

24 November 1990 F/SWC2:BEB:JEG
CR9009-1.BEB

CRUISE REPORT

VESSEL: *Townsend Cromwell*, cruise 90-09 (TC-157)

CRUISE PERIOD: October 29-November 11, 1990

AREA OF OPERATION: French Frigate Shoals (FFS) and Laysan Island (Fig.1)

TYPE OF OPERATION: Acoustic doppler current profiler (ADCP) transects were conducted. Equipment and supplies were transported to FFS to resupply the U.S. Fish and Wildlife Service (USFWS) station at Tern Island. Personnel from the Southwest Fisheries Center (SWFC) Honolulu Laboratory (HL) and Long Island University (LIU), and equipment and supplies were transported from Laysan Island to Honolulu to disband the MMESP field camp.

ITINERARY:

29 October	Departed Snug Harbor, Honolulu and conducted ADCP transects.
2 November	Arrived Tern Island, FFS. Off-loaded equipment and supplies. Departed FFS and proceeded to Laysan Island.
6 November	Completed ADCP transects. Arrived Laysan Island. On-loaded one-third of the field equipment and supplies. Embarked Walter A.E. Machado.
8 November	Completed on-loading remaining field equipment and supplies. Embarked Brenda L. Becker, Margaret M. Lee, Karen B. Lombard, and Matthew Moorman. Departed Laysan Island and proceeded to Honolulu.
11 November	Arrived Snug Harbor, Honolulu. End of cruise.

**MISSION
AND
RESULTS:**

- A. Conduct ADCP transects.
 - 1. A total of 24 transects were completed along the course shown in Fig. 1.
- B. Resupply USFWS field station at FFS.
 - 1. The MMESP and USFWS equipment and supplies were off-loaded at Tern Island, FFS.
- C. Disband MMESP field camp at Laysan Island.
 - 1. The MMESP and LIU personnel and all field equipment and supplies were on-loaded at Laysan Island.
- D. General observations and miscellaneous activities.
 - 1. Bird flock, fish schools, and marine mammal sightings were recorded by the ship's officers and crew during daylight hours, when possible.
 - 2. Standard weather observations were made at 0000, 0300, 0600, 0900, 1200, 1500, 1800, and 2100 (G.m.t.) daily as part of the SEAS project.
 - 3. An XBT was made at 0000, 0300, 0600, 1200, 1500 and 1800 (G.m.t.) daily as part of the SEAS project.

**SCIENTIFIC
PERSONNEL:**

November 6-11

Walter A. E. Machado, Research Assistant, NMFS,
SWFC HL

November 8-11

Brenda Becker, Chief Scientist, NMFS, SWFC HL
Margaret M. Lee, Research Assistant, NMFS, SWFC HL
Karen B. Lombard, Research Assistant, NMFS, SWFC
HL
Matthew Moorman, Cooperating Scientist, LIU

Submitted by:

Brenda L. Becker
Chief Scientist

Approved by:

George W. Boehlert
Director, Honolulu
Laboratory

Attachment