6876

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE Field No. Office No. T-9139
LOCALITY
State ALASKA
General locality PRINCE WILLIAM SOUND
Locality VERDANT ISLAND
1950-57
CHIEF OF PARTY FIELD: G. A. Nelson OFFICE: L. W. Swanson
LIBRARY & ARCHIVES
DATE

USCOMM-DC 37022-P68

T - 9139

Project No. (II): PH-152 (office)Quadrangle Name (IV):

VERDANT ISLAND

PH-39(48)) Field

Field Office (II):

Ship LESTER JONES

Chief of Party:

George A. Nelson

Photogrammetric Office (III): Washington, D. C.

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):

16 March 1951 (field)

31 Dec. 1954 (office) 731 mkl

11 Feb. 1955 (office) 732 mkl

Copy filed in Division of Photogrammetry (IV)

Office files

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.0

Date received in Washington Office (IV): WIN 2.2 Pate 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: 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):

BARON, 1933

Lat.: 60-14-52.717

1631.6m. (225.4)

Long.: 148-10-51.671

Adjusted **Describered**

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.

DATA RECORD T-9139

Ross A. Gilmore Field Inspection by (II):

David F. Romero

Date: 30 June 1951

to 24 Sept. 1951

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

8-27-51; 8-29-51; 8-31-51; 9-11-51; 9-18-51; 9-21-51; 9-12-51 Field inspection of photographs

Projection and Grids ruled by (IV):

A. Riley

Date: 1-4-55

Projection and Grids checked by (IV): H. D. Wolfe

1-10-55 Date:

G. S. Amburn Control plotted by (III):

B. Hale

April 1955 Date:

Control checked by (III):

Date:

April 1955

Radial Plot or Stereoscopic

S. G. Blankenbaker and

Date: May 1955

Control extension by (III):

R. J. French

Planimetry

Stereoscopic Instrument compilation (III):

Contours

Date:

Date:

Manuscript delineated by (III):

G. Amburn

Date: June 1955

Photogrammetric Office Review by (III):

R. J. French

Date:

June 1955

(Partial): E. H. Ramey

NOV 1957

Elevations on Manuscript

checked by (II) (III):

Date:

Form T-Page 3

M-2618-12(4)

Camera (kind or source) (III):

USC&GS Single Lens "W" Camera, 6" focal length

		111010011111111111111111111111111111111	,	
Number	Date	Time	Scale	Stage of Tide
54-W-2434 thru 2437	26 July 1954	14:14-14:16	1:10,000 (Ratio)	4.1 above MLLW
54-W-2386 thru 2390	11	13:37-13:39	1:10,000 (Ratio)	4.81 11 11
54-W-2325 thru 2328	II-	13:02-13:03	1:10,000 (Ratio)	5.41 " "
Field Inspection:				
23VV thru 25VV M383	11 Aug. 1950		1:40,000	
76VV thru 78VV M383	11 Aug. 1950		1:40,000	

Tide (III) Diurnal Ratio of Mean **Spring*** Range Ranges Range Cordova, Alaska 1.0 10 Reference Station: Chenega I., Dangerous Passage Subordinate Station: •94 Subordinate Station: Atlantic Marine Center Washington Strick Review by (iV): C. H. Bishop Date: 12-15-70 Date: Final Drafting by (IV): Date: Drafting verified for reproduction by (IV): Date: Proof Edit by (IV): Land Area (Sq. Statute Miles) (III): Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III): Control Leveling - Miles (II): Identified: 3 Number of Triangulation Stations searched for (II): -Recovered: Recovered: Identified: Number of BMs searched for (II): Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III): 68

Remarks:

*.94 ratio of ranges suggested by Tides and Currents for sheets T-9138 thru T-9145 (excepting Hogg Bay Sub-Station ratio for T-9143).

M-2618-12(4)

T-9139

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline compiled	June 1955	Superseded
New radial plot, field edit applied, manuscript re-compiled	Nov. 1957	
Final review	Dec. 1970	

Prince William Sound, Alaska

The Mary Campanage Inc.	OFFICIAL MID	LEAGE FOR COST LIN.MI. SHORELINE	ACCOUNT AREA C MILES
ortage Livand Glacier 1654	9118 9119	3 9	13 11
Grandles 9135 79136 9137 181and 181and	9122 9122 9122 9122 9122 9122 9122 9122	113777555746554680324096984594566491372979109	1077563638650510587582349889978046106950940687
	TOTALS	702	726

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-9139

Several years have elapsed between the compilation and final review of this map. Only three of the compilation photographs were available at the review stage. The compilation record was added by the final reviewer.

This shoreline manuscript, scale 1:10,000, is one of 43 maps that comprise Project PH-152, which is in the western part of Prince William Sound. T-9139 contains the confluence of Icy Bay and Dangerous Passage.

Compilation was by radial plot, using ratio prints of 1:30,000 scale photographs taken in July, 1954. Field inspection was done on 1:20,000 scale ratio prints of 1:40,000 scale photography taken by the Air Force in August, 1950.

Field edit was performed in conjunction with hydrography in 1957. The mean high water line was corrected by planetable in some places and indicated on the photographs in others. In the fall of 1957 a new radial plot was run and the manuscript was re-compiled, using the additional data.

Final review was done at the Atlantic Marine Center in December 1970.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 11 minutes 15 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

FIELD INSPECTION REPORT
PRINCE WILLIAM SOUND, ALASKA
Project Ph-39(48); CS-277, 1951 Season
Ship LESTER JONES, George A. Nelson, Commanding

2. Areal field inspection. --- In general, the 1951 photogrammetric field surveys of the Ship IESTER JONES for Project Fh-39(48) consisted of all of item (a) and part of item (b) of paragraph 2. of the project instructions. A FROCRESS SKETCH showing the entire area of field inspection is attached to this report. In accordance with letter 71-jgh, dated 4 October 1951 (copy attached), the field data was compiled in the following order:

Area l.-- Area east of Unakwik Inlet (part of item 2.

(a) of project instructions).

Area 2. -- Remainder of item 2.(a).

Area 3.-- Area in vicinity of Chenega Island. This arrangement was maintained in compiling control, topographic and peak station data and the various areas are indicated on the attached print of the PRCGRESS SKETCH. All data and photographs for Area 1 were transmitted to the Washington Office on 15 November 1951 and the remaining two areas are being submitted as of the date of this report.

Field inspection consisted of (1) recovery and identification on aerial photographs of alongshore triangulation stations; (2) approximate identification of existing interior stations and establishment of a few new interior stations in Area 3; (3) shoreline inspection; and (4) selection and identification of phototopographic and photohydro stations.

In general, the coastline inspected is mountainous with little or no beach except at the heads of bays and larger identations (usually glacial moraines). In most all cases the shoreline is vertical with trees growing to the immediate cliff edge or high water line. The mountainsides are generally covered with a thick growth of coniferous trees interspersed with patches of moss and grass and berry bushes. Alder is found in the glacial valleys and in patches along some of the side slopes, mostly in Area 3. The rock in the area inspected is a very hard granite, oftentimes polished smooth from glacial action. Numerous extensive crevices and faults were noted during the inspection and are very evident on the photographs.

Photographic coverage consisted of nine-lines photographs taken in 1948 and 1949 at a scale of 1:20,000 and single-lens photographs taken by the Air Force in 1950 at an approximate scale of 1:40,000. Ratio prints of the Air Force photographs were furnished on a scale somewhat larger than 1:20,000. Most of the nine-lens photographs were cut to a folded size of 18" x 24" for convenience in handling in the field. Considerable of the nine-lens photographs had been sent to the field in 1948 and had already been cut up in 12" x 12" squares. It was found that better efficiency could be maintained in the field if these squares were rejoined by scotch tape and folded on the cuts to suit the area

being inspected rather than to use them as individual 12" x 12" squares. Cutting the nine-lens photographs to this small size also creates a difficulty in that shoreline detail is often cut at a disadvantageous place. It was found that by cutting the photographs to a 18" x 24" size and making use of the central portion of the photograph that better results were obtained. All of Areas 1 and 2 with the exception of the Waked Island group and the west side of Perry Island (where single-lens photographs were supplied) were adequately covered by nine-lens photographs except for the main part of Perry Island. Here, the nine-lens coverage was such that extreme wing portions had to be used. This presented a problem in control identification. In general, the definition of the nine-lens photographs was good and were easier to interpret than the single-lens. Here, due to having been enlarged to twice their original scale, the inherent only fair definition of the single-lens photographs was amplified causing considerable trouble and excessive eye strain in making accurate identification. However, the single-lens photographs were more convenient to handle and use in the field than the folded nine-lens photographs. Poor coverage was had in parts of Area 3 due to the excessive width of the flight lines. In some instances there was no overlap in flights in this area.

All shoreline inspection was accomplished using the ship's 20 foot dories fitted with a small "dog house" across the gunwales to project the photographs and instrumental equipment. However, it was generally necessary to take the photograph out into the daylight for close inspection, thus exposing it to the weather. All notes were made directly on the photographs with a soft lead pencil with leaders to the points pricked or detail noted. No inking was attempted in the field. All control and topographic station data was inked on the photographs in the evening of the same day the field work was accomplished, leaving other data to be inked at a latter date. Consequently, a maximum of field work could be accomplished and certainty assured that control data was complete before advancing to a new area.

