T-11503 THRU T-11509

11503 THRU T-11509

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
T-11503 thru

Field No. Ph-148

Office No. T-11509

LOCALITY

State Alaska

General locality Clarence Strait

Locality Skowl Arm & Polk & McKensie Inlets

1954

CHIEF OF PARTY

E. H. Kirsch, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE

сомм- вс 61300

DATA RECORD

T -11503 thru T-11509

Project No. (II): Ph-148

Quadrangle Name (IV):

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):

11 October, 1954

7 December, 1954

3 January, 1955

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Multiplex and Graphic

Manuscript Scale (III): 1:10,000

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

Scale Factor (III): 1.000

Date received in Washington Office (IV): 10 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): MHW

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

Reference Station (III): END, 1924

Lat.: 55° 26' 01.924" (59.5m)

Long.: 132° 20° 29.419° (517.3m)

Adjusted Umackinstrok

Plane Coordinates (IV):

State: Alaska

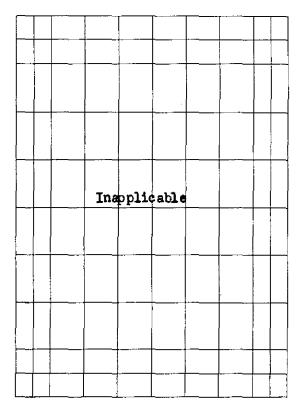
Zone:

UTM 8

. Y=

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.



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

Form T-Page 2

DATA RECORD

Field Inspection by (II):	Date:
Planetable contouring by (II):	Date:
Completion Surveys by (II):	Date:
Mean High Water Location (III) (State date and method of location):	1954, date of photography
Projection and Grids ruled by (IV): A. Riley	Date: 12/1/54
Projection and Grids checked by (IV): A. Riley	Date: 12/2/54
Control plotted by (III): J. W. Robinson	Date: 12/29/54
Control checked by (III): B. F. Lampton	Date: 12/29/54
Radial Ploy Stereoscopic L. A. Senasack Control extension by (III): E. L. Rolle	Date: 3/28/55 5 /10/55
Planimetry	Date:
Stereoscopic Instrument compilation (III): Contours	Date:
Manuscript delineated by (III): J. Y. Councill, J. B. Phil	Date: 5/19/55
Photogrammetric Office Review by (III): R. Glaser	Date: 5/ 21/ 55
Elevations on Manuscript checked by (II) (III):	Date:

Form T-Page 3

M-2618-12(4)

Camera (kind or source) (III): USC&GS nine-lens and single lens camera "O"

		PHOTOGRAPHS (I	II)	
Number	Date	Time	Scale	Stage of Tide
54-0-81 thru 96	6/4/54	1120	1:10,000	0.4' below MLLW
54-0-162 thru 168	n	1221	H	3.3 above MLLW
54-0-194 thru 200	11	1605	11	14.5' above MLIW
45406 thru 45411	11	1124	1:20,000	0.4' below MLLW

Fro Reference Station: Ketchikan, Ala Subordinate Station: Saltery Cove, Subordinate Station:		Ratio of Ranges Range Range 13.0 15.4
Washington Office Review by (IV):		Date:
Final Drafting by (IV):		Date:
Drafting verified for reproduction by (IV):		Date:
Proof Edit by (IV):		Date:
Land Area (Sq. Statute Miles) (III): Shoreline (More than 200 meters to oppose Shoreline (Less than 200 meters to oppose Control Leveling - Miles (II): Number of Triangulation Stations searche Number of BMs searched for (II): Number of Recoverable Photo Stations est Number of Temporary Photo Hydro Station	ite shore) (III): * Indicate the shore of t	Identified: 5
Remarks: #Survey	Mi. Shoreline (More than 200 m)	Mi. Shoreline (less than 200 m)
T-11503 T-11504 T-11505 T-11506 T-11507 T-11508	3.3 8.8 2.3 36.0 23.2 2.8 16.5	1.4 2.1; 9.0 5.7 1.1 2.4

Form T-Page 4

M-2618-12(4)

PHOTOGRAMMETRIC PLOT REPORT PROJECT PH# 148 SURVEYS T-11503 thru T-11509 incl.

