



**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
**NATIONAL MARINE FISHERIES SERVICE**  
Southwest Fisheries Center Honolulu Laboratory  
2570 Dole St. • Honolulu, Hawaii 96822-2396

June 29, 1990

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).

ITINERARY: June 7 - Departed Midway for P&H. On board Brenda L. Becker,  
Sheila Conant, Jennifer F. Glueck, Leona P. Laniawe  
Margaret M. Lee, Karen B. Lombard, Duane K. McDermond,  
Marie P. Morin, Kenneth R. Niethammer, Leslie Timme,  
Richard Van Torrenburg, and Alan C. Ziegler.

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.

11 - Arrived Laysan Island. Off-loaded supplies and camp  
equipment and disembarked Becker, Conant, Lombard,  
McDermond, and Niethammer. Embarked Mitchell P. Craig  
and Keleigh Hague-Brechard. Departed Laysan Island  
and proceeded to Tern Island, FFS.



- 13 - Arrived Tern Island, FFS, and off-loaded supplies and field equipment; disembarked Craig, Glueck, and Laniawe.
- 15 - Arrived Snug Harbor, Honolulu. End of cruise.

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)

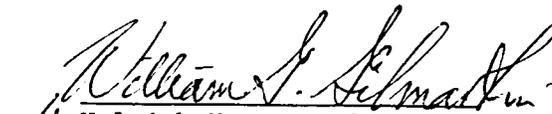
Keleigh Hague-Bechard, Chief Scientist, NMFS, SWFC HL

(June 7-15)

Marie P. Morin, Cooperating Scientist, USFWS

Submitted by:

  
for Brenda L. Becker  
Chief Scientist (June 7-11)

  
for Keleigh Hague-Bechard  
Chief Scientist (June 11-15)

Approved by:

  
George W. Boehlert  
Director, Honolulu Laboratory

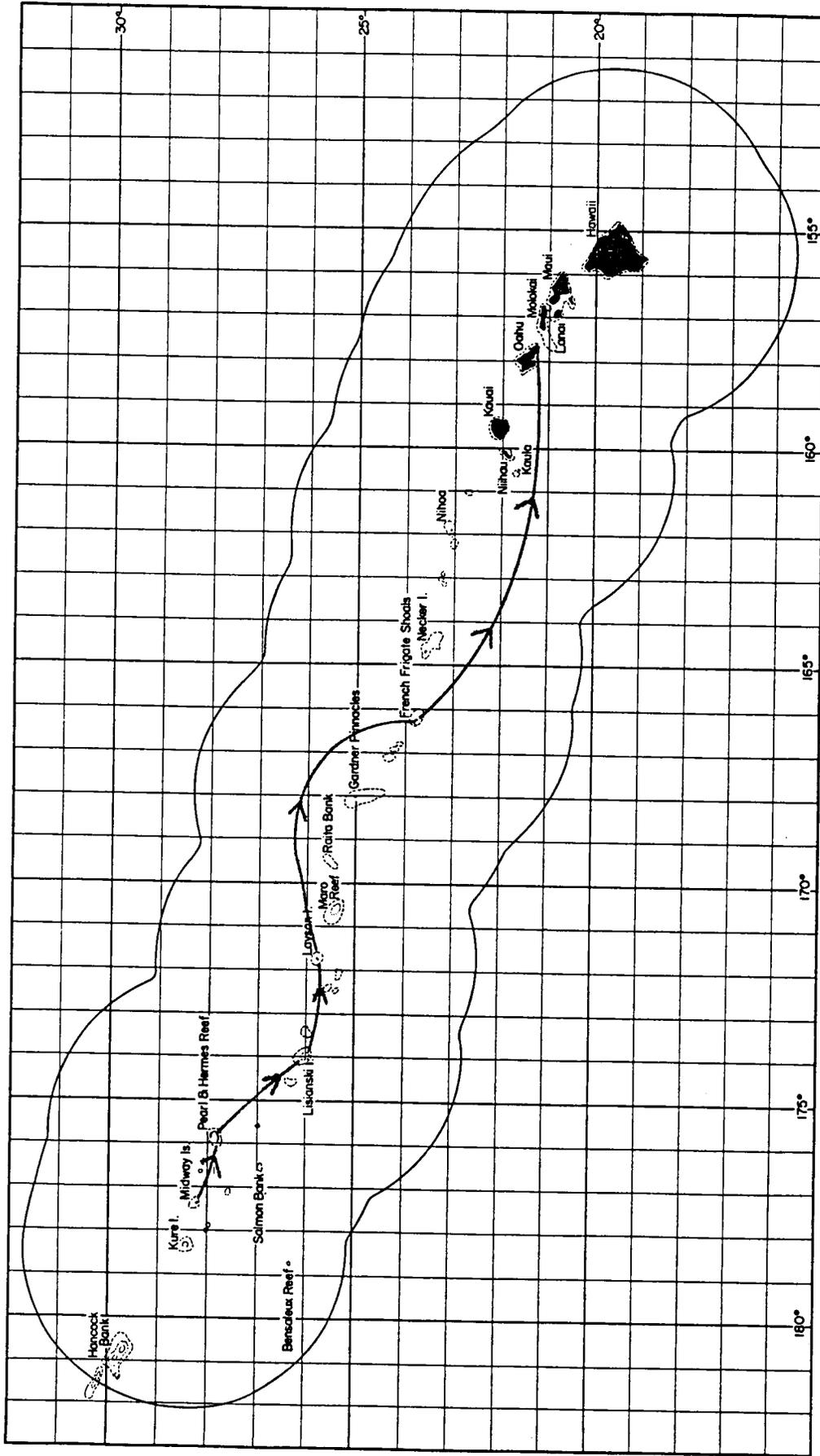


Figure 1.--Track of the Townsend Cromwell cruise TC-90-04 (TC-152), 7-15 June 1990.