

HOT-14: Chief Scientist Report

Chief Scientist: S. CHISWELL

HOT-14 Cruise Report

SSP Kaimalino

13-17 Feb. 1990

Personnel List:

Steve Chiswell
Jef Snyder
Stewart Reid
Rich Muller
Dale Hebel
Georgia Tien
Ricardo Letelier
John Dore
Paul Troy
Chuck Stump
Bob Dickenson

Narrative:

HOT-14 departed Snug Harbor on the SSP Kaimalino at 0800 on 13 February 1990. HOT-14 returned to Snug Harbor on 17 February 1990.

WOCE & JGOFS Sampling

All water column chemical sampling was completed on HOT-14. The WOCE deep cast and CTD burst sampling were completed. JGOFS primary production experiment and sediment trap sampling were completed.

CTD and XBT Operations

The oxygen sensor was particularly noisy on this cruise and failed on the WOCE deep cast. Following this cast, the oxygen sensor was removed from the CTD package. Since the oxygen sensor was removed from the CTD before the regular time-series oxygen sampling was conducted, oxygen traces that were obtained were calibrated with oxygen analyses conducted by Steve Emerson's group from the University of Washington. XBTs were dropped on the return transit from Station ALOHA.

Primary Production and Sediment Trap Measurements

Primary production was measured on-deck and in situ for 12 hours.
Sediment trap samples were collected without significant problems.

Optical Measurements

Optical casts were completed at Kahe Point.

Ancillary projects

Samples for dissolved gases were collected for Charles Keeling of Scripps and for Steve Emerson and Paul Quay of the University of Washington.