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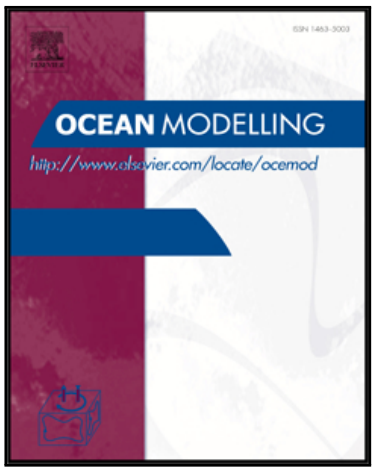

Mean circulation of the Mid-Atlantic Bight from a climatological data assimilative model

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PII: S1463-5003(18)30177-X
DOI: 10.1016/j.ocemod.2018.05.003
Reference: OCEMOD 1309

To appear in: *Ocean Modelling*

Received date: 19 December 2017
Revised date: 10 April 2018
Accepted date: 15 May 2018

Please cite this article as: Julia Levin , John Wilkin , Naomi Fleming , Javier Zavala-Garay , Mean circulation of the Mid-Atlantic Bight from a climatological data assimilative model, *Ocean Modelling* (2018), doi: 10.1016/j.ocemod.2018.05.003

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Highlights

- Data assimilation gives 3-D mean coastal ocean circulation in dynamic and kinematic balance that matches climatology.
- Mean Dynamic Topography, with coastal altimeter sea level anomaly, gives total water level above datum.
- Mid-Atlantic Bight along-shelf sea level slope is uniform inside the 50-m isobath with magnitude ~ 0.5×10^{-7}.
- Across-shelf circulation locally conserves volume in the north, but exports outer shelf water in the south.

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