

HOT-41: Chief Scientist Report

Chief Scientist: C. WINN

HOT-41 Cruise Report

R/V Moana Wave

Oct. 17-22, 1992

Personnel list:

Chris Winn-Chief Scientist

Ricardo Letelier

Jim Christian

Chris Carillo

Jinchun Yuan

John Dore

Sean Kennan

Dale Hebel

Paul Troy

Dave Wilbur-UW

Dan Sadler

Chris Measures

Terry Houlihan

Rich Muller

Cruise Brief:

October 17

Departed Snug at 0900. Arrive at Kahe at 1130 and proceed with weight cast. CTD cast 1 started at 1300. CTD problems observed on upcast. No bottles tripped. Reterminated wire and start cast 2. Cast 2 on deck at 1930. Underway to ALOHA at 2030.

October 18

Deploy traps at 0400, finished at 0600. Steam to center, arrive 0646. CTD cast 1 commenced at 0655, finished at 1030. Burst sampling commenced at 1300.

October 19

Continue CTD casts. Go-Flo cast at 0245. Primary production array in at 0622. Continued CTD casts. Primary production array recovered at 1828. CTD casts continued.

October 20

Continue CTD casts. Commence with spatial survey at 1100 23 24 N, 158 W and continue south along 158 W. Heading towards direction of sediment traps.

October 21

Continue spatial survey. Sediment traps picked up at 1330.
Spatial survey continues south along 158 W.

October 22

Spatial survey finished at 0100. Transit back to Snug. Arrive at 0900.

Sampling requests:

- 1) John Dore- nitrogen cycling
- 2) Dave Wilbur- oxygen experiments
- 3) Lisa Campbell- picoplankton
- 4) Cliff Voss (USGS)- Kahe Pt. water samples
- 5) Paul Troy- carbonate dissolution experiments, extended trap line to accommodate traps at 600 meters.
- 6) Chris Measures, Jinchun Yuan- trace metal sampling
- 7) Sean Kennan - CTD spatial survey, mid-water hydrography