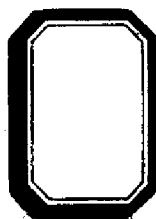


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Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: ALASKA

11-5613

DESCRIPTIVE REPORT.

TOPOGRAPHIC Sheet No. "B" **4480**

LOCALITY:

WRANGELL NARROWS

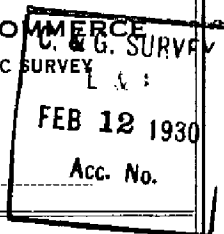
NORTH END

PETERSBURG

1929

CHIEF OF PARTY:

E. W. EICKELBERG



# DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "B"

## WRANGELL NARROWS, PETERSBURG, ALASKA

AUTHORITY: Director's instructions dated February 19, 1929. H. A. Cotton, Chief of Party.

EXTENT: This sheet includes the topography of Wrangell Narrows from Latitude  $56^{\circ} 44'$ , Longitude  $132^{\circ} 56'$ , to the north end of the narrows, Latitude  $56^{\circ} 50'$ , Longitude  $132^{\circ} 56'$ .

SURVEY METHODS: All stationary aids to navigation, such as lights and beacons, were located by triangulation and their positions are plotted on the sheet. Buoys were located by three or more planetable cuts. Buoy number 22 was located by sextant angles. (volume 8, page 16, Sheet # 5). This position is plotted on the topographic sheet.

A traverse was run from GRAIN to LAST and closed back on GRAIN with no error, so that no adjustment was necessary. All other signals were located by three or more intersecting planetable cuts.

The shoreline was transferred from the photostat to this sheet and was checked in various places to determine its accuracy. No change in the shoreline was found, and it should be considered correct. The shoreline is shown in pencil, except the low water line actually located, which is shown in ink.

Some changes have occurred along the waterfront at the town of Petersburg and these changes are shown in ink. All buildings which might be used to aid the navigator cruising these waters are shown on the sheet in ink. All roads and streets were located by planetable and are shown in ink.

Magnetic declination was observed at two triangulation stations with declinoire No. 110. The index correction for this declinoire as compared with declino-meter No. H.-12, was found to be plus  $0^{\circ} 10.8'$ . See comparisons at triangulation station FAST, Sheet "F", and triangulation station DEVIL, Sheet "G".

The low water line on this sheet is located at the mouths of streams where the sounding party were unable to locate it. The remainder of the low water line is best determined from the hydrographic sheet of this area.

An up to date map of the town of Petersburg was not available so all streets were located with the planetable.

Miles of low water line = 4.6

Miles of roads = 9.0

Respectfully submitted,

*J. C. Partington*  
Topographer.

Approved and forwarded,

*E. W. Eckelberg*  
Chief of Party.

*2*

## LIST OF PLANETABLE POSITIONS ON SHEET "B"

WRANGELL NARROWS, PETERSBURG, ALASKA

STATION	LAT.	D.M.	LONG.	D.P.	REMARKS
LAST	56° 48'	(369) 1487	132° 55'	(779) 239	Pole signal.
RAG	56 49	(1838) 18	132 55	(504) 514	Pole signal.
CAB	56 49	(1653) 203	132 55	(407) 611	Letter "B" of cable crossing sign.
BAN	56 49	(1302) 554	132 56	(980) 38	Pole signal.
NER	56 49	(370) 1486	132 56	(413) 605	Pole signal.
CHIM	56 49	(1614) 242	132 56	( 60) 958	Small metal chimney.
POLE	56 49	(1765) 91	132 58	(607) 411	White flag pole.
TALL	56 48	( 107) 1749	132 57	(638) 380	Taller one of two chimneys on cannery dock.
FLAG	56 48	(146) 1710	132 57	(788) 230	Flag pole in front of high school.
COAL	56 48	(422) 1434	132 57	(284) 735	Chimney on coal dock.
OIL	56 48	(1104) 752	132 58	(385) 633	North gable of building on Union Oil dock.
FER	56 47	(903) 953	132 58	(286) 732	Whitewash.
DOT	56 47	(1195) 661	132 58	(385) 634	"
GUL	56 47	(1146) 710	132 59	(868) 151	"
LOS	56 47	(1716) 140	132 59	(902) 117	"
INK	56 46	(414) 1442	132 59	(949) 70	"

STATION	LAT.	D.M.	LONG.	D.P.	REMARKS
DAL	56° 46'	(975) 881	132° 59'	(963) 56	Whitewash.
CUP	56 46	(825) 1031	132 57	(242) 777	Cupola on small schoolhouse.
STACK	56 46	(1449) 407	132 57	(346) 673	Chimney on sawmill dock.
TON	56 45	(651) 1205	132 58	(252) 767	Whitewash.
WHITE	56 45	(814) 1042	132 57	(750) 270	"
PAR	56 44	( 18) 1838	132 58	(552) 468	"
WASH	56 45	(1602) 254	132 56	(180) 840	"
GAB	56 44	(747) 1109	132 56	(578) 442	Gable of large building on Mountain Point Cannery dock.
STUMP	56 44	(1445) 397	132 56	(876) 144	Whitewashed stump.
PILE	56 43	(855) 1001	132 57	(779) 241	
TREE	56 43	(1320) 536	132 55	(179) 841	

LIST OF BUOYS  
TO ACCOMPANY TOPOGRAPHIC SHEET "B"  
WRANGELL NARROWS, PETERSBURG, ALASKA

NAME	LAT.	D.M.	LONG.	D.P.	REMARKS
# 28	56° 49'	(784) 1092	132° 55'	(45) 972	Flashing red, bell.
# 26	56 49	(869) 987	132 56	(876) 141	Red spar.
# 24 A	56 49	(1204) 652	132 56	(246) 772	Red nun.
# 17	56 48	(116) 1740	132 57	( 68) 950	Black can.
# 24	56 48	(713) 1143	132 58	(418) 600	Red nun.
# 22	56 48	(1460) 496	132 59	(957) 61	Red nun.
# 13	56 47	( 28) 1828	132 59	(906) 112	Black spar.

STATISTICS TO ACCOMPANY TOPOGRAPHIC SHEET "B",

WRANGELL NARROWS, ALASKA.

Area surveyed in square statute miles	0.0
Length of low water line in statute miles	4.6
Length of shoreline of rivers in statute miles	0.0
Length of shoreline of creeks in statute miles	0.0
Length of shoreline of ponds in statute miles	0.0
Length of roads in statute miles	9.0
Scale of Sheet "B"	1:10,000






APPROVAL SHEET FOR TOPOGRAPHIC SHEET "B"

WRANGELL NARROWS, S. E. ALASKA

This sheet, which is a revision survey, is forwarded and approved.

The work on this sheet was accomplished under Lieutenant H. A. Cotton, Hydrographic and Geodetic Engineer, before I assumed command.



E. W. Eickelberg,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

4480

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. 4480

REGISTER NO. **4480**

State Alaska

General locality Frederick Sound  
~~Wrangell Narrows~~

Locality Petersburg and North end of Wrangell Narrows  
~~North end, Petersburg~~

Scale 1:10,000 Date of survey May, 1929

Vessel U.S.C. & G.S.S. Explorer

Chief of Party H.A. Cotton

Surveyed by J.C. Partington

Inked by J.C. Partington

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated February 19, 1929

Remarks: \_\_\_\_\_