9576 9885

9885

9226

Diag Cht. No. 9302							
Form 504							
U. S. COAST AND GEODETIC SURVEY							
DEPARTMENT OF COMMERCE							
DESCRIPTIVE REPORT							
Type of Survey Topographic							
Field No. Ph-53 (49) Office No. T-9576, T-988							
LOCALITY							
State Alaska							
General locality St. Lawrence Island							
Locality Akeftapak Bay							
104 -							
<u>19A 50</u>							
CHIEF OF PARTY Fred. A. Riddell, Chief of Field Party Hubert A. Paton, Baltimore Photo. Office							
LIBRARY & ARCHIVES							

April 15, 1953

B-1870-1 (1)

T - 9576 79885

Project No. (II): Ph-58(49)

Quadrangle Name (IV):

Field Office (II): Portland, Oregon

Chief of Party: Fred. A. Riddell

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 4 May 1950 supplemented by letter dated 29 March 1951 from Acting Director to Comdr.

Copy filed in Division of Photogrammetry (IV)

Hubert A. Paton

.Method of Compilation (III): Air photographic (Multiplex)

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III): . 1.000

Date received in Washington Office (IV): 5-23-5-/ Date reported to Nautical Chart Branch (IV): 5-29-5-/

Applied to Chart No.

Date:

Date registered (IV): 3-17-53

1:25,000 Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): St. Lawrence, Id.

(Gambell)Astrolabe

NA 1927 (Unadjusted)

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Shoreline at MHW

Reference Station (III): Trail, 1950

XXIXXXX

Unadjusted (11111)

Plane Coordinates (IV):

State: ALASKA

Zone:

NORTHING - - 7,060,503-4

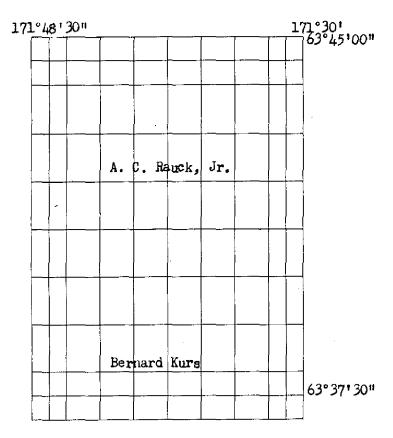
<u> EASTING 463,982.39 #</u>

Roman numerals indicate whether the Item is to be entered by (II) Field Party, (III) Photogrammetric Office,

Long.:

When entering names of personnel on this record give the surname and initials, not initials only.

M-2618-12(4)



Areas contoured by various personnel (Show name within area) (II) (III)

Form T-Page X 3

M-2618-12(4)

DATA RECORD

RAY H. Skelton II Field Inspection by (II): JACK S. CHAMBERLIN VICTOR E. SERENA

SHERIDAN D. JONES ROBERT S. TIBBETTS

Planetable contouring by (II): None

Date: June 1950

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Sept. 24, 1948 (Same as date of photography)

Projection and Grids ruled by (IV): T.L.J.

Nov. 1950

Projection and Grids checked by (IV):

Date:

Control plotted by (III): R.L.S.

Date: Dec. 1950

Control checked by (III): S.W.Trow

Date: Dec. 1950

Horizontal and vertical

A. C. Rauck, Jr. A. K. Heywood Control extension by (III):

Date: Jan. 1951

Jan. 1951

Planimetry A.C.Rauck, Jr.

Date: Jan. 1951 Feb. 1951

B. Kurs Stereoscopic Instrument compilation (III): Contours A.C.Rauck, Jr.

Date: Jan. 1951

B. Kurs

Feb. 1951

Manuscript delineated by (III): B. Wilson Date: Mar. 1951

Photogrammetric Office Review by (III): A. K. Heywood

Date: March 1951

Elevations on Manuscript

Date:

checked by (II) (III):

A.K.Heywood

March 1951

Camera (kind or source) (III):

		PHOTOGRAPHS (III)	
Number	Date	Time	Scale	Stage of Tide
STL 6-100 - STL 6-107	8-24-48		1:20,000	(Time of photo
" 11-5 - " 11-7	81		18	not available)
" 11-14 - " 11-16	[2]		ti	•
" 11-31 - " 11-37	11		Ħ	
" 11-81 - " 11-88	tt		tt	
" 11-94 - " 11-101	11		ú	

