

HOT-27: Chief Scientist Report

Chief Scientist: R. LUKAS

Cruise Summary HOT-27

Leg 1: 3 June - 6 June, 1991

Roger Lukas, Chief Scientist

Leg 2: 8 June - 9 June, 1991

Personnel List

Roger Lukas, Chief Scientist

Chris Carrillo

Terrence Houlihan

Jef Snyder

Chris Sabine

Dale Hebel

John Dore

Lance Fujieki

Craig Moyer

Fernando Santiago-Mandujano

Summary

HOT-27 was conducted on R/V ALPHA HELIX in two parts. ALPHA HELIX departed from Snug Harbor for Leg 1 at 0945 HST on 3 June, 1991, and returned approximately 1030 on 6 June. Leg 2 departed from Snug Harbor at 1200 on 8 June and returned to Snug Harbor at 1200 on 9 June.

The weather was generally good, with light easterly trade winds prevailing. Occasional rain squalls were encountered, and the first two days of Leg 1 were fairly cloudy.

The work went smoothly on Leg 1. All scheduled casts were done, and the sediment traps were deployed without mishap. The primary productivity cast took a bit longer than normal due to pre-tripping of the go-flos on the first attempt. The in situ array was deployed and recovered with no problems. Some net tows were conducted between hydrographic casts.

The sediment traps were recovered on Leg 2 at approximately 0100 on 9 June. With the exception of a mishap on the part of the ship's crew crane operator, the sediment trap recovery went very smoothly. The crane operator's error resulted in the headache ball falling from the crane onto the ship deck. Fortunately, no one was injured when the ball hit the deck.

A new spar buoy recovery strategy was used on Leg 2. This strategy involved tying the top of the spar buoy to the deck before lifting the

spar out of the water. This resulted in the spar buoy being lifted onto the deck in a horizontal position and made for a much smoother recovery. We will employ this strategy as much as possible on future cruises.

One PNF cast was conducted at Kahe point and four at Station ALOHA. LICOR data were logged on 4 June through 6 June.