NOAA Ocean Prediction Center Unified Forecast System
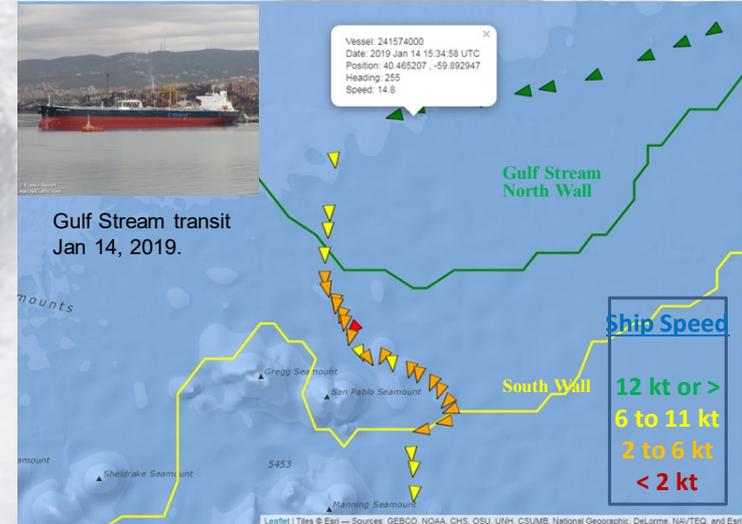
- **Involvement**

  - **Review model performance**
    - **ocean storms**

- **Needs**

  - **Standardized verification (E-T cyclones, warning criteria winds)**
  - **Storm scale nested**
  - **Coupled ocean, atmosphere, waves, ice**
    - **Explosive intensification**
    - **Wind/Wave/Current Interactions (Gulf Stream)**
    - **Ice prediction capability**

Gulf Stream transit Jan 14, 2019.

Vessel: 241574000
Date: 2019 Jan 14 15:34:58 UTC
Position: 40.465207 ; -59.892947
Heading: 255
Speed: 14.8

Gulf Stream North Wall

South Wall

Ship Speed

12 kt or >
6 to 11 kt
2 to 6 kt
< 2 kt

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