21. AREA COVERED

This radial plot covers the area of Surveys T-11503 through T-11509 inclusive. These are shoreline surveys in the vicinity of Kasaan Bay, Polk Inlat, McKenzia Inlet and Skowl Arm on Prince of Wales Island, Alaska. This radial plot at 1:20,000 scale was used to establish pass points to control a 1:10;000 multiplex bridge.

22. METHOD - RADIAL PLOT

Map Manuscript-

Vinylite sheets with polyconic projections in black and U.T.M. Alaska Grids in red, at a scale of 1:10,000, were furnished by the Washington office. Base sheets were prepared in this office at a scale of 1:20,000.

All control was plotted on the map manuscripts using the beam compass and meter bar method.

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

Photographs-

Eight (8) nine lens photographs at a scale of 1:20,000 were used in this radial phot, numbered as follows; 45406, 45408 through 45414 inclusive.

Templets-

Vinylite templets were made of all photographs using a master templet to make adjustments for paper, film and chamber displacements.

Closure and adjustment to control-

Vinylite sheets with 2,000 meter grids were used as base sheets. All control was transferred graphically from the manuscripts to the base sheets.

The radial plot was started on the east side and extended to the west and tied into control station TIP, 1924. To do this the plot had to be adjusted several times since the first three photographs that had identified control on them were tilted.

It was noted while pricking the Sub Pt for station END, 1924 that the measured distance in feet and meters did not check. The photographs were studied stereoscopically and with the aid of the description 3Ad attempt was made to prick the station direct. Since this point would not hold in the plot the photographs were studied again and stations REN, 1924, ARM, 1924 and OWL, 1924 were pricked using the stereoscope and descriptions. Only station REN, 1924 could be held. The one cut to Sub Pt PIT, 1924 could not be held, since it was so far out near the edge of the photo it was considered doubtful for this radial plot.

Transfer of points-

All pass points which were common on both the nine lens and single lens

(contact approx. scale 1:27,500) photographs were transferred to the map manuscripts using transparent templets. A templet was made of each pass point by drawing radial lines to the four grid intersections common between the map manuscripts and base sheets. The templet was then placed on the map manuscript and the point pricked and circled. These points were used to control the multiplex bridging.

23. ADEQUACY OF CONTROL

The density and distribution of identified control was inadequate for a satisfactory radial plot. Only stations BIRD, 1924 and Sub Pt. ISLAND, POINT 2, 1921 could be held at the east end of the plot. The radial plot was tied into only one station, Sub Pt. TIP, 1924, at the western end.

The position of the office identified point for END, 1924 fell 0.8 mm to the west of the plotted position. Since the three (3) photographs, on which this point and other identified points on the eastern end are identified, are all considerably tilted, and accurate and definite fix could not be obtained.

Although a bare minimum of control was identified according to project instructions, the quality of identification was poor. The results obtained are not considered to be satisfactory due to inadequate control identification, however points on the map manuscripts, are the best that can be obtained at the present time. The pass points on the couthern half of survey T-11509 are probably quite weak and considered to be below the normal standard of map accuracy.

