R/V Chofu Maru Cruise NC9410

1 Cruise Narrative

1.1 Highlights

Expedition Designation	Chofu Maru Cruise NC9410
Chief Scientist	Kan Kimura, NMO
Ship	R/V Chofu Maru
Port of Call	None
Cruise Dates	Leg 2: October 16 to October 20, 1994

1.2 Cruise Summary

Observations of PR19 were carried out as a part of the R/V Chofu Maru Cruise NC9410 Leg 2. The ship sailed from Naha at 0500 UTC on 16 October 1994. By 0922 UTC on 17 October, the ship was at the first station of a section PR19. The observations of IS line finished at 1836 UTC on 18 October, and the ship entered port of Ishigaki. However,we interrupted the observation of PR19 because the Typhoon 9431 was approaching and almost stayed near NS line.

The cruise track and station locations are shown in Figure 1. Water sampling on the cruise included measurements of salinity both by CTD and by water bottle samples, CTD temperature, bottle sample oxygen determination, and nutrients (nitrates, nitrites, and phosphates).

1.3 Principal Investigators for All Measurements

The principal investigators for all the parameters measured on the cruise are listed in Table 1.

Table 1. Principal Investigators for All Measurements

Name		Responsibility	Affiliation
т.	Hinata	CTD,S	NMO
Κ.	Kimura	02,Nutrients	NMO

1.4 List of Cruise Participants

The cruise participants are listed in Table 2.

Table 2. Cruise Participants

Name	Responsibility	Affiliation
NC9410 Leg 2	Naha to Ishigaki	16 Oct. to 20 Oct.
K. Kimura	Chief Scientist, O2,Nutrients	NMO

Ε.	Moriyama	O2,Nutrients	NMO
Τ.	Shiga	CTD software,S	NMO
Ν.	Nagai	02	NMO
Η.	Daimon	CTD hardware	NMO
J.	Jifuku	O2,Nutrients	NMO
Μ.	Ishizaka	Watch Stander	NMO
s.	Wakaki	Maritime Meteorology	NMO
т.	Tashiro	Maritime Meteorology	NMO

Т.Н

2. CTD

The NBIS Mark III B CTD (6500 dbar sensor without oxygen sensor) mounted on the 12 x 1.7 Liter General Oceanics rosette multisampler frame was used for all of the vertical CTD work. At some stations of which depth are deeper than 1,000 meters, the PREUSSAG acoustic pinger was mounted on 10 meters above the frame. At other shallower stations, the package was lowered to the depth of 95 percents of the bottom depth without the acoustic pinger.

The performance of the CTD and multisampler was good throughout the cruise.

The details of the data collection and data processing methods are described in "CTD Full Sampling and Data Processing Method Used at Nagasaki Marine Observatory". These methods were based on Millard and Yang (1992).

The results of the laboratory calibration for the temperature and pressure are shown