CRUISE REPORT

VESSEL: Townsend Cromwell, Cruise 99-08 (TC-246)

CRUISE PERIOD: 15 July-2 August 1999

AREA OF OPERATION: Northwestern Hawaiian Islands (NWHI) (Fig. 1)

TYPE OF OPERATION: Support field camps and transport personnel of the Protected Species Investigation (PSI) Marine Mammal Research Program (MMRP), the U.S. Fish and Wildlife Service (USFWS), and the Department of Land and Natural Resources (DLNR).

ITINERARY:


16 July - Conducted one 500-m CTD cast.


18 July - Conducted two 500-m CTD casts.


20 July - Arrived Pearl and Hermes Reef (PHR) 1400. On-loaded equipment and supplies and disbanded the PSI field camp. Embarked Andrew McClung, Michelle Wainstein, Kate Willis, and Chad Yoshinaga.

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1This is a combined Cruise and Narrative Report.
21 July - Recovered derelict nets at North Island, PHR. Departed PHR 1800.

22 July - Arrived Kure Atoll 0900. On-loaded equipment and supplies and disbanded MMRP/DLNR field camp. Deployed and retrieved a field party to retag seals. Commenced debris cleanup of the F/V Paradise Queen II (PQII) shipwreck. Embarked David Gummeson, Irene Kinan, and Samantha Whitcraft.

23 July - Completed F/V PQII shipwreck cleanup and conducted reef debris surveys of east side of atoll. Departed Kure 1730.

24 July - Conducted one 500-m CTD cast. Arrived Midway Atoll 0730. Off-loaded 3 drums of gasoline, 209 lobster traps, and 3 storage bins. Disembarked Boland, Gummeson, Kinan, Lamkin, McClung, Stork, Wainstein, Whitcraft, Willis, and Yoshinaga.

25 July - Departed Midway Atoll 0900.

26 July - Arrived Lisianski Island 1130. On-loaded equipment and supplies and disbanded the MMRP field camp. Embarked Dorothy Dick, Lara Gibson, and Amber Pairis. Departed Lisianski Island 1830. Conducted one 500-m CTD cast.


30 July - Arrived Necker Island 0810. Deployed and retrieved shore and boat party to census seals and survey the island. Departed Necker Island 1530. Conducted one 500-m CTD cast.

31 July - Arrived Nihoa Island 1245. Deployed and retrieved shore and boat party to census seals and survey the island. Collected marine debris from the water. Departed Nihoa Island 1915.

MISSIONS AND RESULTS:

A. Disband field camps at Laysan and Lisianski Islands, PHR, and Kure Atoll, embarking all field personnel.

PSI field camps were successfully disbanded at Laysan and Lisianski Islands, PHR, and Kure Atoll.

B. Resupply and transport personnel to and from the USFWS field camp at Laysan Island.

Supplies and USFWS personnel were successfully transported to and from Laysan Island.

C. Transport field equipment and supplies for PSI and USFWS to the field station at Tern Island, FFS.

All equipment and supplies were transported to and from Tern Island, FFS.

D. Remove marine debris from Kure Atoll, Laysan Island, and Tern Island, FFS.

Derelict lobster traps were collected at Kure Atoll: 200 stashed on site and 209 transported to Midway Atoll. Marine debris was recovered at Laysan Island (2 pallet tubs) and FFS (3 pallet tubs). In addition, marine debris was recovered at PHR and Nihoa Island.

E. Retag seals at Kure Atoll.

One seal was retagged.

F. Conduct reef surveys for marine debris at Kure Atoll.

One 2-nmi tow transect was conducted on the east side of Kure Atoll. The submerged F/V PQII shipwreck was also resurveyed.

G. Conduct census of seals at Necker Island.

Seal surveys were conducted simultaneously on shore and by boat to compare the reliability of the boat surveys.
H. Conduct census of seals at Nihoa Island.

Seal surveys were conducted simultaneously on shore and by boat to compare the reliability of the boat surveys. Two weaned pups were also tagged.

I. Conduct CTD casts along the NWHI chain.

Nine CTD casts were successfully completed.

**SCIENTIFIC PERSONNEL:**

Ray Boland, Chief, Scientist, Joint Institute for Marine and Atmospheric Research (JIMAR), University of Hawaii (UH) (July 15-24)

Amber Pairis, Chief Scientist, JIMAR, UH (July 26-27)

Brenda Becker, Chief Scientist, National Marine Fisheries Service (NMFS), Southwest Fisheries Science Center (SWFSC), Honolulu Laboratory (HL) (July 27-August 2)

Bud Antonelis, Wildlife Biologist, NMFS, SWFSC, HL

Petra Bertilsson-Friedmann, Cooperating Scientist, JIMAR, UH

Matthew Berry, Cooperating Scientist, U.S. Fish and Wildlife Service (USFWS)

Tim Clark, Cooperating Scientist, USFWS

Brenden Courtot, Cooperating Scientist, USFWS

Dorothy Dick, Cooperating Scientist, JIMAR, UH

Lara Gibson, Cooperating Scientist, JIMAR, UH

David Gummeson, Cooperating Scientist, JIMAR, UH

Sheila Gummeson, Cooperating Scientist, JIMAR, UH

Irene Kinan, Cooperating Scientist, JIMAR, UH

Leslie Lamkin, Cooperating Scientist, National Oceanic Atmospheric Administration (NOAA)

David Liittschwager, Cooperating Scientist, Environmental Defense Fund (EDF)

Bart McDermott, Cooperating Scientist, USFWS

Andrew McClung, Cooperating Scientist, University of Hawaii

Susan Middleton, Cooperating Scientist, EDF

Cindy Rehkemper, Cooperating Scientist, USFWS

Mike Stork, Cooperating Scientist, NOAA Teacher-At-Sea

Michelle Wainstein, Cooperating Scientist, JIMAR, UH

Alex Wegmann, Cooperating Scientist, USFWS

Samantha Whitcraft, Cooperating Scientist, Department of Land and Natural Resources (DLNR)

Kate Willis, Cooperating Scientist, JIMAR, UH

Rebecca Woodward, Cooperating Scientist, USFWS

Chad Yoshinaga, Cooperating Scientist, JIMAR
Submitted by: ______________________________
Ray Boland
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Attachment