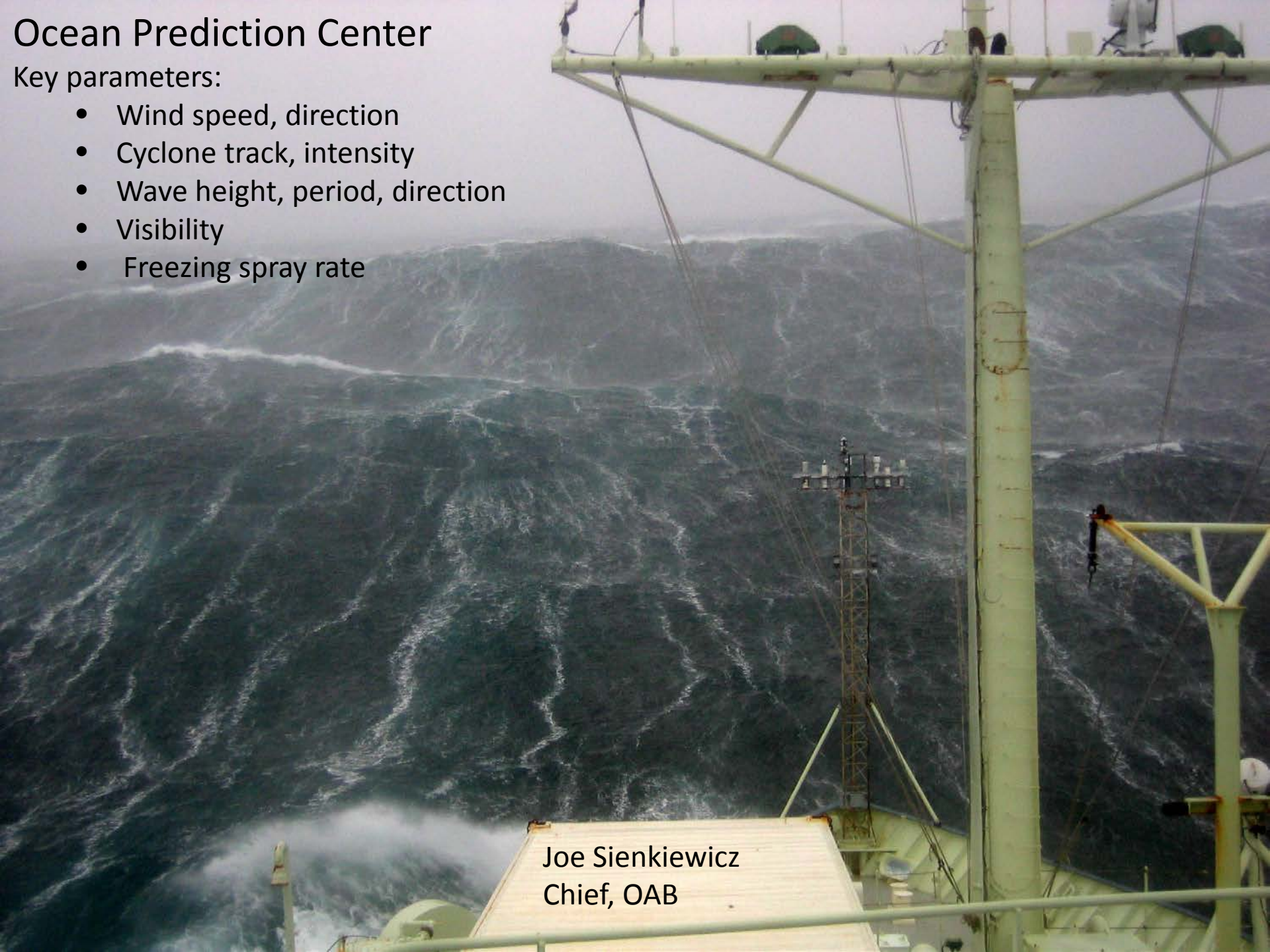


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Key parameters:

