

A Cruise Report: SR01

A.1 Cruise Narrative

A.1.1 Highlights

WOCE Line **SR01**
Expocode **20VDSR0198_1**
Chief Scientist: Juan Andueza C .
Servicio Hidrográfico y Oceanográfico de la Armada (SHOA).
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Ship AGOR60 - Vidal Gormaz.
Ports of call Punta Arenas, Chile
Cruise Dates November 26-December 15, 1998

A.1.2 Cruise Summary

Cruise Track

The cruise track and station locations are shown in figure 1.

Number of stations

A total of 15 hydrographic stations were performed using a CTD sealogger 25.

Sampling:

continuous profiles of temperature and salinity were made using a CTD.

Floats, Drifters, and Moorings:

(None)

A.1.3 List of principal Investigators

NAME	RESPONSABILITY	INSTITUTION
E.C. Sr Juan Andueza	Chief Scientist	SHOA
E a C. Srta. Jenny Maturana	Chief of watch 1,computer operator	SHOA
E a C. Srta. Carolina Calvete	Chief of watch 2,computer operator	SHOA

A.1.4 Scientific Programme and methods

The principal objectives of the cruise were:

To collect necessary information to increase the scientific knowledge of the dynamic of the Antarctic Circumpolar Current at Drake Passage in order to contribute to international WOCE program.

Preliminary Results

A.1.5 Major Problems Encountered on the Cruise

The major problem was the Pylon malfunction due to the breaking of a pin connector of the CTD-19. This CTD was replaced by the CTD-25 working just in the self-contained mode.

A.1.6 Other Observations of Note

(none)

A.1.7 List Of Cruise Participants

NAME	RESPONSIBILITY	INSTITUTION
E. C. Juan Andueza C.	Chief Scientist	SHOA
E.C. Srta. Jenny Maturana A.	Chief of watch 1, computer operator	SHOA
E a C. Srta. Carolina Calvete	Chief of watch 2, computer operator	SHOA
S1° M. Placencia	Winch operator, XBT launcher	SHOA
S2° E. Ferrada	CTD maneuver	SHOA
S2° J. Caro	CTD assistant	SHOA
S2° J. Freire	CTD assistant	SHOA
M. S. N. Orellana	CTD assistant	SHOA

A.2 Underway Measurements

A.2.1 Navigation
(Not available)

A.2.2 Echosounding
(Not available)

A.2.3 Acoustic Doppler Current Profiler (ADCP)
(None)

A.2.4 Thermosalinograph Measurements
(None)

A.2.5 XBTs
A total of 15 XBT launches (T7) were performed.

A.2.6 Meteorological Measurements
Meteorological data measured were wind speed and direction, air temperature, atmospheric pressure.

A.3 Hydrographic Measurement Techniques and Calibration

A.3.1 Sample Salinity Measurements
(Not sampled)

A.3.2 Sample Oxygen Measurements
(Not sampled)

A.3.3 Nutrients
(Not sampled)

A.3.4 CFC
(Not sampled)

A.3.5 Samples taken for other chemical measurements
(None)

A.3.6 CTD Measurements
The instrument used was a CTD Sealogger-25, used in the self-contained mode

A.3.7 CTD Data collection and processing

Processing

Step 1

1. Convert data from *.hex to *.cnv format using DATCNV program and *.con configuration file.
2. Deleting negatives velocities using the leewoce.bas program
3. Checking and cleaning the header files.
4. Computing the average down velocity value (X).
5. to apply the Aling CTD program to correct temperature and conductivity time response shift from the CTD sensors.

Step 2

To apply DATCNV program to average observed values meter by meter.

Step 3

To apply Winfilter program to filter data after step 2, using a flexible windows determined by the user.

A.3.8 Satellite image acquisition and processing

(None)

A.3.9 Shipboard computing

(None)

Note : All data from WOCE PR14 and SR1 cruises, have been passed to the National Oceanographic Data Center of Chile (CENDOC) for data management purposes and to be quality controlled according to normal WHPO procedures. Once finished they have been sent to the WOCE Hydrographic Program Office at the Scripps Institution of Oceanography for archival. For major information write to:

Ricardo Rojas
Chief of CENDOC
Casilla 324
Valparaiso
CHILE
e-mail rojas@shoa.cl

who can canalize your request to the appropriate decision channels. Do not write directly to Principal Investigators.

