

September 21, 2004 F/PIC:FAP:FLF  
CR0411-2.FAP

## CRUISE REPORT

**VESSEL:** *Oscar Elton Sette*, Cruise 04-11 (OES-20)

**CRUISE PERIOD:** Leg I, August 21-September 7, 2004  
Leg II, September 8 to September 13, 2004

**AREA OF OPERATION:** Leg I, Northwestern Hawaiian Islands (NWHI) (Fig. 1)  
Leg II, Channel waters of Lahaina, Maui (Fig. 1)

**TYPE OF OPERATION:** The NOAA ship *Oscar Elton Sette* was engaged as support for the Pacific Islands Fisheries Science Center (PIFSC), National Marine Fisheries Service (NMFS), NOAA. Leg I operations were focused on obtaining specimens for fatty acid, conducting a stable isotope analysis, and recovering archival environmental monitors. Leg II operations were in support of State of Hawaii and PIFSC surveys of the black coral population.

**ITINERARY:**

August 21	Begin Leg I. Embarked Frank Parrish, Raymond Boland, and Ryan Jenkinson and departed for the NWHI.
August 23	Arrived Necker; conducted diving and sand trawling operations. Departed for French Frigate Shoals (FFS).
August 24	Arrived FFS; conducted diving and sand trawling operations. Departed for Brooks Bank.
August 25	Arrived Brooks Bank and conducted diving operations. Departed for Seamount 11.
August 28-30	Arrived Seamount 11; conducted trapping and bottomfishing operations. Departed for Kure on August 30.
August 31	Arrived and departed Kure. Embarked Cynthia Vanderlip.

September 3	Arrived Gardner and conducted sand trawls, diving, and CTD operations. Departed for FFS.
September 4	Arrived FFS and conducted diving and CTD operations. Departed for Necker.
September 5	Arrived Necker and conducted sand trawls, diving, and CTD operations. Departed for Nihoa.
September 6	Arrived Nihoa and conducted CTD operations. Departed for Honolulu.
September 7	Arrived Honolulu. Disembarked Jenkinson and Vanderlip. End of Leg I.
September 8	Begin Leg II. Embarked Tony Montgomery, Andrew Burnell, Jason Leonard, Brent Carmen, Paul Murakawa, Matthew Parry, Bruce Cohen, Eric Johnson, and Rodney Heikkinen. Departed for channel waters off Maui.
September 9-12	Conducted diving and camera drop operations. Departed on September 12 for Honolulu.
September 13	Arrived Honolulu; all disembarked; end of Leg II and research cruise.

### **MISSIONS AND RESULTS:**

1. Fatty acid collections (Leg I). Collections of two subphotic species were made at Seamount 11. The eel *Meadia abyssalis* and the fish *Pseudopentaceros wheeleri* were caught using traps and bottomfishing lines (Table 1). Twenty individuals of each species were collected.
2. Stable isotope collections (Leg I). First collections for NWHI stable isotope work were made on this trip. Filtered water samples, benthic algae, and biopsies from jacks (*Caranx ignobilis* and *C. melanpygus*) were collected from the lower portion of the NWHI and sent for analysis to Dr. Carolyn Currin (NOS) (Table 1).
3. Standardize sand trawl stations established for monitoring monk seal prey at Gardner, FFS, and Necker (Leg I) (Table 1).
4. Recovered archival data stations (Leg I). Thermographs were recovered from Necker, FFS, and Brooks Bank. Electric Rocks were pulled from FFS and Brooks Bank (Table 1).
5. Survey of Lahaina black coral beds (Leg II). Divers from the PIFSC and Division of Aquatic Resources measured more than 750 coral colonies and installed flow meter and settling plates in the black coral beds (Table 2).

### **SCIENTIFIC**

**PERSONNEL:**

Frank Parrish, Chief Scientist, National Marine Fisheries Service (NMFS), Pacific Islands  
Fisheries Science Center (PIFSC)

Raymond Boland, Research Biologist, NMFS, PIFSC.

Tony Montgomery, Aquatic Biologist, State of Hawaii

Andrew Burnell, Aquatic Biologist, State of Hawaii

Jason Leonard, Aquatic Biologist, State of Hawaii

Paul Murakawa, Aquatic Biologist, State of Hawaii

Matthew Parry, Aquatic Biologist, State of Hawaii

Brent Carmen, Aquatic Biologist, State of Hawaii

Bruce Cohen, Hyperbaric Physician, U.S. Navy

Rodney Heikkinen, Chamber operator, U.S. Army

Eric Johnson, Diver medical Technician, NOAA Diving.

