



Abstract View

[Volume 13, Issue 10 \(October 1983\)](#)

Journal of Physical Oceanography

Article: pp. 1829–1835 | [Abstract](#) | [PDF \(525K\)](#)

Richardson Number Profiles over the Continental Shelf

Ian S.F. Jones

RAN Research Laboratory, Darlinghurst, NSW 2010, Australia

(Manuscript received September 20, 1982, in final form May 23, 1983)

DOI: 10.1175/1520-0485(1983)013<1829:RNPOTC>2.0.CO;2

ABSTRACT

The seasonal mid-water thermocline over the continental shelf has been examined with the aid of an oceanographic Richardson Number Probe. The overall Richardson number of this stable layer was found to be 0.9 but within the thermocline, regions of low gradient Richardson number were observed. The shape of the conditionally averaged density profile was compared with laboratory experiments and used to aid speculation on the direction of entrainment during this experiment. The low value of the gradient Richardson number in the upper portions of the thermocline supported the interpretation of entrainment from above.

Options:

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

Search CrossRef for:

- [Articles Citing This Article](#)

Search Google Scholar for:

- [Ian S.F. Jones](#)

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.