From Predicted Table of Tides

Reference Station: DUTCH HARBOR

Subordinate Station: ST. LAWRENCE ISLAND, ALASKA

Subordinate Station:

Washington Office Review by (IV): L. Martin
M. Webber
Final Drafting by (IV): M. Day

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

39 Land Area (Sq. Statute Miles) (III):

21 Shoreline (More than 200 meters to opposite shore) (III): 0 Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 5 Number of Temporary Photo Hydro Stations established (III): 4

Remarks: * This figure given by compilation office.

Dirunal

Rati	o of	Mean	Spring
Ran	ges	Range	Range
		2.2	3.7
0.	5	1.3	1.9

Date: 3-10-52

Date: //- 25-52

Date:

Date:

* Identified: 6 Identified:

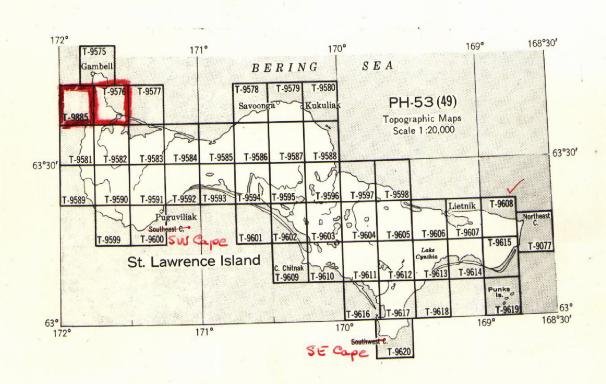
Recovered:

Recovered:

TOPOGRAPHIC MAPPING PROJECT PH-53 ALASKA - Bering Sea, St. Lawrence Island

Compiled by the U. S. Coast and Geodetic Survey at scale of 1:20,000 from U. S. Navy 1:20,000 scale single-lens photographs taken August 1948.

(Refer to U. S. Navy mosaic index)



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet Sq. Miles No. Area	Sheet Sq. Miles No. Area	Sheet Sq. Miles No. Area
Т-90776	T-959067	T-960649
T-95757	T-959167	T-960739
T-957639	T-959252	T-960828
T-95772	T-959342	T-96093
T-957816	T-959456	T-961040
T-957936	T-959566	T-961164
T-95807	T-959664	T-961266
T-958124	T-959741	T-961353
T-958263	T-959816	T-961438
T-958360	T-959921	T-961544
T-958456	T-960028	T-961612
T-958550	T-96012	T-961754
T-958667	T-960231	T-96185
T-958767	T-960365	T-96191
T-958853	T-960465	T-962019
T-958918	T-960564	T-98853
1-930910		TOTAL 1836

SUMMARY FOR T- 9576, T9885

For a temographic survey is one of a series of 49 quadranties, each 72 minutes in latitude and 15 minutes in Longitude at 1:20,000 scale that cover ST. LAWRENCE TO GAND, ALASKA.

Take TERING SEA island is approximately 100 miles long and averages 20 miles in width and has not been providedly mapped at this large scale.

ST. LAWERINGE ISLAND is within the CAPE NOME DISTRICT TO the SECOND JUDICIAL DIVISION.

The maps of this island are to be published at 125,000 andle by the Army Map Service.

For information conserving the project in its broader of profit are the project completion report which will include: along other items, two detailed field reports - a proliminary report detail 21 September 1950 and a project report detail duranted by Fred A. Riddell.

Who registered data to be permanently filed in the Laranz Archivan under T=9576 will include a cloth-mounted kinhageaphic print of the map manuscript at 1;20,000 scale togrammy with a cloth-mounted published color print at 1:20,000 scale and the original descriptive report.

