



Due to technical problems, there is a delay in posting the full text version of articles. We hope to have this resolved soon.
In the meantime please see the PDF version of articles.

Abstract View

[Volume 2, Issue 1 \(January 1972\)](#)

Journal of Physical Oceanography

Article: pp. 34–40 | [Abstract](#) | [PDF \(445K\)](#)

The Transverse Circulation Near a Coast

Steven L. Blumsack

Dept. of Mathematics and Geophysical Fluid Dynamics Institute, Florida State University, Tallahassee 32306

(Manuscript received July 1, 1971, in final form September 3, 1971)

DOI: 10.1175/1520-0485(1972)002<0034:TTCNAC>2.0.CO;2

ABSTRACT

The structure of the steady transverse circulation of a rotating stratified fluid on an f plane is analyzed in two stages. First, a length scale analysis is performed, giving the relationships between the vertical and horizontal length scales. Then an idealized problem in which there is an offshore Ekman transport near a coast is solved, giving the detailed structure of the transverse circulation. Boundary layer structures which decay algebraically are found from the formal solution.

Options:

- [Create Reference](#)
- [Email this Article](#)
- [Add to MyArchive](#)
- [Search AMS Glossary](#)

Search CrossRef for:

- [Articles Citing This Article](#)

Search Google Scholar for:

- [Steven L. Blumsack](#)

top ▲



© 2009 American Meteorological Society [Privacy Policy and Disclaimer](#)

Headquarters: 45 Beacon Street Boston, MA 02108-3693

DC Office: 1120 G Street, NW, Suite 800 Washington DC, 20005-3826

amsinfo@ametsoc.org Phone: 617-227-2425 Fax: 617-742-8718

[Allen Press, Inc.](#) assists in the online publication of AMS journals.