24. SUPPLEMENTARY DATA

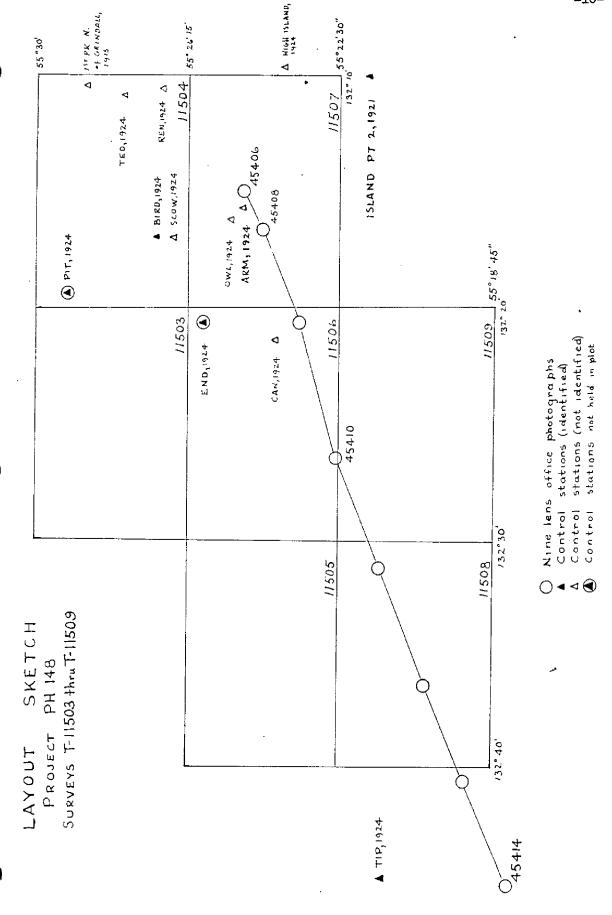
No supplementary data was used in this radial plot.

25. PHOTOGRAPHY

The photograph definition was good but coverage was adequate only for the area of Skowl Arm and its tributaries, which is the extent of the proposed hydrography at the present time.

Respectfully submitted 28 Larch, 1955

Leroy A. Senasack Carto. Photo. Aid



ADDENDUM TO PHOTOGRAMMETRIC PLOT REPORT Project Ph-148 Surveys T-11503 thru T-11509 Incl.

21. AREA COVERED

T-11503 thru T-11509 incl.

22. METHOD - MULTIPLEX BRIDGING

Bridging was done by multiplex at a scale of 1:10,000 using 1:27,500 scale photography. Five bridges were run to cover these quadrangles. The purpose of these bridges was to establish a set of detail points which were consistent in scale throughout the entire area. The control sketch bound with this report indicates the placement of control relative to each strip.

Many of the flight lines ran diagonally across several manuscripts, making it necessary to prepare work sheets for the bridges. Detail points and all other pertinent information dropped on the work sheets were then transferred to the manuscripts.

Radial plot points were furnished as horizontal control for the above mentioned strips. These points were adequate, but due to the impossibility of holding all of them in an individual strip, an average had to be obtained. When resulting best possible average was attained, points were dropped. Where strips overlapped, detail points were favored between the two strips so that the scale would remain consistent.

Strips 92 to 94 and 161 to 167 had breaks in stereoscopic coverage (see attached control sketch). We overcame the break between 92 to 94 by dropping a detail point in model 93 and 94 and checking into this point monoscopically in model 192 and 93. The point checked exceptionally well. In strips 161 to 167, we took care of the break by dropping detail points monoscopically in model 164 and 165 and holding this point in model 165 and 166. There were enough radial plot points in the vicinity of the above-mentioned breaks to assure us that the desired scale consistency would not be affected.

In conclusion, we believe we have established a set of detail points which are consistent in scale throughout the entire area of these surveys.

23. ADEQUACY OF CONTROL

We used thirty-seven (37) radial plot positions in these bridges. 70% were held within 0.0 mm to 1.0 mm; 18% were held within 1.1 mm to 1.5 mm and 12% within 1.6 mm to 2.0 mm. There was no error greater than 2.0 mm.

In strip 92 to 94, the radial plot position of END, 1924 could not be held. We were missing this position by 1.0 mm.

All identified triangulation stations were considered held if error was 0.3 mm or less.

24. SUPPLEMENTAL DATA

None.