TOR	FROM GRID OR PROJECTION LIX (N METERS FORWARD (BACK)																				Pag	ge 7	makeny.	11-20-50
SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)														the NA 1927			Litudo				l to	-70.60 per	
1:20,000	DATUM														to th	٠.		s to L	61"	707	76		1.48 -7.7-7	
SCALE OF MAP 1:	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	(339.6)	(89.5)	(1633.3)	(322.5)	(1233.8)	(191.8)	(812.8)	(278.9)	(1527.4)	(193.6)	(529.5)	(148.7)		se solues	relowing	O	Consestion	- 4.	ナーナ	1 3.	,	Long Fude	CHECKED BY: S.W.
SCALE	DISTANCE FR OR PROJECTIC FORWARD	1518.3	733.9	224.6	501.7	624.1	633.3	1045.1	9.975	330.5	632.5	1328.4	677.6		above	7 20	0	erde			Ē		\$ 33 33	
3(49)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	49.032"	53.478"	07.252	30.522	20.155	46.052	33.751	39.727	10,672	45.944	42.898	102.64		yen the	use		whede	30,	45'	,00		tion he	1950
PROJECT NO. Ph-53(49)	LATITUDE OR y-COORDI		07	3 42		0†	43	39	32	38	32	16	47	١	hans	, 111		Long	0016	1110	1720	1	વ	Nov. 1
CT NO	LONGI	9 euce	de 171	63	1/.1	63	17.1	63	171	63	171	63	171		3	de	,,	\$				ı	3 3	DATE 14 NOV.
PROJE	DATUM	St Lawrence	Kambe II	Ξ	}	 	=	!	£	 	:		#					0				9	\mathcal{G}	
	SOURCE OF INFORMATION (INDEX)	ì		G-8801 Page 1		G-8801	rg. 1	G-8801	Page 1	G-8801	Page 5	G-8801	Page 5											
MAP T. 9576	STATION	1,000VO, 1950		(HOOP, 1950	PTRAIL, 1950		NASKOK WEST BASE,	1950	XCAPER, 1950		AGHSIT, 1950												TT = 3048005 WETER COMPUTED BY. L.G.R.

COMPILATION REPORT

T-9576 , T9885

FIELD INSPECTION REPORT

Refer to project report, part 1, bound under separate cover.

PHOTOGRAMMETRIC PLOT REPORT

This report was submitted with the descriptive report for Survey T-9575 and includes quadrangles T-9575 to T-9577.

31. DELINEATION

Refer to Photogrammetric Plot Report for quadrangles T-9575 to T-9577, item 22.

32. CONTROL

Refer to Photogrammetric Plot Report for quadrangles T-9575 to T-9577, item 22.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Extensive intermittent drains and ponds cover this quadrangle. Only those drains of prominence were shown. All ponds were shown where they were of draftable size.

35. SHORELINE AND ALONGSHORE DETAILS

The MHW line was delineated in the multiplex with the aid of "ticks" furnished by the field party on the contact photographs. Foul areas and offshore rocks are for the most part, office interpretation by analogy with those annotated by the field party.

36. OFFSHORE DETAILS

See above.

37. LANDMARKS AND AIDS

These are complete.

38. CONTROL FOR FUTURE SURVEYS

Form 524s are submitted with this report for five recoverable topographic stations. All were located by multiplex.

A list of recoverable topographic stations and the descriptions of the photo-hydro stations are included in paragraph 49 of this report.

39. JUNCTIONS

Junctions have been made to the north with T-9575, to the south with T-9581 and T-9582, and to the east with T-9577. There is no contemporary Survey to the west, T-9885, added later, junction satisfactory.

40. HORIZONTAL AND VERTICAL ACCURACY

This subject is fully discussed in the Photogrammetric Plot Report for T-9575-T-9577.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS map, scale 1:250,000, printed in 1949.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 9302, scale 1:534,076 at Lat. 60° 00', published in July 1945 and corrected to August 29, 1949. After completion of hydrographic survey this map should supersede all previous charts.

Items to be applied to nautical charts immediately:

None

Items to be carried forward:

None.

Respectfully submitted 23 May 1951

Albert K. Heywood

Cartographic Photo.

