HOT-19: Chief Scientist Report

Chief Scientist: C. WINN

HOT-19 Cruise Report
SSP Kaimalino
23-27 July 1990

Personnel List:

Chris Winn	CS
Ricardo Letelier	GOFS
John Dore	GOFS
Dave Rose	GOFS/REU
Ian Gilbert	GOFS/REU
Stewart Reid	WOCE
Geore Parrish	WOCE
Max Cremer	WOCE
Jef Snyder	WOCE
Marc Rosen	GOFS/WOCE
Chuck Stump	GOFS/U.W. Oxygen
Angela Hardesty	WOCE/U.H. Hilo

Itinerary (approximate local time):
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23 July
  0800 Depart Snug Harbor
  1200 Arrive Kahe Pt
  1500 Depart Kahe Pt
24 July
  0300 Arrive HOT-site: deploy sediment traps
  0600 WOCE deep casts 4500m
  1000 WOCE cast 2500m
  1500 Commence 1000m cast on 3hr. intervals
25 July
  0130 GoFlo primary production cast
  0430 Deploy in situ array
26 July
  0000 Recover sediment traps
  0200 Depart for Snug Harbor

Narrative:

HOT-19 departed Snug Harbor at 0900 aboard the SSP Kaimalino on 23 July 1990. We returned to Snug Harbor at 2100 on 27 July. Kahe Point was

occupied on the outbound transit and approximately 72 hours was spent at Station ALOHA.

WOCE & JGOFS Sampling

The WOCE deep cast and the CTD burst sampling was obtained on HOT-19.

CTD and XBT Operations

Although there were no serious problems with CTD operations on HOT-19, there were several minor problems with the pylon. During the cruise, pylon positions 4, 12 and 18 were removed from service. Also, the flash fluorometer trace was somewhat noisier than usual, apparently due to the fluorometer cable which was showing signs of corrosion. XBTs were dropped en route to Station ALOHA.

Primary Production and Sediment Trap Measurements

Primary production was measured in situ for 12 hours. No on-deck incubations were conducted. Sediment traps were deployed and recovered without problems.

Optical Measurements

Optical casts were completed at Kahe Point.

Ancillary projects

Samples were dissolved gases were collected for Charles Keeling of Scripps and for Steve Emerson and Paul Quay of the University of Washington. Samples were also collected for UH researchers Lisa Campbell and Daniel Vaulot and UH graduate students Peter Sedwick, Ricardo Letelier and John Dore. REU (Research Experience for Undergraduates) students Dave Rose and Ian Gilbert also obtained samples for their work.