

A Cruise Report SR01

A.1 Cruise Narrative

A.1.1 Highlights

WOCE Line **SR01**
ExpoCode **20VDSR0193_1**
Chief Scientist **Capitán de Corbeta, Alejandro Cabezas Contreras.**
Servicio Hidrográfico y Oceanográfico de la Armada (SHOA).
Errázuriz 232, Playa Ancha.
Valparaíso, Chile.
Teléfono: 56-032-266666
Fax: 56-032-266542
Ship AGOR60 - Vidal Gormaz.
Port of call Punta Arenas, Chile
Cruise Dates November 02 to December 25 1993.

A.1.2 Cruise Summary

Cruise Track

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

Number of stations

A total of 17 hydrographic stations were performed using a CTD sealogger model 1064.

Sampling

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

Floats, Drifters, and Moorings

(None)

A.1.3 List of principal Investigators

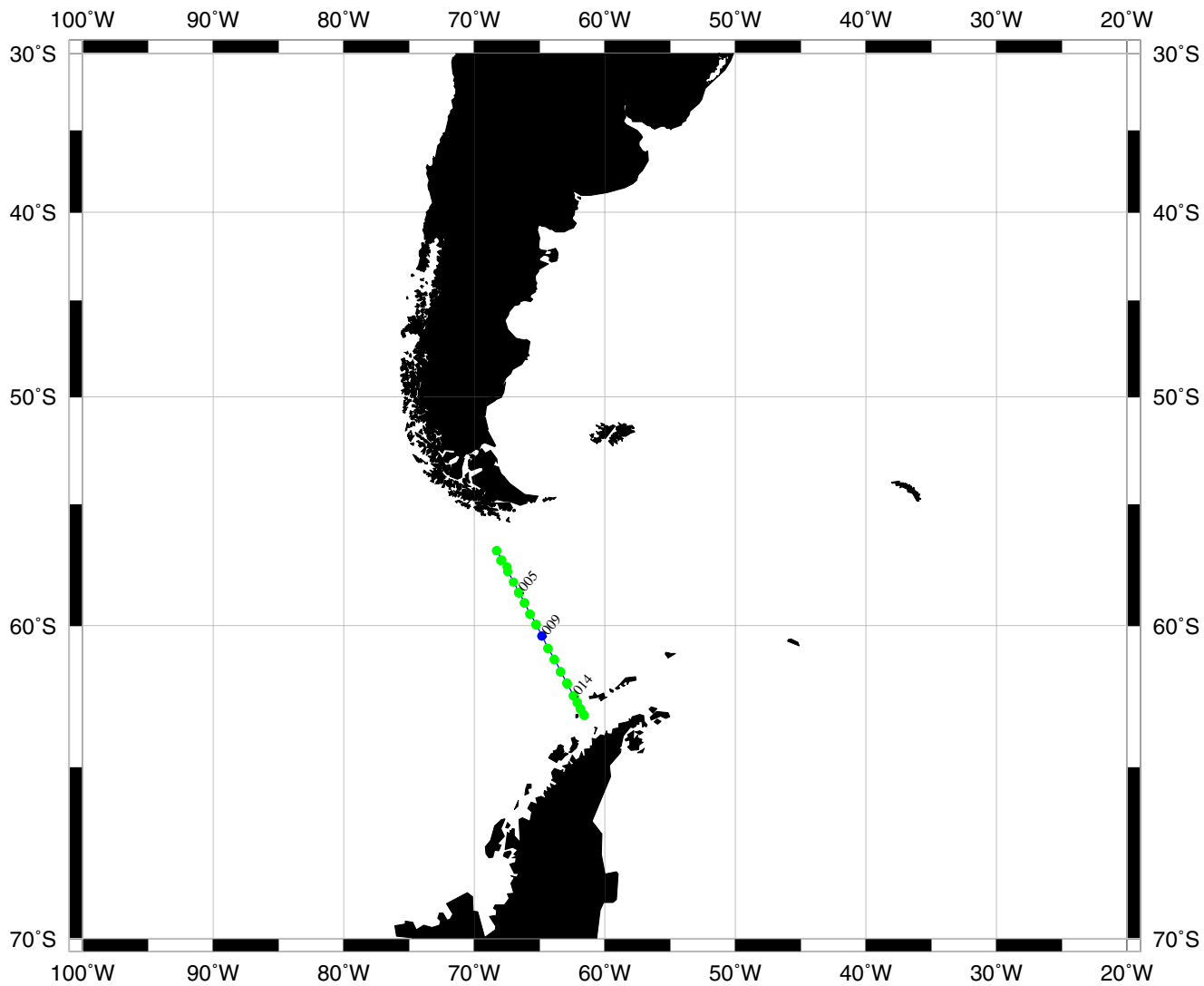
NAME	RESPONSIBILITY	INSTITUTION
CC. Sr. A. Cabezas C.	Chief Scientist.	SHOA

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.

Station locations for SR01 : CABEZAS



Produced from .sum file by WHPO-SIO

Preliminary Results

A.1.5 Major Problems Encountered on the Cruise

(None)

A.1.6 Other Observations of Note

(None)

A.1.7 List Of Cruise Participants

Name	Responsability	Institution
CC. Sr. A. Cabezas	Chief scientist	SHOA
EaC. Sra. K. Kaiser	Chief Watch 1, computer operator	SHOA
EaC. Sr. D. Gutierrez B.	Chief Watch 2, computer operator	SHOA
S1° Serv. (Oc Mc) M. Placencia	Winche operator, XBT launcher	SHOA
C1° Serv. (Db.C) J. Freire .	Encargado del pescante	SHOA
M° Serv. (Oc) P. Altamirano F.	Rosette maneuver oxigen analysis	SHOA
M° Serv. (Oc) M. Higuera M.	Rosette maneuver, water sampler	SHOA

A.2 Underway Measurements

A.2.1 Navigation:

(None available)

A.2.2 Echosounding:

(None available)

A.2.3 Acoustic Doppler Current Profiler (ADCP):

(None)

A.2.4 Thermosalinograph Measurements:

(None)

A.2.5 XBTs

A total of 16 XBT launches (T5 and 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 CTD used was a Sealogger-19 model 1064 bought by SHOA in 1992.

A.3.7 CTD Data collection and processing

Data registry:

DATE	STATION
11/17/1993	1,2,3,4,5,6,7
11/18/1993	8,9,10,11,12,13,14
11/19/1993	15,16,17

CTD SBE-19 model 1064

This instrument was bought in 1992 and it was lost during the cruise WOCE-SR1 1994, so sensors were not able to be recalibrated in the meantime to compute the shifting of the sensors.

Temperature:

A = 3.67532044E-03 slope= 1
B = 5.78042359E-04 offset= 0
C = 9.66296627E-06
D = -1.12827511E-06
F0 = 2335.580

Conductivity:

M = 2.6
A = 1.99268521E-03 slope= 1
B = 4.89685367E-01 offset= 0
C = -4.10744141E+00
D = 7.48601141E-04
E = -9.5700E-08

Pressure

A0 = 4980.989

A1 = -1.304659E+00

A2 = 7.124232E-08

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

- a) To apply DATCNV program to average observed values meter by meter.

Step 3

- a) 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. The data remain non-public access until new notification. However, specific authorisation will be forwarded to interested scientist if their goals do not overlap SHOA's goals. For major information write to:

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

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

Figure 1. Position of stations during WOCE SR01 1993.

