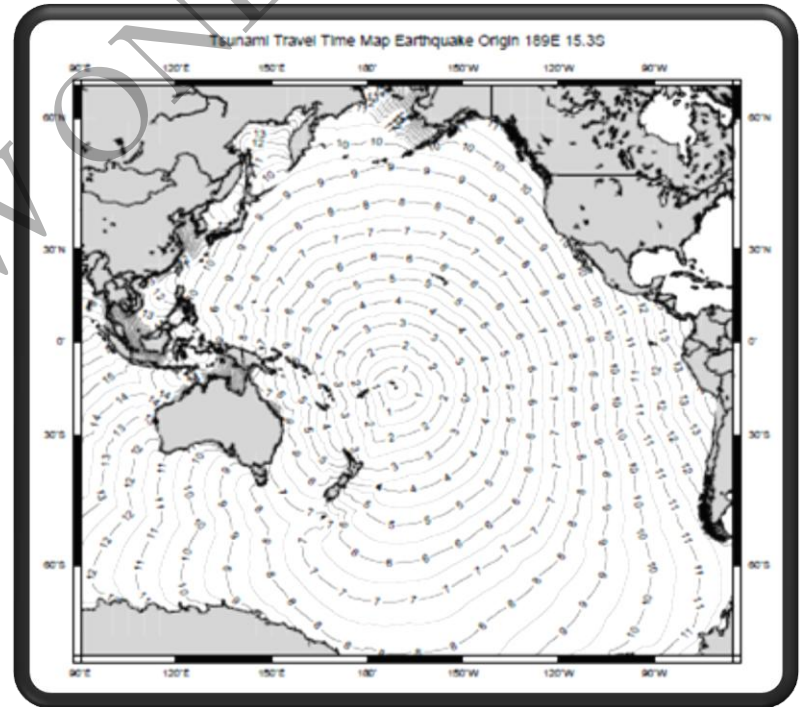


Dam and Levee Breach Hazard

Tsunami Inundation and Travel Times



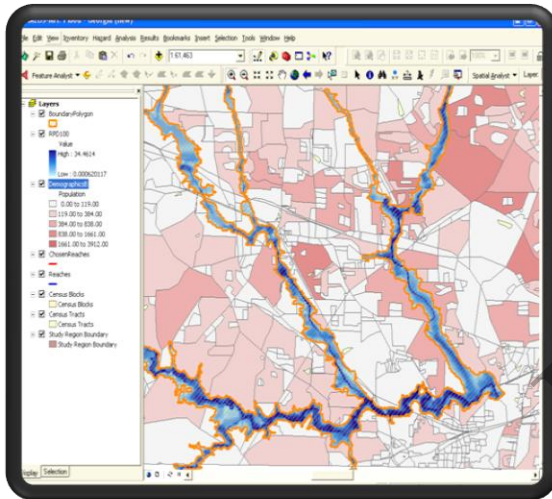
MOST Model



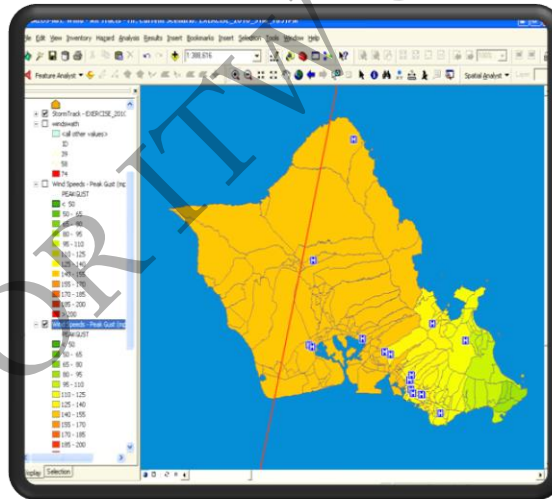
Tsunami Travel Times (TTT)

HAZUS-MH (Hazard US - Multi Hazard)