Ryan Jenkinson, Research Biologist, RCUH

Cynthia Vanderlip, Research Biologist, State of Hawaii

(/s/Frank A. Parrish)

Submitted by: \_\_\_\_\_

Frank A. Parrish, Ph.D.

Chief Scientist

(/s/Jerry Wetherall) for

Approved by: \_\_\_\_\_

Samuel G. Pooley, Ph.D.

Science Director

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Attachments

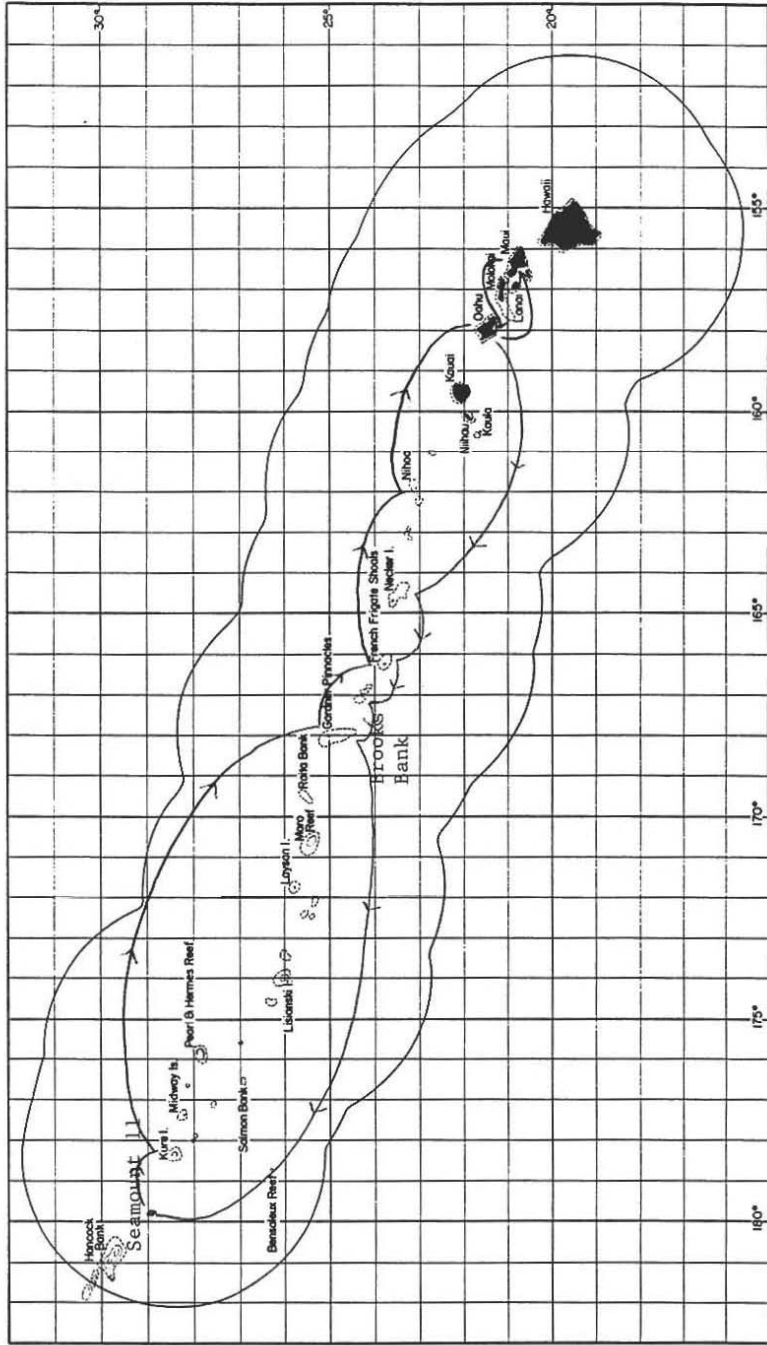


Figure 1.--Track of the NOAA ship Oscar Elton Sette cruise OES-04-11 (OES-20), Aug. 21 to Sept. 7, 2004, Leg I.  
 Track of the NOAA ship Oscar Elton Sette cruise OES-04-11 (OES-20), September 8-13, 2004, Leg II.