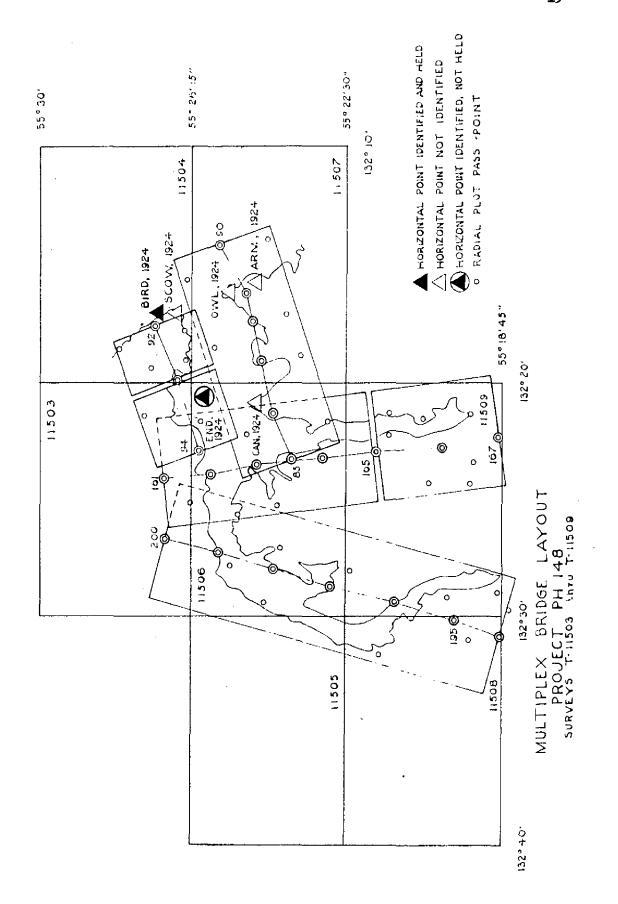
25. PHOTOGRAPHY

The photography seemed good but the diapositives were unusually thin. As a result, many desirable points which were clear on the ratio prints were not visible in the multiplex models. The diapositives also appeared to be covered with spots of dirt. This was called to the attention of the Technical Assistant to Chief, Division of Photogrammetry. Refer to 711-aal dated 7 April, 1955. Consideration was given to re-ordering the diapositives but was rejected as impracticable. The diapositives were considered us wable for their purpose.

Respectfully submitted

10 June 1955

E. L. Rolle Carto. (Photo.)



FORM **164** (4-23-54)

MAP T. 11504

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

SCALE FACTOR

1:10,000

SCALE OF MAP....

PROJECT NO. Ph-148

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784. (BACK) FORWARD DATE 11/16/54 202.3) 23.4) 17.0) 676.0) (H-06T) 199.0) DISTANCE FROM GRID OR PROJECTION LINE IN METERS 680.0) 768.3) (182.8)(1695.2)156.3 167.2) 755.0) (1718.0)(1514.9) 760-4 (BACK) N.A. 1927 - DATUM 298.5 137.5 854.8 1808.5 851.9 872.0 886.1 340.6 293.1 160.3 564.3 FORWARD 1175.6 1179.6 1031.2 1087.3 1699.3 CHECKED BY JOSEPH Steinberg DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD 49.599 32,102 50.473 35.157 05.184 54.947 48.671 11,014 58.479 744.40 58,669 148-1186 38.01 16,691 LONGITUDE OR x-COORDINATE LATITUDE OR "-COORDINATE DATE 2 December 1954 29 2 10 29 13 29 19 79 26 위 28 19 28 검 27 27 132 껐 132 132 132 3 132 \mathcal{R} 132 弘 132 쏬 132 쏬 3 弘 DATUM N.A. 1927 • £ F # = # = SOURCE OF OF GRINDALL, 1915 p. 120 (INDEX) 06 •d 609-0 G-609 p. 89 0-609 p - 90 G--609 P- 89 G-609 P• 89 G-609 p-89 609-D COMPUTED BY H. R. Rudolph Comp. 1st PEAK NORTH 1 FT. = .3048006 METER 2, 192h Sub. Pt. A PIT, 1924 STATION BIRD, 1924 SCOW, 1924 PIT, 1924 TED, 1924 REN, 1924 NEW

U.S. DEPARTMENT OF COMMERCE

KONTROL RECORD DESCRIPTIVE REPORT 🦓

COAST AND GEODETIC SURVEY

SCALE OF MAP...1:10,000....