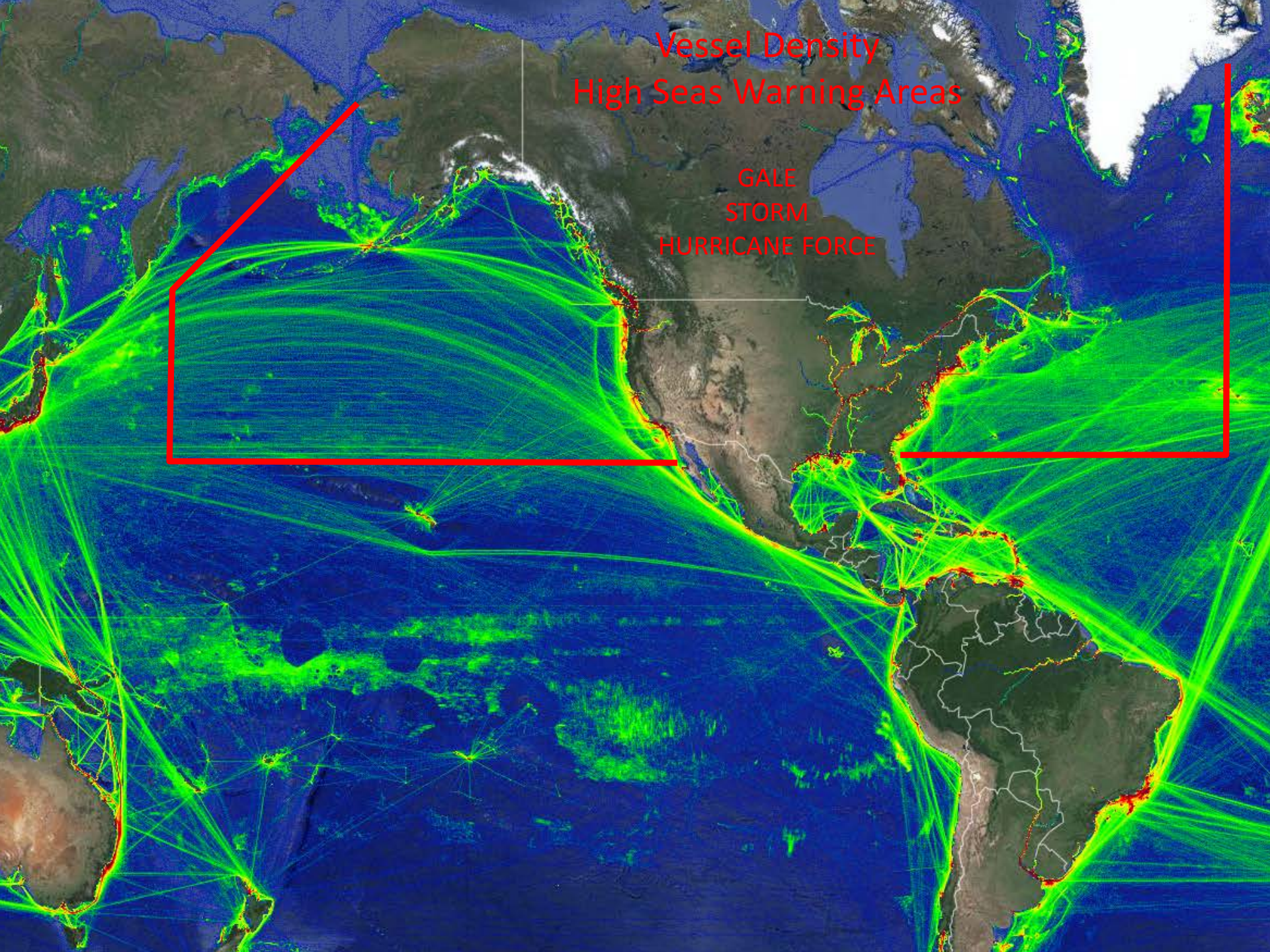
- Wind speed, direction
- Cyclone track, intensity
- Wave height, period, direction
- Visibility
- Freezing spray rate