Fhotographs were clipped to a piece of light plywood to facilitate handling and at most times the inspector could stand up in the boat and by using the top of the "dog house" as a plotting table carry on his shoreline inspection quite readily. In general, it is believed that sufficient notes have been made to aid the compiler in interpreting the photographs. No attempt was made to use a stereoscope in the dory. This is an impracticability. All sterescope work was done aboard ship.

3. Horizontal control. --- Sufficient alongshore horizontal control stations were recovered and identified. No new stations were established ed except in Area 3. Here, 4 peak stations were established by occupying recovered triangulation stations (see Geographic Positions, Form 28 b, submitted 15 November 1951). In a good many instances there is a plethora of identified control stations, especially in the Maked Island group and parts of Area 3. However, due to the fuziness of detail sometimes on the single-lens photographs and overhanging trees, etc., most stations were recovered with the idea of identification if possible as it would not be

known until arriving at the next station which would be the best to identify. In as much as an attempt was made to recover all along-shore stations anyways, not too much additional time was used in actual identification. It is believed that the plethora of identification was justified in taking all things into consideration.

Station ROCK, 1912 and FERRY ISLAND LIGHT, 1948 were recovered prior to receipt of the single-lens photographs covering this area and inspection and identification had to be made on the outer wing portion of Fhoto No. 29842. It is possible that better results would have resulted here had better coverage been available at the time of field inspection.

The three control stations identified on single-lens photograph M-383, 28 VV(2) fall outside of the reported 1951 field inspection area. The control data is attached to the photograph and is submitted to assist in controlling the radia plot of Area 3.

A breakdown of recovered and identified horizontal control stations was made for each area and have been listed alphabetically, showing the photograph on which identified and the method of identification. In most cases identification was made by the substitute station method. The above lists are attached to this report. A separate list has been attached showing control stations recovered but not identified, also indicating LOST stations. All alongshore control stations were searched for and have been reported on Form 526, RECCVERY NOTE, TRIANGULATION STATION. All control stations recovered and identified have been shown on the PROGRESS SKETCH for the project.

Peak stations were spot identified as outlined in paragraph 10. of the project instructions. Stations for which a horizontal position is available have been indicated by a large green triangle on the photographs and those without position but having only a single direction and vertical angle have been indicated by a large green circle. All peak stations identified have been listed by areas and are attached to this report. A concerted effort was made to identify as many of these inland stations as practicable depending upon the location of the ship while in an area and also weather conditions at the time. Additional inland stations were determined in Area 3 as called for in paragraph 11. of the project instructions. From necessity, the locations determined depended upon thin intersections. Cuts and vertical angles were taken to additional identified peaks in this area.

4. <u>Vertical control</u>. --- Vertical control for contouring by stereoscopic instruments can be obtained from the identified alongshore and
inland control stations for which elevations are available. No attempt
was made to abstract all stations with elevations as this data is available on the geographic position lists. However, an abstract of new
elevations determined was made and is attached to this report. The

vertical angles for stations for which no horizontal position has been determined can be obtained from the ABSTRACT OF ZEMITH DISTARCES, Form 29, submitted with other triangulation data on 15 November 1951. Standard methods were used in locating additional peaks and obtaining elevations.

5. Contours and drainage. ---

Inapplicable.

- 6. <u>Woodland cover.---Woodland cover exists in almost the entire</u> area of the project and in most cases is right to the waters' edge. See paragraph 2. of this report for futher information regarding this subject.
- 7. Shoreline and alongshore features .-- Shoreline inspection was accomplished in the entire area indicated by cross hatching on the attached FROGRESS SKETCH. The mean high-water line has been idicated on the photographs and no difficulty should be experienced by the complier in its delineation. In a great many cases the high-water line is at the immediate bluff edge which is also the tree and grass or tundra line. In some cases the approximate low-water line is indicated on the photographs but generally only the limits of shoal or reef areas are shown. All shoreline inspection was done from a 20 foot dory by skirting along the shore and also by actually going ashore at appropriate places where phototopographic stations were to be selected or horizontal control stations were being recovered and identified. It is believed that sufficient notes have been made to give the compiler a good idea of shoreline and alongshore features. However, it should be pointed out that a lot of shoreline information not specifically shown can be gleaned from reading the short descriptions of the photohydro stations inked directly on the face of the photographs. There are a few piers, landings and buildings alongshore in the area field inspected. These have been indicated on the photographs and all buildings considered worth delineating have been shown.
- 8. Offshore features. --- An attempt was made to indicate all offshore high-water rocks and rocks awash on the photographs. In some instances a 3 point sextant fix was taken on offshore rocks which could not be readily identified. These fixes have been shown directly on the photograph. In some cases were a spot of some nature appeared on the photograph but no actual feature was found a note was made (generally by the letters NE) indicating the feature or spot was not evident upon visiting the area. In a few instances notes were made requesting fur-

ther investigation by the hydrographer.

- 9. Landmarks and aids.---There are two buildings in the area inspected which have been submitted on Form 567 as LANDMARKS. Also, there are 3 fixed aids to navigation which have been submitted on Form 567, two having been previously located by triangulation and the third has been identified as a phototopographic station. Conditions at the time did not warrant locating the latter by triangulation. The above forms 567 accompany this report.
- 10. Boundaries, monuments and lines.---Generally speaking, this paragraph is inapplicable. However, a General Land Office marker was found on the most northerly extremity of Maked Island and was referenced to triangulation KEISO, 1949 and classified as topographic station USIM S2454 1939 (GLO). Form 524 has been submitted for this station.
- 11. Other control. -- Recoverable topographic stations were established along the shoreline in accordance with paragraph 13. of the project instructions. In many parts of the project no topographic stations had to be established due to the plethera of triangulation stations. Practically all phototopographic stations established were marked stations. A complete listing of all phototopographic stations by areas is attached to this report indicating the photograph upon which the station was identified. Form 524 has been submitted for each station.

Photohydro stations were selected and identified for future hydrographic surveys. A particular effort was made to select stations that could be re-identified and used by the hydrographer. Each station was assigned a temporary field number and indicated on the photograph. From necessity, due to two inspectors working in close proximity to each other, oftentimes using the same photograph another day, or even parts of the same photograph the same day, the numbering system became somewhat jumbled but in no case is there a duplication of numbers on the same photograph. A short description of each photohydro station has been inked directly on the face of the photograph upon which it was pricked. In some instances where the shoreline was too badly shadowed by overhanging trees or bluff, photohydro stations could not be pricked; but generally, very good hydro station coverage is available. As a matter of fact in some cases where the shoreline is considerably broken there is almost a plethere of stations and it will be up to the descretion of the hydrographer which stations to eliminate.

Photohydro stations were selected for the entire area inspected. In the Maked Island group were graphic control had been executed in 1949 and hydrographic stations had been built but no hydrography done, an attempt was made to identify the same stations indicated on the copies of the graphic control surveys furnished. In a good many cases this was possible and they have been indicated on the photographs in the photohydro station descriptions. A number was assigned to the pricked photohydro station in the usual manner and then the graphic control survey station name was shown in parentheses to indicate that it was the same station originally located in 1949. In some cases the original whitewashes were still evident and in others a railroad spike was found driven into a crack in the rock approximately midway of where the whitewash had been.

12. Other interior features. --- There are no bridges or known cable areas in the area field inspected, nor are there any airports or landing fields. Air transporation is all done by float planes in this area. The CAA station in the Dutch Group and the village at Chenega are the most outstanding habitations. Most of the other habitations indicated on the photographs are abandoned fox farms except for the one on the south side of Parry Island. Here the buildings are kept up and residence maintained the year around.

The village of Chencga has about 90 residents and has a Bureau of Indian Affairs school and post office (both in the same building). There is a Russian Orthodox Chruch here and a native store. There is a long narrow pier here which was in bad repair at the time of inspection. There are no marine facilities here but water can be obtained by hose at the end of the pier.

- 13. Geographic names. --- A special report on geographic names has been prepared and was forwarded to the Washington Office on 14 November 1951.
- 14. Special reports and supplemental data. --- In addition to the data contained in this report, the following data obtained during the 1951 season by the Ship LESTER JONES is pertinent to the photogrammetric work accomplished in Prince William Sound.

TITLE

DATE FORWARDED TO WASHINGTO: OFFICE

SEASON'S REPORT

4 January 1952

BEACH REFERTS (3), Prince William Sound

18 August 1951

TITIE		DATE FORWARDED TO WASHINGTON OFFICE
BEACH REPORT (1), Prince Will	iam Sound	19 October 1951
COAST PILOT WOTES, Prince Wil	liam Sound	10 October 1951
GEOGRAPHIC NAMES REPORT, Prin		14 November 1951
SKETCH to accompany GEOGRAPHI	C HAMES REPORT	15 November 1951
TRIANGULATION RECORDS and SKE smi	•	15 November 1951
AREA 1, Ph-39(49), FIELD DATA (see transmittal letter)	•	15 November 1951
AREAS 2 and 3, Ph-39(48), FIE (see transmittal letter)	LD DATA	15 January 1952
PROCRESS SKETCH, to accompany REPORT (tracing)	SEASON'S	15 January 1952

Ross A. Gilmore Commander, C&GS

Approved and Forwarded:

George A. Helson Cmdr., C&GS Comdg., Ship LHSTER JONES

FH-152 PHOTOGRAMOSITATO FLOT REPURI FRINCE WINLDAM SCUND, ALASHA Scale 1:10,000

21. AFEA COVERNED:

The radial plot embraces eight sheets in the vicinity of Knight Island Fassage, Whale Bay, Chenega Island, and Icy Bay on the west side of Frince William Sound:

T-9138, T-9139, T-9140, T-9141, T-9142, T-9143, T-9144 and T-9145

22. METHOD:

The radial plot was laid on vinylite manuscripts on which the polyconic projection and the UTM grid were ruled. The eight sheets and the adjoining tabs and manuscripts (T-9146 and T-9147) were joined together in one unit using the grids for junctioning. The attached sketch shows the layout and photographs used and the distribution and density of horizontal control. Ratio positype paper prints of 3X enlargement from the "W" camera were used on the western part of the plot, and Air Force photography of 4X enlargement (positype) were used on the eastern side where "W" coverage was not available.

