

HOT-10: Chief Scientist Report

Chief Scientist: S. CHISWELL

HOT-10 Cruise Report

SSP Kaimalino

21-24 Sep. 1989

Personnel:

WOCE	GOFS
Steve Chiswell (C.S.)	Chris Winn
Jef Snyder	Dale Hebel
Stewart Reid	John Dore
Shannon Cripe	Ricardo Letelier
Marc Rosen	

Report

This cruise was made with a never-used cable with 6260 m of cable on the drum. For the first time, we also used the crane and crutch to launch the CTD.

Kahe Pt cast was made successfully to 1000m.

No science was done during the transit to the HOT site.

The sediment traps were deployed at first light on 21 September at 22' 43.1N, 157' 55.7W, and eventually retrieved on 24 September, 1989 at 22' 57.8N, 158' 17.8W, making almost 0.5 knots to the north-west.

An in-situ primary productivity array was deployed for 12 hours on 22 September.

The WOCE CTD casts were made for 33 hours. We had some problems with lanyards catching on the rosette on initial casts. I think that many of the bottles on the 4500m cast may have had lanyards caught. We tried later to redo the 4500m cast, but had a connector fail at 3300m so this 2nd attempt was abandoned.

In situ natural fluorescence package was deployed on 21, 22, and 23 September. The package was deployed repeatedly on 22 September. The software did not work properly, and we were unable to display all the data at sea.

We also ran two intercomparison casts using the CTD with two T-sensors.

XBT casts were made during thr transit homeward.

Cruise Summary

Station 1 - 1 cast

Station 2 - 15 CTD casts

- 2 TTD casts

- 1 primary productivity cast

- 7 light casts

Hardware Problems:

One underwater connector failed; this may have given us some early warning, when we got some 'ibcnt = -----' errors on station 1 cast 1

We kinked the cable once, requiring one mechanical termination

Software Problems:

Light package software does not work properly.