11472 THRU 11477

11472 THRU 11477

Diag. Cht. Nos. 8859 & 8860-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-92 Office No. T-11472 thru T-11477

LOCALITY

State Alaska

General locality Alaska Peninsula

Locality Izembek Bay - Moffet Bay - Cold Bay

19 52-56

CHIEF OF PARTY

N.E.Sylar, Chief of Field Party
F.Natella, Portland Photo. Office

LIBRARY & ARCHIVES

DATE April 12, 1961

COMM-DC 61300

T-11472 thru T-11477

Project No. (II): Ph-92 Quadrangle Name (IV):

Field Office (II): Thornbrough Air Force Base
Cold Bay, Alaska
Chief of Party: Norman E. Syler

Photogrammetric Office (III): Portland, Oregon
Officer-in-Charge: Fred Natella

Instructions dated (II) (III): 4/14/52 & 5/2/52 (Supp) Field
8/16/54 & 11/29/54 (Ph-40) Office
20 Aug 1956 - Revision of T-1477

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

MAR 1 1955

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):
Mean sea level except as follows: X
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

Reference Station (III): see reverse side

Lat.: Long.: Adjusted
Unadjusted

Plane Coordinates (IV): State: Zone:

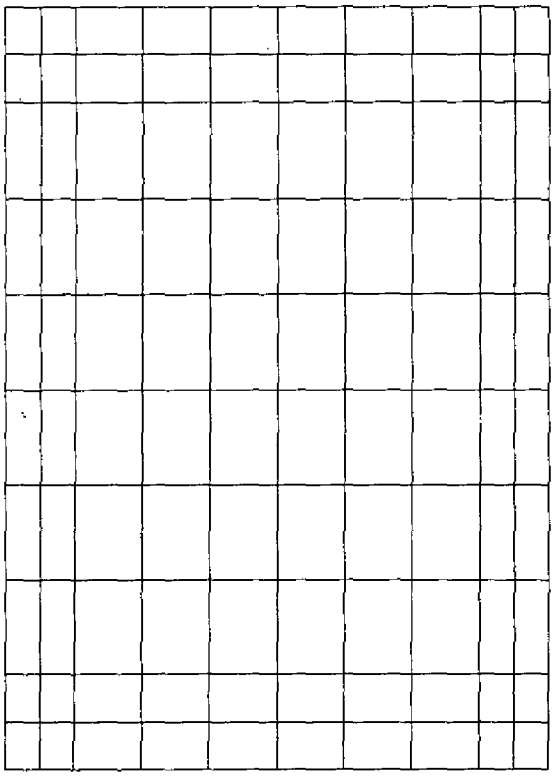
Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

T-11472	OPERL N. E. BASE, 1952				
	Lat.	55°	24'	05.798"	(179.3m)
	Long.	162°	44'	30.247"	(532.3m)
T-11473	MOFFET, 1952				
	Lat.	55°	27'	20.095"	(621.5m)
	Long.	162°	34'	41.558"	(730.4m)
T-11474	OPERL S. W. BASE, 1952				
	Lat.	55°	22'	29.206"	(903.2m)
	Long.	162°	49'	03.262"	(57.4m)
T-11475	HANSON (USE) 1952				
	Lat.	55°	18'	31.201"	(964.9m)
	Long.	162°	30'	00.546"	(9.6m)
T-11476	PRONE, 1952				
	Lat.	55°	11'	45.739"	(1414.4m)
	Long.	163°	03'	47.921"	(847.7m)
T-11477	COW, 1923				
	Lat.	55°	12'	06.463"	(199.9m)
	Long.	162°	41'	53.260"	(942.0m)

32757



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

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Charles H. Bishop
Harry R. Moore
Alfred C. Holmes

Date: May to Aug. 1952
1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): During May and August 1952 on photographs taken in 1942 and 1943 and on K-20 photographs. Transferred to 1952 and 1954 photographs by use of stereoscope and then compiled.