The photographs were prepared in the conventional manner choosing shoreline pass points where possible at intervals of about 3 inches and points in the interior at a density of about 6 inches.

Vinylite templet stock was used throughout, and a calibration templet was used to correct for paper distortion errors.

Rays have been drawn on the photographs through those pass points that were used in the radial plot. Certain of the photo-hydro points were pricked as pass point control, and only those that have rays drawn through the point on the photographs were in the main radial plot, and were the points held to in raying in additional detail and photo-hydro points.

The compiler's judgement was used in locating a map position for all the remaining photo-hydros and detail points. A combination of (1) drawing the remaining rays on the templets and relaying them into the plot, (2) graphic manual intersection, and (3) scale check where expedient, were the techniques used to locate the remaining points. All points were located prior to compilation of the shoreline.

Inasmuch as the field identification of control was done on 1:20,000 by the USC&GS on Air Force photography, and on 1:40,000 by the 30th Engineers, a reasonable tolerance was expected in holding to control in the final closure and adjustment. The attached sketch and tabulated list of stations with the resultant tolerances show the relative accuracy obtained in the 1:10,000 plot.

In general, better closures were obtained where the sub-point method of recovery was used. Almost without exception, the 30th Engineers priched the home station direct, which allowed the radial plot considerable discretion in the closure and adjustment. Nost of the stations held well within an accepted tolerance of not in excess of ± 0.5 mm, of true position. Manuscripts T-9139, T-9141 and T-9144 are perhaps the most accurate in position. T-9130, T-9140, T-9142 and T-9143 are next best in horizontal position, and T-9145 is considered the least accurate of the entire group.

The plot was drilled through the various thicknesses of templets through the assuscripts, and the points were circled in red ink where the position was determined by three or more cuts, green if by two cuts only.

This plot should be verified on the east and west sides upon receipt of further field identified control, and it is advisable to use the stereoplanigraph as the bridging instrument since bad tilts and crab in the flight pattern are noticeably evident.

23. ADEQUACY OF CONTROL:

Horizontal control is adequate for those sheets in the middle of the plot, but more accurately identified control is needed on both the east and west sides, and a better plot is anticipated when the field identified control becomes available. Trouble was encountered in the extreme W and NW sides of the plot on T-9133 in Nassau Fiord and on T-9140 in Tey Bay.

It is suggested that topographic stations 418 (MIND, 1951), and 420 (SAND, 1951) in Nassau Fiord, and either 422 (DOL, 1951) or 423 (JOML, 1951) in Icy Bay be located by triangulation methods to give a comparison with the existing preliminary plot positions and thereby justify whether a new radial plot should be laid for smooth sheet plotting. No. 177 (Nassau, 1933) did not hold and the identification is considered to be in error. It is requested that it be re-identified for subsequent work.

24. SUPPLEMENTAL DATA:

T-4308	1:20,000	1927
T-4810	1:20,000	1933
T-4808	1:20,000	1933
T-3093	1:20,000	1910

25. PHOTOGRAPHY:

The W camera coverage is better in general as concerns definition and quality of detail than is the Air Force photography on the east side of sheets T-9142 and T-9145. Tree overhang and displacement, and resulting shadows are factors which hindered the accurate recovery of control alongshore,

and will necessitate compiling much shoreline with the dashed line approximate high water line symbol. Frieding a control point direct is subject to inscruracies under the circumstances this photography presents, and hence the plot is weak in the areas mentioned in 23 above. The scale was not good on the "N" 3X enlargements, but was surprisingly good on the 4X Air Force enlargements.

Flight lines should have followed the general NE-CW alignment of these islands in order to afford the radial plot stronger azimuth transfers across the more narrow straits, and thus avoid as many water azimuths as possible.

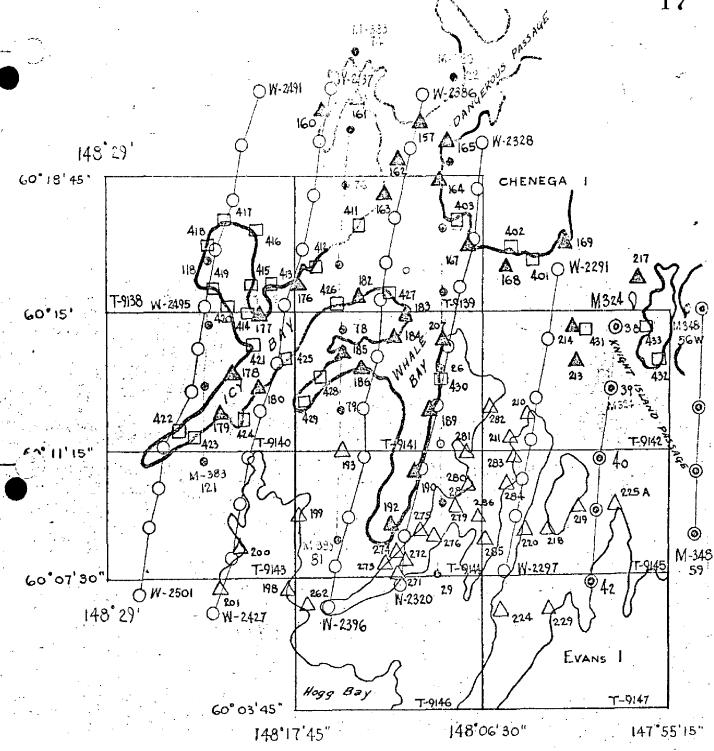
Approved by:

Respectfully submitted:

S. V Griffith Chief, Cartographic Branch Roscoe J. French

Supervisory Cartographer





RADIAL PLOT SKETCH PH 152

- 1954 W Ratio prints 3 x to 1 : 10,000) @ Air Force (4x 0
- 0 Field Inspection Air Force photos 1: 20,000
- Δ Herizontal control field inspected by US CVGS 1: 20,000
- Horizontal control field inspected by 30 th Egr. 1: 40,000
- Topographic stations located by radial plot

Field inspected choreline 1: 20,000 Air Porce photography shoto hydr

Ph-152

HCRIZCNIAL CONTROL STATIONS IN RADIAL FLOT No. 2 (1:10,000) T-9133, T-9139, T-9140, T-9141, T-9142, T-9143, T-9144, T-9145

```
157 Jackel, 1933 Sub. pt. 0.2mm.
 160 wagon, 1933 0.6mm.
 161 Precip, 1933 Sub. pt. Held
162 Cener, 1933 C. Sum.
 163 Toy, 1933 Sub. pt. Held
 164 Nigger, 1933 Held
 165 Bend, 1933 Sub. pt. Held
 167 Shale, 1933 Held
 168 Village, 1933 Sub. pt. Held
169 Chenega, 1907 Sub. pt. Held
176 Duke, 1933 Held
177 Nassau, 1933 1.0 mm.
178 Fiord, 1933 Sub. pt. A 0.2mm.
179 Thor, 1933 Held
180 Zeus, 1933 0.2mm.
183 Baron, 1933 0.2mm.
     Belt, 1933 Sub. pt. Held
184
     Olga, 1933 Held
185
186 Tina, 1933 Sub. pt. Held
     Vega, 1933 Sub. pt. Held
189
190 Bebe, 1933 Sub. pt. Held
192
     Kit, 1933 Sub. pt. 1.0mm. (Held to home Station)
198 Wat, 1927 Held
199 Goat, 1927 Held
200 Brid, 1927
                Held
201 Glac, 1927 0.2mm.
207 Orion, 1933 Sub. pt. 0.2mm.
210 Bain, 1933 2.4mm.
211 Tate, 1948 0.3mm.
213 Pleiades, 1933 Held
214 Sister Rock, 1907 Held
215 South, 1907 Held
217 Squire, 1933 Held
218 Rot, 1910 0.4mm.
219 Ship, 1910 0.2mm.
220 Horn, 1910 0.8m.
224 Ded, 1910 Held
225A Pas, 1910 Held
229 Guguak, 1910
262 Hydro, 1948
271 Plain, 1948 Held
272 Cross, 1948 0.2mm.
```

273 Clear, 1943 Held Half, 1948 0.2mm. 274 fass, 1948 Thin cuts 275 Aga, 1918 Held 276 – Ruth, 1948 Held 279 280 Nub, 1945 Sub. pt. Held 261 Low, 1943 Held Sage, 1948 Held Babe, 1948 0.3mm 282 283 0.3mn.284 Dana, 1948 Held 285 Inner, 1948 0.2mm. 286 Sip, 1948 Held

NOTE: All stations that have sub-pts. listed were field identified by USC&GS on 1:20,000 Air Force photography. All others were field identified direct by 30th Engineers on 1:40,000 photographs.

