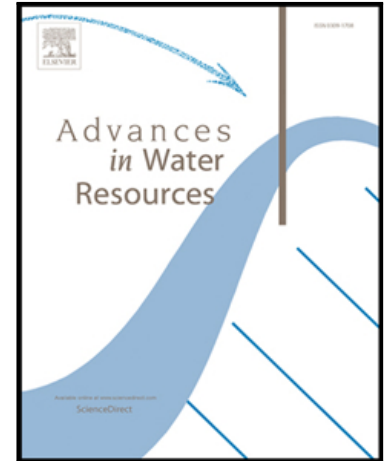


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On the representation of subsea aquitards in models of offshore fresh groundwater

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## Highlights

- Available analytical solutions overestimate offshore fresh groundwater (OFG) extent
- Assuming offshore aquitards contain freshwater improves the prediction of OFG
- Offshore interface tip is sensitive to aquitard salinity, whereas the toe is not.
- Novel parameterization of the GHB package for OFG prediction is presented
- A critical Rayleigh number ( $= 2$ ) identifies the interface location in the aquitard

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