

WFP Ref. No.: PR4, PR2  
Last Updated: February 9, 1996

A. Cruise Narrative

A.1 Highlights

A.1.a WOCE designation PR4, PR2

A.1.b EXPCODE                   49RY9206/1  
                                  49RY9206/2  
                                  49RY9206/3

A.1.c Chief Scientist           Jun'ichi Oyama,  
                                  Japan Meteorological Agency,  
                                  1-3-4, Otemachi, Chiyoda-ku,  
                                  Tokyo 100, Japan

A.1.d Ship                       R/V Ryofu Maru

A.1.e 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

A.1.f Cruise dates               Leg 1: June 9, 1992 to June 25, 1992  
                                  Leg 2: June 28, 1992 to July 11, 1992  
                                  Leg 3: July 16, 1992 to July 29, 1992

A.2 Cruise Summary Information

A.2.a Geographic boundaries

A.2.b Stations occupied

Observations of PR4 were carried out as part of the R/V Ryofu Maru cruise RY9206 Leg 1, and those of PR2 were Leg 2 and Leg 3.

Number of Stations

A total of 27 CTD/rosette stations for PR4 and 33 stations for PR2 was occupied using a General Oceanics 12 bottle rosette equipped with 12 1.7-liter Niskin water sample bottles, and an NBIS MK III B 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, water samples were taken at shallower depths than 1250m. Surface water samples were collected by a bucket at every station.

A.2.c Floats and drifters deployed

A.2.d Moorings deployed or recovered

### 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
K. Fushimi	O <sub>2</sub> , 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