Ph-152

TOPOGRAPHIC STATIONS LOCATED BY RADIAL PLOT No. 2 (1:10,000) Field identified on 1:20,000 Air Force photography

401	RICH,	1951		421	IBIS, 1951
402	NEAT,	1951		422.	DOL, 1951
	OATH,			423	JOHL, 1951 ·
411	GARB,	1951		424	TRAM, 1951
412	PULL,	1951		425	DOLT, 1951
413	QUAD,	1951 *		426	NIPY, 1951 ·
414	YANK,	1951 ·		 427	PAWN, 1951 ·
415	WILL,	1951 ·	•••	428	KIVA, 1951
416	LULU,	1951	÷ .	429	FINI, 1951
417	EDDY,	1951		430	WINE, 1951 ·
418	MIND,	1951 ·		431	PLEIADES I. LT., 1955
419	ULNA,	1951		432	NILE, 1951
420	SAND,	1951		433	ZEST, 1951

Fre jest FR-152 Photogrammatele Flot Wegont (T-9138 these jo 1-445) Supplement I December 1957

21. Nose Jovensel:

This radial plot covers three sheets T-0175, T-0100, T-0145 and the vestors limits of T-0170 and T-0141. The plot was originally laid in lay 1966 and covered eight T-shoets. The sheets covered in this plot comprise the western end of the original plot. (See plot sketch)

22. Method:

Additional control was established and identified in 1957 by the field party in the above-mentioned area. This plot-was begun in the area to the east (Whale Bay area), which was well-controlled originally. It was extended northwesterly into the area of the new control. The plot was laid on the original manuscripts utilizing the same templets with the additional control added.

The new control established a rigid plot for the area with good closures on control pass points and azimuths. In general there was a shift in datum of 1.0 mm N-NV in this area because of the stronger fix in datum obtainable by the new control. (See item 23 - control below)

23. Adequacy of Control:

As noted under item 23 of the original plot report, trouble was encountered in the area of this plot. With the additional control established in 1957, an accurate fix in datum was obtained. Horizontal control stations used to control this plot are shown on the attached sketch.

Triangulation station "ZEUS 1933" was reported as held in the prior plot. The sub. station was identified on two photographs and erroneously held in the plot to the home station. The sub. station is 2.3 rm SW of the home station, and was held in this plot. This will effect a shift in detail of approximately 2 mm in SW direction.

I samt as diagrose delice ell nouvest vas hald in this latter latter.

":1" is 10^{377} -- in the State State. Such State a later by O.5 we have respected as missed by O.8 cm in the emission of the O.8 cm.

""ASY I 1933" -- liesed by 1.0 mm in original plot; rissed by 0.5 mm in this plot. Coly two redials on station. Other control held nearby.

ULNA 1951-1957 -- (topographic station - position established by theodolite directions) 0.5 rm S of plotted position, two radials only. Four triangulation stations held nearly.

JOWL 1951-1957 (topographic station - position established by short traverse) 0.6 mm NE of plotted position. A point on the photographs that fits the description falls 0.6 5 of the point used in the plot. This point would have held in the plot. Other triangulation stations held nearby.

24. Supplemental Data:

Inapplicable (see original report).

25. Photography:

See original plot report.

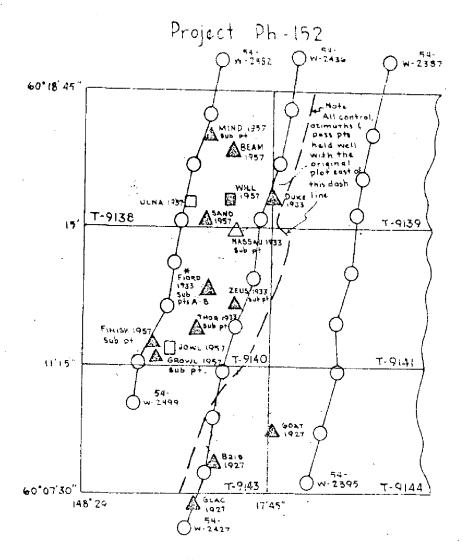
Submitted by:

J. P. Battley Jr.

J. P. Battley, Jr. Cartographer

Approved by:

E. H. Ramey, Chief Graphic Compilation



November 1957 Radial Plot Skatch (Supplement *1 to ariginal Plot)

 $\square \Delta$... indicates control hold in the plut (topographic or $\square \Delta$... indicates control not held triangulation)

* Fiord sub pt B "Held", sub pt A fell 0.4 mm 5 of the plotted position

D. de tier

	MAP T- 9139		PROJE	PROJECT NO. PH-152	SCALE OF MAP 1:10,000	000,01	SCAL	SCALE FACTOR 1.0	R 1.0
·	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	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1927 - DATUM DISTANCE DOR PROJECTION LINE IN METERS ARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	Berg, 1933	VI 189	N.A.	60-15-32-555 148-13-46-643			1007.6 ((849.4) (205,4)	
Annual Contract	Baron, 1933	VI 154	=	60-14-52-717	S of 9139) 9°1691 79°19	(225.1L) (128.2)	
· · Walleyau	Jackal, 1933	VI 155	#	60-20-05.373	N of 9139			(1690.7 (759.1)	
enister start	Jackal S. Pt.		¥	60-20 148-10			168.8		
	! ⊣	VI 155	44	60-19-46,793 148-08-43,851	N of 9139			(408.8)	
•	Bend S. Pt.		=	60-19 1h8-08					
1	re.	VI 154	=	60-15-51.624	E of 9139			(259.2) (846.5)	
<u>-</u>	Wagon, 1933	VI 161	±	60-20-27.860	N of 9139			(7.469)	
<u> </u>									
1									
, 									
<u>.</u> '									24
	1 FT.= 3048006 METER COMPUTED BY: C • O •	DeMarr	PAG	DATE 18 March 1955	H. J. Rau CHECKED BY.S.G. Blankenbaker	Rau Elanker		May 1	11, 1955 ^{W-2388-12}
			•						

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	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)
	ΛI	N.A.	60-16-11,863	E of T-9139		367.2 (1489.8)	2
Village, 1933	154	1927	148-04-58,794				
		=	60-16	E of T-9139		362.8	
Village Sub.Sta	•		1148-04			892.2	
	Λ	=	60-16-43.276			1339.h (517.6)	
Shale, 1933	154		148-07-29,666			(1,66.	
	ΛΛ		60-17-45.468				
Bight, 1933	154	:	148-08-46.563				
#] ev 3 f+	VT	:	60-18-24.639			7601)	
Nigger, 1933	155	-	148-09-12.959				
	WT	=	60-18-02,964				
Icy, 1933	155	•	148-12-26,312				
		:	60-18				
Icy Sub. Sta.		:	11,8-12			1,07.11	
	NT	:	60-19-11,985	N of T-9139		1,63.8 (1393.2)	
Center, 1933	155	=	148-11-25,726			391.9 (526.1)	
	VT	'n	60-16-47.243			1462.2 (394.8)	
Arbor, 1933	159		148-14-51.664			794.1 (128.1)	
	_						
							2
							5
1 FT.=.3048006 METER	DeMann	<u> </u>	18 March 1955	S. G. Blankenhoken	31 ankan	7 2041	M-2388.12
•	100		1				

		1					
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	N.A. 1927 - DATIJM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	VT	N.A.	60-20-53.839	N of 9139		1666.3 (190.7)	
Precip, 1933	161	1927	148-13-42.797			656.1 (263.9)	
	VŢ	=	60-16-43.643	E of 9139	-	1350.8 (506.2)	
Chenega, 1907	06		1/18-01-19,893		•	305.8 (616.4)	
Chenega	Ė	=	91-09	E of 9139		1344.0	
S. Sta.			11,8-01			308,6	
Precin		=	60-20	N of 9139		1671.7	
S. Sta.			11.8=13			672.9	
	VI	=	60-20-56.089	N of 91.39		1736.0 (121.0)	
Tous, 1933	161	:	11/8-12-58,769			901.3 (18.9)	
		•					
		.					
		a4					
		•					
							6 4
		•					6
1 FT = 3048006 METER							M - 2388 - 12
COMPUTED BYS.G. B1	Blankenbaker		DATE 11 MAY 1955	снескер ву. Налимолф	nd Rau	DATE	11 May 1955

COMPILATION REPORT T-9139

31. DELINEATION:

Shoreline and foreshore features were delineated from stereoscopic interpretation and with the aid of field inspection photographs at 1:20,000 scale.

Features shown were first drawn on a piece of vinylite superimposed on the photograph with the most nearly true scale. Graphic methods were then used to compile and delineate the MHWL and to adjust the planimetry to manuscript scale by holding the compilation points of near-sea-level elevation.

Due to the dense wooded sections with overhanging trees along the shoreline, and shadows, it was necessary to dash (approximate MHWL) portions of the shoreline in the difficult areas. (These areas revised by 1957 field work and compilation) EVAR

32. CONTROL:

Three USC&GS control stations were recovered and held in the radial plot. Other control in the area (T-9139) was not recovered or office identified. (See photogrammetric plot for summary of control filed with T-9144.)

33. SUPPLEMENTAL DATA:

Planetable Topographic Survey sheet No. 4810 dated Sept. Oct. 1933.

The field inspection report is filed with T-9144.

