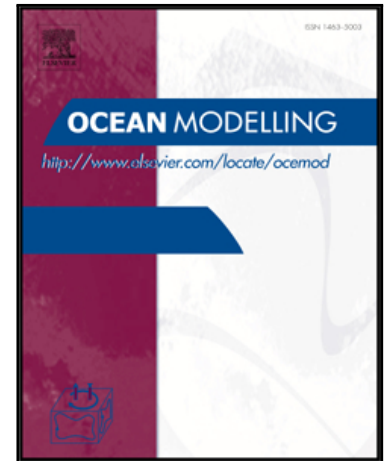


## Accepted Manuscript

Wave-current interactions in the southern North Sea: the impact on salinity

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PII: S1463-5003(17)30009-4  
DOI: [10.1016/j.ocemod.2017.01.003](https://doi.org/10.1016/j.ocemod.2017.01.003)  
Reference: OCEMOD 1169



To appear in: *Ocean Modelling*

Received date: 27 July 2015  
Revised date: 20 January 2017  
Accepted date: 21 January 2017

Please cite this article as: Julia Schloen, Emil V. Stanev, Sebastian Grashorn, Wave-current interactions in the southern North Sea: the impact on salinity, *Ocean Modelling* (2017), doi: [10.1016/j.ocemod.2017.01.003](https://doi.org/10.1016/j.ocemod.2017.01.003)

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**Highlights**

- Density distribution tends to weaken the tidally-driven circulation.
- Wind waves generate intense longshore currents.
- Coupled effects are largest in the narrow straits and inlets.
- The interplay between wind waves and currents affects ocean salinity.
- Mixing created by wind waves tends to weaken the estuarine circulation.

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