



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric
Administration
NATIONAL MARINE FISHERIES SERVICE
Pacific Islands Fisheries Science Center
1845 Wasp Blvd. Bldg. 176 □ Honolulu, Hawaii 96818-
5007
(808) 725-5300

PROJECT REPORT

VESSEL: *Oscar Elton Sette*, Project SE-15-04

PROJECT PERIOD: August 16 – August 18, 2015

AREA OF OPERATION: West Maui and Kona

TYPE OF OPERATION: This project started August 16, 2015 and ended August 18, 2015. The NOAA Ship *Oscar Elton Sette* was engaged as support for the Ecosystems and Oceanography Program and Cetacean Research Program, Pacific Islands Fisheries Science Center (PIFSC), National Marine Fisheries Service (NMFS). The primary objective of this project was to calibrate the EK-60. The secondary objective of this project was to deploy a High-frequency Acoustic Recording Package (HARP) at Jagger seamount and recover and deploy HARPs at a site off Kona.

ITINERARY:

16 August Departed Pearl Harbor. Transited to West Maui, set dual point anchors, and conducted first attempt at EK60 calibration.

17 August Hauled anchors back; transited to area off Kona for second attempt at EK-60 calibration and HARP operations; concluded scientific operations, transited to Pearl Harbor.

18 August Returned to Pearl Harbor, project complete.

MISSIONS AND RESULTS:

- A. The Primary objective of this project was to calibrate the EK-60. Two attempts were made during this project to calibrate the EK-60. Once off West Maui using dual points anchors and once in waters off Kona while drifting.
1. The first attempt was unsuccessful. This was mostly due to sea state and currents.
 2. The second attempt was unsuccessful. This was due to sea state and insufficient time. The sea state off Kona was minimal, but still created enough movement to make calibration difficult. However, this could have been overcome had more time been available. While the calibration was unsuccessful, it did prove that in calm enough waters and given an appropriate amount of time a drift calibration is feasible.
- B. The secondary objective of this project was to deploy a HARP at Jagger seamount and recover and deploy HARPs at a site off Kona.
1. Due to insufficient time, the HARP at Jagger seamount was not deployed.
 2. The HARP at the Kona site was successfully recovered and a new one deployed.

SCIENTIFIC PERSONNEL:

1. Erik Norris, Chief Scientist, Joint Institute of Oceanography (JIMAR)
2. Adrienne Copeland, Lead Acoustic Technician, JIMAR
3. Diana Miller, Acoustic Technician, JIMAR
4. Ariel Pezner, Intern, JIMAR
5. Jennifer Wong-Ala, Intern, PIFSC volunteer

Submitted by: NORRIS.ERIK.SCOTT. Digitally signed by NORRIS.ERIK.SCOTT.
Date: 2019.12.31 11:31:29 -10'00'
Erik Norris
Chief Scientist

Approved by: SEKI.MICHAEL.PAUL
YUKIO. Digitally signed by SEKI.MICHAEL.PAUL
YUKIO.
Date: 2019.12.31 12:22:02 -10'00'
Michael P. Seki, Ph.D.
Science Director
Pacific Islands Fisheries Science Center