

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

DESCRIPTIVE REPORT

Type of Survey: Basic Hydrographic Survey

Registry Number: H13689

LOCALITY

State(s): Oregon

General Locality: Offshore Oregon

Sub-locality: Northwest of Coos Bay

2022

CHIEF OF PARTY
CDR Meghan McGovern

LIBRARY & ARCHIVES

Date:

H13689

HYDROGRAPHIC TITLE SHEET

H13689

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State(s): **Oregon**

General Locality: **Offshore Oregon**

Sub-Locality: **Northwest of Coos Bay**

Scale: **20000**

Dates of Survey: **11/12/2022 to 11/13/2022**

Instructions Dated: **09/30/2022**

Project Number: **OPR-M328-FA-22**

Field Unit: **NOAA Ship *Fairweather***

Chief of Party: **CDR Meghan McGovern**

Soundings by: **Kongsberg Maritime EM 712 (MBES)**

Imagery by: **Kongsberg Maritime EM 712 (MBES Backscatter)**

Verification by: **Pacific Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <https://www.ncei.noaa.gov/>. Products created during office processing were generated in NAD83 UTM 10N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

DESCRIPTIVE REPORT MEMO

April 14, 2023

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: ENS Adam Martinez
Sheet Manager, NOAA Ship *Fairweather*

SUBJECT: Submission of Survey H13689

This project is being conducted in support of the Expanding Pacific Research and Exploration of Submerged Systems (EXPRESS) campaign comprised of a large and diverse team of federal and non-federal partners targeting deepwater areas off of the U.S. Pacific Coast. The primary objective of this project is to collect data for surficial geology, benthic habitats, subbottom faults, geologic hazards and sedimentary processes. Data from this project will support a variety of disciplines including offshore energy projects and infrastructure, marine spatial planning, ecosystem assessments, and marine geohazards. Data from this project will also be collected to support for BOEM's Offshore Wind Energy Program. This program was created to support the White House administration's goal to deploy 30 gigawatts of offshore wind energy by 2030. NOAA and BOEM will conduct a coordinated multibeam echo sounder survey of the project area to collect bathymetry, acoustic backscatter data, and water column data. Bathymetric data from this project will be further used to update National Ocean Service (NOS) nautical charting products and improve maritime safety. This project will cover a total of 210 SNM. Survey data is intended to supersede all prior survey data in the common area.

Three products were created for this survey: a VR MBES Surface, a finalized VR MBES Surface, and an Acoustic Backscatter Surface.

All soundings were reduced to Mean Lower Low Water using VDatum. The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 10.

All survey systems and methods utilized during this survey were as described in OPR-M328-FA-21_DAPR v.3.

All data were reviewed for DTONs and none were identified in this survey.

There is a noticeable offset of around 1m or less in 160m of water between some of the lines. This is over 118 linear nautical miles. This appears to be due to the low number of sound speed casts

distributed throughout the larger geographic area. Despite this, the data is still within the uncertainty standards required.

This survey does meet charting specifications and is adequate to supersede prior data.

E. Approval Sheet

As Chief of Party, field operations for this hydrographic survey were conducted under my direct supervision, with frequent personal checks of progress and adequacy. I have reviewed the attached survey data and reports.

All field sheets, this Descriptive Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys Specifications and Deliverables, Field Procedures Manual, Letter Instructions, and all HSD Technical Directives. These data are adequate to supersede charted data in their common areas. This survey is complete and no additional work is required with the exception of deficiencies noted in the Descriptive Report.

Approver Name	Approver Title	Approval Date	Signature
CDR Meghan McGovern	Chief of Party	04/16/2023	MCGOVERN.MEGHAN.E LIZABETH.1284020495 <small>Digitally signed by MCGOVERN.MEGHAN.E 4020495 Date: 2023.04.16 19:04:05 -08'00'</small>
LTJG Taylor Alan Krabel	Operations Officer	04/16/2023	KRABEL.TAYLOR.A LAN.1539169935 <small>Digitally signed by KRABEL.TAYLOR.ALAN.1539169935 Date: 2023.04.16 18:44:12 -08'00'</small>
ENS Adam Martinez	Sheet Manager	04/16/2023	MARTINEZ.ADAM.MO HAMED.1532539273 <small>Digitally signed by MARTINEZ.ADAM.MOHAMED.1532539273 Date: 2023.04.16 19:12:15 -08'00'</small>