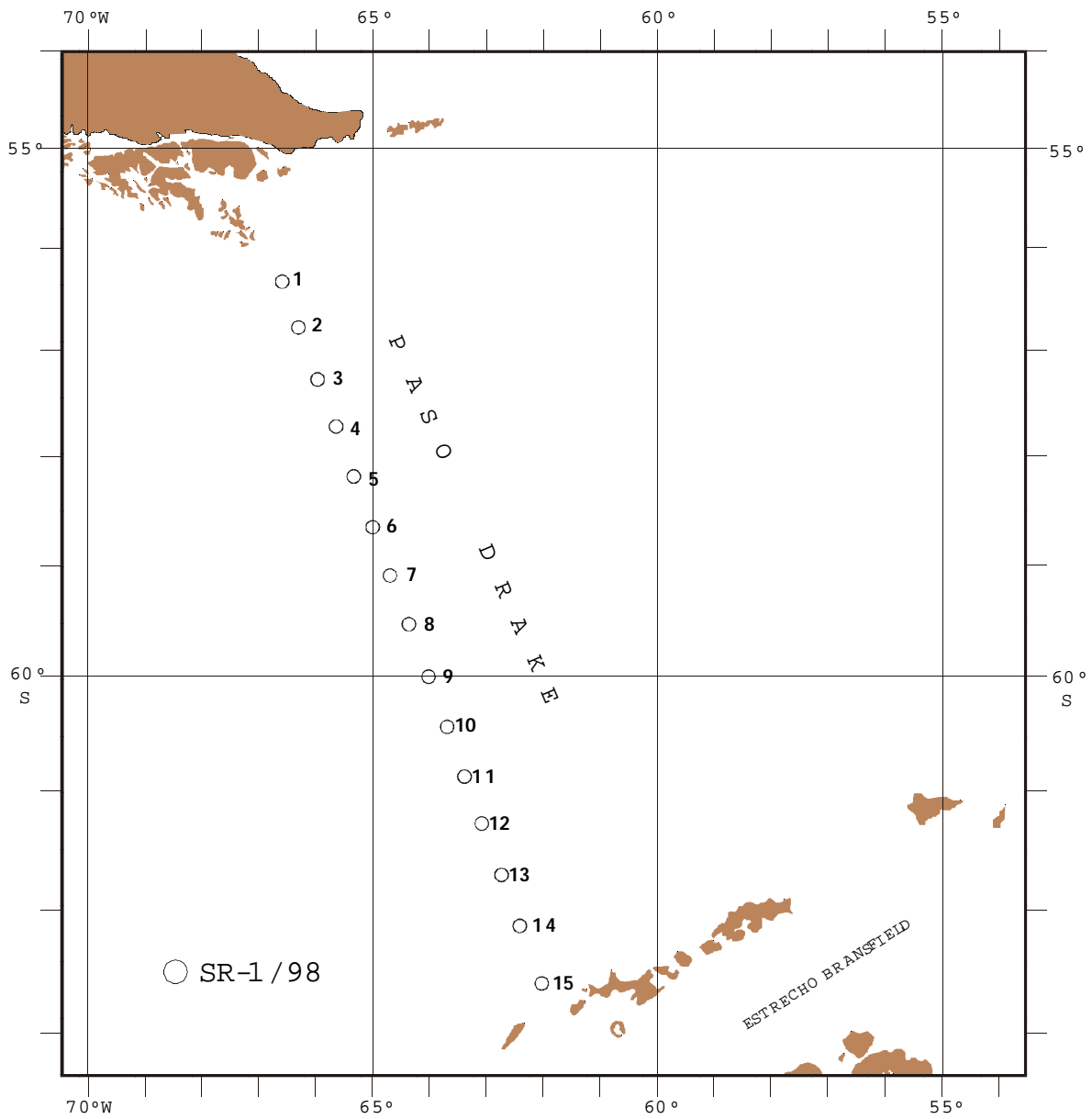


Figure 1. Position of stations during WOCE SR1 1998.