PROJECT NO. Ph-148

SCALE FACTOR....

FROM GA:D OR PROJECTION LINE FROM GRID ON PROJECTION LINE IN METERS COMM- DC- 5784 (BACK) DATE 29 December 1951 5 FORWARD (1813.4) 541.0) (1796.0)537.8 N.A. 1927 - DATUM FORWARD 59.5 517.3 514.1 12.1 DATUM снескер ву. А. Queen DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (BACK) FORWARD 2 December 1954 29,419 LONGITUDE OR x-COORDINATE 01.924 LATITUDE OR y-COORDINATE 56 26 8 20 \mathcal{R} 쏬 132 132 DATE. DATUM N.A. 1927 = SOURCE OF INFORMATION (INDEX) COMPUTED BY H. R. Rudolph G-609 P• 90 Comp. 1 FT.=.3048006 METER STATION Sub. Pt. END, 1924 END, 1924



MAP T- 11506

COAST AND GEODETIC SURVEY CONTROL RECORD DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

SCALE OF MAP...1:10,000

PROJECT NOW-148

MAP T. 11507

SCALE FACTOR

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784. 16 FORWARD DATE 29 Dec. 1954 30936 555-21 (174.2)(884.7) (1076.6)(1043,3) DISTANCE
FROM GRID OR PROJECTION LINE

/ IN METERS (892.6) (1069.3)(1080.8) (173.6) 919.9) (1028.8) (1043.2)651.8 (BACK) 462.2 1722.6 N.A. 1927-DATUM 403.8 970.9 1681.3 778.9 786.2 13.5 1682.0 135.6 27.8 13.4 774.7 162.7 FORWARD 133.0 793.7 DATUM снескер ву. А. Queen OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) 10 FORWARD FUST 25.424 54.366 01.581 54.387 31,393 09.249 07.710 25,187 00.759 22,951 LONGITUDE OR x-COORDINATE LATITUDE OR #-COORDINATE 04.30 45.10 2 December 1954 19 2 컩 16 77 13 22 22 ្ព 22 유 4 0 132 132 32 132 띴 132 끘 \mathcal{R} K 132 ኢ 132 کارکا 132 DATE DATUM N.A. 1927 = = = = SOURCE OF INFORMATION (INDEX) SP-164 p. 23 COMPUTED BY H. R. Rudolph G-609 P-89 아 •d 0-609 p • 4 G-609 P- 44 609-0 Ø 1 FT. = .3048006 METER હ 0951 ISLAND PT., 1921 STATION ISLAND PT., ISLAND PT. HIGH ISLAND CAN, 1924 4RM, 1924 OWL, 1924 Sub. Pt. 1921-全柱 1912-21 LIGHT

FORM **164** (4-23-54)

COMPILATION REPORT Project Ph-148 Surveys T-11503 thru T-11509

Field Report: There was no field work done except the recovery and identification of control stations during the 1953 and 1954 seasons.

31. DELINEATION

Pass points and detail points were located by instrument methods but due to the poor quality of the diapositives, no delineation was attempted with the multiplex. Compilation of all features was done using ratioed photographs. In Polk Inlet additional pass points were established graphically where needed.

Centers of photographs not used in the multiplex bridging were located graphically and are shown with broken circles.

Areas of Twelvemile Arm (T-11505), Kasaan Bay (T-11503, T-11504) and south of Patterson Island (T-11507) were not delineated because they were not required by present compilation instructions.

In areas where the shoreline was obscured by shadows or relief displacement of the trees, the shoreline was shown with a broken line.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

Chart No. 8142, the Coast Pilot and the U.S.G.S. Craig, Alaska quadrangle were used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Not applicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The delineation of the shoreline is based on office interpretation of the photographs. The low water and shoal lines are based on office interpretation of the low stage photographs including the nine-lens photographs (1:20,000 scale). The ledge symbol was shown only where there was positive interpretation of ledge.

