

HOT-22: Chief Scientist Report

Chief Scientist: S. CHISWELL

HOT-22 Cruise Report

R/V Moana Wave

16-20 Dec. 1990

Personnel List:

Steve Chiswell	CS
Chris Winn	GOFs
Eric Firing	WOCE
Jef Snyder	WOCE
F. Bahr	
Marc Rosen	GOFs/WOCE
Stewart Reid	WOCE
John Dore	GOFs
Ricardo Letelier	GOFs
Dale Hebel	GOFs
Jim Christian	GOFs
Chuck Stump	U.W. Oxygen
J. Lueken	Scripps Institute of Oceanography

Cruise Schedule:

0800 16 Dec. 1990	Depart Snug Harbor
1100 16 Dec. 1990	Arrive Kahe Pt station
1400 16 Dec. 1990	Depart Kahe Pt station
2300 16 Dec. 1990	Arrive ALOHA, deploy sediment traps
0800 20 Dec. 1990	Recover traps, depart Station ALOHA
2000 20 Dec. 1990	Arrive Snug Harbor

Narrative:

HOT-22 departed Snug Harbor at 0800 aboard the R/V Moana Wave on 16 December. Samples were collected en route to Station ALOHA. HOT-22 returned to Snug Harbor at about 1700 on 20 December.

WOCE & JGOFs Sampling

All sampling was completed on HOT-22.

CTD and XBT Operations

Few CTD problems were encountered on HOT-22. However, the hydrowire kinked during an early cast, producing a gap in our planned CTD burst sampling. Also, the tensiometer was not working on HOT-22. The CTD decent speeds were therefore decreased to avoid additional hydrowire kinks. Consequently, the CTD burst sampling interval was increased. XBTs were deployed on the return leg from Station ALOHA to Snug Harbor.

Primary Production and Sediment Trap Measurements

Primary production was measured on HOT-22 with 12-hour in situ incubations. Sediment traps were deployed and recovered on HOT-22 without significant problems.

Lowered ADCP Operations

Four lowered ADCP casts were conducted on HOT-22.

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.