

Author's Accepted Manuscript

Temporal analysis of water masses and sea ice formation rate west of the Antarctic Peninsula in 2008 estimated from southern elephant seals' SRDL–CTD data

Marcelo F. Santini, Ronald B. Souza, Ilana Wainer, Mônica M. Muelbert



www.elsevier.com/locate/dsr2

PII: S0967-0645(17)30227-8
DOI: <https://doi.org/10.1016/j.dsr2.2018.02.013>
Reference: DSRII4410

To appear in: *Deep-Sea Research Part II*

Received date: 12 June 2017
Revised date: 21 February 2018
Accepted date: 24 February 2018

Cite this article as: Marcelo F. Santini, Ronald B. Souza, Ilana Wainer and Mônica M. Muelbert, Temporal analysis of water masses and sea ice formation rate west of the Antarctic Peninsula in 2008 estimated from southern elephant seals' SRDL–CTD data, *Deep-Sea Research Part II*, <https://doi.org/10.1016/j.dsr2.2018.02.013>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Temporal analysis of water masses and sea ice formation rate west of the Antarctic Peninsula in 2008 estimated from southern elephant seals' SRDL–CTD data

Marcelo F. Santini¹, Ronald B. Souza², Ilana Wainer³, Mônica M. Muelbert⁴

¹ Divisão de Sensoriamento Remoto, Instituto Nacional de Pesquisas Espaciais (DSR–INPE), São José dos Campos, SP, Brazil.

² Centro Regional Sul de Pesquisas Espaciais, Instituto Nacional de Pesquisas Espaciais (CRS–INPE), Santa Maria, RS, Brazil.

³ Departamento de Oceanografia Física, Instituto Oceanográfico, Universidade de São Paulo (IOUSP), São Paulo, SP, Brazil.

⁴ Instituto de Oceanografia, Universidade Federal do Rio Grande (IO–FURG), Rio Grande, RS, Brazil.

*Corresponding author:

Address: Instituto Nacional de Pesquisas Espaciais – INPE, Avenida dos Astronautas, 1758, São José dos Campos, SP, Brazil, 12227–010.

E–mail: marcelo.santini@inpe.br

Phone number: +55 12 3208–6434

Running title: Water masses and sea ice formation rate west of the Antarctic Peninsula

Submitted to Deep Sea Research II – Special Issue: Oceanographic processes and biological responses around Northern Antarctic Peninsula (NAP): a 15–year contribution of the Brazilian High Latitudes Oceanographic Group

Abstract

As an alternative method to collect oceanographic data in the polar oceans, especially during winter when traditional methods are very difficult to be used, sea mammals can be tagged with Satellite Relay Data Loggers with CTD capabilities (SRDL–CTD). Using data from nine southern elephant seals (SES; *Mirounga leonina*) tagged during a field campaign of the MEOP–BR project (the Brazilian Counterpart to the Marine Mammal Exploration of the Oceans Pole to Pole), this work presents a temporal analysis of the water masses and the sea ice formation rate at the western part

Download English Version:

<https://daneshyari.com/en/article/8884400>

Download Persian Version:

<https://daneshyari.com/article/8884400>

[Daneshyari.com](https://daneshyari.com)