In Polk Inlet (T-11509) nine-lens photo. 45410 had to be used to delineate the west shoreline.

36. OFFSHORE DETAILS

Shoal or foul areas visible on the low water photographs were outlined as an aid to the hydrographic party. Several rocks which seemed to be under water on the low water photographs have been shown as sunken rocks.

37. LANDMARKS AND AIDS

Forms 567 have been submitted. Refer to paragraph 49.

38. CONTROL FOR FUTURE SURVEYS

Shoreline pass points have been selected for use in locating photo-hydro signals. Suitable points to be field identified could not be selected because of the poor quality of the diapositives. Radial lines have been drawn thru several points on each photograph for the purpose of locating elevated points in accordance with paragraph 6, Photogrammetry Instruction No. 45, Revision I, dated 15 March 1954. It is recommended, however, that where possible, the method described in paragraph 7, be employed using the photograph nearest to scale in the area of the signal to be located.

39. JUNCTIONS

Junctions among these manuscripts have been made and are in agreement. There is no junction to be made with survey T-11495 (Ph-117) south of survey T-11508.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report. All these map manuscripts were classified as "PRELIMINARY" because of the weakness of positions due to inadequate control identification and lack of control.

41 - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the U.S.G.S. Craig Alaska quadrangle, scale 1:250,000, edition of 1952.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 8142, scale 1:40,000 published May 1954.

Items to be applied to charts immediately: None.

Items to be forwarded: None.

Respectfully submitted 20 May 1955

Joseph W. Vonasek Carto. (Photo.)

Approved and Forwarded 21 June 1955

E. H. Kirsch, Comdr. USC&GS

Officer in Charge Balto. Photo. Office

18). GEOGRAPHIC NAMES LIST

Geographic names were taken from the chart, the Coast pilot and the Craig Alaska quadrangle.

T-11503

Prince of Wales Island

Smith Cove Smith Lagoon

T-11504

Black Rock Daisy Island

Kasaan Bay Kasaan Point

Prince of Wales Island

Skowl Arm Smith Cove

T-11505

Polk Inlet

Prince of Wales Island

T-11506

Cabin Creek

East Sentinel Island

Khayyam Point (Khayam on Craig quad.)

McKenzie Inlet McKenzie Rock

Old Kasaan Village (abandoned)

Old Tom Creek Paul Bight

Polk Inlet

Prince of Wales Island

Saltery Cove Skowl Arm Smith Cove

West Sentinel Island

T-11507

Kasaan Bay

Prince of Wales Island

Saltery Cove Skowl Arm Skowl Point

T-11508

Dog Salmon Creek

Polk Inlet

Prince of Wales Island

T-11509

Dog Salmon Creek

Kiam

McKenzie Inlet
Omar Creek
Polk Creek
Polk Inlet
Peacock Island

Prince of Wales Island

Rock Creek

49. NOTES FOR HYDROGRAPHER

There are two charted lights in the area of these surveys.

* Skowl Point Light was identified and located on survey No. T-11507.
Saltery Cove Light (T-11506) could not be identified.

Refer to paragraph 38 regarding the use of the pass points for locating signals.

Indicate any bluffs significant for charting.

The character of the foreshore should be verified. The ledge symbol was used only where it appeared definitely to be ledge.

A foul line symbol was used to outline all areas which were interpreted to be shallow, foul, shoal, sunken rocks and reefs etc., most of which are below MLLW.

Charted features could not be found in Old Kasaan Village and Kiam.

*Office identified and location should be verified during hydrography.

