

6997

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Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
Field No. AR-B-45 Office No. T-6997

LOCALITY

State Alaska
General locality Point Barrow
Locality _____

1945

CHIEF OF PARTY

Ralph W. Woodworth, Lt. Comdr.
USCGC

LIBRARY & ARCHIVES

DATE JAN 24 1946

B-1870-1 (1)

DECLASSIFICATION BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3 (a), EXECUTIVE ORDER 12356

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

T6997

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

Field No. AR-B-45

REGISTER NO. T-6997

State Alaska

General locality Point Barrow

Locality Point Barrow

Scale 1:20,000 Date of survey July, 1945

Vessel Shore-based party.

Chief of party R. W. Woodworth, Lt. Comdr., C. & G. S.

Surveyed by L. J. Lyng, Ch. C.M., NCED #1058

Inked by P. M. Fisher, Cart. Engr., C. & G. S.

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated 19 April, 1945

Remarks: No elevations were taken because of flat terrain.

Descriptive Report
to accompany
Topographic Sheet T-6997 (AR-B-45)
Point Barrow, Alaska

Date of Instructions-

19 April 1945.

General Statement-

In accordance with paragraphs 11 and 12 of the above Instructions, topography was limited to the areas in which the discharging and loading of cargo was planned by the U. S. Navy. This area, covered by Sheets T-6996 and T-6997, extended from Barrow Village at the southwest to Point Barrow on the northeast. Only the shoreline, intermediate signals for hydrographic work, and the runways for the airway were located by planetable methods. The northwest corner of the hangar was located by sextant angles from NORTH BASE, ASTRO, and itself. An angle was also turned at the northwest corner of the hangar to obtain the direction of the northeast side of the hangar. These data were plotted on this topographic sheet with a steel protractor.

General Description and Landmarks-

The data required under these headings are adequately covered in paragraphs O, P, and Q of the Descriptive Report to accompany Hydrographic Sheet H-7069 (Field No. AR-2145), and in the corresponding paragraphs for the reports accompanying Sheets H-7070 to H-7074. No additional information was obtained by the topographer.

Character of Control-

The control consisted of 12 second- and third- order triangulation stations, based on an Astrolabe position of station ASTRO observed by the AAF in March 1945, a Solar azimuth from ASTRO to NORTH BASE observed by Lieut. Comdr. R. W. Woodworth on the night of 1-2 July 1945, and the Point Barrow Baseline measured by Lieut. Comdr. J. Bowie, Jr., in June 1945.

A projection based on the "USC&GS ASTRO 1945" datum should be superimposed on this sheet. This datum was derived from two Astrolabe positions of SOUTH BASE observed by Lieut. Comdr. Woodworth in September-October 1945, combined with the AAF observations at ASTRO, and a Polaris azimuth observed from SOUTH BASE to NORTH BASE by the USC&GS on two nights in September-October 1945.

Closing Errors of Traverses-

No traverse was greater in length than $1 \frac{2}{3}$ miles, and all were within the allowable limit of 8 meters per mile. Closures were adjusted in proportion to distances traversed. The sheet was office-inspected at the end of each day.

Auxiliary Survey Methods-

The northwest corner of the hangar at the airway was located by sextant angles as noted under "General Statement."

Form Lines-

No elevations were taken by the topographer, and no part of the area surveyed on this sheet reached an elevation of 20 feet.

Revision Work-

The present survey is the first in the area, so no revision was involved.

Additional Work-

No additional work need by done on this sheet, unless landmarks are added by development of the area.

Junctions with Adjacent Sheets-

The work was continuous from this sheet to Sheet T-6996 (Field No. AR-A-45), and the sheets joined at triangulation control.

Photographs-

~~Photo~~ The aerial photography of this area was flown by the 311th Air Wing, Army Air Forces, with headquarters at Buckley Field, Denver, Colorado.

Note-

No List of D.M.'s and D.P.'s has been prepared, as the signals were transferred graphically by tracing. They should be referenced to the new datum projection.

The field work was accomplished by L. J. Lyng, Ch. C.M.,
NCBD #1058; and the inking by Paul M. Fisher, Cartographic Engineer,
C&GS, while Lyng was available to clarify any questions that arose.

Respectfully submitted,

Francis B. Quinn

Francis B. Quinn,
Lieut. Comdr., USC&GS

Approved,

Ralph W. Woodworth

Ralph W. Woodworth
Lieut. Comdr., USC&GS
Chief of Party.

This survey has been incorporated in and
superseded by air photo compilation CS-315. No
further consideration by this section is necessary.

G. F. Jordan
Review Section

GEOGRAPHIC NAMES

Survey No.

T6997

Name on Survey	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A	B	C	D	E	F	G	H	K
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NAUTICAL CHARTS BRANCH

SURVEY NO. T6997

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.