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): J. E. Deal

Date: 10/22/54

Control checked by (III): J. L. Harris

Date: 10/29/54

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris and J. E. Deal

Date: 11/22/54

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III): see reverse side

Date:

Photogrammetric Office Review by (III): see reverse side

Date:

Elevations on Manuscript checked by (II) (III): J. E. Deal

Date: 2/10/55

COMM-DC-57842

	COMPILATION (Shoreline)		COMPILATION (Interior)		PHOTO. OFFICE REVIEW	
T-11472	L. L. Graves	12/22/54	L. L. Graves	1/24/55	J. E. Deal	2/3/55
T-11473	D. N. Williams	12/31/54	J. E. Deal	1/10/55	J. E. Deal	1/12/55
T-11474	D. N. Williams	12/7/54	J. E. Deal	1/20/55	J. E. Deal	1/21/55
T-11475	C. C. Wiebe	1/6/55	C. C. Wiebe	1/26/55	J. L. Harris	1/3/55
T-11476	D. N. Williams	1/3/55	J. E. Deal	1/28/55	J. E. Deal	1/31/55
T-11477	L. L. Graves	12/20/54	L. L. Graves	1/24/55	J. E. Deal	2/2/55

Camera (kind or source) (III): U. S. Coast and Geodetic Survey, 9-lens, 8.25" focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide

see reverse side

Tide (III)

	Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
**DUTCH HARBOR, For North Shore			
Reference Station: *KODIAK, For COLD BAY AREA			
Subordinate Station: Grant Pt., Izembek Bay, Alaska		3.8	5.2
Subordinate Station: COLD BAY, Alaska	0.8	5.2	7.1

Washington Office Review by (IV): J. Steffler Date: June 1960

Final Drafting by (IV): Portland Photogrammetric Office Date: Dec. 54 - Feb. 55

Drafting verified for reproduction by (IV): J. Steffler Date: June 1960

Proof Edit by (IV): J. Steffler Date: Oct. 1960

Land Area (Sq. Statute Miles) (III): 80

Shoreline (More than 200 meters to opposite shore) (III): 214 statute miles

Shoreline (Less than 200 meters to opposite shore) (III): 66 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): Recovered: Identified:

Number of BMs searched for (II): Recovered: Identified:

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III): 20

Remarks:

M-2618-12(4)

29

Number	Date	Time	Scale	Stage of Tide
37475 thru 37477	6/11/52	15:35	1:20,000	-0.7 below M.L.L.W.
37480 " 37486	"	15:45	"	-0.8 ft. below M.L.L.W.
37500 " 37504	"	16:09	"	* 5.5 ft. above M.L.L.W.
				**-1.0 ft. below M.L.L.W.
37507 " 37509	"	16:13	"	-1.0 ft. below M.D.L.W.
38607 " 38608	8/13/52	13:30	"	* 2.5 ft. above M.L.L.W.
38429 " 38432	7/23/52	16:05	"	at M.L.L.W.
38434 " 38435	"	16:15	"	at M.L.L.W.
38438 " 38441	"	16:25	"	at M.L.L.W.
38649 " 38654	8/13/52	16:02	"	* 4.3 ft. above M.L.L.W.
38914 " 38915	8/29/52	12:40	"	0.9 ft. above M.L.L.W.
45793 " 45799	8/14/54	13:38	"	-0.2 ft. below M.L.L.W.
45800 " 45803	"	13:48	"	-0.2 ft. below M.L.L.W.
37517 " 37522	6/11/52	16:15	"	-1.0 ft. below M.L.L.W.
55W9115 to 9119	9/18/55		"	Not used

Note:

When computing the stage of tide it was assumed that the time of photography furnished the compilation office was 150° West Meridian Time

Field Photographs

11353 thru 11362	9/14/42
11367 " 11376	"
11378 " 11385	"
14245, 14246, 14457, 14458, 14503	6/9/43

SUMMARY
TO ACCOMPANY
SHORELINE MANUSCRIPTS
T-11472 thru T-11477
June 1960

These six (6) shoreline surveys are a part of Project PH-92, which covers the west coast of the Alaska Peninsula from Unimak Island northeastward to Lagoon Point in the State of Alaska. Subject surveys are in the vicinity of Kudiakof Islands.

T-11472 thru T-11477 were compiled by the Portland Photogrammetric Office from December 1954 to January 1955 according to instructions from April 1952 and supplements. Based on photography from June 1952 to September 1955 and field inspection of season of 1952 subject surveys benefited also from a limited field edit by the hydrographic party during the season of 1956.

Cronar film positives at the compilation scale of 1:20,000 and a combined Descriptive Report will be registered and filed in the Bureau Archives.

June 1960

Field Inspection Report

Map Manuscripts T-11472 thru T-11477

Project Ph-92

Refer to Seasons Report, Project Ph-92 (G-1119), Norman E. Syler, Chief of Party.

Photogrammetric Plot Report

Map Manuscripts T-11472 thru T-11477 & T-11479

Project Ph-92

21. Area Covered:

This radial plot covers the North Shore of the Alaska Peninsula from Bechevin Bay to Moffet Bay and parts of Morzhovoi Bay and Cold Bay along the south shore of the Alaska Peninsula. It includes map manuscripts T-11472 thru T-11477 and T-11479.