Joe Sienkiewicz
Chief, OAB

Vessel Density
High Seas Warning Areas

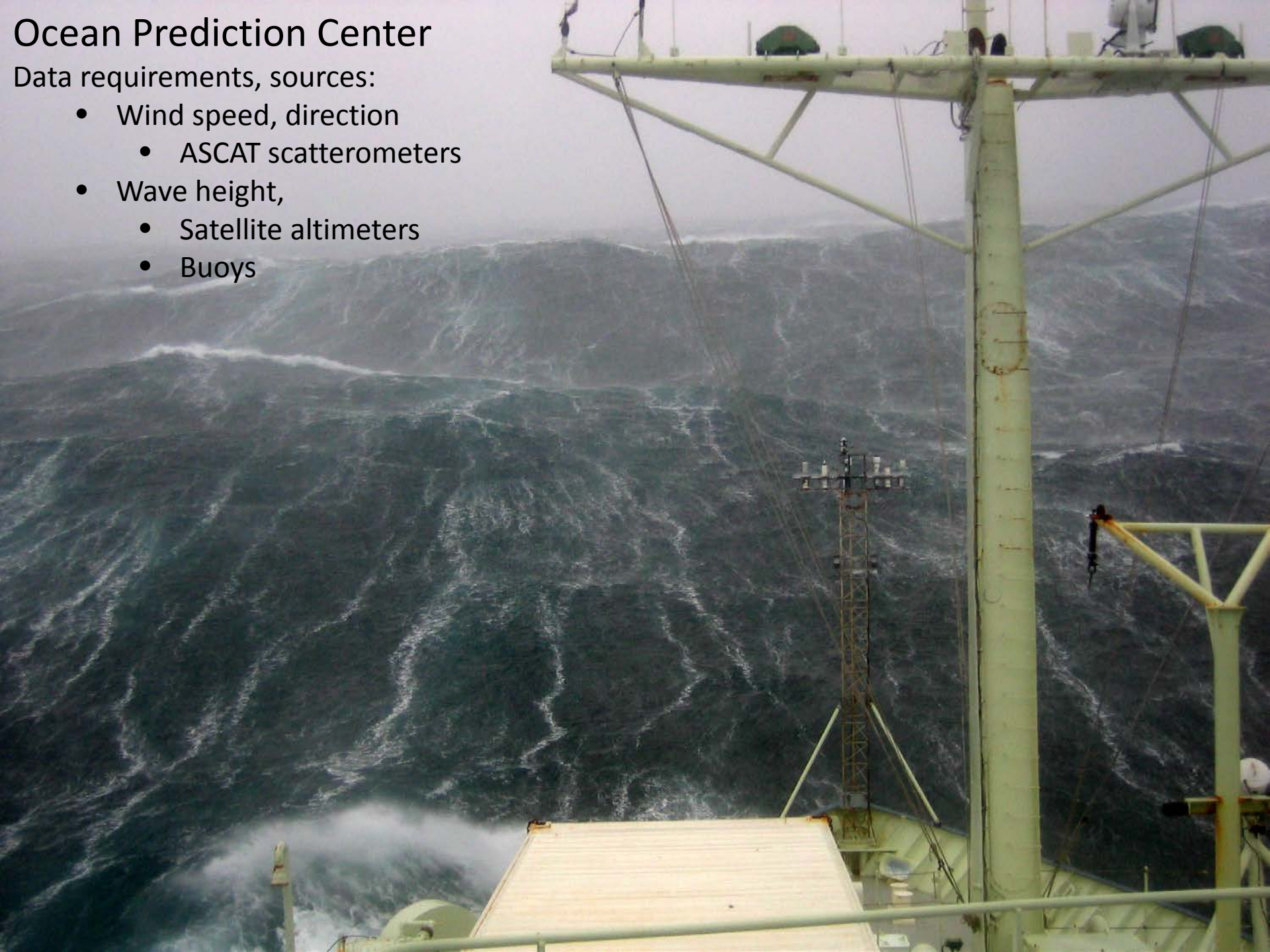
GALE
STORM
HURRICANE FORCE



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Data requirements, sources:

- Wind speed, direction
 - ASCAT scatterometers
- Wave height,
 - Satellite altimeters
 - Buoys



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Model focus areas for improvement:

- Cyclone track, intensity, structure
- 10m wind speed, direction, gusts
- PBL

- Extreme Forecast Index
- Improved skill days 4-10 for cyclones

