



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Southwest Fisheries Science Center Honolulu Laboratory
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October 3, 2001

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CRUISE REPORT

VESSEL: *Townsend Cromwell*, Cruise 01-09 Leg 1 (TC-272)

CRUISE PERIOD: August 7-August 11, 2001

AREA OF OPERATION: Main Hawaiian Islands (Fig. 1)

TYPE OF OPERATION: Personnel from the Southwest Fisheries Science Center (SWFSC) Honolulu Laboratory (HL), National Marine Fisheries Service (NMFS), surveyed fish assemblages associated with black coral beds using remote cameras, mixed gas, and conventional scuba diving in the waters off Maui.

ITINERARY:

- 7 August - Start of cruise. On board Raymond Boland, Mike Sawyer, Dave Pence, John Rooney, Brian Greene, and Frank Parrish. Departed Honolulu 1000.
- 8-11 August - Conducted remote camera surveys, mixed gas diving, and fish surveys in the channel waters of Maui.
- 11 August - Arrived Snug Harbor; all disembarked. End of cruise, Leg 1.

MISSIONS AND RESULTS:

- A. Fish assemblages were surveyed both near and away from patches of black coral trees. Video was used to record each dive's activity. Sites surveyed included the "Stonewall" commercial harvest area and the summits of some pinnacles that rise from the floor of the regions solution basins.
- B. An archival video was deployed to collect temporal information on diurnal/ nocturnal changes in black coral fish assemblages over a three-day period.
- C. UH staff were trained in the support structure and oversight of NOAA mixed gas dive operations with the intent that this expertise would contribute to the formation of a University of Hawaii-based advanced diving consortium.



**SCIENTIFIC
PERSONNEL:**

Frank Parrish, Chief Scientist, National Marine Fisheries Service (NMFS), Southwest Fisheries Science Center (SWFSC), Honolulu Laboratory (HL)

Raymond Boland, Research Associate, Joint Institute for Marine and Atmospheric Research (JIMAR), University of Hawaii (UH)

Dave Pence, UH Dive Safety Officer, University of Hawaii

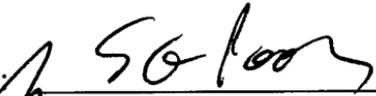
Michael Sawyer, Research Associate, JIMAR, UH

John Rooney, Cooperating Scientist, School of Ocean and Earth Science and Technology (SOEST), University of Hawaii (UH)

Brian Greene, Research Associate, JIMAR, UH

Submitted by: 

Frank Parrish
Chief Scientist

Approved by: 

R. Michael Laurs
Director, Honolulu Laboratory

Attachment

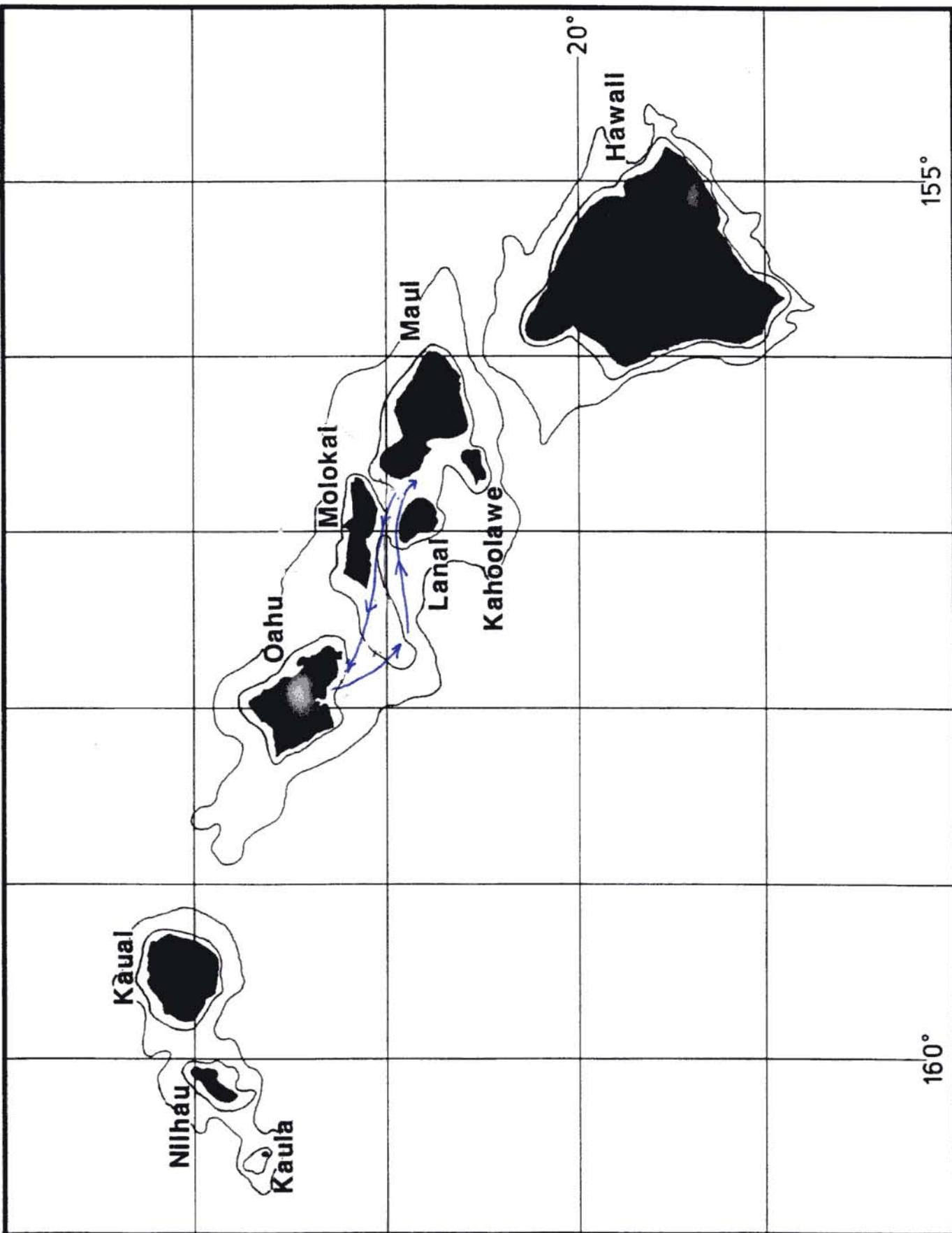


Figure 1. -- Track of the NOAA ship Townsend Cromwell cruise TC-01-09 Leg I (TC-272), August 7-11, 2001.