

A) Sample Cruise Report -.DOC Text File**A.1 Cruise Narrative****A.1.1 Highlights**

Expedition Designation: Crucero WOCE SR1, 1995

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Ship : AGOR60- Vidal Gormaz.

Ports of call: Punta Arenas, Chile.

Cruise Date: December 4-15, 1995

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 25.

Sampling: continuos 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
EaC. Sra. Wanda García	Chief of watch 1,computer operator.	SHOA
EaC. Sra. Ximena Jara	Chief of watch 1,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

- Major problems during the realisation of the cruise, were the continuous passing of weather fronts through the study area, making difficult the sampling and damaging the instruments.

A.1.6 Other Observations of Note

A.1.7 List Of Cruise Participants

Name	Responsability	Institution
EaC. Sra. Wanda García	Chief of watch 1, computer operator.	SHOA
EaC. Sra. Ximena Jara	Chief of watch 2, computer operator.	SHOA
Sargento Jara	Winche operator, XBT launcher	SHOA
Cabo Castro	Seabeam & CTD maneuver	SHOA
Cabo Bravo	CTD, XBT assistant	SHOA
Sargento Urzúa	XBT launcher	SHOA
Cabo Montecinos	Winche operator.	SHOA
Cabo Freire	CTD & XBT assistant	SHOA
Marinero Molina	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 22 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 CTD used was a Sealogger-19 model 1240 bought by SHOA in 1992, whose first calibration was made in 1995.

A.3.7 CTD Data collection and processing

Data Registry:

Date	STATION
12/05/1995	1, 2, 3
12/06/1995	4,5,6,7
12/07/1995	8,9,10, 11, 12
12/08/1995	13,14,15,16,17

CTD SBE-25

It was bought by SHOA in 1995 and it first calibration was made in 1997. Therefore, the calibration coefficients used were the ones from the 1995 with the slope and offset calculated from the lineal time drift.

Temperature:

G= 4.84362130E-03 slope= 1
 H= 6.77464130E-04 offset= 0.0036
 I= 2.72222137E-05
 D= 2.21258685E-06
 F0= 1000.000

Day	B	N	Post-delta(t)	b /n	Offset
5	160	773	-0.01746	0.2069857	0.0036

6	161	773	-0.01746	0.2082794	0.0036
7	162	773	-0.01746	0.2095730	0.0036
8	163	773	-0.01746	0.2108667	0.0036
9	164	773	-0.01746	0.2121604	0.0036

b: number of days between calibration and the day of CTD cast.

n: number of days between calibrations.

Post-delta (T): temperature-drift value according calibration certificate.

Conductivity:

M= 4.5

offset= 0

A= 7.19611919E-06

slope1= 0.999936

B= 5.41883750E-01

slope2= 0.999935

C= -4.14061857E+00

slope3= 0.999934

D= 1.34395405E-04

Cpcor=-9.57E-08

Day	B	N	B/N	(Pre-slope)-1	Slope
5	160	773	0.2069857	-0.000311	0.999936
6	161	773	0.2082794	-0.000311	0.999935
7	162	773	0.2095730	-0.000311	0.999935
8	163	773	0.2108667	-0.000311	0.999934
9	164	773	0.2121604	-0.000311	0.999934

Therefore, three *.con configuration files were created (SR1-95 A.con and SR1-95 C.con)

Pressure

A0= 5327.7010

A2= -4.139641E-09

A1= -1.379409E+00

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's 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 canalize your request to the appropriate decision channels. Do not write directly to Principal Investigators.

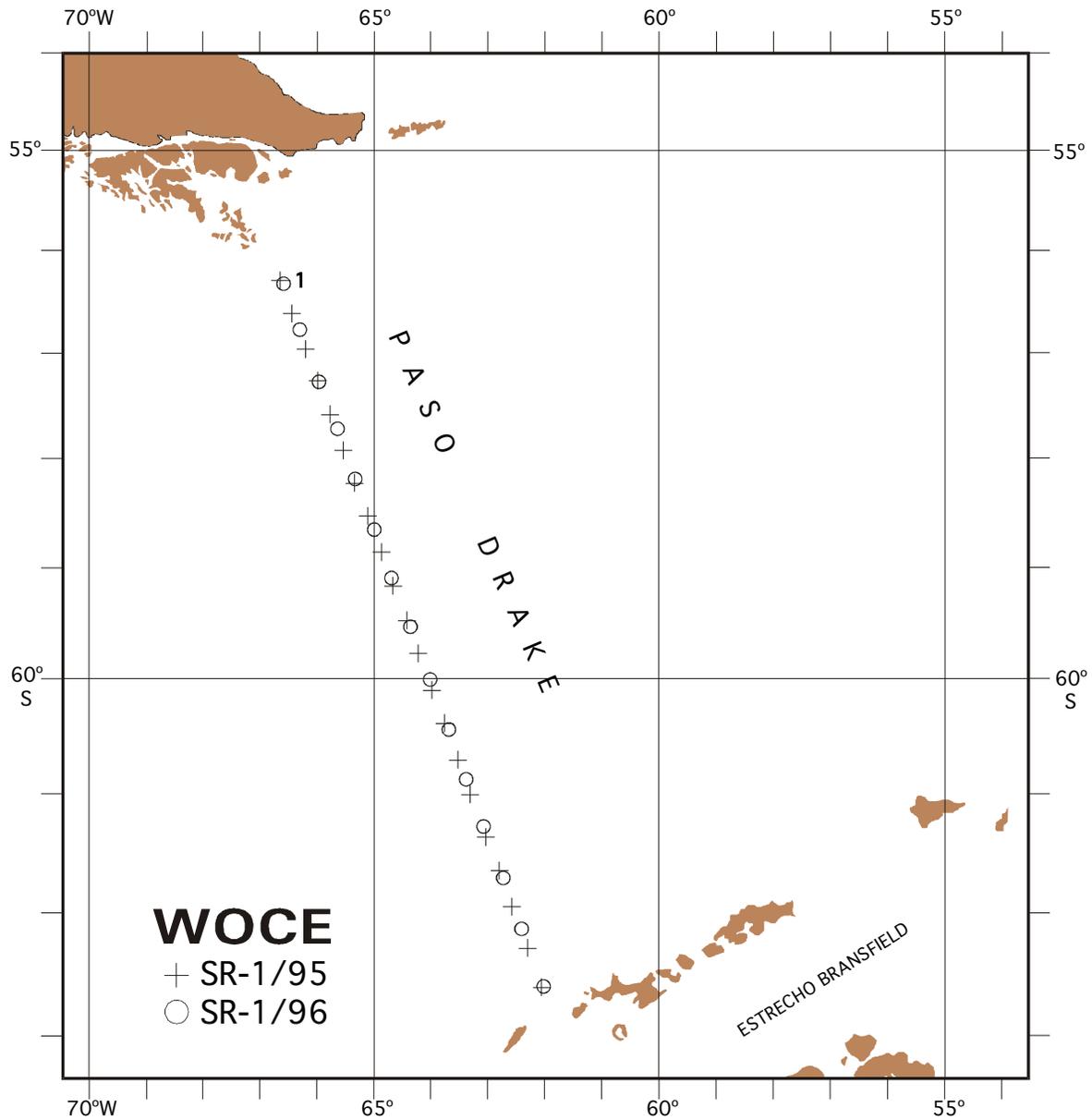


Figura 1.- Posición de estaciones oceanográficas durante Cruceros WOCE SR1-95 y 96.

Figure 1.- Position of stations during WOCE SR1-95 and 96.

Figure 1. Position of stations during WOCE SR1 1995.