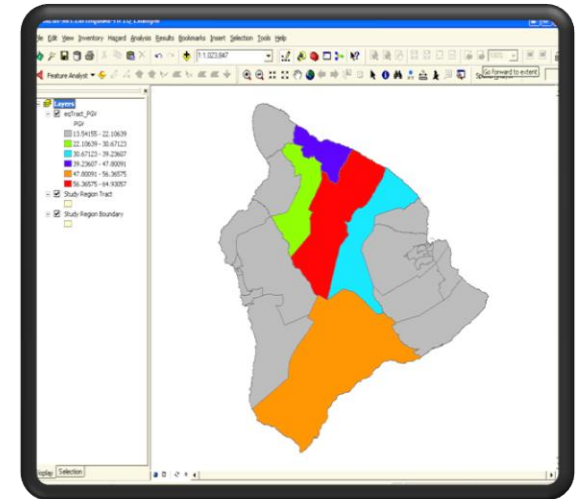
- Damage and Loss Estimations



Riverine/Coastal
Floodings



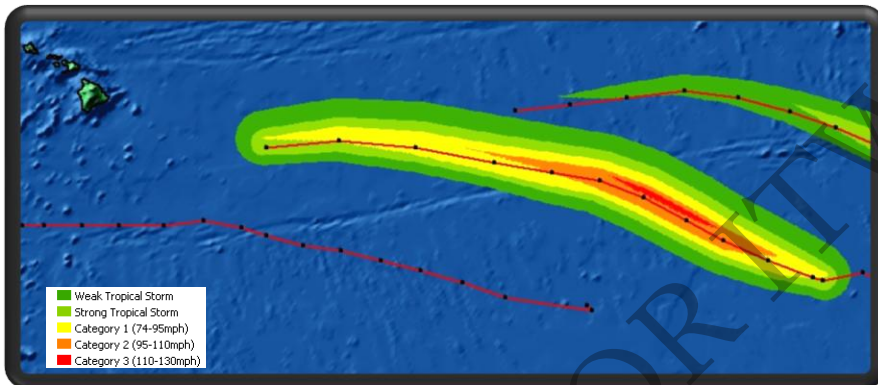
Hurricanes



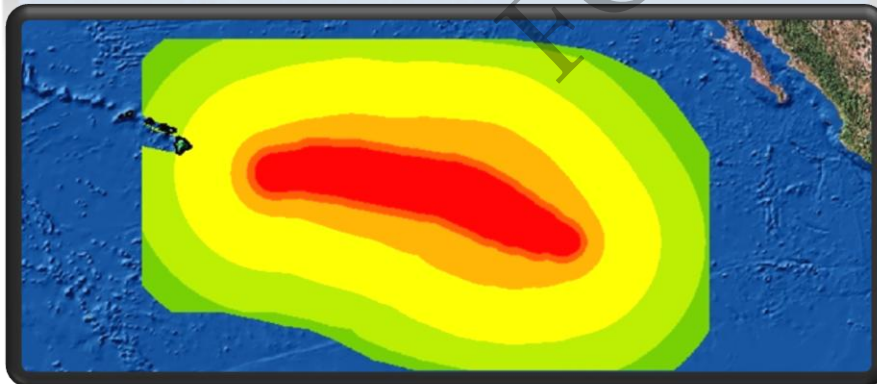
Earthquakes

TAOS (The Arbiter of Storms)

