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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton., Director	
<div>U. S. G. S. L. S. A. MAR 31 1930 U. S. G. S.</div>	
State: <u>ALASKA</u>	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. "D" 4509
LOCALITY	
Mitkof Island <u>S. E. ALASKA</u>	
WRANGELL NARROWS	
(South Entrance)	
from Sumner Strait	
1929	
CHIEF OF PARTY	
E. W. Eickelberg	

DESCRIPTIVE REPORT

TO ACCOMPANY SHEET "D"

SOUTH ENTRANCE, WRANGELL NARROWS

AUTHORITY:
February 19, 1929.

Director's instruction dated

LIMITS: The southern end of this survey begins at triangulation station KOF2 (1929), Latitude $56^{\circ} 30.3'$, Longitude $132^{\circ} 55'$, extending northward to Latitude $56^{\circ} 33.8'$, Longitude $132^{\circ} 58.2'$ and westward to Longitude $133^{\circ} 02.2'$.

GENERAL DESCRIPTION: The shore line between high and low water is composed mostly of boulders and gravel, with mud and sand in some places. The southern end of the survey has some few meters of bold faced shore line with a short reef visible at low water.

Back of the high water line the ground is heavily wooded, with trees growing very close to the water's edge.

LAND MARKS: All stationary Aids to Navigation were located by triangulation. There are two in number.

CONTROL: The control for this survey was furnished by U. S. E. triangulation stations and U.S.C. & G.S. triangulation stations.

SURVEY METHODS: This survey was accomplished by regular plane table methods. The shore line was run in by rod readings, and any visible off-lying features were located and noted on the sheet.

This survey was revision work, and the changes noted on the sheet. The previous shore line as shown by photostat # 3112 was left in pencil, the present survey shown by the inked line.

The shore line was located by rod readings, the entire survey consisted of a number of very short traverses, each starting and ending being on a triangulation station, with the exception of the terminus of the shore line at the south-western end of the survey. Station JAN was located by several cuts and a junction determined with Sheet "H". There were no discrepancies.

At the south-eastern end of the survey, a signal was erected and its position determined by triangulation. The termination of the shore line at KOF2 (1929) was without discrepancies.

The objects used as signals in hydrography were located by three or more cuts or by rod readings.

Form lines were checked at various stations and found to agree with those shown on photostat # 3112.

CHANGES IN SHORE LINE:

At the south-eastern end of the present survey, the shoreline was found to differ from the previous survey by 30 meters, or more. In the vicinity of station KER and station LEF, the present survey shows a building out. The shoreline at this place is of sand and gravel and could possibly have been changed due to deposits of sand and gravel.

In the vicinity of station TY and triangulation station KOF2 (1929), the shore line is mostly ledge formation, and the writer does not believe that the wear of the water could have accomplished the amount of change shown. However, there is a possibility that the choice of one topographer would vary to the shown extent with that of another, in distinguishing the high water line from the low water line.

Between station AL and station BOB, as also between triangulation station HUM (1910), and station LI, the change shown could possibly be caused by erosion due to wash of passing steamers.

At station LAP, a building-out has taken place, which is probably due to deposits dropped by the rushing waters of a creek at that spot.

MAGNETICS:

Magnetic observations were made at triangulation station ISLE, triangulation station FIRST, and at triangulation station MOD, with a plane table declinoire. A comparison was made on Sheet "C", using the same declinoire and a compass declinometer, and the index correction computed and shown at each station where observations were made.

PLANE TABLE POSITIONS:

A list of objects located for use in hydrography is submitted with this report.

Respectfully submitted,

Leonard C. Johnson
Leonard C. Johnson,
Jr. H. & G. E.

This sheet has been examined and is approved.

E. W. Eickelberg
E. W. Eickelberg,
Chief of Party, C. & G. S.

STATISTICS SHEET.

Area surveyed in square statute miles	0.0
Length of shore line in statute miles	15.0
Length of low water line in statute miles	10.0
Length of shore line of rivers in statute miles	0.0
Length of shore line of creeks in statute miles	0.0
Length of shore line of ponds in statute miles	0.0
Length of roads in statute miles	0.0
Scale of sheet	1-10,000

TOPOGRAPHIC SHEET "D"

T-4509

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
BUT	W. W. RK.	56° 33'	699	132° 57'	(675) 350
SLU	W. W. RK.	56 33	1099	132 58	(967) 58
LI	W. W. RK.	56 33	210	132 57	(686) 339
HAL	W. W.	56 33	225	132 58	(1024) 1
TOP	W. W.	56 32	(387) 1469	132 58	(845) 180
POT	W. W.	56 32	(728) 1128	132 58	(958) 67
BEN	W. W. RK.	56 33	1235	132 57	(634) 391
TUB	Upright drift wood.	56 33	1016	132 57	(659) 366
POD	Banner	56 33	490	132 57	(683) 342
DE	Small ban- ner (low)	56 32	(209) 1647	132 57	(580) 446
CEM	Banner.	56 32	(305) 1551	132 57	(524) 502
BUR	Wooden cross.	56 32	(421) 1435	132 57	(676) 350
HEL	Banner.	56 32	(1007) 849	132 57	(751) 275
HAR	W. W. tree.	56 32	(609) 1247	132 57	(729) 297
DIB	Banner on tree.	56 32	(1114) 742	132 57	(531) 495
MAN	W. W. Root.	56 32	(1120) 736	132 58	(783) 243
OL	W. W. Pole.	56 32	(1148) 708	132 58	(578) 448
DO	W. W.	56 32	(292) 1564	132 58	(37) 989