Approved and forwarded 12 June 1951

Hubert A. Paton, Comdr.,

Officer in Charge

GEOGRAPHIC NAME LIST

WAghnaghak Lagoon Agnisit Point (F9885 Agtapuk Point Akestapak Bay Akesta pax Bering Sea · 4 Dovelawik Bay . WIkoygak Creek · Kaghoopalik Point (T-9885)

Kavalghak Bay (T-9885)

Kavalghak Creek (T-9885) Maralrok Lan (on To 1885) Naskak Camp (759577) Nekeelit Point (7-9885) Wingeehak · / · "Ningeehak Beach . Winivahut Lake . Niyrakpak Lagoon · Wooynik Point upper right Singik Point (7-9885) Troutman Lake . Upakpak Point (TOPF5)

Names underlined in red are approved 3-7-52 L. Heck

49. NOTES FOR THE HYDROGRAPHER

The following is a list of recoverable topographic stations:

DUNE, 1950

CAB (CABIN, 1950) (PIK-hydro) On T9577

HUMP, 1950

TILT (ROCK, 1950)

WASH (BOULDER, 1950)

The following is a list of descriptions of photo-hydro stations:

CAB - East gable of cabin
TWO - " " " "
OUT - " " " "
PUK - NE gable

Special attention is called to the special volume, Part 2, of the project report containing "jumbo" size prints of topographic and hydrographic stations prepared for the use of the hydrographic party.

Donne 5x4 for these stations give the positions on the st. Laurence deland (Jambell) astrolabe dahum. Positions on registered copy are on NA 1927 datum.

50-PHOTOGRAMMETRIC OFFICE REVIEW CONTROL STATIONS __ 6. Recoverable horizontal stations of less 5. Horizontal control stations of third-order or higher-accuracy T 7. Photo hydro stations HTT 8. Bench marks than third-order accuracy (topographic stations) 9. Plotting of sextant fixes ______10. Photogrammetric plot report 11. Detail points ALONGSHORE AREAS (Nautical Chart Data) ____ 14. Rocks, shoals, etc. __ 18. Other alongshore physical features 🎞 shore cultural features PHYSICAL FEATURES 24. Contours in general features HI **CULTURAL FEATURES** BOUNDARIES 31. Boundary lines _ _ 32. Public land lines MISSELLANEOUS __ 35. Legibility of the manuscript 🔔 38. Field inspection protographs 🕸 41. Remarks (see attached sheet) FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have	been	applied	to t	the r	manuscript.	The
manuscript is now complete except as noted under item 43.						

Compiler	Supervisor
•	

43. Remarks: M-2623-12

Review Report T-9576, T9885 Topographic Manuscript March 10, 1952

62. Comparison with Registered Topographic Surveys .-

T-2337 (1898) is without scale or projection and covers the coastline around Norton Sound to Point Barrow as well as St. Lawrence Island. It was drawn by an Eskimo and is included in the Bureau Archives as a record of native geographic names and for historical reasons.

T-9576 is the first large scale topographic survey of the area.

63. Comparison with Maps of Other Agencies .-

St. Lawrence, Alaska, USGS, 1:250,000 1949

The Geological Survey map is on an independent astronomic datum.

Drainage, lakes, contours and other features are shown in greater detail on T-9576 than is possible at the scale of the above survey. The large scale variation precludes a detailed comparison.

64. Comparison with Contemporary Hydrographic Surveys .-

There are no contemporary hydrographic surveys of this area as of this date.

65. Comparison with Nautical Charts .-

Chart 9302 1:1,534,076 October 1951

The large scale variation precludes comparison.

66. Miscellaneous.-

(a) Contours.-Original compilation instructions for this project required a 25-foot supplementary contour interval in addition to the regular 50-foot interval.

After examination of several completed compilations it was decided to show only such supplementary contours as would give significant information or express certain topographic features not indicated by the 50-foot interval contours.

(b) <u>Projections.-The original compilation was made on</u> the St. Lawrence Island Astrolabe horizontal datum.

New projections have been ordered and after review this compilation is to be transferred to NA 1927 datum. The registered vault copy and published copies will be on this latter datum.

- (c) Computations .- As of this date the positions of the control stations to be shown on the new projection (mentioned in item (b) above) are not available. Corrections and adjustments for the new datum have not been computed. Corrections have been supplied. See p. 7.
- (d) Classified Information.-All data pertaining to this manuscript were the onclassified tion when received and have been identified during review. classified

67. Adequacy of Manuscript .- .

This topographic survey complies with project instructions and National Standards of Map Accuracy.

Reviewed by:

APPROVED

Chief, Review Section,

Div. of Photogrammetry

Chief, Div. of Charts

Surveys