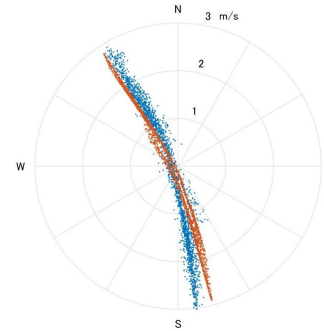


# Analysis and simulation of tidal currents for estimating tidal energy resource and forecasting red tide generation and transport patterns

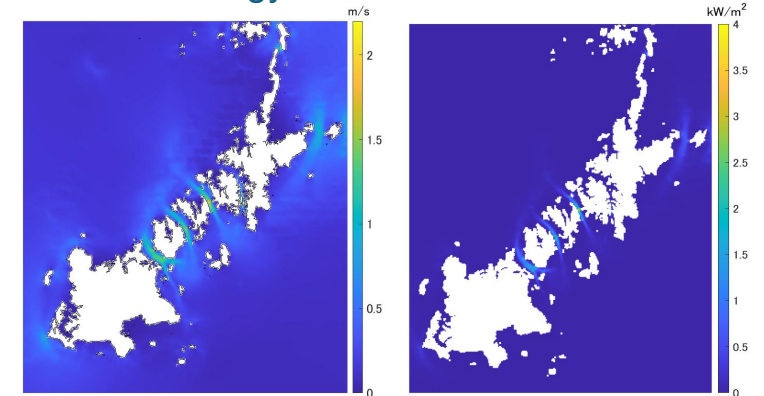
- Identification of sites where the operability of smartbuoys powered by tidal current energy is feasible, through field data analysis and numerical modeling of tidal currents.
- Forecast of red tide generation through the combination of a tidal current model and a biochemical model.
- Forecast of red tide transport patterns through the combination of a tidal current model and a particle tracking model.

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Data analysis for validation of tidal current numerical models



Numerical simulation of tidal currents for tidal energy resource assessment



Estimation of particle transport patterns based on ocean numerical model results

