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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 <del>Hydrographic</del>	Sheet No. E
State Aleutian Islands	
LOCALITY	
Cape Mordvinof	
North side of Unimak Island	
1940	
CHIEF OF PARTY	
E. W. Eickelberg	

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

REG. NO. 16777

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. "E-1939-40"

REGISTER NO.

State ALASKA Aleutian Islands  
General locality North side Unimak Island  
Locality Cape Mordvinof  
Scale 1:20,000 Date of survey August, 1939, May & June, 1940  
Vessel U.S.C. & G.S.S. GUIDE  
Chief of party E. W. Eickelberg  
Surveyed by C. A. Schoene  
Inked by C. A. Schoene  
{ Heights in feet above MLW to ground ~~to tops of trees~~  
Rocks awash in feet above MLLW  
~~Contour~~ ~~Approximate contour~~ Form line interval 100 feet  
Instructions dated March 8, 1939  
Remarks: Project HT-231

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET, FIELD LETTER "E"

T6777

1939 - 40

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 including almost all of Cape Mordvinof. It extends from a point approximately one half mile east of Nipper Cove, ✓ longitude  $164^{\circ}31'$ , to a point including about two miles of Uria Bay, longitude  $164^{\circ}19'$ .

GENERAL DESCRIPTION OF AREA

Cape Mordvinof is comprised of a series of round-topped ridges separated by shallow valleys. Where these ridges and valleys meet the sea they form a succession of points and coves. The points are characterized by precipitous rocky bluffs ranging in height from 450 ft. at the west end of the Cape to 100 ft. at the east end. ✓ Small clear streams run thru the valleys. The terrain slopes upward from the bluff line to a group of rocky peaks approximately 2000 ft. in elevation. These peaks are snow covered in the winter and bare in the summer. The valleys are covered with grass and tundra and the grass is thick enough to furnish fine food for large herds



of Caribou in the late summer months. The lower slopes of the hills and ridges are covered with tundra with occasional patches of grass. The area for about 1/4 mile back from the bluff is thickly covered with grass. The upper slopes of the hills and ridges are rocky.

The bluffs are earth and rock on the west end of the Cape and a combination of grass, earth and rock at the east end. The beach is rocky from the west end of the sheet to Urilia Bay. The beach is sandy in Urilia Bay and also sandy between the high water line and the low water line except for a strip about 1/4 mile long at the west end of the bay. The location of the low water line was estimated.

There is a large grassy valley extending south and southeast of Urilia Bay which is principally drained by a fair sized stream, Bear Creek. A long narrow valley extends south from Marchand Cove and is drained by a small clear stream, Dead Horse Creek.

Murre Island is a narrow rocky outcrop approximately 300 meters long and 105 ft. high, with steep sides which can only be scaled on the south side. The top is covered with a good growth of grass and affords a fine nesting place for sea birds.

Eagle Rock is a tall pinnacle rock about 67 ft. high. It is not a prominent landmark except at close range because it blends in with its background.

#### CONTROL

This survey is based on a scheme of Second-Order Triangulation executed by the GUIDE in 1939. The Unalaska Datum was used. The positions were plotted from the unadjusted field computations.

#### SURVEY METHODS

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



### CLOSING ERRORS OF TRAVERSES

Only one long traverse was run on this sheet from  $\Delta$  URILIA- 1939 to  $\Delta$  BIG DUNE-1939, a distance of 2.0 statute miles. The closing error was 6 meters in distance and zero meters in azimuth. ✓

### FORM LINES AND ELEVATIONS

The form line interval on this sheet is 100 ft. ✓

### JUNCTIONS

Satisfactory junctions were made with sheets "D" to the west and "F" to the east. ✓  
T-6683 (1939) ✓  
T-6778 (1940)

### GEOGRAPHIC NAMES

Cape Mordvinof - This name taken from chart. ✓

Urilia Bay - This name taken from chart. ✓

Thumb Point - A rocky formation projects from the slope of the bluff on the point and has the appearance of a thumb. ✓

Marchand Cove - Named after an officer on the GUIDE (now deceased) who made the first hydrographic survey of this cove. ✓

Murre Island - From the birds of that name that nest on the island. ✓

Eagle Rock - So named because an eagle can frequently be seen perched on the tip of this rock. ✓

Dead Horse Creek - Named after a horse that was being used by the topo party. The horse fell down a steep bank into this creek and was killed.

