

OROWSHI : Offshore wind turbine design : Towards new standards for the design of offshore wind turbines exposed to tropical cyclones

Webinar, February 3, 2026



With the financial support of:



OROWSHI2 : project organization

WP1 Project management

WP2
Observations collection platform
Automatic model validation

WP3 : Wind
Parametric modeling with Orographic
effects, other wind param

WP4 : Wave
Fast modeling tools improvements
Incl. Bathymetric effects

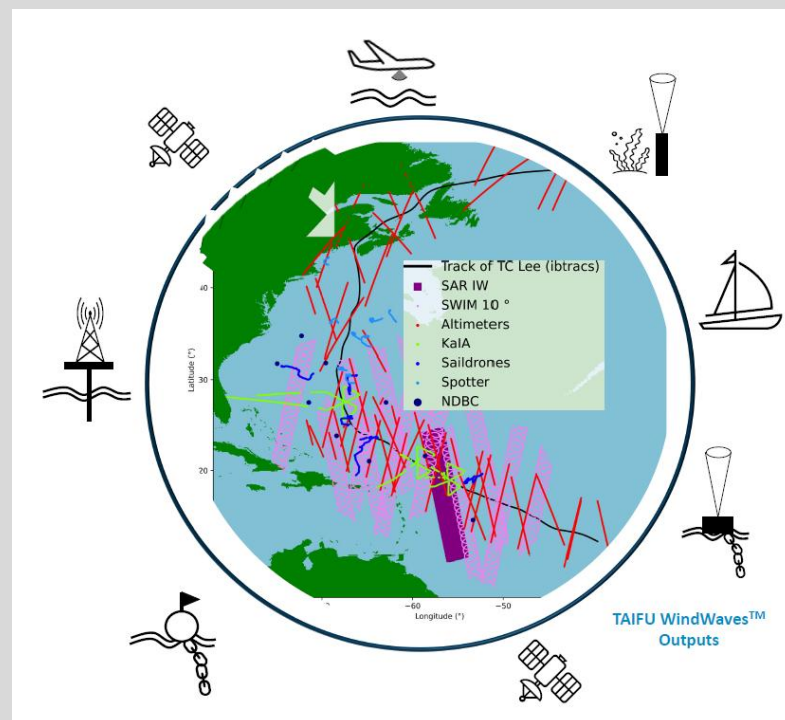
WP5 : uncertainties
Using Storm parameter
generators

WP6 : Software development
Upgrade of TAIFU WindWaves

WP7 : scientific dissemination
Lead of an IEA WIND task
Implementation in standards doc

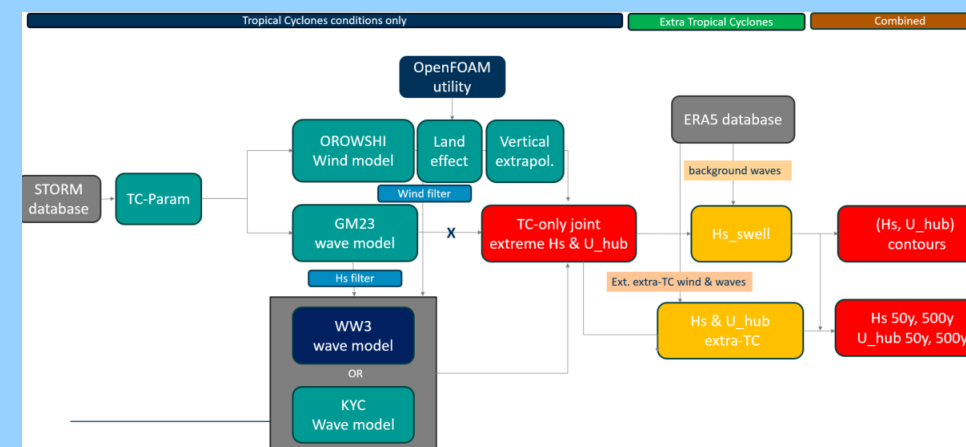
Automatic collection observations & model validation platform :

- Able to compute automatically the performance of a wave model on a given area, using the best observational dataset available



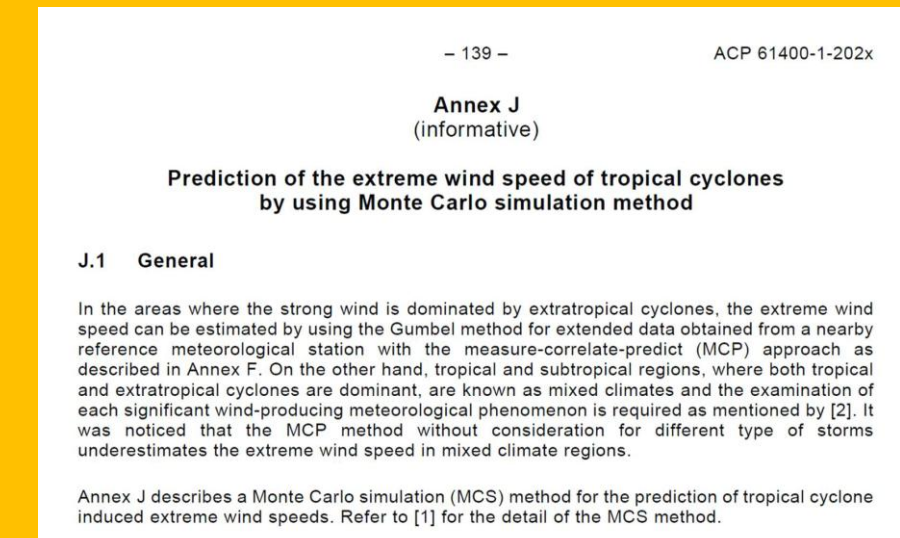
Enhanced Taifu Wind&Waves software to compute joint wind and wave extreme stats under Tropical cyclones

- Incorporating new capabilities in terms of orographic and bathymetric effects on wind and waves



Recommendations to be used by the industry in the design of OWT

- Through implementation in certifications document (e.g. IEC)
- Implementation in country-specific document
- Potential IEA Wind Task on this topic



OROWSHI : next phase : to be launch in October 2026

How to join?

Contact : jean.francois.filipot@france-energies-marines.org

Thank you for your attention!

And a big thank to :

- *Will Hodder (EDF Power Solution)*
- *Nicolas Raillard (Ifremer)*
- *Paul Renaud (FEM)*
- *Melusine Gaillard (FEM)*

And the other OROWSHI partners :



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