CRUISE REPORT

VESSEL: Townsend Cromwell, cruise 90-04 (TC-152)

CRUISE PERIOD: June 7-15, 1990

AREA OF OPERATION: Pearl and Hermes Reef, Lisianski Island, Laysan Island, and French Frigate Shoals (Fig. 1)

TYPE OF OPERATION: Personnel from the Southwest Fisheries Center (SWFC) Honolulu Laboratory (HL), the U.S. Fish and Wildlife Service (USFWS), and the University of Hawaii (UH), and supplies and equipment were transported to Pearl and Hermes Reef (P&H) for a 2-day assessment of the terrestrial flora and fauna. In addition, the HL, USFWS, and UH personnel, and supplies and camp equipment were transported to establish the Marine Mammals and Endangered Species Program (MMESP) field camps at Lisianski; resupply and change personnel at Laysan Island; and resupply the USFWS station and establish the MMESP field camp at Tern Island, French Frigate Shoals (FFS).


8 - Arrived P&H. Deployed three field parties and disembarked Conant at Southeast Island and Becker and Morin at North Island to stay overnight.

9 - Deployed two field parties and embarked Becker, Conant, and Morin. Departed P&H and proceeded to Lisianski Island.

10 - Arrived Lisianski Island. Off-loaded supplies and camp equipment and disembarked Lee, Timme, Van Torrenburg, and Ziegler. Departed Lisianski Island and proceeded to Laysan Island.

13 - Arrived Tern Island, FFS, and off-loaded supplies and field equipment; disembarked Craig, Glueck, and Laniawe.


MISSION AND RESULTS:

A. Conduct tagging and resights of Hawaiian monk seals at P&H for on-going population monitoring.

1. Six weaned pups were tagged and two complete atoll counts were completed. The USFWS also assessed bird population totals, vegetation, and presence of ants.

B. Deploy MMESP field camp at Lisianski Island.

1. The MMESP and USFWS personnel, supplies, and field equipment were off-loaded at Lisianski Island.

C. Resupply MMESP field camp and change personnel at Laysan Island.

1. The MMESP and USFWS personnel, supplies, and field equipment were off-loaded and other MMESP personnel and equipment were on-loaded at Laysan Island.

D. Deploy MMESP camp and resupply USFWS field station at FFS.

1. The MMESP personnel, supplies, and field equipment were off-loaded at Tern Island, FFS.

E. 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.) each day as part of the SEAS project.

3. An XBT was made at 0000, 0300, 0600, 1200, 1500, and 1800 (G.m.t.) each day as part of the SEAS project.
SCIENTIFIC PERSONNEL:

(June 7-10)
Margaret M. Lee, Research Assistant, NMFS, SWFC HL
Leslie Timme, Research Assistant, NMFS, SWFC HL
Richard Van Toorenburg, Research Assistant, NMFS, SWFC HL
Alan C. Ziegler, Cooperating Scientist, USFWS

(June 7-11)
Brenda L. Becker, Chief Scientist, NMFS, SWFC HL
Sheila Conant, Cooperating Scientist, USFWS
Karen B. Lombard, Research Assistant, NMFS, SWFC HL
Duane K. McDermond, Cooperating Scientist, USFWS
Kenneth R. Niethammer, Cooperating Scientist, USFWS

(June 7-13)
Jennifer F. Glueck, Research Assistant, NMFS, SWFC HL
Leona P. Laniawe, Research Assistant, NMFS, SWFC HL

(June 11-13)
Mitchell P. Craig, Research Assistant, NMFS, SWFC HL

(June 11-15)
Keleigh Hague-Bechard, Chief Scientist, NMFS, SWFC HL

(June 7-15)
Marie P. Morin, Cooperating Scientist, USFWS

Submitted by: [Signature]
Brenda L. Becker
Chief Scientist (June 7-11)

Approved by: [Signature]
George W. Boehlert
Director, Honolulu Laboratory

Attachment
Figure 1.--Track of the Townsend Cromwell cruise TC-90-04 (TC-152), 7-15 June 1990.