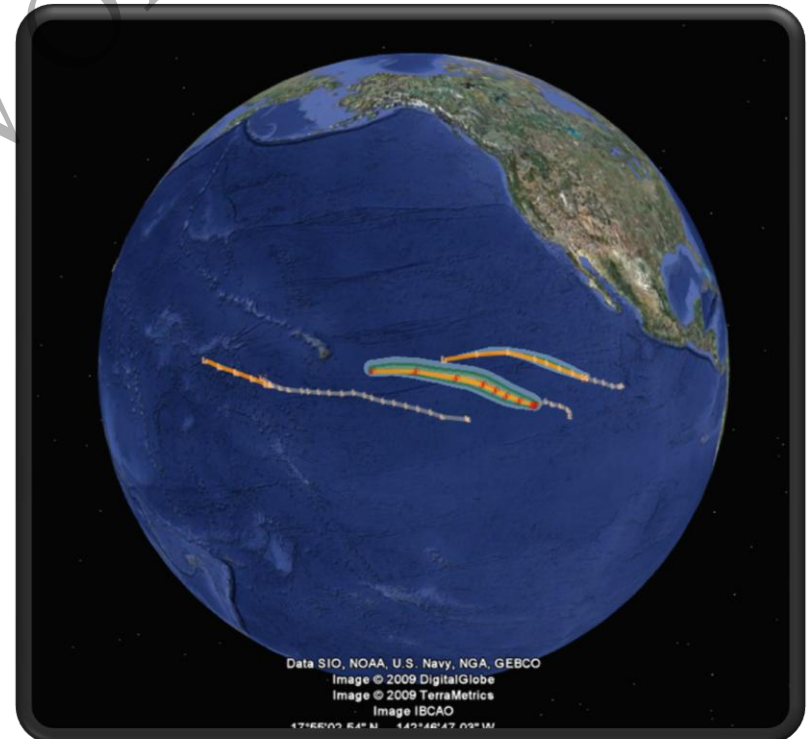
- Global and 24hr/7days a week coverage



Typhoon Wind Strengths



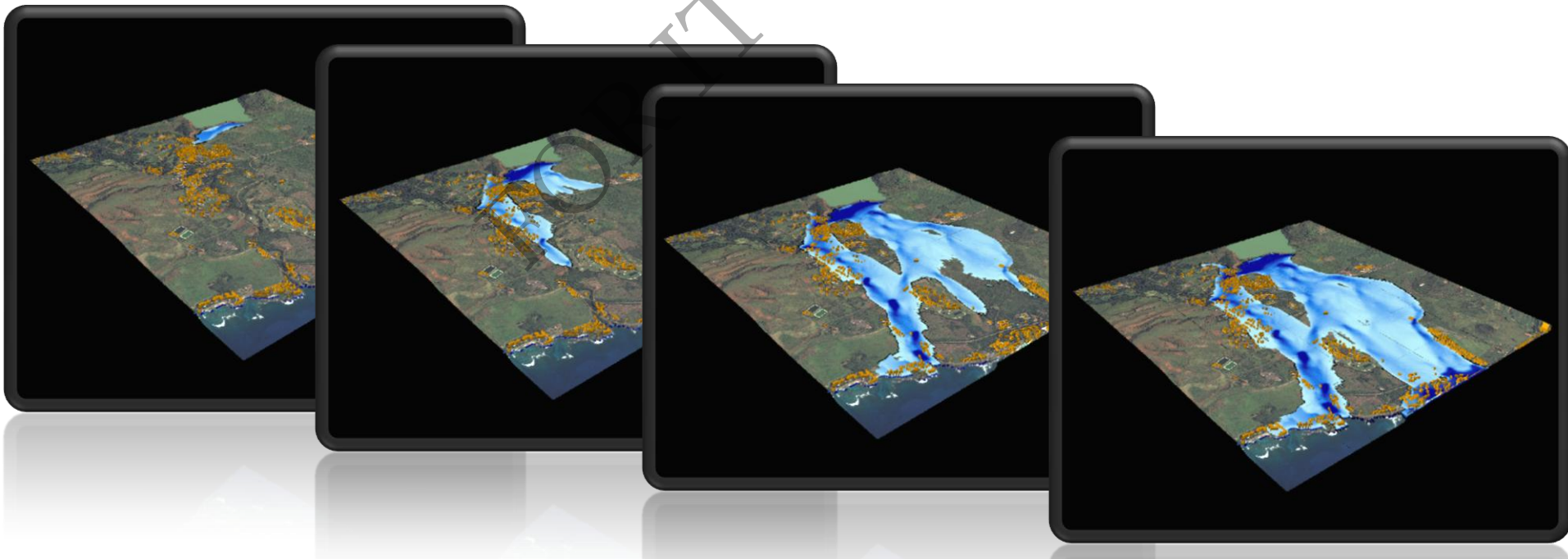
Wave Heights



Global Coverage

Visualizations

- Animations - Representation of the inundation Progress over time – rather than a static point in time



Thank you.



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