A. Cruise Narrative

A.1 Highlights

WHP Cruise Summary Information

WOCE section designation PR04, PR02

Expedition designation (EXPOCODE) $49RY9306_1$

49RY9306_2 49RY9306_3

Chief Scientist Michio Hirota,

Japan Meteorological Agency, 1-3-4, Otemachi, Chiyoda-ku,

Tokyo 100, Japan

Ship R/V Ryofu Maru

Ports of call Leg 1: Tokyo, Japan to Rabaul, Papua New

Guinea

Leg 2: Rabaul, Papua New Guinea to Cebu,

Republic of the Philippines

Leg 3: Cebu, Republic of the Philippines to

Tokyo, Japan

Cruise dates Leg 1: June 9, 1993 to June 26, 1993

Leg 2: June 29, 1993 to July 12, 1993

Leg 3: July 17, 1993 to July 31, 1993

Number of Stations 35

30° 0.26'N

Geographic boundaries 154° 55.88'E 155° 10.26'E

3° 59.94'S

Floats and drifters deployed $\,$ 0 Moorings deployed or recovered $\,$ 0

A.2 Cruise Summary Information

A.2.b Stations occupied

Observations of PR4 were carried out as part of the R/V Ryofu Maru cruise RY9306 Leg 1, and those of PR02 were Leg 2 and Leg 3.

Number of Stations

A total of 35 CTD/rosette stations for PR4 and 32 stations for PR2 was occupied using a General Oceanics 12 bottle rosette equipped with 12 2.5-liter Niskin water sample bottles, and a Falmous Scientific Inc. Integrated CTD. No additional sensors were used with the CTD system.

Sampling

The following water sample measurements were made: salinity, oxygen, nitrate, nitrite and phosphate on all stations. The depths sampled were: 10, 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000, 1250, 1500, 2000, 2500, 3000, 4000 in meters at every 5 degrees in latitude. On other stations, samples were taken at shallower depths than 1250m. Surface water samples were collected by a bucket at every station.

A.3 List of Principal Investigators

The principal investigators responsible for each parameter measured on the cruise are listed in Table 1. (All the correspondence on these data should be addressed to the Director of the Oceanographical Division, Marine Department, Japan Meteorological Agency.)

Name Responsibility Affiliation

I. Kaneko CTD, S JMA/MD

I. Terashima O2, Nutrients JMA/MD

JMA/MD Marine Department, Japan Meteorological Agency

- A.4 Scientific Programme and Methods
- A.5 Major Problems and Goals not Achieved
- A.6 Other Incidents of Note
- A.7 List of Cruise Participants

WHPO SIO Data Processing Notes

Date	Contact	Data Type	Data Status Summary
09/29/99	Buck	CTD/BTL/SUM	Website Updated Online/Encrypted
08/04/00	inform you that	the PIs and p ed by the Japa	Data are Public I am pleased to articipants of the one-time and repeat n Meteorological Agency's vessels agreed atus to public.
08/15/00	Masaro Saiki th	e bottle and C made public.	Website Updated data decrypted As per ID files for these cruises have been All index files have been updated to
11/27/00			Submitted 2000.11.27 KJU SE SUMMARY and NOT sumfile.

2000.10.11 KJU

Files were found in incoming directory under whp_reports. This directory was zipped, files were separated and placed under proper cruise. All of them are sum files.

Received 1997 August 15th.

- 04/13/01 Uribe BTL Website Updated CSV File Added Bottle carriage returns were fixed. Bottle file was converted into Exchange format. Website now contains a link to the CSV file.
- 06/08/01 Uribe CTD Website Updated CSV File Added CTD were put into exchange format and the individual file names were modified. New zipped CTD file has been linked to website.
- 11/09/01 Uribe CTD Website Updated New CSV file added CTD data has been converted to exchange format using the new WHPO code. Old file has been put inside the original directory and new file has been put online.