22. Method:

The radial plot was accomplished by the usual hand templet method using 9 lens photographs taken in 1952 and 1954.

Each manuscript contained a polyconic projection of its area in one minute intervals, on which was imposed the U. T. M. Alaska Grid in 2000 meter intervals.

The geographic position of each horizontal control station was plotted on its respective manuscript. The seven manuscripts were joined together and fastened with cellulose tape. Templets drawn on sheets of .005" acetate were oriented directly on the joined manuscripts.

Master Templets No. 36269 for the 1952 photographs and No. 43497 for the 1954 photographs were used for the correction of transferring errors and paper distortion.

All horizontal control stations were held and excellent locations were obtained for photogrammetric points.

For map manuscript No. T-11477 the "Y" grid lines of the U.T.M. Zone 3 Alaska grids will not junction with map manuscript T-11476 by approximately 30 meters.

23. Adequacy of Control:

The horizontal control stations were well identified and adequate for a satisfactory radial plot.

24. Supplemental Data:

None.

25. Photography:

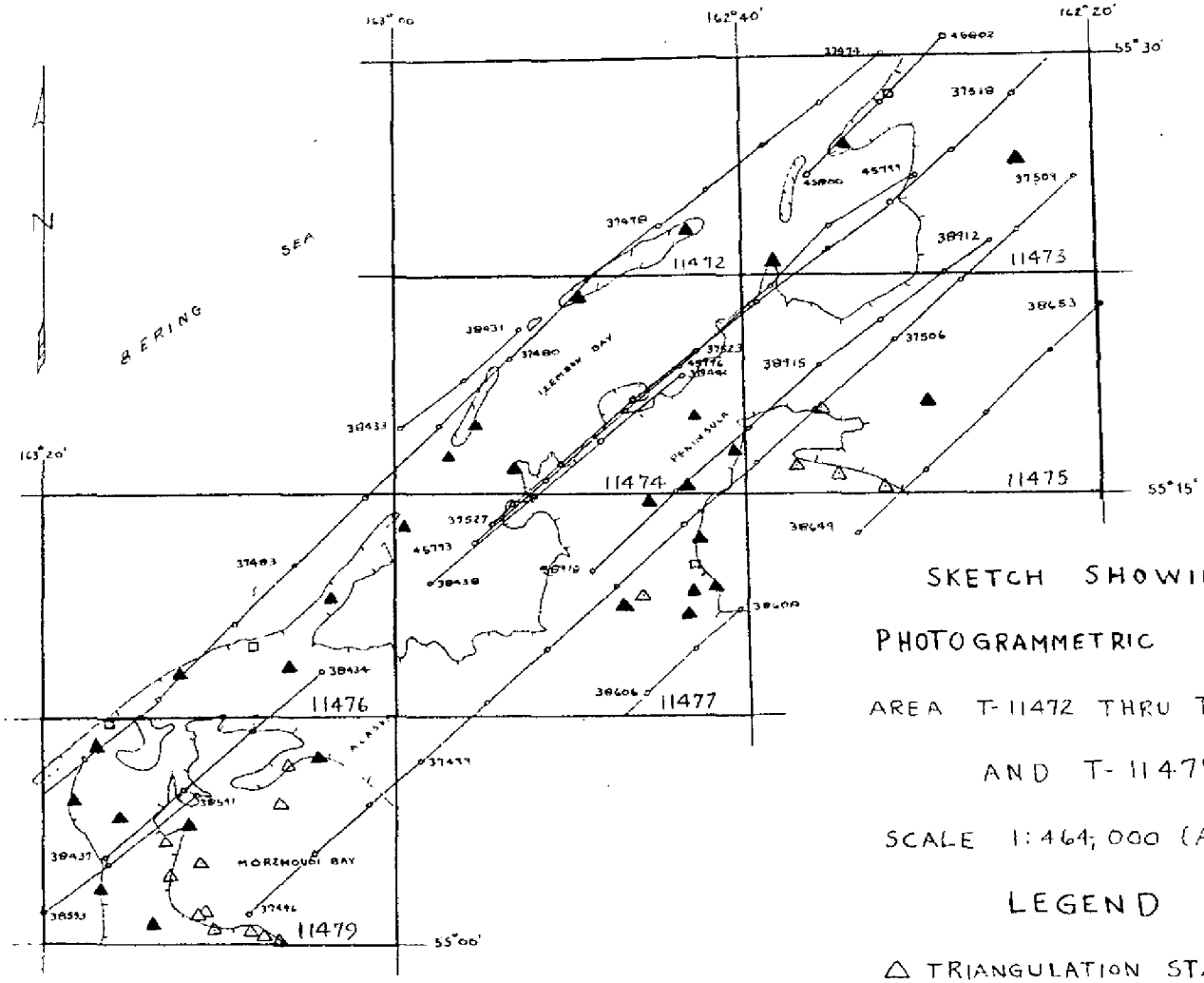
The photography was more than adequate for coverage. Definition was very poor on the 1954 photographs. There was some difficulty in transferring identified sub-points from the field prints taken in 1942 and 1943 to the 1952 photographs and especially to the 1954 photographs. There were very few picture points that could be used as pass points which were common between the 1952 and 1954 photography. Stereoscopic models using a photograph of each year as a stereoscopic pair were so poor that it was practically impossible to transfer by the floating mark method. A light snow coverage on the 37000 series photographs taken in June 1952 also contributed to the difficulty of accurately pricking sub-points and pass points. Refer to Item 35: "Shoreline and Alongshore Details" for additional discussion of photography.

