

HOT-35: Chief Scientist Report

Chief Scientist: S. CHISWELL

HOT-35 Cruise Report

All times are in Hawaii Standard Time

3 March 1992

1000 R/V Wecoma left Snug Harbor.

1200 Arrived at Kahe Pt. A weight test of the hydro winch was made, a PNF cast was done, and a 1000 m CTD cast was made; all without significant problems. However, the computer Hookipa seems to have a problem with the printer port, as it would not send line feeds to the printer. This problem was solved after Station 1, cast 1, by swapping the CTD data acquisition computer with its backup.

2230 Arrival at IES site #5. This IES responded to all acoustic signals properly, and was commanded to release itself at 0005.

4 March

0023 IES #5 left the bottom, and arrived at the surface at 0145. There was no strobe or radio signal. After a 1-hour search, the IES was sighted at 0245, and recovered by 0305. The strobe/radio glass sphere had water in -- hence the absence of strobe and RDF signal.

0700 The sediment traps were deployed without incident.

0858 Arrival at IES site #4. The release command was sent at 1006, and the IES recovered at 1145. Its strobe was also flooded. Based on this, it was decided to adjust the cruise schedule so that all IES recoveries would be done in daylight.

1315 Arrival at IES site #2. A PNF cast was done before the IES recovery. The release code was sent at 1428, and the IES was recovered by 1620.

1636 Station 2, cast 1 was started: 1000-m cast. There was noisy data on the Morita sensor, and its cable was changed.

1945 Station 2, cast 2 was started: 1000-m cast. The Morita trace was less noisy, but still not completely clean.

2216 Station 2, cast 3 was started: 1000-m cast.

5 March

0130 The go-flo cast for primary productivity was started.

0245 Station 2, cast 4 was started: 1000-m cast.

0400 The primary productivity array deployment was started.

0626 Station 2, cast 5 was started: 1000-m cast.

0910 Station 2, cast 6 was started: 4500-m WOCE cast.

1530 Station 2, cast 7 was started: 1000-m WOCE cast. At the end of this cast, the printer was turned off prematurely; consequently the mark file was not properly written. It was recovered, and given a non-standard name to flag this event to the processing.

1830 Recovery of the primary productivity array was started. Since we had not got any good ARGOS fixes, and there was no sign of the sediment trap on the RDF, we decided to locate the traps and get a GPS fix for them. They were found at 2100, 25 miles to the south east of Station 2.

2300 Station 2, cast 8 was started: 1000-m cast.

6 March

0200 Station 2, cast 9 was started: 1000-m cast.

0430 Station 2, cast 10 was started: 1000-m cast. During this cast, logging was accidentally terminated at the bottom. The upcast was labelled station 2, cast 11.

0700 Arrival at IES #4 site. The IES was recovered, and on deck by 0932.

1015 Station 2, cast 12 was started. This was the first deep oxygen cast for the Morita. It was completed by 1400.

1540 Arrival at IES site #1. The IES was recovered, and on deck by 1740.

2020 Station 3, cast 1 was started: second deep oxygen cast for the Morita. During this cast, the overflow light on the SeaBird deck box came on. This overflow apparently caused a delay between the plot on the screen and the package. Probable cause was that the printer got turned on with 'letter quality mode'.

7 March

0230 Station 3, cast 2 was started: 1000-m cast. During this cast, it was noticed that the date on the screen was 6-March, even though the computer was set to 7-March (checked by the date command from DOS).

0400 Commencement of XBT transect south.

1100 Sediment traps recovered without incident.

1540 Station 4, cast 1 was started.

1725 Station 5, cast 1 was started.