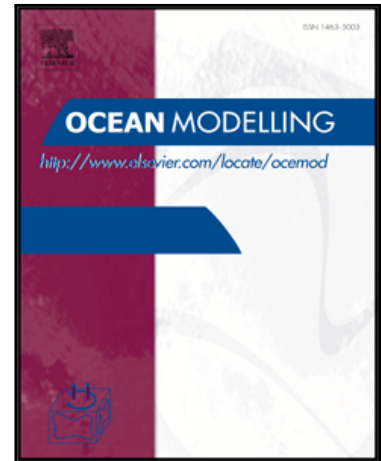


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Efficient computation of past global ocean circulation patterns using continuation in paleobathymetry

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1 **Highlights**

- 2 • A homotopy deformation based continuation in bathymetry is proposed.
- 3 • Several major transitions over the last 65 Ma are efficiently modelled.
- 4 • The method is demonstrated to be a valid alternative to Newton-Krylov spin-ups.

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