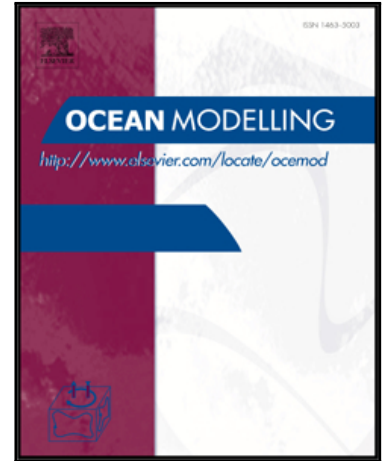


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Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales?



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Highlights

- Tangible benefits from increasing ocean resolution towards mesoscale eddy resolving
- Ocean mesoscale variability in boundary current regions impacts the atmosphere
- Coupled feedbacks are important in western boundary current dynamics
- Sub-gridscale parameterisations remain important for all resolutions
- Future research priorities are identified

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