A. Cruise Narrative

A.1 Highlights

A.1.a WOCE designation

A.1.b EXPOCODE 49RY9301/1

A.1.c Chief Scientist  Michio Hirota,  
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 Marakal, Parau

A.1.f Cruise dates  Leg 1: January 19, 1993 to February 6, 1993

A.2 Cruise Summary Information

A.2.a Geographic boundaries

A.2.b Stations occupied

Observations of PR2 were carried out as part of the R/V Ryofu Maru cruise RY9301 Leg 1.

Number of Stations  
A total of 33 CTD/rosette stations for PR2 was occupied using a General Oceanics 12 bottle rosette equipped with 12 2.5-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. 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.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Responsibility</th>
<th>Affiliation</th>
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I. Kaneko CTD, S JMA/MD
K. Fushimi 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