Approved and forwarded:

Fred Natella
Comdr., USC&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal, Jr.
Cartographer
USC&GS



SKETCH SHOWING

PHOTOGRAMMETRIC PLOT

AREA T-11472 THRU T-11477

AND T-11479

SCALE 1:464,000 (Approx.)

LEGEND

△ TRIANGULATION STATION

▲ TRIANGULATION STATION IDENTIFIED

□ PHOTO TOPO. STATION IDENTIFIED

Photogrammetry

MAP T-11472 PROJECT NO. Ph-92 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
OPERL, N.E. BASE	G 10050	N.A.	55 24 05.798				179.3	(1676.2)		
1952	IV 293	1927	162 44 30.247				532.3	(523.6)		

Page 11

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J.L.H. DATE 10/14/54 CHECKED BY: J.E.D. DATE 10/26/54

Photogrammetry

MAP T-11473 PROJECT NO. Ph-92 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
BLAINE, 1952	G 10050	N.A.	55 23 14.266				441.2	(1414.3)		
	IV 293	1927	162 38 31.181				548.9	(507.4)		
EAGLE 1952			55 26 35.882				1109.7	(745.8)		
	IV 286	"	162 24 44.439				781.2	(273.6)		
MOFFETT 1952			55 27 20.095				621.5	(1234.1)		
	IV 286	"	162 34 41.558				730.4	(324.1)		

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE 10/14/54 CHECKED BY: J.E.D. DATE 10/26/54

M-2388-12

Photogrammetry

MAP T-11474 PROJECT NO. Ph-92 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE			DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
WRECKED SAIL BOAT	G 10050	N.A.	55	16	29.55				913.8	(941.6)		
MAST, 1952	IV 297	1927	162	57	20.67				364.9	(694.4)		
NORSE, 1952	IV 295	"	55	17	36.579				1131.2	(724.3)		
			162	55	41.764				737.0	(321.8)		
GRANT, 1952	IV 295	"	55	16	12.330				381.3	(1474.1)		
			162	53	48.029				848.0	(211.4)		
OPERL S W			55	22	29.206				903.2	(952.3)		
BASE, 1952	IV 293	"	162	49	03.262				57.4	(999.2)		
FA 49 (USE) 1952	IV 293	"	55	15	15.443				477.6	(1377.9)		
			162	44	10.247				181.0	(878.8)		
OP 3 (USE) 1952	IV 293	"	55	17	58.989				1824.2	(31.3)		
			162	43	21.330				376.3	(682.3)		
RANGE, 1923	G 7987	"	55	16	57.761				1786.2	(69.2)		
	IV 735		162	40	57.246				1010.4	(48.6)		
COLD BAY CAA EAST	G 10050		55	15	07.080				218.9	(1636.6)		
RADIO MAST OF2,1952	IV 296	"	162	45	51.105				902.8	(157.1)		
COLD BAY CAA WEST	G-10050	"	55	15	08.323				257.4	(1598.1)		
RADIO MAST OF2,1952	IV 296		162	45	59.465				1050.4	(9.5)		

Page 13

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J.L.H. DATE 10/15/54 CHECKED BY: J.E.D. DATE 10/26/54

Photogrammetry

MAP T-11475 PROJECT NO. Ph-92 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
HANSON (USE) 1952	G 10050	N.A.	55 18 31.201				964.9	(890.6)		
	IV 293	1927	162 30 00.546				9.6	(1048.8)		
COVE 1923		"	55 14 43.657				1350.1	(505.4)		
	V 735		162 30 46.147				815.3	(244.8)		
JEAN 1923		"	55 16 21.349				660.2	(1195.3)		
	V 735		162 35 21.468				379.0	(680.3)		
PEN 1923		"	55 16 30.498				943.2	(912.3)		
	V 740		162 37 57.075				1007.7	(51.6)		
CROWN 1923		"	55 15 44.165				1365.8	(489.7)		
	V 739		162 33 04.269				75.4	(983.9)		
LAGOON 1923		"	55 18 04.481				138.6	(1716.9)		
	V 735		162 36 32.935				581.1	(477.5)		

Page 14

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: DATE CHECKED BY: F.N. DATE 10/20/54

MAP T-11476 PROJECT NO. Ph-92 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
UNDER, 1952	G 10050	N.A.	55 07 55.423			1713.9 (141.5)	
	IV 294	1927	163 01 57.569			1020.1 (43.0)	
NORMA, 1952		"	55 09 15.672			484.6 (1370.8)	
	IV 294		163 12 30.500			540.1 (522.4)	
WILLY, (USE) 1952		"	55 09 32.702			1011.3 (844.1)	
	IV 294		163 06 07.721			136.7 (925.7)	
PRONE, 1952		"	55 11 45.739			1414.4 (441.0)	
	IV 296		163 03 47.921			847.7 (213.7)	

1 FT. = .3048006 METER

M-2388-1

COMPUTED BY D.N.W. DATE 10/18/54 CHECKED BY J.L.H. DATE 10/20/54

MAP T-11477 PROJECT NO. Ph-92 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
GLAZENAP, 1952	G10050	N.A.	55 14 26.596				822.5	(1033.0)		
	IV 294	1927	162 59 45.507				804.1	(256.1)		
SIMEON (USE) 1952		"	55 11 35.796				1107.0	(748.5)		
	IV 293		162 47 13.014				230.2	(831.2)		
HARB, 1923	G 7987	"	55 11 33.303				1029.9	(825.6)		
	V 735		162 38 33.690				596.0	(465.5)		
COW, 1923		"	55 12 06.463				199.9	(1655.6)		
	V 739		162 41 53.260				942.0	(119.2)		
GRAVE RM 1, 1923	Comp.	"	55 14 13.925				430.6	(1424.8)		
			162 42 58.517				1034.1	(26.2)		
BISHOP, 1952	G10050	"	55 11 07.123				220.3	(1635.2)		
	IV 293		162 43 19.109				338.1	(723.6)		
COLD BAY RADIO RANGE, CENTER MAST OF 5, 1952		"	55 14 51.831				1602.8	(252.6)		
	IV 296		162 45 22.788				402.6	(657.4)		
AIRPORT BN. THORNBROUGH AIR FORCE BASE, 1952		"	55 12 02.662				82.3	(1773.1)		
	IV 297		162 43 02.744				48.5	(1012.7)		

1 FT. = .3048006 METER

COMPUTED BY: J.L.H. DATE 10/15/54 CHECKED BY: F.N. DATE 10/19/54

M-2388-12

COMPILATION REPORT

Map Manuscripts T-11472 thru T-11477

Project Ph-92

31. Delineation:

Graphic methods were used for the compilation of planimetric details.

Field inspection in general was satisfactory. A more detailed inspection of the drainage basins emptying along the shoreline would have helped in the determination of photograph detail in these places.

32. Control:

The horizontal control stations were adequate. Descriptions of stations, control station identification data and the K-20 photographs of identified stations greatly aided in the determination of photographic detail.

33. Supplemental Data:

None

34. Contours and Drainage:

Contours are not applicable. Drainage was determined by stereoscopic examination of the photographs and then compiled.

35. Shoreline and Alongshore Details:

A study of the photography taken in 1942, 1943, 1952 and 1954 and the K-20 photographs indicates continual minor changes in shoreline details in the area of these seven manuscript. Available to the field inspector were only the 1942, 1943 and the K-20 photographs that he made and notes relative to shoreline details have been entered on all three sets. In some instances it was very difficult to synchronize this information with a stereoscopic model obtained with the 1952 or 1954 photographs. Also, in many places the 1954 photography indicated additional changes which would alter the determination of the mean high-water line and other shoreline details made by the field inspector. In general the location of the mean high-water line as determined in the field has been detailed. In places where the 1954 photography indicated changes, that in general voided the 1952 field inspection,

these photographs have been used for the determination of shoreline details. In all cases all available data was considered in determining these features.

The approximate low-water line has been detailed in the bays and other places where it was visible on the photographs. Most of the photography was at a low-water stage of tide and the approximate low-water lines should be fairly accurate as of the time of photography. The field inspection indicated some areas that bare but for the most part this feature has been determined by the compilers.

Tide data indicates large differences for the stage of tide at any given time between the north shore (Grant Point, Izembek Bay) and the south shore (Cold Bay). When two stages of tide could be determined for a photograph the stage of tide applicable to that part of the photograph from which detail was being compiled was considered.

Except at Cold Bay there are no alongshore structural features. All buildings, regardless of size, have been compiled because any structure in the area probably has some landmark value.

36. Offshore Details:

None

37. Landmarks and Aids:

Forms 567 will be submitted for these features for the entire project.

38. Control for Future Surveys:

Forms 524 for Recoverable Topographic Stations are submitted as follows:

T-11473 - 1
T-11476 - 1
T-11477 - 2

A list of recoverable topographic stations and photo-hydro stations has been prepared for each map manuscript and included in this report under Item 49, "Notes to the Hydrographer". Copies will be forwarded to the Ship PATHFINDER along with the photographs.

39. Junctions:

Complete and satisfactory junctions between all map manuscripts

covered by this report and with other adjoining manuscripts have been made.

40. Horizontal Accuracy:

There are no areas believed to be of sub-normal horizontal accuracy.

Vertical accuracy is not applicable.

41. Computation of Vertical Control Stations:

Vertical control stations selected and identified in the field were located by graphic methods. The computation of elevations from nonreciprocal observations have been made and will be submitted for the entire project in a special report.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. Fort Randall, Alaska one degree quadrangle, edition of 1950, Scale 1:250,000.

47: Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 8860, Scale 1:300,000. at Lat. 54° 20.5' published December 12, 1942 (12th Edition) last corrected 7/20/53.

Comparison was made with Nautical Chart No. 8701, Scale 1:80,660 at Lat. 54° 50' published February 1943 (6th Edition) last corrected 3/17/52.

"Items to be applied to nautical charts immediately". None..

"Items to be carried forward". None.

Approved and forwarded:

Fred Natella
Comdr., USC&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal Jr.
Cartographer
USC&GS

COMPILATION REPORT (ADDENDUM)

Map Manuscript T-11477

During the work of the Coast and Geodetic Survey Air Photo Mission of 1956 some field inspection was accomplished at Cold Bay Airport ~~Thornbrough Air Force Base~~. This work is shown on a ratioed print of photograph 55W9117 and was done by Alfred C. Holmes. The changes are shown in red on the map manuscript and include changes in roads and buildings. They were compiled by referencing to mapped features, using a photograph at the scale of the manuscript.

Everett H. Ramey

Everett H. Ramey
Chief, Graphic Compilation Unit

* Note to Review:
The Thornbrough Air Force Base has been under civil authority since 1954 and is not a military base. The correct name is "Cold Bay Airport" and is shown as such on the map manuscript. (Reference: Aeronautical Chart Br.)

Malin 8/31/56

GEOGRAPHIC NAMES LIST

*Alaska Peninsula (TITLE)

*Bering Sea

Izembek Bay

Kudiakof Islands

Neumann Island

* B.G.N. Decision

George McBride
GEOGRAPHIC NAMES SECTION
16 MARCH 1960

GEOGRAPHIC NAMES LIST

*Alaska Peninsula

*Bering Sea

*Joshua Green River

Moffet Bay
Moffet Point

Strawberry Point

* B.G.N. Decision

GEOGRAPHIC NAMES SECTION
16 MARCH 1960

GEOGRAPHIC NAMES LIST

*Alaska Peninsula

*Bering Sea
Blaine Point

*Cold Bay

Grant Point

Izembek Bay

Kinzarof Lagoon
Kudiakof Islands

Neumann Island

Operl Island

* B.G.N. Decision

George D. Baca
GEOGRAPHIC NAMES SECTION
10 MARCH 1960

GEOGRAPHIC NAMES SECTION

*Alaska Peninsula

*Cold Bay

*Joshua Green River
*Joshua Green Valley

Kinzarof Lagoon

Left Hand Valley

Moffet Bay

Paul Hansens Lake

Right Hand Valley

* B.G.N. Decision

George W. Boee
GEOGRAPHIC NAMES SECTION
16 MARCH 1960

GEOGRAPHIC NAMES LIST

*Alaska Peninsula

*Bering Sea
Big Lagoon

Cape Glazenap

Norma Bay

* B.G.N. Decision

George W Baese
GEOGRAPHIC NAMES SECTION
18 MARCH 1960

GEOGRAPHIC NAMES LIST

*Alaska Peninsula
Applegate Cove

Cape Glazenap
*Cold Bay
Cold Bay Airport
Cove Island

Fort Randall (Abandoned)

Norma Bay

* B.G.N. Decision

GEOGRAPHIC NAMES SECTION
16 MARCH 1960

T-11472

49. Note to the Hydrographer.

There were no photo-hydro signals or recoverable topographic stations located at the photogrammetric office.

One triangulation station namely OPERL N.E. BASE, 1952, is located atop the sand bluff along the northwest shoreline of Newmann Island.

A study of the 1952 and 1954 photographs indicates continual changes in the shape of the extreme northeast end of Newmann Island. The shoreline shown on the manuscript was delineated from photographs taken on 8/14/54 when the predicted tide was 0.2 feet below M.L.L.W. The approximate lowater line outlining the limits of areas that bare at low water is in general delineated from 1952 photographs taken when the predicted tide was 0.7 foot below M.L.L.W. The breaker areas at the entrance to Moffet Bay were also delineated from these photographs.

In general the remarks contained in Notes to the Hydrographer for T-11473 are also applicable to this map manuscript.

T-11473

49. Notes to the Hydrographer:

Photo-hydro station located on this map manuscript are as follows:

No. 100 - Photo. No. 11376 - Sharp point at top of grass covered bluff.

No. 101 - Photo. No. 11376 - Center of round grass island. (flooded at Mean High-Water)

No. V-113 - Photo. No. 11353 - Center of sod-covered trappers cabin.

A Recoverable Topographic station is located on this map manuscript namely:

ROBIN, 1952 - (Marked by triangulation disk) Photo. No. 14256. See Form 524

The tidal flats shown in Moffet Bay were delineated from photographs made in 1952 when the predicted tide was 0.5 foot below M.L.L.W. These tidal flats are also visible on the 1954 photographs taken when the predicted tide was 0.8 foot above M.L.L.W. The waterways through these tidal flats are probably very shoal at low water and their location on the map manuscript should be considered as approximate.

To locate additional photo-hydro stations on this map manuscript in the field orient the 9-lens photographs by chambers, holding to sub-points for triangulation stations and the pass points in each chamber. A good intersection having a sufficient wide angle from four radials should give satisfactory locations for additional photo-hydro stations.

49. Notes to the Hydrographer:

Photo-hydro stations located on this map manuscript are as follows

No. 107 -	Photo	No.	11372	- West tip of pond
No. 108 -	"	"	"	- Center of turn in stream
No. 109 -	" "	"	"	- Tip of grass
No. 110 -	"	"	"	- Tip of grass on East side of "V" in shoreline of pond
No. 111 -	"	"	"	- Center of round pool
No. 112 -	"	"	"	- Tip of grass
No. 113 -	"	"	"	- Center of small pool
No. 114 -	"	"	"	- Largest black boulder
No. 115 -	"	"	11371	- Center of small round pool
No. 116 -	"	"	11370	- Center of small bight in shore of lake.

In general the same remarks contained in "Notes to the Hydrographer" for T-11473 are applicable to this map manuscript.

The breakers areas at the entrance to Moffet Bay were delineated from lowwater photographs.

49. Notes to the Hydrographer:

The five hydrographic stations shown on this map manuscript are as follows:

No. 102 - Center of round pool
No. 103 - Sharp turn in small stream
No. 104 - Sharp turn in small stream
No. 105 - Center of clump of bushes
No. 106 - Tip of vegetation on point

The comments regarding tidal flats in Moffet Bay as included with "Notes to the Hydrographer" on manuscript T-11473 are applicable to this map manuscript.

T-11476

49. Notes to the Hydrographer:

Photo-hydro stations located on this map manuscript are as follows:

No. 123 - Photo. No. 11368 - East tip of grass
No. 124 - " " " - Drain from lake at grass line

A recoverable topographic station is located on this map manuscript namely:

PAWN, 1952 - Photo . No. 11360 - See form 524

The tidal flats shown in Norma Bay were delineated from photographs made in 1952 when the predicted tide was -0.7 below M.L.L.W. and at M.L.L.W.

Remarks made in "Notes to the Hydrographer" for T-11473 are applicable to this manuscript.

T-11477

49. Notes to the Hydrographer:

Photo-hydro stations located on this map manuscript are as follows:

No. 117 -	Photo.	No.	11370	- Northeast tip of grass
No. 118 -	"	"	"	- Southeast tip of bank at bend in slough
No. 119 -	"	"	"	- "V" in north shore of pond
No. 120 -	"	"	"	- West tip of vegetation on island
No. 121 -	"	"	11369	- Center of observers shack on highest point of knoll
No. 122 -	"	"	11368	- Top center of large square boulder

Two recoverable topographic st-ations are located on this map manuscript namely:

TANK, 1952
DELTA POINT LIGHT, 1952 (East of map limits)

The mud flats in Applegate Cove and Norma Bay were delineated from photographs taken when the predicted tide was at M.L.L.W. and at 1.0 ft. below M.L.L.W. The best photographs of Cold Bay were taken when the predicted tide was 2.5 ft. above M.L.L.W. In general the approximate low water lines are not visible on these photographs.

Remarks contained in Notes to the Hydrographer for T-11473 are applicable to this map manuscript.

Form 567
April 1945

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Washington, D. C. 28 August, 1956

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on ~~*(delete from)*~~ the charts indicated.

The positions given have been checked after listing by Alfred C. Holmes, Air Photo Mission, 1956

Everett H. Ramey, Washington Office
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION ** LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	Front Range Marker (Cold Bay, Alaska)		55 12	06.463 / 200	162 41	53.260 / 942	NA 1927	T-11477 Graphic	1956		X		8703
	Rear Range Marker (Cold Bay, Alaska)		55 12	04.6 / 143	162 42	13.6 / 239	"	"	"		X		"
	**Aids identified on photograph 55W9117 compiled by holding to map detail.												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

Comm-DC 61327

REVIEW REPORT
OF
SHORELINE MANUSCRIPTS
T-11472 thru T-11477
June 1960

62. Comparison with Registered Topographic Surveys

T-4088	1:20,000	1924
T-8536	1:20,000	1943
T-8537	1:20,000	1943
T-8538	1:20,000	1943
T-8539	1:20,000	1943

Considerable differences exist between these surveys. The most notable being the chain of Kudiakof Islands, whose position and shape have shifted extensively since the surveys of 1943. The shoreline and cultural features at Cold Bay have changed also. Generally, subject surveys appear to be detailed more completely and they are to supersede above-listed topographic surveys of identical areas for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Fort Randall, Alaska 1:250,000 1950 U.S. Geological Survey

The outer coast line, particularly the Kudiakof Islands chain (see item #62) has changed considerably since the date of this chart of 1950 - actual date of photography is 1942 and 1943.

64. Comparison with Contemporary Hydrographic Surveys

H-8300	1:20,000	1956
H-8301	1:20,000	1956
H-8375	1:20,000	1957

Advanced shoreline information and control of subject surveys was furnished in support of these hydrographic surveys and no revisions or additions were applied.

65. Comparison with Nautical Charts

8859	1:300,000	Revised to 12/1/58
8860	1:300,000	Revised to 10/19/59
8802	1:1,023,188	Revised to 12/21/59

65. Comparison with Nautical Charts continued

There is good agreement between charts 8860 and 8802 and subject surveys. Agreement is not as good with chart 8859, which appears to be in need of revision. An additional indication of this are the deviations of detailing, of geographic names and their placement and spelling along the northwest shore of the Alaska Peninsula in the portion of overlap between charts 8859 and 8860. The Geographic Names Section has been informed of the disagreement in geographic names.

66. Adequacy of Results and Future Surveys

During the season of 1956, the hydrographic party field edited portions of surveys T-11472 thru T-11477. This field edit consisted of visual comparison and viewing interior features while recovering control. Since any one survey was not field edited in its entirety, only those revisions and additions were applied to the compilation manuscript, where the original compilation appeared in error or was incomplete; and not those caused by natural changes.

No deficiencies in accuracy or adequacy exist at the time of completion of final review.

Reviewed by:

Josef J. Streifler

Josef J. Streifler

R. C. Lande
Chief, Review & Drafting
Photogrammetry Division

J. E. Waugh
Chief, Nautical Chart ~~Branch~~
~~Charts~~ Division
5/18/61

Nautical Chart Division
Office of Cartography

L. L. Lemmon
Chief, Photogrammetry
Division
7 April 1961

K. O. Crosby
Chief, Coastal Surveys Division
Assistant Director for Oceanography

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11478 ?

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/13/62	8860	William H. Wall	Part. app. ~~Before~~ After Verification and Review
	1		
8/30/84	16535	B. Fernandes	Before After Verification and Review
			Adequately App.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.