34. CONTOURS AND DRAINAGE:

Not applicable.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore features were delineated from field inspected photographs and office stereoscopic interpretation. The field inspection is less than desired for 1:10,000 work, but there are no serious inadequacies apparent. The approximate low water symbol is used beyond the field inspection annotations, but is justified by analogy with similar field inspected areas. The shallow lines are largely from office interpretation.

36. OFFSHORE DETAILS:

No unusual problems were encountered in compiling offshore details.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

There were sixty-eight (68) photo-hydro stations located on the manuscript from field inspected photographs by stereoscopic methods and descriptions furnished by the field party.

Five (5) topographic stations established by the field party were located by the radial plot. Forms 524 are in Photogrammetry Office files.

39. JUNCTIONS:

North, no contemporary survey; south, T-9141; east, no contemporary survey; west, T-9138.

40. HORIZONTAL AND VERTICAL ACCURACY:

The accuracy of this manuscript (T-9139) conforms with standard map accuracy and supersedes previous surveys of the area.

Vertical accuracy is inapplicable.

46. COMPARISON WITH EXISTING MAPS:

Seward (B-4), 1:63,360, Alaska 1952 USGS

This survey supersedes the USGS quadrangle.

47. COMPARISON WITH NAUTICAL CHARTS:

The manuscript was compared with Nautical Charts Nos.: 8551, scale 1:200,000, published in 1909, corrected 5-31-54; 8528, scale 1:81436, published 2-27-30, corrected 8-27-51; and 8515, scale 1:81436, published Nov. 1935, corrected 3-24-52.

This manuscript superseds previously charted shoreline.

48. GEOGRAPHIC NAME LIST:

Dangerous Passage Icy Bay Verdant Island

Approved by:

Submitted by:

Roscoe J. French

Supervisory Cartographer

Make for PUF Marret S. Amburn

Cartographic Photogrammetric Aid

SUPPLEMENT TO COMPILATION REPORT T-9243 9139 November 1957

31. Delineation:

Reference: Compilation Instructions-Supp.4, Prince William Sound, Alaska, dated 23 October 1957

Manuscript T-9139 was revised in October-November 1957 to incorporate new planetable locations of segments of shoreline, a shift in datum in the area of Icy Bay and new hydrographic stations positions obtained by the 1957 radial plot.

The shift in datum is discussed in the Photogrammetric Plot Report Supp. 1, filed as part of the Descriptive Report for T-9144. This shift in detailing was effected by holding the pass points on the vinylite impression of the previous compilation to the new positions of the manuscript and tracing the detail.

New positions for photo-hydro stations which resulted from the shift in datum were added to the viny-lite impression of the original manuscript for use in processing hydrographic surveys.

The manuscript is now in final form but subject to change by verification or final office review.

Garnett S. Amburn

October 19, 1970

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-152 (Alaska)

T-9139

Chenega Island
Dangerous Passage
Icy Bay
Verdant Island

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett

Cartographic Technician

49. NOTES TO THE HYDROGRAPHER: - T-9139

Sixty-eight (68) photo-hydro stations were located on the manuscript from descriptions and the 1951 field inspection on 1:20,000 scale photographs.

Many more photo hydros were identified in the field than are here located. The office compiler has located only those that can be most accurately located from the pricking and the description furnished and upon which the hydrographer can assume are most reliable in map position.

Those pass points and photo hydros that were located during the radial line plot have rays drawn through the points on the office photographs. The hydrographer can use them with confidence in the use of instructions No. 45 in raying in additional photo hydro control, or in holding scale where practical and dropping the points for additional control. An attempt was made to prick pass points of near sea level elevation for use in compilation and for the use of the hydrographer for holding scale.

- 007. Triangular pointed (4) black rock just off nob point.
- 008. High point of light-colored top (5) rock.
- 009. High point (dark green moss top) (5) rock.
- 010. Very small spruce at top of white spotted V corner.
- 012. Corner point of white spotted rock bluff with a (2) bench in front (there is a dead smag and stump just to south).
- 013. Northeasterly of two points (station has projecting half-dead tree).
- 167. (1) Rock off islet.
- 169. Large bleached snag on islet.
- 171. Two white rocks on top of black rock ledge point.
- 173. (71) Rock with light colored top.
- 331. White-topped (3) rock just north of immediate point at end of beach.
- 333. Top of (9) boulder.
- 335. Corner point of steep rock bluff (there are a few white spots on rock face).
- 336. Low triangular-shaped sloping point of light-colored rock with caves to north and south.
- 357. Outer high rock (5) (white-topped with lichen) there is a higher rock inshore (6) and some lower ones offshore.
- 360. Outer tree (half-dead) on low ledge point.

- 361. Light-colored rock point of shoreline with crooked tree and snag just north of bight.
- 362. Outer point at small overhanging tree. Rock bluff is very white here, and there is a small niche to north.
- 363. (3) Rock, highest part of ledge with light-colored top.
- 498. Corner point of vertical rock bluff with overhanging tree. (There is a niche here to east and west.)
- 502. Prom. overhanging large half-dead tree. (Shoreline at tree pricked)
- 503. Low rock point at stump and small spruce.
- 504. High point of (8) semi-detached smooth rock. (There is a lower similar point to west.
- 506. Top center of islet at two stumps.
- 507. Top center of prom. tufted (10) rock.
- 508. End of low point at two prom. stumps.
- 510. Top center of (2) rock.
- 512. Outer corner point of low rock bluff.
- 516. Corner point in from ledge with several short stumps.
- 520. South end of small islet at multi-branched half-dead trees.
- 521. Lone leaning tree on (7) islet.
- 522. Prom. large bleached stump where rock bluff begins.
- 526. Large boulder in water at base of slide.
- 530. Low, flat, white, rock, bench-like point.
- 532. Corner point at dead snag and projecting stunted tree.
- 534. White top of semi-detached nobby rock (5).
- 535. Prom. light-colored rock point with short bench (4).
- 536. Most southerly rock (3) (black top).
- 537. Outer end of low ledge (3) at HWL (there is a rock awash out from point and to east).
- 538. 15-foot vertical column of very light-colored rock at west end of small boulder beach.
- 539. Prom. V corner point with large stump and half-dead tree.

```
577. Scrub tree on islet (10) ..
```

579. Highest part of islet (17).

580. Top of boulder rock (3).

581. Top of prom. boulder (7).

583. Top of rock (4).

585. Top of rock (3).

586. Highest part of chimney rock (20).

589. Highest part of islet (19).

828. Seaward end of Point (2).

831. End of bare point (2).

832. Top of boulder (aw).

834. Northerly side of bare dual point (2).

835. Top of rock (2).

837. Top of semi-detached hump on east end of point (3).

838. Top of moss-topped boulder (13).

840. Cone peak of center rock (4).

842. Bare sloping face of point (3).

843. Extremity of corner point (5).

844. Top end of point (4).

845. Seaward face of blunted point. A tree leans over about 5 meters to north (2).

846. Final hump on most westerly rock arm (4).

847. End of point (4).

848. Face of boulder-like point (5).

849. Top of largest semi-detached rock (5).

852. Bare white top of rock (9).

853. White snag overleaning point.

1957	HYDROS	-
	515	DOT
	OBE	EGO
	LOG	ROC
	DUZ	MET
	TRI	
	FUG	
	C00	

854. Bare end of point at HWL.

Recoverable Topographic Stations

Pull 1951

'Garb 1951 '

Pawn 1951

Nipy 1951

OATH 1951

Approved by:

Submitted by:

K.N.m.

Roscoe J. French Supervisory Cartographer

Garnett S. Amburn Cartographic Photogrammetric Aid

T-9139 and T-9143

19. Notes to the Hydrographer:

Manuscripts for these surveys were revised in December 1957 to incorporate a shift in datum for segments of shoreline and photo-hydro stations as determined by radial plot. Also segments of shoreline were redelineated to show 1957 plane table locations and to change approximate areas to definite.

New photo-hydro positions have been added to the vinylite impressions of the preliminary manuscripts to facilitate processing hydrography. The manuscripts are now in final form subject to correction by final office review.

The photogrammetric plot report for these surveys is filed as part of the Descriptive Report for T-9144.

Everett H. Ramey, Chief Graphic Compilation Unit 9 December 1957 FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9139

PROJECT PH-152

No Form 1002(T-2) was available at the time of final review and none is bound with this Descriptive Report.

Tranzo milit Precii Project 77-152 Prince Tilling Sound

The storeline for all hydrography accomplished furing the 1057 field senson is derived from shareline manuscripts commiled on a 1:10,000 scale from merical richo graphs. Signals for visual hydrography were derived by tallot taken field, by recovery of are invaly selected abott-barbo static as when available, by intersection from trial substian, by clame-table, and by seriant outs and fixes. All signals located by radial abot in the field are indicated on the canuscripts by a red circle with the signal name alongside. A few signals located by plane-table and by triangulation outs are indicated in the same manner. In a few instances, sextant cuts and fixes were alotted on the manuscripts and the signal locations were indicated by blue circles with the name alongside.

Shoreline revisions and unusual methods of hydrographic signal location are summarized below:

Perlimitary seorgelice mainiscript 1-9145

The north shore of Flemming Island appeared on this manuscript as a dashed line labeled "APPROXIMATE PHML". Five signals, VAL, WAD, YAM, ZAG and ACE, were located by theodolite cuts from triangulation stations. These five signals and nearby triangulation stations were used as control to locate the NYML by plane-table and stadia distances. The approximate PHML was removed from the black line impression of the manuscript and the correct shoreline was amplied. One rock awash between ACE and ZAG and a small islet between PUT and ACE were located during the plane-table work.

