



Abstract View

[Volume 1, Issue 1 \(January 1971\)](#)

Journal of Physical Oceanography

Article: pp. 7–11 | [Abstract](#) | [PDF \(287K\)](#)

A Simple Model of the Thermocline in a Bounded Ocean

Victor Barcilon

Institute of Geophysics and Planetary Physics and Department of Mathematics, University of California, Los Angeles

(Manuscript received May 4, 1970)

DOI: 10.1175/1520-0485(1971)001<0007:ASMOTT>2.0.CO;2

ABSTRACT

A linear model of the thermocline is examined for an ocean bounded by both eastern and western coasts. The analysis is carried out on a β -plane for an ocean in which diffusion of heat but not of momentum is important. Particular attention is devoted to the structure of the thermocline in the vicinity of the western coast along which a boundary layer exists. A unique feature of the present thermocline is the absence of any vertical velocity below the thermocline.

Options:

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

Search CrossRef for:

- [Articles Citing This Article](#)

Search Google Scholar for:

- [Victor Barcilon](#)

top ▲



© 2008 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.