

W00551

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

DESCRIPTIVE REPORT

Type of Survey: Basic Hydrographic Survey

Registry Number: W00551

LOCALITY

State(s): Alaska

General Locality: Chukchi Sea

Sub-locality: Icy Cape

2020

CHIEF OF PARTY
Steve Roberts

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

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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): **Alaska**

General Locality: **Chukchi Sea**

Sub-Locality: **Icy Cape**

Scale: **20000**

Dates of Survey: **10/23/2020 to 10/23/2020**

Instructions Dated: **N/A**

Project Number: **ESD-PHB-20**

Field Unit: **R/V Sikuliaq**

Chief of Party: **Steve Roberts**

Soundings by: **Kongsberg Maritime EM 302 (MBES)**

Imagery by: **N/A**

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 WGS84 UTM 3N, 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

December 16, 2020

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Report prepared by PHB on behalf of field unit
Robert Short
Physical Scientist, Pacific Hydrographic Branch

SUBJECT: Submission of Survey W00551

While transiting north, R/V Sikuliaq logged a single MBES line near Icy Cape in an attempt to prove/disprove a charted shoal.

Two xyz files were submitted.

The vertical datum for this project is Mean Lower Low Water. The horizontal datum for this project is World Geodetic System (WGS) 1984. The projection used for this project is Universal Transverse Mercator (UTM) Zone 3.

Data were acquired with a Kongsberg EM302. Positioning and attitude data were collected with a Kongsberg Seapath 320+ with CNAV global correction.

A “spike” filter was utilized in the field processing of this survey. The data provider did not provide further information about the process performed.

Data were converted to a 4 meter BAG format during office review.

During office review fliers were identified and removed from the dataset.

Based on the vessel draft, apparent sound velocity artifacts, and tidal range in the area, uncertainty was calculated using the following formula: $1m + (0.02 * \text{Depth})$

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

R/V Sikuliaq acquired the data outlined in this report. Additional documentation from the data provider may be attached to this report.

This survey does meet charting specifications and is adequate to supersede prior data. This survey will be used to update NOAA navigational products.

APPROVAL PAGE

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Data meet or exceed current specifications as certified by the OCS survey acceptance review process. Descriptive Report and survey data except where noted are adequate to supersede prior surveys and nautical charts in the common area.

The following products will be sent to NCEI for archive

- Descriptive Report
- Collection of Bathymetric Attributed Grids (BAGs)
- GeoPDF of survey products

The survey evaluation and verification has been conducted according current OCS Specifications, and the survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____

Commander Olivia Hauser, NOAA
Chief, Pacific Hydrographic Branch