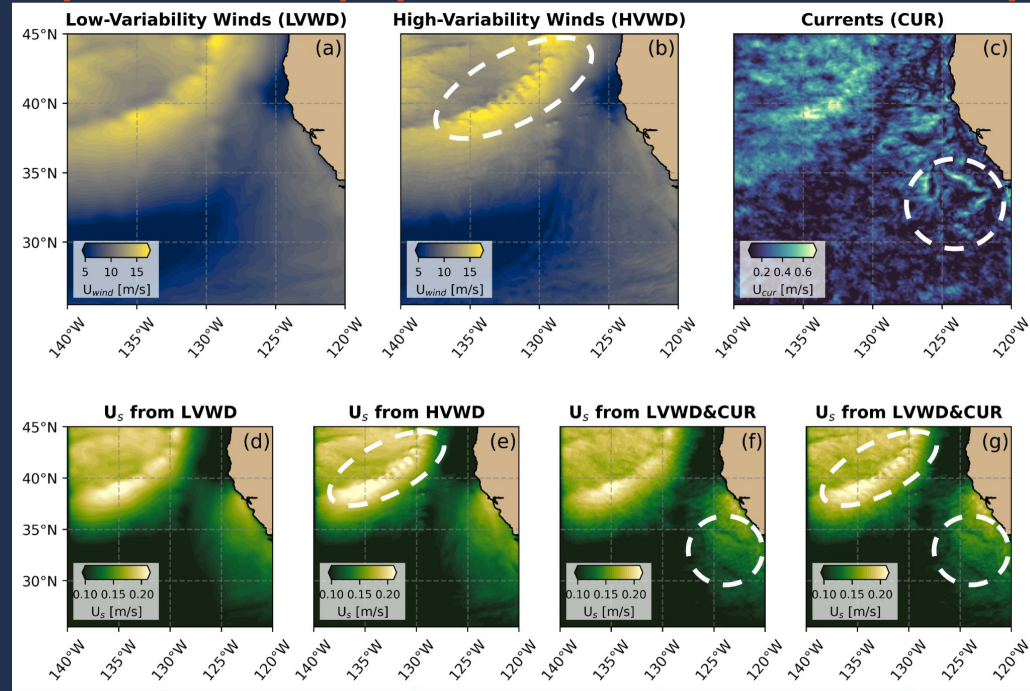


What Drives the Spatial Variability of the Stokes Drift?

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Variability $\mathcal{O}(1,000\text{ km})$

Variability down to $\mathcal{O}(10\text{ km})$



Operational standard—only captures large-scale variability driven by the wind

High wavenumber wind variability imprints on the Stokes drift

Currents introduce "patchiness" and coherent features that are independent of the local wind

High wavenumber wind features and current-driven coherent features and patchiness