Bear Creek - This name was suggested by a huge bear which was seen by the topo party in the vicinity of this creek.

If these features have local names they were not known to the topographer.



COMPARISON WITH HYDROGRAPHIC SHEETS AND CHARTS

The heights of rocks awash located on this sheet were compared with those on Hydro Sheet No. <sup>H-6623</sup>23-1939-40, and found to be in close agreement. The scale of the chart covering this area is so small that a comparison is impractical.

LANDMARKS

There are several landmarks on Cape Mordvinof which are recommended for the chart:

MURRE ISLAND.  
EAGLE ROCK.  
△ PAP-1939.  
△ MAM-1939.  
△ SHOL-1939.

DECLINATOIRE OBSERVATIONS

Declinatoire observations were made at three stations. There was no indication of any appreciable local magnetic attraction in this area.

STATISTICS

Statute miles of shoreline - - - - - 10.8  
Statute miles of lagoon and river shoreline - 1.6  
Area in square statute miles - - - - - 32.1

NOTE:

This sheet was inked by C. A. Schoene with the following exceptions and then turned over to the Oakland Processing office for completion:

The intermediate form lines.

Lettering the names of the topographic stations and signals.

Inking the parallels and meridians and lettering the degrees and minutes on them.

Projection data in the lower <sup>left</sup>~~right~~ hand corner. ✓

Cleaning the sheet. ✓

Respectfully submitted,

*Charles A. Schoene*

Charles A. Schoene,  
Aid, C. & G. Survey.

T. 6777

Topographic Sheet Field Letter "E"- 1939-40 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

1		U.S. G-B
2		545640
3	Do not int pending decision of U.S. G-B	"
4	"	"
5	"	"
6	"	"
7		545640 U.S. G-B
8		" U.S. G-B
9	"	"
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GEOGRAPHIC NAMES  
Survey No. 16777

GEOGRAPHIC NAMES											
Survey No. 16777											
Name on Survey											

Names Underlined & red approved  
by L. Heck 5/5/42

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTO STAT OF~~

~~No. 11~~

No. T T6777

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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22			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	R. W. Knox
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1/15/42



DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

REGISTER NO. 6777

Field No. E

Aleutian Islands; Unimak Island; Cape Mordvinof  
Surveyed August 1939, May and June 1940; Scale 1:20,000  
Instructions dated March 8, 1939 (GUIDE)

Plane Table Survey

Aluminum Mounted

Chief of Party - E. W. Eickelberg  
Surveyed and inked by - C. A. Schoene  
Reviewed by - J. A. McCormick, April 30, 1942  
Inspected by - H. R. Edmonston, May 5, 1942

1. Adjoining Surveys

Satisfactory junctions were effected with T-6683 (1939) on the west and with T-6778 (1940) on the east.

2. Previous Surveys

The Coast and Geodetic Survey has not previously surveyed this area.

3. Comparison with Chart 8860 (New Print of 2-3-1942)

Shoreline charted in this area originates with H-6623 (1939-40), contemporary hydrographic survey. Small errors in transfer of topography from the present survey to H-6623 have been corrected but none were of sufficient magnitude to affect the small-scale chart.

4. General Comment

Field inking of rock detail required considerable office revision. Standard practice is to enclose a definitely located rock awash with a dotted circle. Several field parties persist in dashing the circles. In the present instance, the combination of dashed circle with a rock symbol from which the center had been omitted gave the effect of a very small, poorly drawn reef. Elevations of bare rocks were in black without parentheses. They were changed to red figures in parentheses.

Field Letter 4 of 1935 requires that geographic names be penciled (not inked) by the field party. Regardless of the fact that certain names are known to have

been approved, they still should be left in pencil. Titles of the various sheets are usually comprehensive enough that general names like Unimak Island and Bering Sea can be omitted.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

None.

7. Superseded Surveys

None.

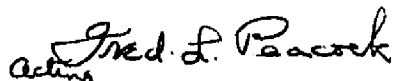
Examined and approved:



Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal  
Surveys