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Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR L. O. Colbert	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. F
State Aleutian Islands	
LOCALITY	
Cape Lapin Westward	
North Side of Unimak Island	
193 40	
CHIEF OF PARTY	
Gen. L. Bean	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 16778

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 Letter F-1940

REGISTER NO.

State ALASKA Aleutian IslandsGeneral locality North Side Unimak Island.Locality Cape Lapin Westward
Urillia Bay.Scale 1:20,000 Date of survey June, 1940Vessel U.S.C. & G.S.S. GUIDE.Chief of Party E. W. Eickelberg and Geo. L. Bean.Surveyed by H. C. Applequist and F. X. Popper.Inked by Francis X. Popper.Heights in feet above M.H.W. to ground ~~to tops of trees~~Contour Approximate ~~contour~~ Form line interval 100 feetInstructions dated March 8, 1939Remarks: Project HT-231.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET, FIELD LETTER "F"

T6778

1940

NORTH SIDE OF UNIMAK ISLAND, ALASKA

AUTHORITY

Authority for this survey is contained in the director's Instructions dated March 8, 1939, Project No. HT-231. ✓

SCALE

The scale of this survey is 1:20,000. ✓

LIMITS

This sheet covers the North Coast of Unimak Island from a point in Urillia Bay, longitude $164^{\circ}19'$, to a point just east of the most westerly of the two points forming Cape Lapin, longitude $164^{\circ}09\frac{1}{2}'$. ✓

GENERAL DESCRIPTION OF AREA

The area between the high and low water lines around the most westerly of the two points forming Cape Lapin and the area between the high and low water lines which extend in a southwesterly direction for approximately one half mile is sandy with numerous boulders and rocks. The remainder of this area on this sheet is sandy without boulders or rocks of any description. The beach is the same as the low water area. ✓

On the most easterly mile and a half of the sheet are bluffs which are almost vertical. They are of hard compacted sand. The material forming some of these bluffs is so hard that it resembles a soft sandstone. ✓

Parallel to most of the remainder of the shore line is a row of sand dunes which occasionally degenerate into flat sand spits. Behind these dunes and spits are lagoons. The areas behind these lagoons in the west end of the sheet are marshy with numerous ponds and small creeks. The marshes are covered with tall green grass, but no other forms of vegetation. ✓

The most easterly of the two lagoons on this sheet is fed by a good sized stream on the western edge of the lagoon. This stream comes out from underground about a mile back from the shore. ✓

On the eastern end of the sheet and back from the shoreline are grassy slopes. ✓

CONTROL

This survey is based on triangulation by parties from the Ship GUIDE in 1939 and 1940. The Unalaska Datum was used. The positions were plotted from the unadjusted field computations. ✓

SURVEY METHODS

The plane table and stadia were used with no deviation from standard practice. All traverses closed well within the allowable limits and were adjusted. ✓

CLOSING ERRORS IN TRAVERSES

	Length in Stat.miles:	Closing error in meters: Dist: Azimuth:
Big Dune 1939 to Aries 1939	3.7	6 0 ✓
Aries 1939 to Pip 1940	2.1	7 1
Pip 1940 to Lapin 1940	2.1	10 6 ✓

FORM LINES AND ELEVATIONS

The form line interval is 100 feet. ✓

JUNCTIONS

Satisfactory junctions were made with adjoining sheets. To the westward this sheet joins Sheet Field Letter "E" 1939-40. To the eastward this sheet joins Sheet Field Letter "G" 1940. Both of the adjoining sheets were completed during the season of 1940.

GEOGRAPHIC NAMES

The west lagoon on this sheet is known to the trappers as Christiansons Lagoon. The east lagoon is known to the trappers as Petersons Lagoon and if names are to be applied these are recommended.

COMPARISONS WITH HYDROGRAPHIC SHEETS AND CHARTS

The inshore hydrography in this area has been completed on this sheet. There are no discrepancies between hydrographic and topographic sheets. There can be no detailed comparison between the topographic sheet and the nautical chart because the chart is only reconnaissance and is on a much smaller scale; however it is noticeable that the shoreline is out of place as much as three minutes of longitude and an appreciable amount in latitude.

LANDMARKS

There are no landmarks in this area which should be charted.

MAGNETIC DECLINATIONS

No indications of local magnetic attraction were found in this area.

STATISTICS

Statute miles of shoreline	- - - - -	8.1
Statute miles of lagoon and river shoreline	- - - - -	5.2
Area in square statute miles	- - - - -	26.6

Respectfully submitted,

Francis X. Popper
Francis X. Popper,
Aid, C. & G. Survey.

T-6718

Topographic Sheet Field Letter "F"-1940 and the descriptive report pertaining thereto have been examined by me and are approved and forwarded.

Chas M Thomas

Chas. M. Thomas,
Lieutenant, C. & G. Survey,
Commanding Ship GUIDE.

Remarks

Decisions

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4		"
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GEOGRAPHIC NAMES

Survey No. **T6778**

GEOGRAPHIC NAMES		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	
Name on Survey		A.	B.	C.	D.	E.	F.	G.	H.	K.							
Bering Sea																	1
Cape Lapin																	2
Christianson's Lagoon																	3
Peterson's Lagoon																	4
Unimak Island																	5
Urilia Bay																	6
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Heck

5/5/42

M 234

Heck 5/5/42

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

~~No. 11~~

No. T T6778

received January 14, 1942
registered January 15, 1942
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	R. W. Knox
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R. W. Knox

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6778

FIELD NO. F

Aleutian Islands; North Side of Unimak Island;

Cape Lapin Westward

Surveyed June 1940, Scale 1:20,000

Instructions dated March 8, 1939 (GUIDE)

Plane Table Survey

Aluminum Mounted

Chief of Party - E. W. Eickelberg; G. L. Bean

Surveyed by - H. C. Applequist; F. X. Popper

Inked by - F. X. Popper

Reviewed by - J. A. McCormick, May 2, 1942

Inspected by - H. R. Edmonston

1. Adjoining Surveys

Satisfactory junctions were effected with T-6777 (1939-40) on the west and with T-6779 (1940) on the east.

2. Previous Surveys

The Coast and Geodetic Survey has made no previous surveys in this area.

3. Comparison with Chart 8860 (New Print of 2-3-42)

Shoreline in this area already has been applied to the chart from transferred data on H-6623 (1939-40), contemporary hydrographic survey.

4. Compliance with Project Instructions

Excellent.

5. Additional Field Work Recommended

None.

6. Superseded Surveys

None.

Robert W. Ward
Chief, Surveys Section

Examined and approved:

J. S. Borden
Chief, Division of Charts

Wm. L. Pearson
Acting Chief, Section of Hydrography

G. H. Hilde
Chief, Division of Coastal Surveys