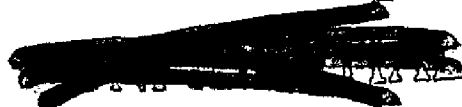


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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	AB-A-45
Office No.	T-6996
LOCALITY	
State	Alaska
General locality	Point Barrow
Locality	
1945	
CHIEF OF PARTY	
Ralph W. Woodworth, Lt. Comdr. USC&GS	
LIBRARY & ARCHIVES	
DATE	JAN 24 1946

on
Diag. 9400

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. **T6996**

TOPOGRAPHIC TITLE SHEET

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-A-45

REGISTER NO. T-6996

State Alaska

General locality Point Barrow

Locality S.W. of 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., NCBD #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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

T6996

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Field No. AB-A-45

REGISTER NO. T-6996

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General locality Point Barrow

Locality S.W. of Point Barrow

Scale 1:20,000 Date of survey July, 19 45

Vessel Shore-based party.

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

Surveyed by L. J. Lyng, Ch. C.M., HCBP #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, 19 45

Remarks: No elevations were taken because of flat terrain.

Descriptive Report

to accompany

Topographic Sheet T-6996 (AR-A-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 at the northeast. Only the shoreline and intermediate signals for hydrographic work were located by planetable methods.

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). No additional information was obtained by the topographer.

Character of Control-

The control consists of 11 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 from SOUTH BASE to NORTH BASE observed by the USC&GS on two nights in September-October 1945.

Closing Errors of Traverses-

No traverse was greater than a mile in length between triangulation stations, and all fell within the allowable limit of 8 meters per mile. The sheet was office-inspected at the end of each day. Adjustments were made proportional to the distances traversed.

An open traverse of one mile was run at the southwest end of the survey from triangulation station UTKIAVE to topographic station DRUM, including an azimuth directly from UTKIAVE to DRUM.

Auxiliary Survey Methods-

No auxiliary methods were used. A rod-reading was taken to the HW line at each set-up and all signals were rodded in.

Form Lines-

No elevations were taken by the topographer. The terrain is low and can be obtained from the air-photos as indicated in the Instructions.

Revision Work-

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

Additional Work-

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

Junctions with Adjacent Work-

The work was continuous from this sheet to Sheet T-6997 (Field No. AR- B-45), and these 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., NCBP #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., C&GS

Approved,

Ralph W. Woodworth

Ralph W. Woodworth
Lieut. Comdr., C&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.

T6996

Name on Survey

A

B

C

D

E

F

G

H

K

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

1

2

3

4

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6

7

8

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10

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NAUTICAL CHARTS BRANCH

SURVEY NO. T6996

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.