Since this is a preliminary manuscript, this portion of the shoreline, the rock awash and the swall islet should be held fixed when the rest of the shoreline is adjusted to the correct datum.

The approximate NAML in the vicinity of BIN 1948, BIM and on around the small island was located by plane-table. Station BUM was located by plane-table and stadia distance. For this portion of the work, whote-hydro points were used exclusively for control. When the rest of the shoreline in the vicinity is adjusted to the correct datum this portion of shoreline and signal BUM should receive the same adjustment.

ADVATOM SHORM I'T' MANUSCRIPT T-9141

The approximate 1975 between topographic signal MON and triangulation station OFION 1933 was located by plane-table. The plane table was set up on MON, oriented on PAFON 1933, and the 1975 was located by stadia distances to several points. The approximate NYME-was removed from the black line impression and the correct 1975 added. The same method what was into obtain the time IPIU between PLY and SOP and hotesen TAT and SUB. TAR is on the highest coint of an islat which was originally indicated by a meet suchol. The black line impression has corrected, on the basis of stadia distances by Jenselate.

On Verbook island the surve have ITTL between TAC and TAX was resolved by mlane-table, using the manuscript as the field sheet. Stations COD, DOT and TGO were located by mlane-table fires on photo-hydro values, and all showline and controlled by photo-hydro values.

The approximate NFKI referent NTT and Bill 1951 has resolved by blane-table, using that-hypers stations in the vicinity for cruirol and the black-line impression as the field sheet. The same method was used between LOG and FUG, near GAD, between MOP and LUX and between TIP and PAS. Stations MET and ROG were located by plane-table.

In all the above work only photogrammetric control was used. When the rest of the shoreline is adjusted to the correct datum the newly located shoreline should receive the same adjustment; also the signals located by plane-table.

The approximate FH.L at latitude 60° 1519, longitude 148° 1716 was carefully field inspected and the true 1705 is indicated on photographs 55472433 and 56472434. The true 1867 in the small bay at latitude 60° 1613 and longitude 148° 1715, and in the vicinity of topographic station PULL 1951 is indicated on photograph 5442434. The true 1874 between stations LOW and MIRY 1951 is indicated on photographs 5447390 and 5447391. The true 1884 between stations NIPY 1951 and AID is indicated on photograph 5447391.

PETLIMINARY STORFLINE MAMUSCRIPT T-9144

The approximate 1974 between JOR and NOD (T-9146), in the vicinity of stations SND, FFY, and in the vicinity of LAX and FLAIN 1948 was resolved by plane-table, using photogrammetric control. Stations NAD, FRY and FOG were located by plane-table. Station ACT was located by plane-table. All t is work should be adjusted to the correct datum on the final manuscript.

Stations WAX and MOO were located by plane-table cuts using photogrammetric control. They should be adjusted to the correct datum on the final manuscript.

ADVANCE SHORTLING MANUSCRIPT T-9138

The approximate NHWL in the vicinity of signal HAR was field inspected and the true NHWL is indicated on photograph 5482433.

The approximate MWL northwest of photo point 316 was resolved by plane-table. The correct WWL is now shown on the black-line impression.

ATTEMEN STORT DEPORTURE S-OLD

The approximate PMT at the follows: A Borakinos we resulted by advantable sof the correct PMT is not along on the black-like impression:

- Victority of stations TAY and DAR.
- Vicinity of station ToD, Intitude 50° 1210, longitude 186° 7117.
- Tielid's of AFTS 1930 and ACT.

The an revirate NFD in the vicinity of topographic station DOME 1951 was field inspected and the true NFT is indicated on chotographic SANDAGE.

Jo additional shoreline discrepancies were noted during hydrography and signal building. All signals appear to plot in their correct location with respect to the MEVL.

Special sheets were not prepared for any of the plane-table work. Some of the field work was done directly on the black-line impressions. In the remaining cases the field work was done on tracings of the black-line impressions. In each case, a tracing was used in the field only one day, and results transferred to the black-line impressions the same evening. There was no detectable distortion.

The following triangulation stations were identified this year:

N AME	<u> PHOTOGPAPH</u>
0F0/⊈ 1957	54472493 Title 1
FIMSH 1957	54w2493 - 13m
RMAN 1957	54.4249b (4.4.1.5)
MIND 1957	54.794.94 1912 E
— praint ichstadi) —	54 V03 2 0
TLAT 1948 (264) -GIAC 1927 (201)	5472298 - 3
TIAT 1948 (240)	54412396
-9140 1927 (201) 6 4	54912427 South 91143
FRID 1927 (200)	5472428
-MAT 1927 (136)	<i>5</i> 4112396 9144
5 - GOAT 1927 (194)	54112395 3743
•	

In addition, the following topographic stations tarked in 1951 and located by radial plot, were re-located by triangulation cuts or short traverse from triangulation stations: WHL 1957, 1774, 1957, JOWL 1957, SAND 1957.

Lorin 3. Woodcock LODR, 03GS

Amproved and forwarded:

Tred Natella

CIR, CAS

Commanding Shin EO IE

智格 化砂砂点炉

REVIEW REPORT T-9139

SHORELINE

DECEMBER 15, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print (pages 37 through 44), with differences noted in Items 62 through 65, is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison has been made with Survey T-4808, scale 1:20,000, dated May - June 1933 and Survey T-4810, scale 1:20,000, dated September - October 1933. Differences between these surveys and T-9139 are shown in blue on the comparison print.

The general trend of the shoreline compares favorably but placement of the mean high water line varies considerably. Differences as much as 50mm were noted in several places.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangles SEWARD (B-3) and SEWARD (B-4), ALASKA, both 1:63,360 scale, and dated 1950 and 1951 respectively. Differences between these surveys and T-9139 are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Survey H-8389, scale 1:10,000, dated 1957. All of the differences noted are in the vicinity of the southeast end of Chenega Island. These are shown in purple on the comparison print.

COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8515, scale 1:80,000, 10th edition, dated October 25, 1969. Óne difference at Latitude 60°17.0', Longitude 148°07.5' is noted in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with Job Instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

Charles HBishop

Charles H. Bishop Cartographer December 15, 1970

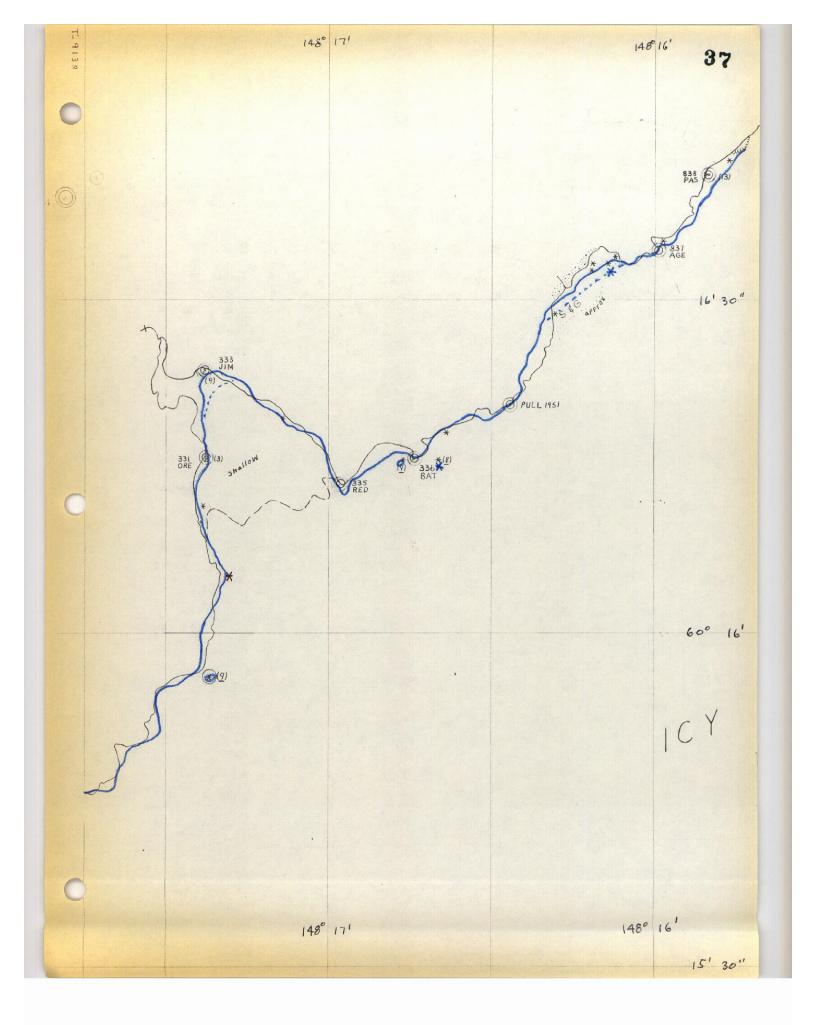
Approved:

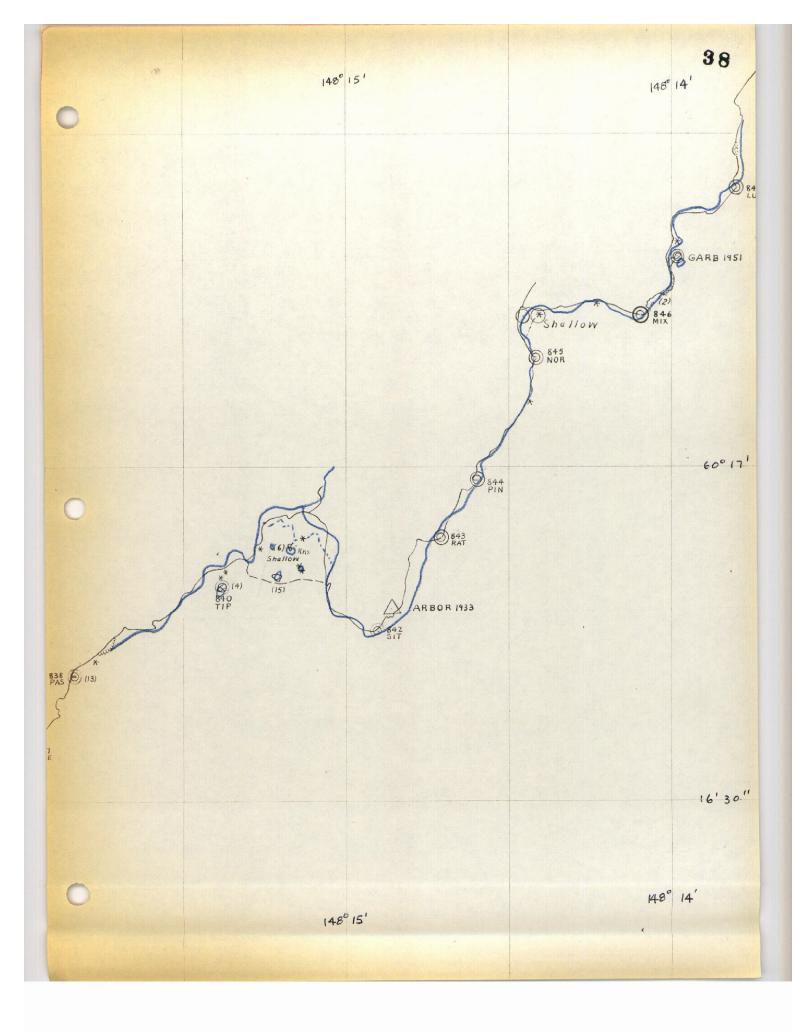
alla L. Poeceel Allen L. Powell, RADM, NOAA

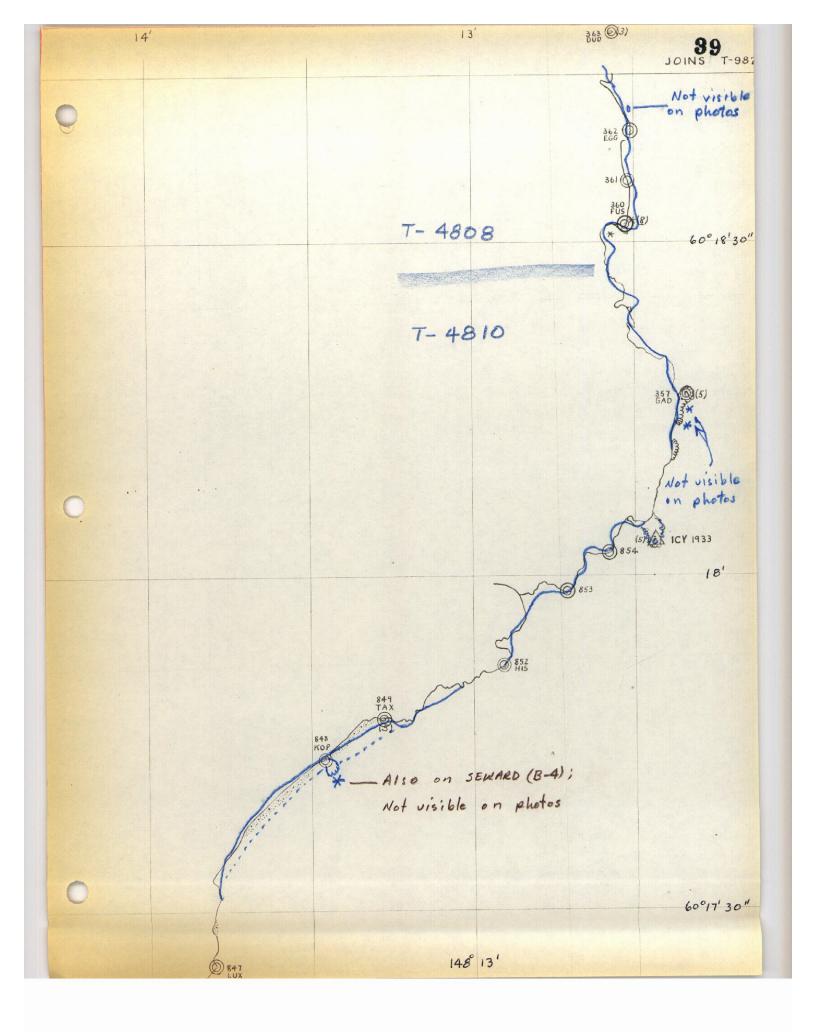
Director, Atlantic Marine Center

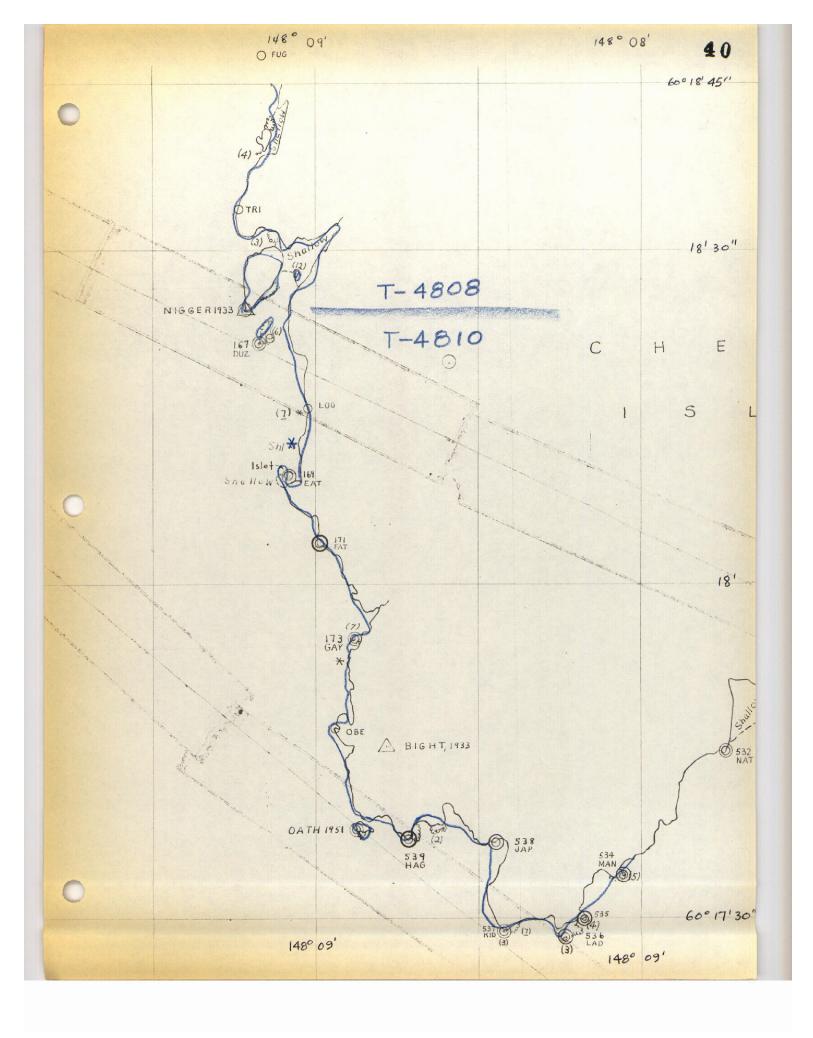
Approved:

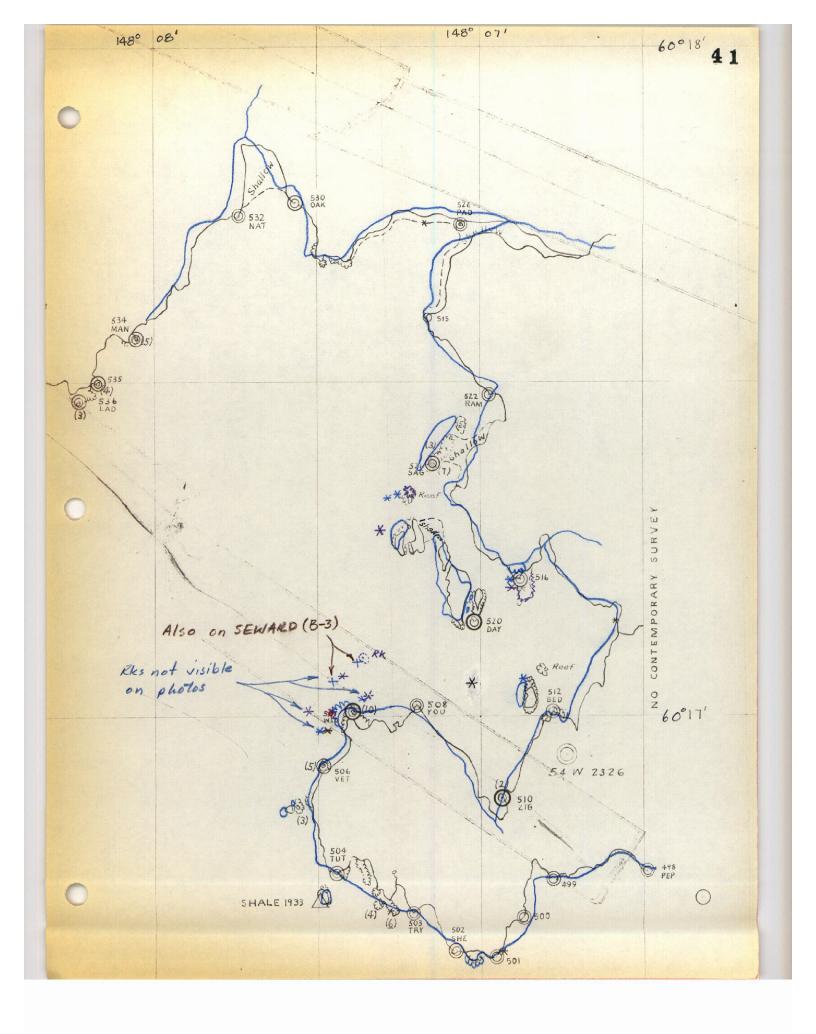
Chief, Photogrammetric Branch Chief, Photogrammetry Division