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
RAT	W.W. Stump.	56° 32'	(553) 1303	132° 58'	(85) 941
ME	W. W.	56 32	(661) 1195	132 58	(149) 877
CRAB	Tripod.	56 32	(980) 876	132 58	(272) 754
SIC	W.W. Tree.	56 32	(134) 1722	132 59	(753) 273
B	Crx. sticks.	56 32	(228) 1628	132 59	(601) 425
PIN	W.W. Pole.	56 32	(476) 1380	132 59	(378) 648
CLAM	Tripod.	56 32	(607) 1249	132 59	(452) 574
MUL	Banner	56 32	(757) 1099	132 59	(456) 570
LAP	W. W.	56 32	(937) 919	132 59	(413) 613
BUG	W. W.	56 32	(1230) 626	132 59	(472) 554
LOB	Tripod.	56 32	(1187) 669	132 59	(799) 227
PEN	W. W.	56 32	(1401) 455	132 59	(867) 159
TOR	Pole	56 32	(1545) 311	132 59	(967) 59
CUL		56 32	(1590) 266	132 59	(799) 227
WAL	Rag.	56 32	(1748) 108	132 59	(954) 72
LEE		56 32	(1789) 67	132 59	(698) 328
RE	W. W.	56 32	(1832) 24	132 59	(609) 417

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
VO	Cross sticks.	56° 31'	(35) 1821	132° 59'	(834) 192
RUS	W. W.	56 31	(45) 1811	132 59	(908) 118
PAR	W. W.	56 31	(106) 1750	132 59	(682) 344
GAY	W. W. Pole.	56 31	(192) 1664	132 59	(835) 191
I	W. W.	56 31	(406) 1450	132 59	(1026) 0
SEL	W. W.	56 31	(653) 1203	132 58	(214) 812
MOY	W. W. Ledge.	56 31	(846) 1010	132 58	(316) 710
DUM	W. W. Rock.	56 31	(1012) 844	132 58	(317) 709
SAL	W. W. Rock.	56 31	(1471) 385	132 58	(395) 631
CLIFF	W. W.	56 31	(1776) 80	132 58	(311) 715
BET		56 31	(97) 1759	132 57	(501) 525
MAY	W. W.	56 31	(369) 1487	132 57	(577) 449
GOT	Drift wood.	56 31	(1011) 845	132 57	(676) 350
E	Banner and W. W.	56 30	(272) 1584	132 56	(38) 988
AL	Banner	56 30	(524) 1332	132 56	(42) 984
BABE	W. W. Cliff	56 30	(889) 967	132 56	(330) 696
RUTH	W. W. Cliff	56 30	(956) 900	132 56	(482) 544

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
TRIS	W. W. pole.	56° 30'	(997) 859	132° 56'	(658) 368
SPE	Pole and targets.	56 30	(1027) 829	132 56	(782) 244
KER	Banner	56 30	(590) 906	132 56	(992) 34
LEF	Signal banner.	56 30	(825) 1031	132 55	(171) ---
TY	W.W. Boulder.	56 30	(940) 916	132 55	(488) ---
GRAVE	W.W. Cliff.	56 30	(1083) 773	132 55	(707) ---
TAR	W. W.	56 30	(237) 1619	132 58	(110) 916
WANT	Banner and W. W.	56 30	(435) 1421	132 58	(52) 974
FISH	(Sign)	56 30	(475) 1361	132 59	(1003) 23
NEW	2 signal banners.	56 30	(526) 1330	132 59	(977) 49
FROG	W. W.	56 30	(603) 1253	132 59	(791) 235
SLAT	Pole with slats.	56 30	(504) 1352	132 59	(252) 774
JOE	Signal banner.	56 30	(356) 1500	133 00	(1012) 14
PETE	W. W.	56 30	(245) 1611	133 00	(711) 315
JAN	Target.	56 30	(274) 1582	133 00	(436) 590
LIS	W. W.	56 31	(550) 1306	132 57	(599) 427
NEG	Banner	56 31	(1441) 415	132 57	(734) 292

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4509

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. "D"

REGISTER NO. 4509

State ALASKA

General locality S. E. ALASKA Mitkof Island

Locality South Entrance Wrangell Narrows from Sumner Strait

Scale 1:10,000 Date of survey June - July, 1929

Vessel EXPLORER

Chief of Party E. W. Eickelberg

Surveyed by L. C. Johnson

Inked by L. C. Johnson

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated February 19, 1929, 192

Remarks: