

4484

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Alaska

11-5013

DESCRIPTIVE REPORT.

Topographic Sheet No. 4484

LOCALITY:

Mitkof Island

Wrangell Narrows-South

Ledge to Green Pt

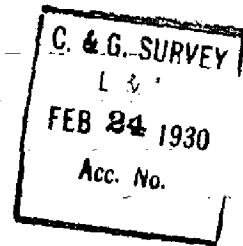
1929

CHIEF OF PARTY:

H. A. Cotton

4484

FEB 24 11 12 AM '30



DESCRIPTIVE REPORT

TOPOGRAPHIC SHEET "A"

S. E. ALASKA

WRANGELL NARROWS

SOUTH LEDGE to GREEN POINT

1929

E. W. EICKELBERG, CHIEF of PARTY, C. & G. S.

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "A"

WRANGELL NARROWS, ALASKA

AUTHORITY:
February 19, 1929.

Director's instructions, dated

EXTENT: This sheet includes a revision of the topography of Wrangell Narrows, from Latitude $56^{\circ} 37'$, Longitude $132^{\circ} 58'$, to Latitude $56^{\circ} 43'$, Longitude $132^{\circ} 57'$.

GENERAL DESCRIPTION: The general appearance of the coast line is the same as shown on photostat # 3110 of this area. The shoreline between high and low water is composed of mud and small boulders. Back of the high water line the ground is heavily wooded, and the trees grow down to the water's edge.

LANDMARKS: All stationary aids to navigation were located by triangulation and their positions are plotted on the sheet. This includes beacons and lights.
All buoys were located by the hydrographic party by sextant fixes.

CONTROL: The triangulation stations shown, furnished ample control for this work, and are the stations of the U. S. Engineers.

SURVEY METHODS: The survey was accomplished by the usual plane-table methods. All topographic stations were located by three or more intersecting cuts. The low water line was located by roding it in at the time of low water. No traverses were run.

The shoreline was located by rod readings from setups at triangulation station. Some changes were found and the revised shoreline is shown in ink. The shoreline transferred from the photostat is shown in pencil.

The topographic stations and low water line were located by Lieutenant (j.g.) P. C. Doran. The shoreline was located by Lieutenant (j.g.) J. C. Partington.

The following reefs were investigated at a minus 3 foot tide; South Ledge, North Ledge, Colorado Reef, and the reef north-east of Danger Point Light. Each of these reefs were verified and the amount each bares at Mean Lower Low Water is given.

The rock awash shown on photostat # 3110 and on chart # 8170 in Latitude $56^{\circ} 38' 958$ m., Longitude $132^{\circ} 55' 70$ m. was not found during the investigation. It is the opinion of the writer that this rock does not exist and should be taken from the chart.

(Page 2)

Magnetic observations were made with the declinoire at Vexation Point Beacon, and at topographic station HOT. The index correction for declinoire No. 110 is plus $0^{\circ}10.8'$. See comparisons with compass declinometer No. H-12 at station FAST, Sheet "F" , and station DEVIL, Sheet "G".

The inked low water line shown on this sheet was determined as closely as possible at the zero stage of tides, by the usual plane table methods. A special effort was made to be on the ground at mean lower low waters.

Respectfully submitted,

J. C. Partington
Topographer.

Approved and forwarded,

E. W. Eckelberry
Chief of Party.

STATISTICS

TO ACCOMPANY TOPOGRAPHIC SHEET "A"

Area surveyed in square statute miles..... = 0.0
Length of shoreline in statute miles..... = 15.4
Length of low water line in statute miles..... = 13.2
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..... = 0.0

Scale of Sheet "A" = 1:10,000

LIST OF SIGNALS
TO ACCOMPANY TOPOGRAPHIC SHEET "A"

WRANGELL NARROWS, ALASKA

STATION	LAT.	D.M.	LONG.	D.P.	REMARKS
NER	56° 42'	(1100) 756	132° 57'	(671) 350	Banner.
NAL	56 42	(1365) 491	132 56	(866) 155	"
Bar	56 41	(528) 1328	132 57	(694) 327	"
Lam	56 41	(1264) 592	132 57	(846) 175	"
TREE	56 40	(76) 1780	132 55	(172) 849	
GAB	56 40	(341) 1515	132 55	(161) 860	Gable of small house.
BIL	56 40	(1059)✓ 797 ✓	132 55	(82)✓ 940 ✓	Gable of building.
PILE	56 40	(1617) 239	132 55	(252) 769	Piling.
SIK	56 39	(307) 1549	132 55	(122) 900	Banner.
HIS	56 39	(1844) 12	132 56	(983) 39	"
Alf	56 38	(890) 966	132 56	(1022) 01	Whitewashed pile.
IN	56 38	(1790) 66	132 57	(846) 177	Whitewashed rock.
HOT	56 37	(121) (1735)	132 56	(910) 113	" "
YET	56 37	(652) 1204	132 56	(186) 837	Banner.
COP	56 37	(1486) 370	132 57	(732) 291	"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
4484

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. "A"

REGISTER NO. 4484

State Alaska

General locality ~~Wrangell Narrows~~ Mitkof Island

Locality Wrangell Narrows
South ledge to Green Point

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

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

Chief of Party H.A. Cotton

Surveyed by P.C. Doran and 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: