11294

11294

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. PH 6117 *Office No.* T-11294

LOCALITY

State ALASKA

General locality Cordova Bay

Locality Hassiah Inlet to Nutkwa Inlet

1948-1954

CHIEF OF PARTY

F. R. Gossett, Chief of Field Party

J. Bowie, Chief of Field Party

~~E. H. Kirsch, Baltimore District Officer~~

LIBRARY & ARCHIVES

DATE

COMM-DC 61300

DATA RECORD

T -11294

Project No. (II): pH 6117 Quadrangle Name (IV):

Field Office (II): U.S.C. & G.S. Ship HODGSON Chief of Party: F. R. Gossett, J. Bowie

Photogrammetric Office (III): Baltimore, Md. Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):

Field: 17 Mar. 1953
8 Jan. 1954

Office: 7 Dec. 1953
11 Oct. 1954

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

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

Scale Factor (III): 1.000

Date received in Washington Office (IV): 4-13-56 Date reported to Nautical Chart Branch (IV): 4-20-56

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

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

Geographic Datum (III): N.A. 1927 Vertical Datum (III): M.H.W.

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

Reference Station (III): HAS, 1918

Lat.: 55° 01' 51.912" (1605.3) Long.: 132° 35' 45.333" (805.3m) Adjusted

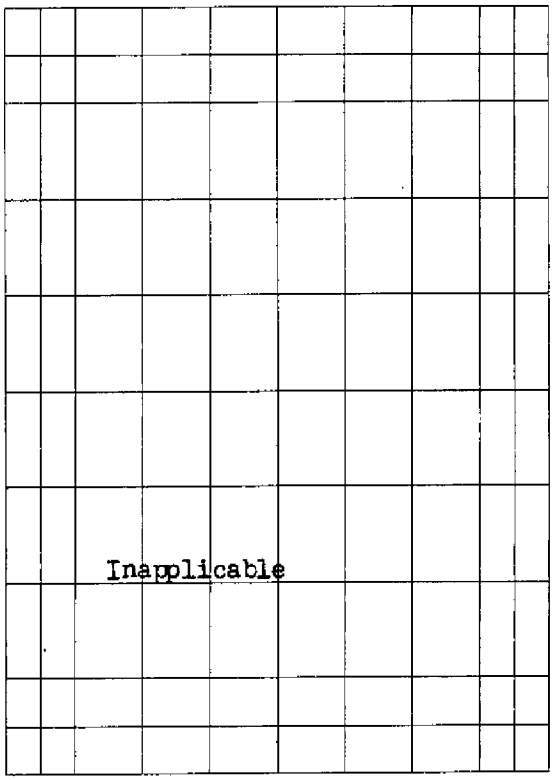
Plane Coordinates (IV): State: Alaska Zone: 8

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.

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): D. L. Campbell, A. C. Haglund, R. C. Munson, J. J. Dermody — Date: 1953 field season, 1954 " "

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): 1953 date of photography, Office interpretation and field inspection.

Projection and Grids ruled by (IV): A. Riley — Date: 12/23/53

Projection and Grids checked by (IV): H. D. Wolfe — Date: 12/23/53

Control plotted by (III): J. C. Cregan — Date: 1/20/54

Control checked by (III): R. Glaser — Date: 2/2/54

Radial Plot or ~~Stereoscopic~~ [illegible] by (III): H. R. Rudolph — Date: 2/19/54

Stereoscopic Instrument compilation (III): Planimetry — Date:

Contours — Date:

Manuscript delineated by (III): J. B. Phillips — Date: 3/6/54

Photogrammetric Office Review by (III): R. Glaser — Date: 3/13/54, 2/28/55

Elevations on Manuscript checked by (II) (III): — Date:

Camera (kind or source) (III): U. S. Navy single lens
U.S.C. & G. S. nine-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
SEA 26-018 & SEA 26-019	6/10/48	unknown	1:10,000	unknown
41003 thru 41005	7/8/53	1621	"	5.1' above MLLW
41043 thru 41045	"	1656	"	4.8' " "

Tide (III)
From predicted tables

		Ratio of Ranges	Mean Range	Spring Range
Reference Station:	Sitka		7.7	9.9
Subordinate Station:	Hassiah Inlet	1.3	10.3	12.9
Subordinate Station:				

Washington Office Review by (IV): D. M. BIZANT Date: JULY 1970

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

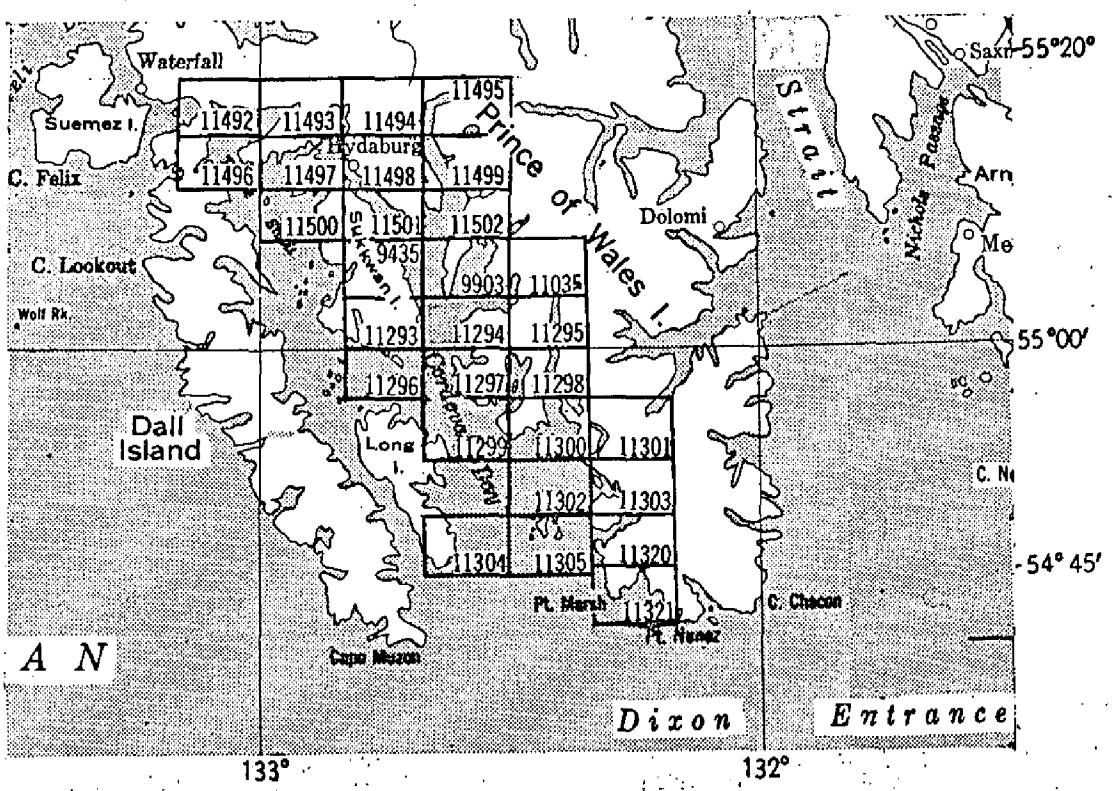
Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 4
Shoreline (More than 200 meters to opposite shore) (III): 18
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 11 Recovered: 8 Identified: 5*
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III):

Remarks: *In addition one new station, MELLEN ROCK LIGHT, 1954 was identified.

SHORELINE MAPPING PROJECT PH - 117

Cordova Bay & Vicinity of S.E. Alaska



OFFICIAL MILEAGE FOR COST ACCOUNTS		
SHEET NO.	AREA SQ. MILES	LIN.MI. SHORELINE
9435	13	13
9903	21	21
11035	9	9
11293	20	20
11294	15	15
11295	13	13
11296	14	14
11297	21	21
11298	23	23
11299	16	16
11300	31	31
11301	7	7
11302	18	18
11303	14	14
11304	12	12
11305	37	37
11320	24	24
11321	20	20
11492	24	24
11493	12	12
11494	2	2
11495	16	16
11496	17	17
11497	26	26
11498	8	8
11499	11	11
11500	27	27
11501	17	17
11502	15	15
TOTALS	503	503

Summary to Accompany
Descriptive Report
All T-Numbers
PH-117

September 1970

This project is comprised of twenty-nine shoreline surveys compiled at 1:10,000 scale. It covers an area in the vicinity of Cordova Bay in southeast Alaska. The purpose for the compilation of these shoreline surveys was to provide a base for hydrographic survey operations and to update marine charts of the area.

The shoreline area was covered with single-lens and nine-lens photography. Field inspection prior to compilation consisted only of recovery and identification of control. Control was extended by radial plot method in the Baltimore District Office prior to graphic compilation. The shoreline was delineated from office interpretation of the photographs.

Copies of the manuscripts and the ratio photographs were sent to the hydrographic parties (ships HODGSON and PATTON) for hydro support use. Hydro signals were identified and described. Corrections and additions to the shoreline and offshore details were made from field annotated photographs. This has been treated as field inspection throughout this project, but actually it is field edit.

The application of field inspection and photogrammetric office review was done in the Baltimore District Office.

Map Accuracy

The extension of control (radial plots) for the subject maps was considered to be sub-standard in accuracy (refer to radial plot reports). However, the maps were used to provide shoreline and control for hydrographic surveys and were found by the hydrographer to be generally satisfactory for this purpose. A new project is planned for this area.

(Continued)

Differences Between Contemporary Hydrographic and Topographic Surveys

Field inspection was done during hydrography (refer to the field inspection report). Where the application of field inspection (additions and corrections) was not applied to the hydrographic surveys, they were called to the attention of the hydrographic verification and review activities by the following means:

1. For an unverified smooth sheet a "Notes to the Verifier" page was inserted in the Hydrographic Survey Descriptive Report.

2. For an unreviewed smooth sheet a "Notes to the Reviewer" page was inserted in the Hydrographic Survey Descriptive Report.

3. For reviewed hydrographic surveys the Chief, Hydrographic Data Branch was notified.

The remaining discrepancies were disposed of in conference with the Hydrographic Review Branch.

Rock Elevations

Differences in some rock elevations were found during final review between a number of the photogrammetric surveys and the contemporary hydrographic surveys. It was decided in conference with the Hydrographic Review Branch that since the rock elevations were from predicted tides they would be removed in most cases from the photogrammetric surveys and the elevations on the hydrographic surveys would be used because of more accurate tide data. An ozalid copy of all manuscripts showing the rock elevations computed from predicted tides will be filed along with available field inspection photographs in the Federal Records Center.

A complete Geographic Names Investigation was made and a final names sheet is a part of this report.

Field records were incomplete at the time of final review. Available field data was used at this time.

A registration manuscript copy for all surveys, except T-11301 and T-11321 which are lost, will be registered in the Bureau Archives under their respective T-numbers.

Submitted by,

Donald M. Brant

2. AERIAL FIELD INSPECTION

Control station identification was made in the main project area of Cordova Bay on the southwest side of Prince of Wales Island, and in three areas on the east side of Prince of Wales Island in accordance with instructions for Project CS-357. Shoreline inspection for this season was confined mainly to the area covered by this season's hydrographic surveys. In the areas north of Shipwreck Point, on the west side of Cordova Bay, and on the east side of Prince of Wales Island only very small amounts of shoreline inspection were done.

The Cordova Bay area is a large deep watered area with many inlets, arms, and bights that cut up the land areas. In the southern part, the Barrier Islands extend far out into the bay. The terrain in the Barrier Islands is very broken with numerous small islands and offshore rocks covering the area. A few small tidal lakes are found on several of the islands. Most of the islands are 100 to 200 feet in height. The land area in the rest of Cordova Bay is mostly rugged wooded mountains cut by deep valleys, bays and inlets.

The areas on the east side of Prince of Wales Island in which the instructions required control station identification were in or near long deep bays. These inlets have numerous small bays and arms that are in general very deep. The land areas are nearly all very mountainous with dense timber except near the summits of the highest peaks. The higher mountains inshore are very steep and rugged, and are usually bare near the summits.

There are very few cultural features in the areas covered by field inspection. In the Cordova Bay area there were only three cultural features. A small trapper's cabin was found at the old Klinkwan village site. The landmark and remains of the village have been destroyed and should be deleted from the chart. An old cannery site on the north shore of Hunter Bay is visible but no structures remain. At the northern end of the area opposite Sukkwan Strait there is an abandoned mine. This was charted as Copper City, but there are no buildings still standing.

Only control station identification was done on the east side of Prince of Wales Island. No detailed inspection of cultural features was made in this area.

The single lens photographs obtained from the Geological Survey were very poor which made field inspection difficult. These prints were very hazy and had very little contrast.

The nine lens photos were clear and had very good contrast except in areas where the suns reflection blurred them. Usually a better print could be found in these areas, but on several photographs along the west side of Cordova Bay some difficulties were encountered.

Densities and tones were not inspected on the land areas. In water areas shoals and kelp areas were easily visible on the nine lens photographs.

3. HORIZONTAL CONTROL

(a) No supplemental triangulation control was established in connection with the field inspection. Since photo compilation had not been made for the area, graphic control sheets were surveyed to control the hydrography. These

sheets should be very helpful in making the compilation. The short sections of shoreline in the vicinity of many of the stations will probably be helpful to the compiler.

Three new main scheme triangulation stations were established during the survey. These are BLACK 2, 1953; EGG 2, 1953; and DEWEY 2, 1953.

(b) All control is on N. A. 1927 datum and no datum adjustment are necessary.

(c) All control was established by the Coast and Geodetic Survey.

(d) No field inspection was done this season in the vicinity of Sukkwan Strait and South Pass. This section was deferred in expectation of receiving nine-lens photographs. Then near the close of the season, work on Project CS-357 was suspended to undertake the special wire drag survey at Hollis Anchorage. A better field inspection can be made when the remaining area is covered by nine-lens photographs. The single-lens photographs provided by the Geological Survey can be considered of very little value for field inspection in this area. In this relevant

(e) In the Cordova Bay area the triangulation stations that were omitted in the photo identification were omitted in accordance with Paragraph 12 of Instructions dated 17 March 1953. For stations omitted in Sukkwan Strait and South Pass see Paragraph 3(d) of this report.

The stations on the east side of Prince of Wales Island that were omitted were in accordance with Paragraph 13 of Instructions dated 17 March 1953.

The following stations were reported as lost:

NEW, 1908	FRONT, 1909
GREEN, 1907	DOPE, 1909
N. W. CHURCH SPIRE, 1909	BAD, 1909
OUR, 1909	LIME, 1905-18
CAN, 1909	HUB, 1907
TOP, 1909	

Stations NEW, 1908 and GREEN, 1907 were the only two stations of the list that were photo identified. At NEW, 1908 the station mark was not found but the old blaze in tree and the rock pinnacle the station was on was found. The pinnacle is only about 4 feet in diameter which made positive identification possible. At GREEN, 1907 the old R. M. drill hole was found and identified. The station mark was not found.

For further information under this heading see Triangulation Reports, Ship HODGSON, 1953.

(f) The following horizontal control stations were identified:

STATION	PHOTO NO.	QUALITY OF IDENTIFICATION	REMARKS
WEST OF PRINCE OF WALES	NINE LENS		
ANCHOR, 1909	41015	Positive	Triangulation
ATA, 1918	41003	"	"
Axe	40991	"	Topo - 1953
BAN, 1925	40944	"	Triangulation
BARRIER, 1908	40992	"	"

STATION	PHOTO NO.	QUALITY OF IDENTIFICATION	REMARKS
BLOCK 2, 1953	40991	Positive	Triangulation
BOAT, 1909-25	40985	"	"
CEDAR 2, 1908	41048	"	"
CLEO, 1909	41015	"	"
CLUMP, 1907	40979	"	"
COH, 1925	40984	"	"
COPPER 2, 1908	41048	"	"
CREEK, 1909	40993	"	"
Day	40991	"	Topo - 1953
DEWEY 2, 1953	40986	"	Triangulation
EGG 2, 1953	40986	"	"
FAR, 1909	40991	"	"
FLAT 2, 1908	41002	"	"
FOG, 1908	41002	"	"
GRASS, 1908-14	41002	"	"
GREEN, 1907	40977	"	"
HAS, 1918	41004	"	"
HEN, 1907	40977	"	"
Hip	41011	"	Topo - 1953
HUNTER, 1909	41035	"	Triangulation
JACK, 1907	40978	Doubtful	"
Jar	40992	Positive	Topo - 1953
KEET, 1918	41045	"	Triangulation
KLINKWAN, 1909	41035	"	"
LEDGE 2, 1908	40998	"	"
LITTLE, 1909	41033	"	"
MAB, 1918	41005	"	"
MARBLE 2, 1925	40983	"	"
MID, 1918	41045	"	"
MEX, 1909	40990	"	"
NEW, 1908	41000	"	"
NICE, 1907	40977	"	"
NING, 1925	40943	"	"
NUT, 1918	41002	Doubtful	"
PET, 1909	41015	Positive	"
Ram	41036	"	Topo - 1953
RHEA, 1909	41034	"	Triangulation
ROUGH 2, 1908	40982	"	"
Rut	41036	"	Topo - 1953
SHIP 2, 1908	40997	"	Triangulation
SHOE, 1907	40978	"	"
SOUTH ROCK, 1909-53	40945	"	"
TITAN, 1909	41033	"	"
Tomb	40989	"	Topo - 1953
TRIM, 1925	40979	"	Triangulation
TURN, 1909	41012	"	"
UP, 1918	41053	"	"
Vim	40991	"	Topo - 1953
WEST, 1909	40989	"	Triangulation
Yam	40991	"	Topo - 1953
Zag	40991	"	Topo - 1953
	Single Lens		
BRETT, 1908-14	SEA13-091	Doubtful	Triangulation
ROUND, 1908-14	SEA26-020	Positive	"

STATION	PHOTO NO.	QUALITY OF IDENTIFICATION	REMARKS
EAST OF PRINCE OF WALES ISLAND	Single Lens		
BAKE, 1924	SEA29-042	Positive	Triangulation
BAT, 1924	SEA22-119	"	"
BEE, 1924	X15,026	"	"
BLACK, 1912	SEA103-006	"	"
CHOP, 1924	SEA22-025	"	"
BRICK, 1912	SEA22-004	"	"
END, 1913	SEA22-009	"	"
HALLIDAY, 1912	SEA103-006	"	"
HEAD, 1922	SEA22-005	"	"
INGRAHAM, 1912-21	SEA103-004	"	"
KEN, 1921	SEA22-005	"	"
KNOB, 1924	SEA29-044	"	"
MOIRA ROCK, 1912	SEA22-135	"	"
NEST, 1912	SEA22-134	"	"
OUT, 1911	X15-026	"	"
PIT, 1924	X15,030	"	"
SCOTT, 1912	SEA15-065	"	"
SCRUB, 1924	SEA29-042	"	"
SUN, 1912	SEA103-005	"	"
TAG, 1924	SEA103-022	"	"
TIP, 1924	SEA22-025	"	"

Of the stations listed doubtful identification was made on stations: JACK, 1907; NUT, 1907; and BRETT, 1908-14. These stations are not required by the instructions since other stations in the immediate vicinity were used to meet the spacing requirements.

Station JACK, 1907 was marked doubtful because the glare of the sunlight on the photographs made positive identification difficult except to large objects.

Station NUT, 1907 was marked doubtful since overhanging trees and shadows eliminated all object that would have made good subpoints. The subpoint used was a bend in the high water mark that did not show clearly on the photograph.

Station BRETT, 1907 was identified on a single lens photograph furnished by the Geological Survey which was very dull and hazy. It was marked doubtful since the subpoints did not show clear or sharp on the photograph.

4. VERTICAL CONTROL

Not applicable.

5. CONTOURS AND DRAINAGE

Not applicable.

6. WOODLAND COVER

All land areas not covered by storm high waters were densely wooded with coniferous trees and underbrush except on very high mountains. A few offshore rocks to the south and west of the Barrier Islands were bare. A number of areas on the east side of Prince of Wales and a few areas in the Cordova Bay area had been logged out. These areas were easily seen on the nine lens photographs.

7. SHORELINE AND ALONGSHORE FEATURES

(a) Shoreline was inspected from a boat running as close inshore as was safe. The mean high water line shows clearly on the nine lens photos where shadows or overhanging trees do not obscure it. In most areas not opened to the seas the mean high water line is at the tree line. In some areas where the land protrudes up steeply from the shoreline the trees overhang it as much as 4 to 5 meters. In other areas, those open to the seas, it is usually visible on the photographs but may be as far as 50 meters from the tree line.

The mean high water line is indicated at random interval on photographs or where it is not clear.

(b) The low water line is not indicated on the photographs, although, a number of areas were marked foul when it was considered too shoal to investigate with a motor whale boat. In some cases where a number of submerged rocks were grouped together the area would be marked foul out to the kelp line.

(c) The foreshore in the vicinity of the Barrier Islands was mostly very rocky with numberous rock ledges and reefs that cover at high water. There are also many small bights with boulder, rock or gravel beaches in this area. Just north of the Barrier Islands there are many bights and small bays which have some sand beaches formed by streams that run into them.

(d) There were a few bluffs and cliffs seen over the area. None of these were marked on the photographs. However, most of them are readily identifiable on the photographs due to the lack of vegetation. They should be obvious in a stereoscopic model.

(e) In the project area where shoreline inspection was done no shoreline structures were noted other than the permanent fish trap at the mouth of Hesse Inlet. This structure was used by small fishing craft as a mooring. It was permanently secured to the beach, and had not been used as a trap for many years. It is indicated on the photograph.

8. OFFSHORE FEATURES

In the hydrographic survey area covered by field inspection important offshore features and possible dangers to navigation were indicated on the photographs. Many of the offshore rocks were located by hydrographic and/or topographic means.

In two places in the area inspected this season there were rocks that were indicated that did not show clearly on the photographs.

The first is a sunken rock in Eureka Channel about 1.1 mile NE of Far Point. In the vicinity of this rock there is a kelp area about 30 meters in diameter that appears to show on the photo. A hydrographic fix was taken on the rock and a check on its location can be obtained from the hydrographic sheet.

The second rock not clearly visible on the photographs was a rock awash about 200 meters SSE of triangulation station BIRD, 1909-53. This rock was not located by the hydrographic party, but it was noted on the photograph. It may show a little clearer on the office print. However, if a positive location cannot be made using the office prints, further hydrographic investigation is necessary.

Since the field inspection was done in conjunction with the hydrographic survey, some of the offshore features were omitted from the photographs if previously located by other methods. Although, an attempt was made to field inspect all offshore features whether they had been previously located or not.

Heights of rock were estimated in all cases. All rocks were visited, but in most cases a landing was not made. When the field inspection was made a pencil notation of the time, date, and estimated heights was made on the photographs. At the close of the day heights of rocks awash were reduced to MLLW and all notes were inked.

9. LANDMARKS AND AIDS

(a) The only landmark noted was an abandoned light on Turn Point. It is station Ram identified on photograph Number 41036. Since it is a recoverable topographic station no photo location is needed.

(b) No interior landmarks will be listed since no interior inspection was done.

(c) Inapplicable.

(d) The following fixed aids to navigation are indicated on the photographs:

AID	PHOTO NOS.	HYDROGRAPHIC NAME	REMARKS
TELEVAK STRAIT LIGHT	40978		
MELLEN ROCK LIGHT	41003		
MOUND POINT LIGHT	SEA29-044		
CENTER ISLAND DAYBEACON	40991	Zag	Topo signal
GUIDE ROCKS DAYBEACON	41033	Cab	" "
TURN ISLAND DAYBEACON	41012	TURN, 1909-53	Triang.Station
HUNTER BAY DAYBEACON	41036		
EUREKA CHANNEL DAYBEACON	40992	Jar	Topo signal

The four aids listed above that were not located should be located by photogrammetric methods. No identification cards were made for these. All four were pricked direct.

The other aids listed have been located but were identified to be used in the control of the radial plot. Guide Rocks Daybeacon was identified but no card was submitted since it is not needed for control of the plot.

(e) Inapplicable.

10. BOUNDRIES, MONUMENT, AND LINES

Inapplicable.

11. OTHER CONTROL

A number of topographic stations were identified on the photographs that were not listed as recoverable topographic stations. When these were identified no pricking cards were submitted.

The specified spacing for recoverable topographic stations was complied with in the area covered by the hydrographic survey. Listing covered under

side heading 3(C).

12. OTHER INFERIOR FEATURES

Covered under side heading 2.

13. GEOGRAPHIC NAMES

Geographic names will be covered in a separate report.

Only charted names were used in connection with records and reports.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Supplemental data includes other phases of field work - triangulation data, topographic data, hydrographic data and coast pilot notes.

Photogrammetric data forwarded separately:

Field photographs

Control Station Identification Cards

Data to be forwarded:

Descriptive Reports for Hydrographic Sheets:
H0-1153 H0-1353
H0-1253 H0-2153
Triangulation Report - Cordova Bay - 1953
Descriptions of Triangulation Stations
Descriptions of Recoverable Topographic Stations
Recovery Notes, Triangulation Stations
Report on Landmarks and Fixed Aids
Geographic Names Report
Coast Pilot Notes

Respectfully submitted,

Donald L. Campbell,
Ens., USC&GS

Approved and forwarded:

F. R. Gossett,
CDR, USC&GS
Comdg., Ship HODGSON

FIELD INSPECTION REPORT

FOR

HUNTER BAY, RUTH BAY, KLAKAS INLET, KASSA INLET THRU HASSIAH INLET AND VICINITY OF JACKSON ISLAND.

CORDOVA BAY - S. E. ALASKA

1954 FIELD SEASON

PH-117 CS-357

2. AREAL FIELD INSPECTION

The area covered in this report is located on the southwest side of Prince of Wales Island from Hunter Bay thru Hassiah Inlet on the east side of Cordova Bay and the vicinity of Jackson Island on the west side of Cordova Bay.

There are no salient cultural features. The only natural feature is the land area is densely covered with coniferous trees.

This field inspection is believed to be standard.

The area from Hunter Bay through Hassiah Inlet is covered adequately with nine-lens (scale 1/10,000) photographs. The good quality of the photos enabled an adequate field inspection in all of this area with the exception of the west shore of Klakas Inlet which is covered with heavy shadows. The quality of the Navy SEA Prints (scale ratio 1/10,000) covering the vicinity of Jackson Island is very poor. This poor quality made it difficult for field inspection and for recovery of office photo prints used to locate the photo-hydro signals.

Densities and tones were not inspected on the land area. In the water area, shoals and kelp area are easily discernable.

3, 4, 5. Inapplicable

6. WOODLAND COVER

All land area not covered by storm high water is densely wooded with coniferous trees with the exception of the small logged-off areas and the few bare mountain peaks.

7. SHORELINE AND ALONGSHORE FEATURES

(a) The shoreline was inspected from the beach at the photo-hydro signal locations. All other areas were inspected from a boat. The mean high water line is delineated on the field photos. In the areas where the gradient of the beach is steep, the MHWL corresponds closely with the treeline. Elsewhere it is distinguished on the photos by a black band (water action on the rock and dried kelp) along the beach.

(b) The low water line is dotted on the field photographs as it was observed at times of low tide. The low water line corresponds to the offshore edge of the light color tone along the water line on the photos.

(c) The foreshore is rock and boulders with a few areas of sand and gravel at the stream mouths and at the head of the small bights.

(d) The only prominent structures along the shoreline are the fish traps moorings. These moorings are located as follows:

1. East end of Hunter Bay
2. Destroyed cannery site in Hunter Bay
3. Clam Cove in Kassa Inlet

8. OFFSHORE FEATURES

All apparent offshore features were visited and where it was possible a landing was made. All of the rocks and shoals are defined on the field photos and the heights and depths, times and dates pertaining to each feature are noted. All heights are estimated and all depths are measured.

All of the rocks noted during field inspection and hydrography are visible on the photos although some of them were not located on the preliminary manuscript. These rocks and their heights are shown on the field photos.

9. LANDMARKS AND AIDS

There are two fixed aids to navigation: (1) the Beacon on the rock in the middle of Hunter Bay. (2) Mellen Rock Light.

10. Inapplicable

11. OTHER CONTROL

The following is the list of photo-hydro signals and the method used for their location. The information necessary for the location of the signals is on the back of the field photos as listed. All recoverable marked photo-topo signals are denoted by the year (1954) after their name.

12. Inapplicable

13. Geographic Names

Geographic names will be covered in each corresponding Hydrographic Survey Descriptive Report.

14. Special Reports and Supplemental Data

Forwarded to the Director:

11 June 1954 via Railway Express
Office Photos
Field Photos

14 June 1954 via Registered Mail
Blackline Manuscripts
Field Inspection Reports (TAH BAY, HESSA INLET)

3 September 1954 via Railway Express
Office Photos
Field Photos

3 September 1954 via Registered Air Mail
Blackline Manuscripts
Film Positive

18 October 1954 via Railway Express
Office Photos
Field Photos

19 October 1954 via Registered Mail
Blackline Manuscripts
Blueline Impressions

Tide Records (Registered Mail)
28 May 1954 (HUNTER BAY)
14 June 1954 (MAX COVE)
30 July 1954 (KASSA INLET)
3 Sept. 1954 (MABEL BAY, KASSA INLET, HUNTER BAY)

To be forwarded at later date:
Hydrographic Survey Sheets HO-1354 thru HO-1754
Hydrographic Survey Descriptive Reports for same
Sounding Records & Fathograms

15. Remarks on Preliminary Shoreline Manuscript

The preliminary manuscripts were found to be very good. The following are the discrepancies found:

(a) The shoreline is too high in some areas.

(b) Some of the small offshore rocks which appeared on the photos were not located on the manuscripts.

(c) A few of the areas marked foul on the manuscripts and shown by a light color tone on the photos were not found to exist in the field. Large schools of thousands of jelly fish which gave the appearance of shoals (light color tone in water) were observed during the season. It is believed that these fish produced the light color tone on the photos where the area was marked foul and a shoal was not found.

(d) The shoreline of Jackson Island (dashed as approximate) was found to be out in location. This was probably due to the poor photo (Navy Sea Prints) coverage and will be corrected when the 1954 photos are plotted.

The areas where these discrepancies were encountered are noted on the field photographs.

Respectfully submitted,

Robert C. Munson,
Ensign, USC&GS

Approved by:

John Bowie,
CDR, USC&GS
Comdg., Ship HODGSON

HASSIAM INLET TO TRIANG. STA. HAS, 1918

HYDRO SIGNALS	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Abe	T-11294	41006	Angle and dist. from off. p.p.
All	"	41006	Angle and dist. from off. p.p.
Bar	"	41006	Angle and dist. from off. p.p.
Box	"	41006	Angle and dist. from off. p.p.
Cal	"	41006	Angle and dist. from off. p.p.
Dim	"	41000	Angle and dist. from off. p.p.
Fig	"	41006	Angle and dist. from off. p.p.
Fry, 1954	"	41006	Angle and dist. from off. p.p.
Hid	"	41006	Direct transfer
Ivy	"	41004	Radial plot
Key	"	41004	Angle and dist. from off. p.p.
Liz	"	41006	Angle and dist. from off. p.p.
Man	"4	41006	Angle and dist. from off. p.p.
Nor	"	41006	Angle and dist. from off. p.p.
Pet	"	41006	Angle and dist. from off. p.p.
Rim	"	41006	Angle and dist. from off. p.p.
Say	"	41006	Angle and dist. from off. p.p.

KLAKAS INLET

HYDRO SIGNAL	MANUSCRIPT	PHOTO NO.	METHOD OF LOCATION
Air	T-11300	41036	Angle and dist. from off. p.p.
Alp	T-11300	41036	Angle and dist. from off. p.p.
Ape	T-11295	41059	Field radial plot
Awe	T-11300	41036	Angle and dist. from off. p.p.
Bag (Upper Klakas)	T-11300	41037	Range and angle to off. p.p.
Bag (Lower Klakas)	T-11300	41036	Angle and dist. from off. p.p.
Bug, 1954 (marked)	T-11300	41036	Angle and dist. from off. p.p.
But	T-11295	41059	Field radial plot
Con, 1954 (marked)	T-11300	41037	Angle and dist. from off. p.p.
Cop	T-11300	41036	Angle and dist. from off. p.p.
Dan	T-11300	41036	Angle and dist. from off. p.p.
Did	T-11300	41036	Angle and dist. from off. p.p.
Eat	T-11298	41040	Office p.p.
Eva	T-11300	41037	Office p.p.
Fag	T-11298	41040	Angle and dist. from off. p.p.
Few	T-11300	41036	Angle and dist. from off. p.p.
Fox	T-11298	41037	Field radial plot
Gun	T-11300	41036	Angle and dist. from off. p.p.
How	T-11298	41040	Angle and dist. from off. p.p.
Ice	T-11300	41036	Angle and dist. from off. p.p.
Ink, 1954 (marked)	T-11298	41040	Angle and dist. from off. p.p.
Jug	T-11298	41040	Angle and dist. from off. p.p.
Kod	T-11300	41036	Angle and dist. from off. p.p.
Keg	T-11298	41040	Field radial plot
Kin	T-11300	41036	Office p.p.
Let	T-11298	41037	Angle and dist. from off. p.p.
Nob	T-11298	41037	Office p.p.
Not	T-11300	41036	Angle and dist. from off. p.p.
Num	T-11300	41036	Angle and dist. from off. p.p.
Ott	T-11298	41037	Range and angle to office p.p.
Pat	T-11298	41037	Angle and dist. from off. p.p.
Red	T-11300	41036	Office p.p.
Sam, 1954 (marked)	T-11295	41059	Angle and dist. from off. p.p.
Sis	T-11300	41036	Angle and dist. from off. p.p.
Tax	T-11300	41036	Angle and dist. from off. p.p.
Up	T-11298	41037	Field radial plot
Vat	T-11300	41036	Angle and dist. from off. p.p.
Via	T-11300	41036	Office p.p.
Vim	T-11298	41037	Office p.p.
Way	T-11300	41036	Pricked direct, field radial plot
Yer	T-11300	41036	Angle and dist. from off. p.p.
Zag, 1953	T-11300	41036	Office p.p.
Zoo	T-11298	41037	Field radial plot

Shoreline Photo No.	Manuscript
41035	T-11295
41036	T-11298
41037	T-11300
41038	
41039	

JACKSON ISLAND TO TRIANG. STA. GRASS

HYDRO SIGNAL	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Bob	T-11296	40927	Angle and dist. from off. p.p.
Cow	T-11293	117-139	Angle and dist. from off. p.p.
Day	T-11293	117-141	Angle and dist. from off. p.p.
Eve	T-11293	117-141	Direct transfer
Fid	T-11293	41003	Angle and dist. from off. p.p.
Gal	T-11293	117-140	Angle and dist. from off. p.p.
Ilis	T-11296	40927	Angle and dist. from off. p.p.
Joe	T-11293	117-141	Direct transfer
Log	T-11293	41003	Angle and dist. from off. p.p.
Ram	T-11296	40927	Angle and dist. from off. p.p.
Rip	T-11296	117-109	Angle and dist. from off. p.p.
Sun	T-11293	117-140	Off. p.p.
Tick,1954	T-11293	117-140	Angle and dist. from off. p.p.
Vet	T-11293	117-140	Angle and dist. from off. p.p.

MABEL BAY

HYDRO SIGNALS	MANU-SCRIPT	PHOTO NO.	
Age	T-11297	40999	Angle and dist. from off. p.p.
Ant	"	40999	Off. p.p.
Bad	"	41000	Angle and dist. from off. p.p.
Bat	"	40999	Angle and dist. from off. p.p.
Can	"	40999	Angle and dist. from off. p.p.
Did	"	40999	Angle and dist. from off. p.p.
Doe	"	40999	Off. p.p.
Eel	"	40999	Angle and dist. from off. p.p.
Era	"	41000	Angle and dist. from off. p.p.
Eye	"	40999	Angle and dist. from off. p.p.
Fee	"	40999	Angle and dist. from off. p.p.
Get	"	40999	Angle and dist. from off. p.p.
Kid	"	40999	Angle and dist. from field sub. pt.
Lap	"	40999	Off. p.p.
Lie	"	40999	Angle and dist. from off. p.p.
Odd	"	40999	Angle and dist. from off. p.p.
Out	"	40999	Angle and dist. from off. p.p.
Pit	"	40999	Off. p.p.
Run	"	40999	Angle and dist. from off. p.p.
Sis	"	40999	Angle and dist. from off. p.p.
Sit	"	40999	Angle and dist. from off. p.p.
Tag	"	41000	Angle and dist. from off. p.p.
Tim	"	40999	Off. p.p.
Wet	"	40999	Angle and dist. from off. p.p.
Vim	"	40999	Angle and dist. from off. p.p.

SHIP ISLAND PASSAGE TO MABEL BAY

HYDRO SIGNAL	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Act	T-11297	40999	Angle and dist. from off. p.p.
Caf	"	40999	Angle and dist. from off. p.p.
Cat	"	40999	Off. p.p.
Eva	"	40999	Angle and dist. from off. p.p.
Far	"	40999	Angle and dist. from off. p.p.
Gip	"	40999	Field radial plot
Gun	"	41000	Angle and dist. from field sub. pt.
Hat	"	40999	Angle and dist. from off. p.p.
Imp	"	40999	Angle and dist. from off. p.p.
Jet	"	40999	Angle and dist. from off. p.p.
Job	"	40999	Angle and dist. from off. p.p.
Kit	"	40999	Field radial plot
Leg	"	40999	Angle and dist. from off. p.p.
Mit	"	40999	Angle and dist. from off. p.p.
Mop	"	41000	Angle and dist. from off. p.p.
Nut	"	40999	Angle and dist. from off. p.p.
Pal	"	41000	Angle and dist. from off. p.p.
Pan	"	40999	Angle and dist. from off. p.p.
Quo	"	41000	Angle and dist. from off. p.p.
Ram	"	40999	Off. p.p.
Rod	"	40999	Off. p.p.
Rik	"	40999	Angle and dist. from off. p.p.
Sin	"	40999	Field radial plot
Try	"	40999	Angle and dist. from off. p.p.
Veg	"	40999	Angle and dist. from off. p.p.

HYDRO SIGNAL	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Fig	T-11297	41009	Angle and dist. fromoff. p.p.
Fig	T-11298	41009	Angle and dist. from field sub pt.
Fun	T-11297	41009	Angle and dist. from off. p.p.
Quo	T-11298	41042	do
Rat	T-11298	41009	do
Roo	T-11298	41042	Direct transfer
Rot	T-11297	41009	Angle and dist. from off. p.p.
Ros	T-11297	41009	do
Sam	T-11299	41009	Off. p.p.
Sow, 1954 (marked)	T-11298	41042	Off. p.p.
Sue	T-11297	41009	Angle and dist. from off. p.p.
Tad	T-11299	41009	do
Tim	T-11299	40996	do
Tin	T-11297	41009	do
Tom	T-11298	41042	Off. p.p.
Une	T-11298	41042	Angle and dist. from off. p.p.
Up	T-11297	41009	Off. p.p.
Vix	T-11297	41009	Angle and dist. from off. p.p.
Why	T-11297	41009	do
Wil	T-11297	41009	do
Yak	T-11299	41009	do
You	T-11299	41009	do
Zek	T-11297	41009	do
Zip	T-11299	40996	do
Zoo	T-11299	41009	do

Shoreline
Photo No.
41042 & 41010
40996
40997
41043
41007

KASSA INLET & SHIP ISLAND PASSAGE TO TRIANG. STA. LEDGE

HYDRO SIGNAL	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Ant	T-11295	41042	Angle and dist. from off. p.p.
Art	T-11298	41042	do
Axe	T-11299	40996	do
Bat	T-11297	41009	do
Big	T-11299	40996	Angle and dist. from field sub pt.
Bob	T-11297	41042	Angle and dist. from off. p.p.
Box,1953	T-11299	40996	do
Boy	T-11297	41009	do
Bug,1954 (marked)	T-11299	41009	do
Buz	T-11297	41009	do
Cat	T-11299	41009	do
Car	T-11297	41009	do
Cy	T-11298	41042	do
Don	T-11299	41009	do
Dad	T-11299	40996	do
Dog	T-11299	41009	do
Don	T-11297	41042	do
Dud	T-11299	40996	do
Ed	T-11297	41042	do
Elm	T-11297	41009	do
Erg	T-11299	40996	do
Fat	T-11297	41042	do
Fir	T-11295	41042	Direct transfer
Fog	T-11299	41009	Angle and dist. from off. p.p.
Fox	T-11299	40996	do
Gum	T-11299	40996	do
Gus	T-11300	41009	do
Han	T-11298	41042	do
Hap	T-11297	41042	do
Hik	T-11300	41009	Angle and dist. from direct transfer sub. pt.
Hill	T-11298	41042	Direct transfer
Ill	T-11298	41009	Angle and dist. from off. p.p.
Jab	T-11297	41009	do
Jog	T-11298	41009	Angle and dist. from direct transfer sub pt.
Job	T-11299	41009	Angle and dist. from off. p.p.
Jon	T-11298	41042	do
Ken	T-11298	41042	do
Kid	T-11297	41009	do
Lab	T-11299	41009	do
Lad	T-11299	40996	do
Lot	T-11299	40996	do
Lip	T-11299	40996	Field radial plot
Lil	T-11297	41009	Angle and dist. from off. p.p.
Liz	T-11297	40996	Direct transfer
Loy	T-11298	41042	Off. p.p.
Mad	T-11298	41009	Off. p.p.
Mag	T-11299	40996	Angle and dist. from off. p.p.
Mik	T-11297	41009	do
Nam	T-11297	41009	do
Nip	T-11298	41009	do
Nod	T-11295	41042	Off. p.p.
Oak	T-11297	41009	Angle and dist. from off. p.p.
Ole	T-11297	41009	do
Ox,1954 (marked)	T-11298	41009	Angle and dist. from field sub pt.

MAX COVE

HYDRO SIGNAL	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Bat (Bat?)	T-11300	41063	Angle and dist. from off. p.p.
Big	T-11300	41063	Angle and dist. from field radial plotted p.p.
Bob	T-11298	41063	Angle and dist. from off. p.p.
Cap	T-11300	41063	Office p.p.
Cow	T-11300	41063	Angle and dist. from off. p.p.
Dog	T-11300	41063	Angle and dist. from off. p.p.
End	T-11300	41063	Angle and dist. from off. p.p.
Gal	T-11300	41063	Angle and dist. from off. p.p.
Hit	T-11300	41063	Angle and dist. from field radial plotted p.p.
Joe	T-11300	41063	Angle and dist. from field radial plotted p.p.
Loy	T-11300	41063	Angle and dist. from field radial plotted p.p.
No.1, 1954 (marked)	T-11298	41037	Angle and dist. from field radial plotted p.p.
Nut	T-11300	41063	Field radial plot
Ray	T-11300	41063	Angle and dist. from off. p.p.
Roo	T-11300	41063	Off. p.p.
Rut	T-11298	41037	Angle and dist. from off. p.p.
Tom	T-11300	41063	Angle and dist. from field radial plotted p.p.
Wil	T-11300	41063	Field radial plot

Shoreline Photo No.	Manuscript
41037	T-11298
41062	T-11300

RUTH BAY

HYDRO SIGNAL	MANU-SCRIPT	PHOTO NO.	METHOD OF LOCATION
Axe	T-11300	41012	Angle and dist. from off. p.p.
Pan	"	"	Office. p.p.
Day	"	"	Office p.p.
Doc	"	"	Angle and dist. from off. p.p.
Eel	"	"	Angle and dist. from off. p.p.
Fat	"	"	Angle and dist. from off. p.p.
Fed	"	"	Angle and dist. from off. p.p.
Gal	"	"	Field radial plot
Gut	"	"	Field radial plot
Lot	"	"	Angle and dist. from off. p.p.
Ned	"	"	Angle and dist. from off. p.p.
Sag	"	"	Angle and dist. from off. p.p.
Six	"	"	Angle and dist. from off. p.p.
Sum	"	"	Field radial plot
Uno	"	"	Field radial plot
Zig	"	"	Angle and dist. from off. p.p.

Shoreline
Photo No. 41012

Manuscript T-11300

HUNTER BAY

HYDRO SIGNAL	MANUSCRIPT	PHOTO NO.	METHOD OF LOCATION
All	T-11301	41065	Angle and dist. from off. p.p.
Ape	T-11300	41035	Office p.p.
Bee	T-11302	41035	Office p.p.
Bug	T-11300	41035	Angle and dist. from off. p.p.
Can	T-11303	41065	Angle and dist. from off. p.p.
Cow	T-11300	41035	Angle and dist. from off. p.p.
Cut	T-11301	41065	Angle and dist. from off. p.p.
Dog	T-11300	41035	Angle and dist. from field radial plotted p.p.
Dol	T-11303	41035	Field radial plot
Eek	T-11300	41035	Angle and dist. from off. p.p.
Elk	T-11300	41035	Range and dist. from off. p.p.
Fox	T-11300	41035	Angle and dist. from off. p.pl
Gus	T-11300	41035	Angle and dist. from off. p.p.
Hit	T-11301	41065	Angle and dist. from off. p.p.
Ill	T-11301	41065	Angle and dist. from off. p.p.
Jap	T-11301	41065	Office p.p.
Log	T-11303	41035	Field radial plot
Log	T-11302	41035	Angle and dist. from off. p.p.
Mat	T-11300	41035	Angle and dist. from off. p.p.
Nan	T-11301	41065	Office p.p.
New	T-11302	41035	Range and dist. from off. p.p.
Nut	T-11300	41035	Angle and dist. from off. p.p.
Old	T-11301	41065	Angle and dist. from off. p.p.
Ox	T-11300	41035	Office p.p.
Pet	T-11303	41035	Angle and dist. from off. p.p.
Pig	T-11300	41035	Office p.p.
Rat	T-11300	41035	Range and dist. from off. p.p.
Sam	T-11301	41065	Angle and dist. from off. p.p.
Sky	T-11303	41065	Field radial plot
Sow	T-11300	41035	Field radial plot
Sup	T-11303	41035	Office p.p.
Tex	T-11301	41065	Angle and dist. from off. p.p.
Tim	T-11300	41035	Angle and dist. from off. p.p.
Tom	T-11300	41035	Angle and dist. from off. p.p.
Vix	T-11300	41035	Angle and dist. from off. p.p.
Yel	T-11303	41035	Angle and dist. from off. p.p.
ZIP	T-11300	41035	Angle and dist. from off. p.p.
Zoo	T-11300	41035	Angle and dist. from off. p.p.

Shoreline

Photo No.	Manuscript
41035	T-11300
41065	T-11301
	T-11302
	T-11303

PHOTOGRAMMETRIC PLOT REPORT
PROJECT NO. Ph-117
Surveys Nos. T-9435, T-9903, T-11035 & T-11293 thru T-11298

21. AREA COVERED

This radial plot report covers the entire area of Surveys Nos. T-9435, T-9903, T-11293, T-11294, T-11295, T-11297 and T-11298, that portion of Survey No. T-11296 that lies north of Tlevak Strait, the southwestern corner of T-11035. These are all shoreline surveys located along Cordova Bay, the north side of Tlevak Strait, Hetta Inlet and Nutkwa Inlet and extends northward from Kassa Inlet to the entrance to Sukkawn Inlet. That part of Klakas Inlet covered by photography was also included.

22. METHOD - RADIAL PLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black and Universal Mercator, Alaska, Zone 8, grids in red, at a scale of 1:10,000 were furnished by the Washington office. Base sheets were prepared in this office.

The positions of all control and substitute stations were plotted using the beam compass and meter bar.

A sketch showing the layout of the surveys and the distribution of control and photograph centers is attached to this report. A list of control is also attached to this report.

Photographs:

Unmounted photographs taken 8 July 1953, with the U.S.C. & G. S. nine-lens camera, focal length 8¼ inches, at a scale of 1:10,000 and unmounted single lens photographs taken during 1948 at a scale of 1:40,000 and ratioed to a scale of 1:10,000 were used in this plot.

Thirty-seven nine-lens and fifteen single lens photographs were used in this plot. They are numbered as follows:

Nine-lens photographs

40954 thru 40958
40977 thru 40979
40998 thru 41007
41009
41038 thru 41040
41042 thru 41051
41053
41055 and 41056
41058 thru 41062

Single lens photographs

SEA 26-018 thru SEA 26-022
SEA 117-108 thru SEA 117-111
SEA 117-139 thru SEA 117-144

Standard symbols were used on the photographs.

22. METHOD - RADIAL PLOT (cont'd)

Templets:

Vinylite templets were made for all photographs. The master templet was used to make adjustments for film and paper distortion and chamber displacements on the nine-lens photographs. No adjustments for film or paper distortion could be made on the templets for the single lens photographs because there were no fiducial marks.

Closure and Adjustment of Control:

Vinylite base sheets were prepared in this office. Since junctions of grid lines between several of the manuscripts could not be made, the base sheets were prepared by transferring several projection intersections, including all manuscript corners, along the neat limits of the manuscripts to the base sheet. The projection intersections for Surveys T-11299, T-11300 and T-11301 as established by the first radial plot for this project were used as a base to continue northward to the limits of the project.

All control was transferred to the base sheets at the same time that the projection intersections were being transferred.

All pass points and photograph centers established, on Surveys Nos. T-11299, 11300 and 11301, by the first plot were transferred to the base sheets for this plot.

The radial plot, actually a continuation of the first plot, was then constructed on the base sheets.

The templets for those photographs which are within the limits of surveys Nos. T-11299, T-11300 and T-11301 were relaid. Templets for 40998 to 41001 were laid next and it was found that control station NEW R.M. 1, 1908 could not be held with the other control. Templets for 41003 to 41009 were laid and control stations NEW R.M. 1, 1908 and NUT, 1918 could not be held. Templets for photographs 41044 to 41048 were then laid and again control station NUT, 1918 could not be held, however, a tie-in was made with station CEDAR 2, 1908. Templets for 41049 to 41056 were laid. Control station GULL, 1918 which had been identified in this office could not be held, however, a tie-in was made with station COPPER 2, 1908. All other templets for photographs on the east side of Cordova Bay were then adjusted in place. That part of the plot east of Cordova Bay was then complete except for the flight of single lens photographs numbered 26-018 to 26-022 which were then laid with the result that control stations FOG, 1908 and FLAT 2, 1908 could not be held.

Templets for photographs 40977 to 40979 and 40954 to 40956 were used. All control was held on these templets except SHOE, 1907-25. Then the templets for the remaining nine-lens and single lens photographs were laid and readjusted several times until the best possible result was obtained.

22. METHOD - RADIAL PLOT (cont'd)

Transfer of Points:

The positions of all photograph centers and pass points were transferred to the manuscripts by superimposing the manuscripts on the templets and matching common projection intersections and control points.

23. ADEQUACY OF CONTROL

The positions of photograph centers and pass points in Survey T-11193 may be weak due to extension of the plot beyond control and due to the poor quality of single lens photography.

In surveys T-11295 and T-11298, the two easternmost flights had no control, requiring a long bridge between the control stations at Hunter Bay (southern edge of T-11300) and control in Keete Inlet (northwest corner of T-11295). Positions of pass points in Klakas Inlet and at the head of Kassa Inlet may be quite weak due to this long bridge of 10 nine-lens photographs between control stations.

As previously stated several control stations could not be held in the radial plot.

Sub Pt. SHOE, 1907 - 25: Radially plotted position of the sub point falls 0.9 mm southeast of its computed position. Believed to be incorrectly identified by the field party. There is another "white spot" approximately 0.9 mm northeast of the "white spot" identified as the Sub Pt.

Sub Pt. NEW R.M. 1, 1908 - The radially plotted position of the Sub Pt. falls 1.5 mm north of its computed position. This may be due to either an error in computation of the position of the Sub Pt. or in the identification. First it was necessary to compute the position of NEW R.M. 1. The only information available was a bearing and distance from R.M. 1 to NEW, 1908. This bearing was assumed to be the magnetic bearing at the time the station was established.

Sub Pt. NUT, 1918 - The radially plotted position of the Sub. Pt. falls 2.4 mm WSW of its computed position. This may be due to incorrect identification as there is another point of ledge approximately in correct location that is visible on the photographs.

GULL, 1918 - The radially plotted position of this station falls 0.6 mm southeast of its geographic position. Probably due to misidentification in the compilation office. This station was not identified in the field.

FLAT 2, 1908 - No definite intersection obtained due to inability to identify accurately on the single lens photographs. A shadow point was identified on a photograph taken during 1953.

FOG, 1908 - The same conditions apply for this station as for FLAT 2, 1908.

24. SUPPLEMENTAL DATA

No graphic control surveys were used in this plot.

25. PHOTOGRAPHY

All nine-lens photographs have large light struck areas on the western side. Many have deep shadows, trees and relief displacement obscuring the shore line.

All of the single lens photographs have very poor definition and were taken five years prior to the nine-lens photographs making it almost impossible to find the points, that are common to both types of photographs.

No tilt determinations were made.

The definition is good on the nine-lens photographs except in the deep shadow and light struck areas.

The definition is very poor on the single lens photographs.

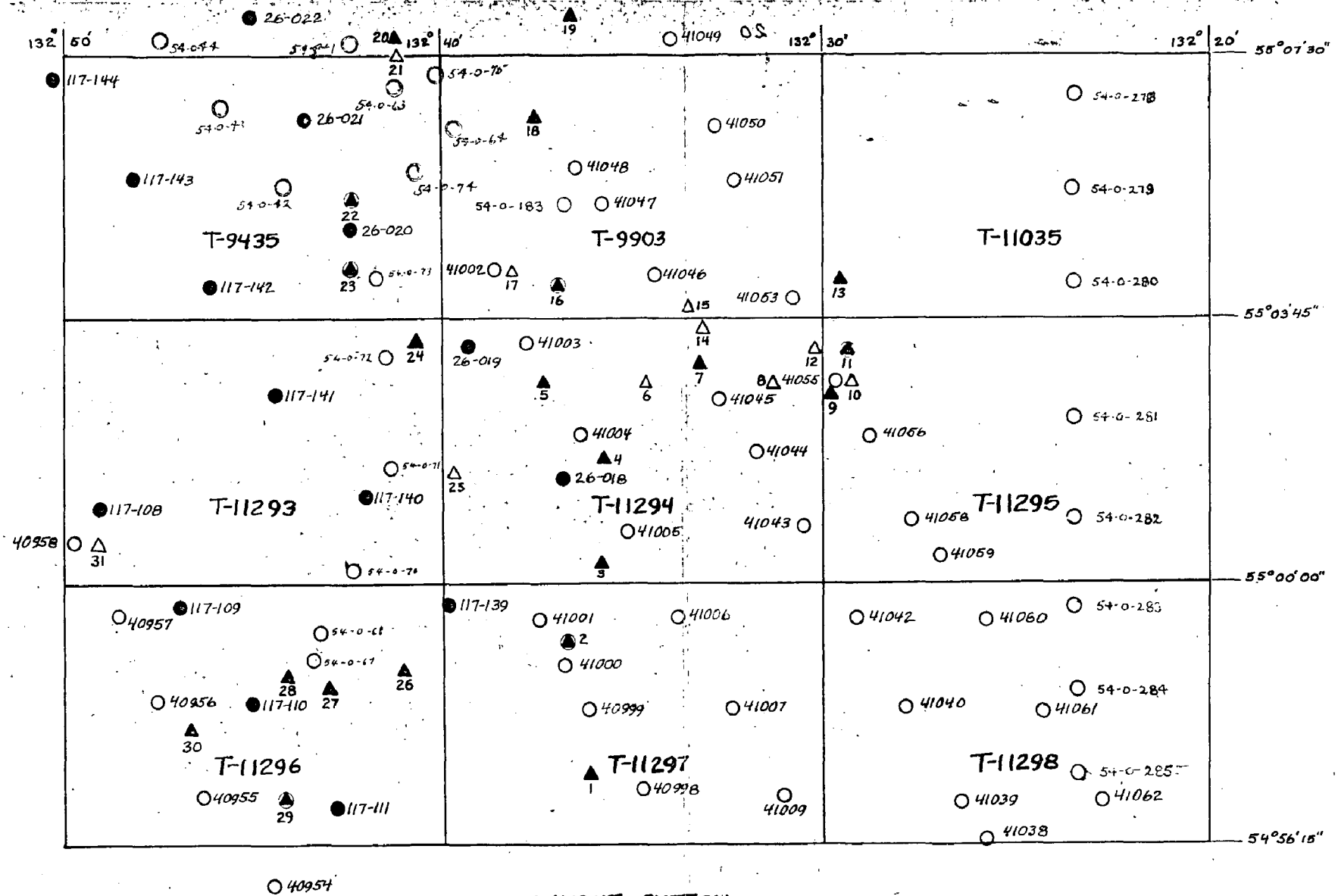
Respectfully Submitted
19 February 1954

Harry R. Rudolph

Harry R. Rudolph
Carto. Aid (Photo)

LIST OF CONTROL

No.	Name of Station	Identification
1	CLUMP, 1907-25	Sub Pt.
2	NEW R.M. 1, 1908	Sub Pt.
3	MAB, 1918	Sub Pt.
4	HAS, 1918	Sub Pt.
5	ATA, 1918	Sub Pt.
6	LIT, 1918	None
7	KEET, 1918	Direct
8	END, 1918	None
9	MED, 1918	Sub Pt.
10	COS, 1918	None
11	GULL, 1918	Ident. in Office
12	TREE, 1918	None
13	UP, 1918	Direct
14	IN, 1918	None
15	BOY, 1918	None
16	NUT, 1918	Sub Pt.
17	FLAG, 1908	None
18	CEDAR 2, 1908	Sub Pt.
19	COPPER 2, 1908	Sub Pt.
20	ROUND, 1908-14	Sub Pt.
21	EASY 2, 1908	None
22	FLAT 2, 1908	Sub Pt.
23	FOG, 1908	Sub Pt.
24	GRASS, 1905-18	Sub Pt.
25	FOOD, 1918	None
25	MELLOW ROCK, 1908	None
26	GREEN R.M. 1907-18	Sub Pt.
27	JACK, 1907	Sub Pt.
28	HEN, 1907	Sub Pt.
29	SHOE, 1907-25	Sub Pt.
30	NICE, 1907	Sub Pt.
31	LUCK, 1907	None



LAYOUT SKETCH

PH-117

SURVEYS NOS T-9435, T-9903, T-11035 and T-11293 to T-11298 inclusive

- ○ NINE LENS PHOTOGRAPHS
- ● SINGLE LENS PHOTOGRAPHS
- ▲ CONTROL STATIONS (identified)
- ◉ CONTROL STATIONS (not held in plot)
- △ CONTROL STATIONS (not identified)
- ○ 1954 SINGLE LENS RATIOED PHOTOGRAPHS

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11294 PROJECT NO. 6117 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ-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)
IN, 1918	G 463 P. 466		55 03 37.834			1170.0 (685.5)	
			132 33 01.850			32.8 (1032.2)	
TREE, 1918	"		55 03 17.285			534.4 (1320.9)	534.5
			132 30 13.092			232.4 (832.8)	
ATA, 1918	G.463 p. 465		55 02 57.085			1765.3 (90.1)	
			132 37 26.876			477.2 (588.1)	
KEET, 1918	G 463 p. 466		55 03 04.198			129.8 (1725.6)	
			132 33 17.447			309.8 (755.5)	
LIT, 1918	G 463 p. 465		55 02 56.886			1759.1 (96.3)	
			132 34 46.547			826.4 (238.9)	
END, 1918	G 463 p. 466		55 02 50.452			1560.2 (295.3)	
			132 31 21.600			383.5 (681.8)	
HAS, 1918	G 463 p. 465		55 01 51.912			1605.3 (250.1)	
			132 35 45.333			805.3 (260.5)	
MAB, 1918	G 463 p. 465		55 00 13.975			432.2 (1423.3)	
			132 35 56.648			1006.9 (59.6)	
	(See next page for Sub. Pts.)						

1 FT. = .3048006 METER

COMPUTED BY: R. Glaser DATE 21 Dec. 1953 CHECKED BY: A. Queen DATE 12/22/53

COMM-DC-5784

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-11294 PROJECT NO. 6117 SCALE OF MAP 1:10,000 SCALE FACTOR

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)
Sub. Pt. ATA			55 02			1764.0 (91.4)	
			132 37			473.7 (591.6)	
Sub. Pt. HAS			55 01			1609.3 (246.1)	
			132 35			806.3 (259.5)	
Sub. Pt. MAB			55 00			423.7 (1431.8)	
			132 35			1007.5 (59.0)	
LIME 2, 1954	G-71020 (Field)	N.A. 1927	55 03 16.758			518.2 (1337.2)	
			132 38 02.176			38.6 (1026.6)	
MELLEN RK. LT., 1954	"	"	55 01 37.048			1145.7 (709.8)	
			132 39 51.789			920.0 (145.9)	

1 FT. = .3048006 METER

COMPUTED BY: F. M. Wisiecki DATE 12/16/54 CHECKED BY: J. W. Vonasek DATE 12/17/54

COMM-DC-5784

COMPILATION REPORT

T-11294

Field Inspection Report:

1. Photogrammetric Field Inspection Report, S. E. Alaska, Cordova Bay - Prince of Wales Island, 1953, USC&GS SHIP HODGSON, F. R. Gossett, commanding.

2. Photogrammetric Field Inspection Report, Ph-117, Surveys T-11294, T-11295, T-11035, 1954, USC&GS SHIP HODGSON, J. Bowie, commanding.

3. Photogrammetrid Field Inspection Report, Ph-117, Surveys T-11293 thru T-11303, 1954, USC&GS SHIP HODGSON, J. Bowie, commanding.

Photogrammetric Plot Report:

~~The photogrammetric plot report is part of the Descriptive Report for Survey T-9903.~~

31. DELINEATION

This manuscript was delineated by graphic methods. In some areas, nine-lens photographs, scale 1:20,000 were used in the vertical projector.

32. CONTROL

In accordance with the recommendation on Form 526, station TREE, 1918 was deleted from the manuscript. In the area of MELLEN ROCK LIGHT, 1954, station HUB, 1907 is not shown, being under the concrete base for the light and is either lost or inaccessible (See Forms 526 for 1953 and 1954). Stations MELLOW ROCK, 1908 and FOOD, 1918 were deleted from the manuscript. They were not described and probably could not be found. There was no record of recovery in 1953 and 1954 when the hydrographic party visited the site.

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

Copies of the boat sheets for the following surveys were available for comparison purposes:

H-8130 (1954)
H-8131 (1954)
H-8132 (1954)

Two geographic names found on survey H-8132 were pencilled on the manuscript pending final action by the geographic names section.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

Where shoreline was obscured by shadows or relief displacement, it was shown with a broken line.

The low water line was delineated in several places by the field party.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 has been submitted for MELLEN ROCK LIGHT, 1954.

38. CONTROL FOR FUTURE SURVEYS

No Form 524 was available for recoverable topographic station FRY, 1954. Compilation office data for this station was submitted on a blank form.

Thirty-three photo-hydro stations were located on this manuscript and are listed in paragraph 49.

39. JUNCTIONS

Junctions have been made with surveys T-9903 to the north, T-11295 to the east and T-11297 to the south. There is no junction to be made with survey T-11293 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

41 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The information shown on the U.S.G.S. Craig quadrangle, scale 1:250,000 edition of 1953, is based on USC&GS Charts.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 8147, scale 1:40,000 published August 1931, corrected to 5/12/52.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
6 April 1956

Jacqueline B. Phillips

Jacqueline B. Phillips,
Carto. Photo. Aid

Approved and forwarded

E. H. Kirsch

E. H. Kirsch,
Capt. C&GS
Baltimore District Officer

August 6, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-117 (Alaska)

T-11294

Cordova Bay

Hassiah Inlet

Hetta Inlet

Keete Inlet

Keete Island

Keete Point

Lime Point

Mabel Island

Mellen Rock

Nutkwa Inlet

Prince of Wales Island

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

T-11294

49. NOTES TO HYDROGRAPHER

Recoverable topographic station FRY, 1954 is located on this manuscript.

The following are the photo-hydro stations located on this manuscript:

ABE	FIG	KEY*	POT
ALL	FIR	LIZ	RIM
ANT	GUT	MAN	ROD
BAR	HAM	MAS	SAY
BOX	HID* 55° 01.3' 132° 32.9'	ME*	SIS
BUS	HID 55° 03.7' 132° 31.2'	MOL	SOB
CAL		NOR	TOE
COW	IVY	PET	VER
DIM		POL	

*HID - Office position, 1 mm. from field position.

*KEY - No information was given to locate this station. It was transferred directly from the blackline impression.

*ME - Office position is approximately 2 mm. east of the field position

There were radial cuts and prick marks on the blackline impression in the vicinity of signals YOU and JAP (as located on the boat sheet) but no other data was furnished to locate them on the manuscript.

Form T-2

50 -

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11294

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

4a. ~~Classification label~~ ✓

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations ✓ ~~8. Bench marks~~

9. Plotting of ~~sextant fixes~~ C & GDist. 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ ~~15. Bridges~~ 16. Aids to navigation ✓ ~~17. Landmarks~~ 18. Other alongshore physical features ✓ ~~19. Other alongshore cultural features~~

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ ~~22. Planetable contours~~ ~~23. Stereoscopic instrument contours~~ ~~24. Contours in general~~ ~~25. Spot elevations~~ ~~26. Other physical features~~

CULTURAL FEATURES

~~27. Roads~~ ~~28. Buildings~~ ~~29. Railroads~~ ~~30. Other cultural features~~

BOUNDARIES

~~31. Boundary lines~~ ~~32. Public land lines~~

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. ~~Discrepancy overlay~~ 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. R. V. Clarke — Reviewer; Joseph Steinberg — Supervisor, Review Section or Unit

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 the manuscript. The manuscript is now complete except as noted under item 43. Information is not available

Compiler _____ Supervisor _____

43. Remarks:

M-2661-12

Review Report T-11294
Shoreline Mapping

September 1970

61. General Statement

Differences in some rock elevations were found between T-11294 and H-8130 (refer to Summary, "Rock Elevations"). These elevations were removed from T-11294. ~page 7

Field inspection photograph 54-0-181 was used during final review.

62. Comparison with Registered Topographic Surveys

Comparison was made with the following topographic surveys:

T-2331, dated 1897, 1:80,000 scale
T-2953, dated 1909, 1:20,000 scale
T-3717, dated 1918, 1:10,000 scale

These surveys are superseded for charting by T-11294.

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Craig (A-2), Alaska quadrangle, 1:63,360 scale, dated 1951. No differences of importance were found in the comparison.

64. Comparison with Contemporary Hydrographic Surveys

Photogrammetric survey T-11294 was used as a base for new hydrography. The following contemporary hydrographic surveys were used for comparison:

H-8128, dated 1954, 1:10,000 scale
H-8130, dated 1954, 1:10,000 scale
H-8131, dated 1954, 1:10,000 scale
H-8132, dated 1954, 1:10,000 scale
H-8134, dated 1954, 1:20,000 scale

The agreement is good between the hydrographic surveys and survey T-11494.

65. Comparison with Nautical Charts

Comparison was made with chart 8147, 1:40,000 scale, 5th Edition, corrected to July 3, 1967. No significant differences were found in the comparison.

66. Adequacy of Results and Future Surveys

(Refer to Summary, "Map Accuracy".) — page 6

Reviewed by,

Donald M. Brant

Donald M. Brant

Approved by,

Chief, Photogrammetric Branch

Jack E. Guth

Chief Photogrammetry Division

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ (STRIKE OUT ONE)

Baltimore, Maryland March 19 54

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

The positions given have been checked after listing by R. Glaser

(Signed) E. H. Kirsch

E. H. Kirsch *Chief of Party.*

STATE: ALASKA

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
LT.	Mellen Rock Light (FOCD, 1918)		55 01	37.056 1145.9	132 39	51.790 920.0	NA 1927	Triang. T-11294	1953		x		8147

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

M-2836-3

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Baltimore, Maryland, January, 19 55

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 R. Glaser

(Signed) E. H. Kirsch

E. H. Kirsch, *Chief of Party.*

STATE: ALASKA

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
LT.	Mellen Rock Light	LEM	55 01	37.048 1145.7	132 39	51.789 920.0	N.A. 1927	~~T-1129~~ Triang.	1954		x		8147

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

M-2836-3