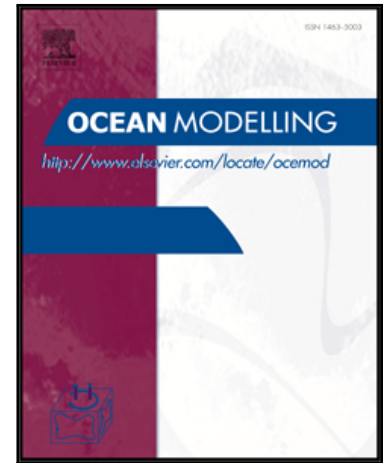


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Ensemble Data Assimilation for Ocean Biogeochemical State and Parameter Estimation at Different Sites

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Highlights

- Efficient data assimilation for state-parameter estimation is used.
- Nutrients, oxygen and $p\text{CO}_2$ data are used to constrain the BGC model.
- Compared to other 3 DA schemes, OSA-EnKF is found the most accurate and reliable.
- OSA-EnKF successfully recovers the observed seasonal variability at 3 different sites.
- Parameters estimates at different latitudes could be different.

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