HOT-28: Chief Scientist Report

Chief Scientist: C. WINN

Personnel List

Chris Winn, Chief Scientist
Ricardo Letelier
Terrence Houlihan
Jef Snyder
Sean Kennan
Toshiaki Shinoda
Chris Carrillo
Dan Sadler
Fernado Santiago-Mandujano
Sarah Hall
Robert Andersen
Betsy Tsai

Cruise Schedule

We departed Snug Harbor at 10:30 on the 8th of July after a 1.5 hour delay for barge traffic. Other than the delayed departure, the cruise schedule did not deviate significantly from plan. We returned to Snug Harbor at 16:00 on July the 12th.

Sampling

All WOCE and GOFS hydrographic and chemical sampling was completed on HOT-28. The GOFS primary production and sediment trap experiment were also successful. However, the WOCE 36 burst sampling was interrupted after approximately 30 hours because of the failure of the Markey winch.

CTD Operations

The Markey winch failed with approximately 1000 m of wire out. As a result, about 1000 m of was cut from the hydrowire. We attempted to recover the CTD using wire clamps and the ship's crane before cutting the wire. This attempt was abandoned when the wire clamp, which was not designed specifically for our wire, broke strands in the hydrowire. After the hydrowire was cut, the package was recovered by spooling on the Alpha Helix winch. Following an 8 to 10 hour delay to reconfigure the system, CTD operations were resumed using the Alpha Helix wire and winch. The 1000 m piece of cut wire was discarded at approximately 22o 45.22'N, 158o 01.54'W.

Sediment trap and Primary production Work

The sediment trap and primary production work went smoothly on this cruise. The Alpha Helix crew was again primarily responsible for recovering and deploying the sediment trap gear. Although the recovery of the large spar buoy continues to be a problem on the Helix, the seas

were relatively calm on this cruise, and the deployment and recovery of the spar was accomplished without major problems.