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PHOTOGRAMMETRIC OFFICE REVIEW

T-/1503 Hru T-11509

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	CONTROL STATIONS
5. Horizontal control stations of third-ord	ler or higher accuracy6Re coverable herizental statio n
than third-order accuracy (topographic st	tations)7. Photo hydro stations8. Bench marks:
9. Plotting of sextant fixes10.	Photogrammetric plot report11. Detail points
	ALONGSHORE AREAS
	(Nautical Chart Data)
12. Shoreline13. Low-water lin	ne14. Rocks, shoals, etc 15. Bridges
to navigation 17. Landmarks _	18. Other alongshore physical features 19. Other
shore cultural features	
	PHYSICAL FEATURES
20 Water features 2 21 Natural	ground cover 23Ster
	purs in general25. Spot alevations26: Other
	nurs in general 25. Spot maxations 20. Other
<u>features</u>	
	OULTHDAL SEATURE
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27. Roads 28. Buildings	29. Reilroeds 30. Other sultural features
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31_ Boundary lines 32 . Public 33. Geographic names 34. June	BOUNDARIES Hand lines MISCELLANEOUS Ictions 38. Field inspection photographs 39. Forms Joseph Sternburg
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31_ Boundary lines 32 . Public 33. Geographic names 34. June	BOUNDARIES Hand lines MISCELLANEOUS Ictions 38. Field inspection photographs 39. Forms Joseph Sternburg
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31. Boundary lines 32. Public 33. Geographic names 34. June 24. Descriptive Report 40 Reviewer 41. Remarks (see attached sheet) FIELD COMPLETION A	BOUNDARIES MISCELLANEOUS 36. Discourse 36. Discourse 36. Discourse 36. Discourse 37. Forms 38. Field inspection photographs 39. Forms 50. Cash 50. Discourse 50.
31. Boundary lines 32. Public 33. Geographic names 34. June 37. Descriptive Report 40 37. Descriptive Report 40 40 Reviewer 41. Remarks (see attached sheet) FIELD COMPLETION 42. Additions and corrections furnished in	BOUNDARIES MISCELLANEOUS 36. Discourse 36. Discourse 36. Discourse 36. Discourse 37. Forms 38. Field inspection photographs 39. Forms 50. Cash 50. Discourse 50.

T-11503 thru T-11509 SKOWL ARM, POLK & MCKENZIE INLETS

NOTES FOR THE HYDROGRAPHER

The delineation of shoreline of Skowl Arm was based on 1958 field inspection and elevations shown were observed in field.

In Polk and McKenzie Inlets delineation of shoreline was by office interpretation of photographs. Areas where shoreline interpretation was difficult, due to deep shadows, were shown with a broken line and should be verified.

No buildings were visible on photographs at Kasaan Village on the north shore of Skowl Arm (T-11506) or at Kiam at the head of McKenzie Inlet (T-11509).

Approximate low water lines were delineated from photography taken near low tide. In the southern part of Polk Inlet (T-11509), they were delineated from 1:20,000 scale nine-lens photographs (1954), using a vertical projector to compensate for scale. These photographs were taken at MLLW and ratioed photographs used for shoreline delineation were near MHW.

The sunken rocks and foul area in the middle of Polk Inlet (T-11509) should be verified.

Investigate the character and existence of the unidentified object at the head of McKenzie Inlet.

No bluffs were shown. The heights and extent of any bluffs of sufficient importance for charting should be inspected.

F OF COMMERCE DEPARTME

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED HIGHER A

Baltimore, Maryland

28 June

19 55

I recommend that the following objects which have not) been inspected from seaward to determine their value as landmarks be charted on (#144/#bff) the charts indicated.

J. Steinberg The positions given have been checked after listing by

(Signed) E. H. Kirsch Condr. E. d. Kirsch

										3	Chief of rarry.	arty.
	S. B. ALANA				POSITION				į	TMAH	CHART	
# K		-	T T	LATITUDE *	LON	LONGITUDE		LOCATION	OF	0 B C		CHARTS
CHARTING	DESCRIPTION	BIGNAL		" D.M.METERS	•	D. P. METERS	DATUM		LOCATION	HSMI		
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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.

TOWNS AND METERS

| |-|-

Form 56 April 194