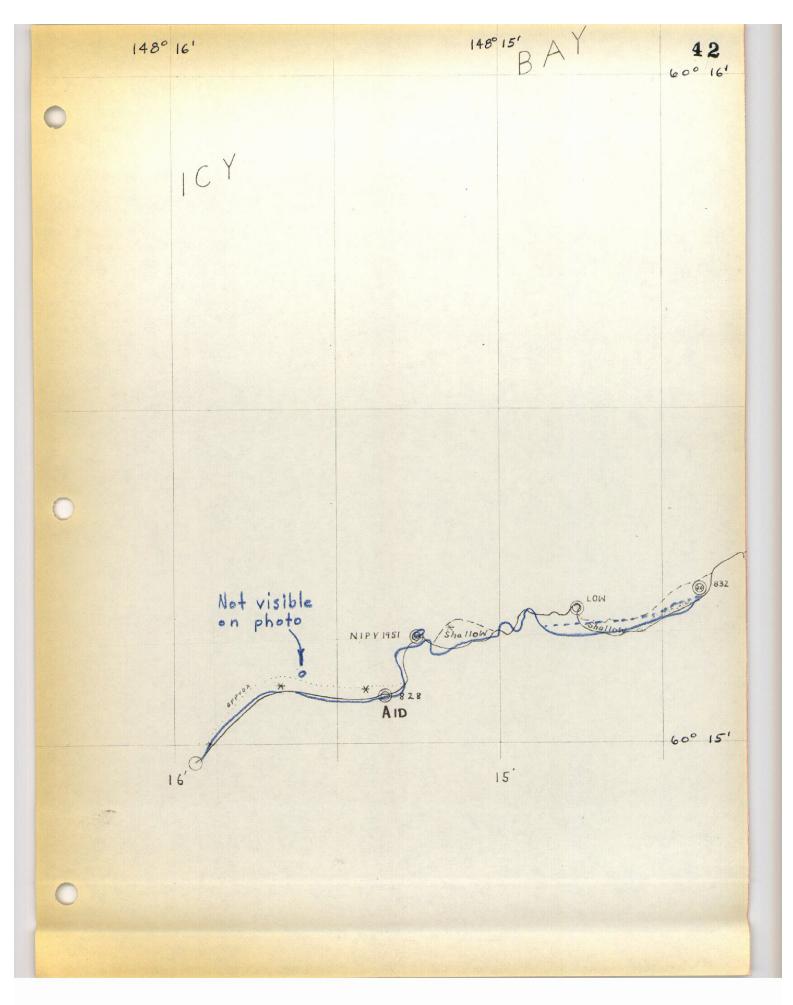


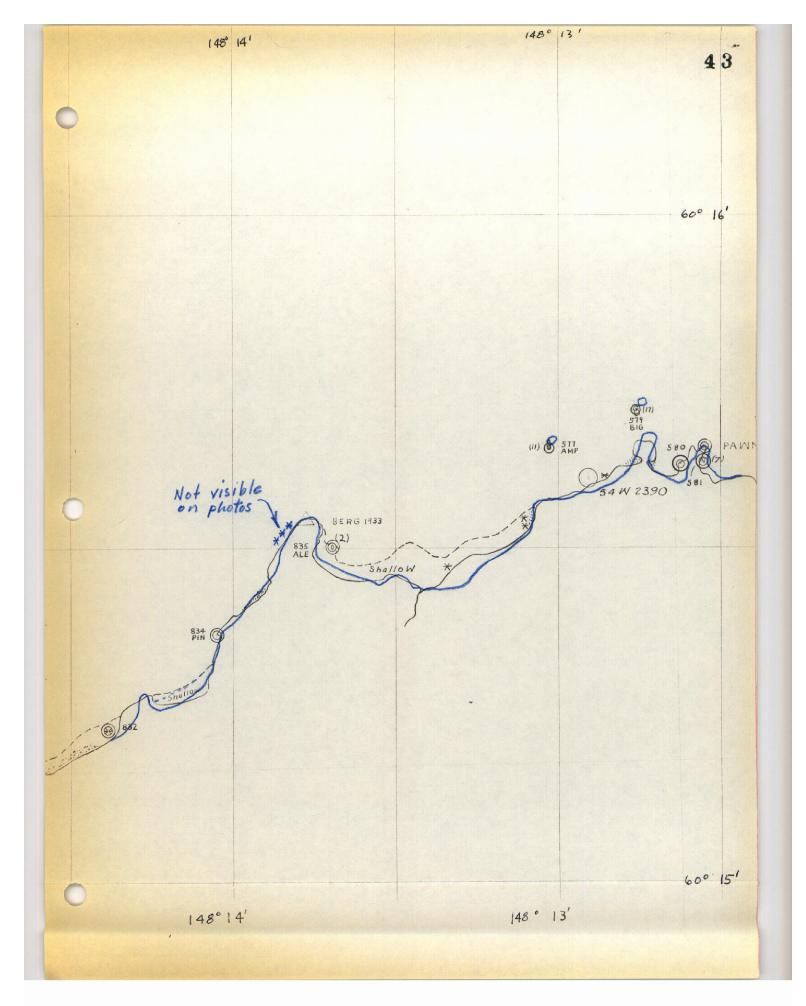


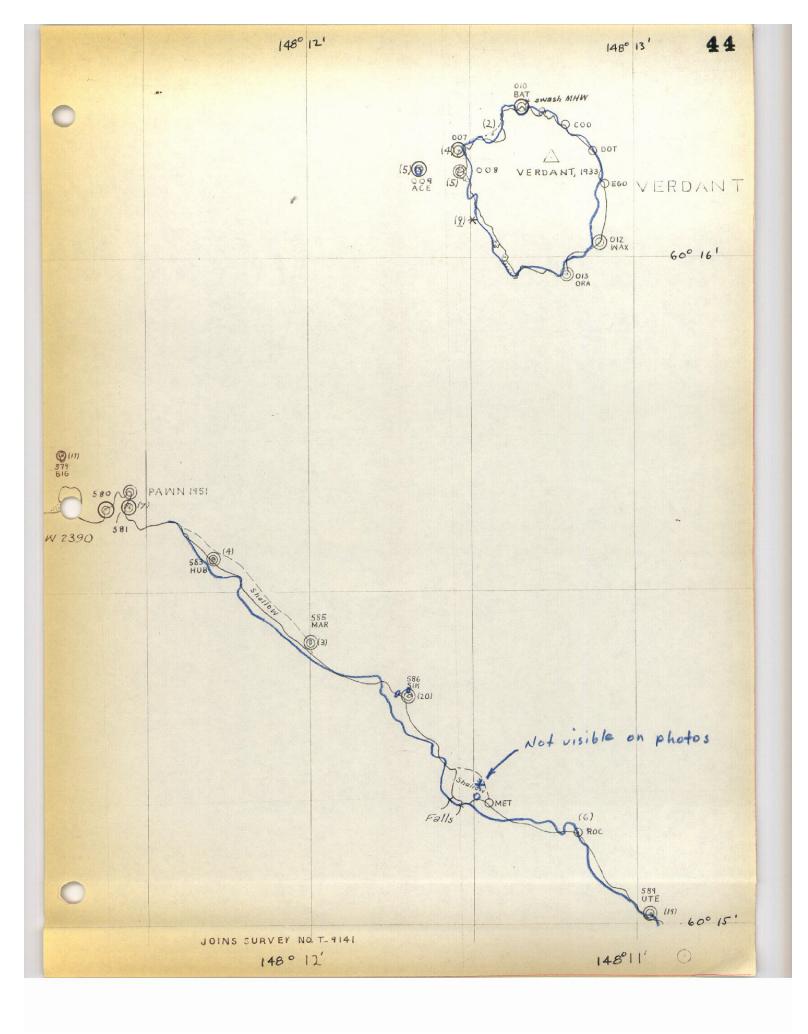












NAUTICAL CHARTS BRANCH

survey no. <u>T- 9/3</u>9

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/9/59	8515	Helmer	Before Miner Fally Applied Review
2-29-72	8528	J. A. Grahan	
6-28-83	16701	Lori A. Simmous	Before After Verification and Review Fully Applied
			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.