

9817

9817

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline
Field No.	Office No. T-9817
LOCALITY	
State	Alaska
General locality	Prince Wm. Sound
Locality	Claremont Glacier
1957-59	
CHIEF OF PARTY	
Field - H. J. Seaborg	
Office - L. W. Swanson	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

1

T- 9817

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

Field Office (II): Ship BOWIE

Chief of Party: H. J. Seaborg

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):

Copy filed in Division of
Photogrammetry (IV)
Office Files

Compilation Instructions - Supp. 5 - Prince Wm. Sd. dated 15 Dec. 58
" " " " " " " " 22 July 59
Supp. 6 - " " " " " " " "

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):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA, 1927

Vertical Datum (III): MHW

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):

Lat.:

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV): UTM

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.

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): **W. P. James**

Date: **June 1959**

Planetable contouring by (II): **None**

Date:

Completion Surveys by (II): **None**

Date:

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

**Field and office identification of shoreline on photograph
taken May 1957 and Aug. 1958**

Projection and Grids ruled by (IV): **Dempsey**

Date: **Dec. 17, '58**

Projection and Grids checked by (IV): **Shoup**

Date: **Jan. '59**

Control plotted by (III): **H. Lucas
J. Battley**

Date: **Jan. '59
Aug. '59**

Control checked by (III): **W. Halluin
R. Sugden**

Date: **Sept. '59**

Radial Plot or Stereoscopic **R. Sugden**
Control extension by (III):

Date:

Planimetry
Stereoscopic Instrument compilation (III):
Contours

Date:

Date:

Manuscript delineated by (III): **J. Battley T-9817
R. Sugden T-9818**

Date: **9 - 59**

Photogrammetric Office Review by (III): **E. Ramey**

Date: **22 Oct. 59**

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

Date:

Camera (kind or source) (III): **C&GS Nine-lens and infrared single-lens**

Number	Date	Time	Scale	Stage of Tide
9-Lens	17 May 57	1350	1:20,000	9.5 above MLW
56139				
56145		1402		
Single-lens	7 Aug. 58	1209	1:30,000	4.1 above MLW
58-L-5358 - 5361				

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

Atlantic Marine Center

Washington Office

Review by (IV): **C. H. Bishop**

Cordova
Wells Passage

Ratio of Ranges	Mean Range	Spring Range
	10.0	
9.5	9.7	

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 opposite shore) (III): **9 miles**

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

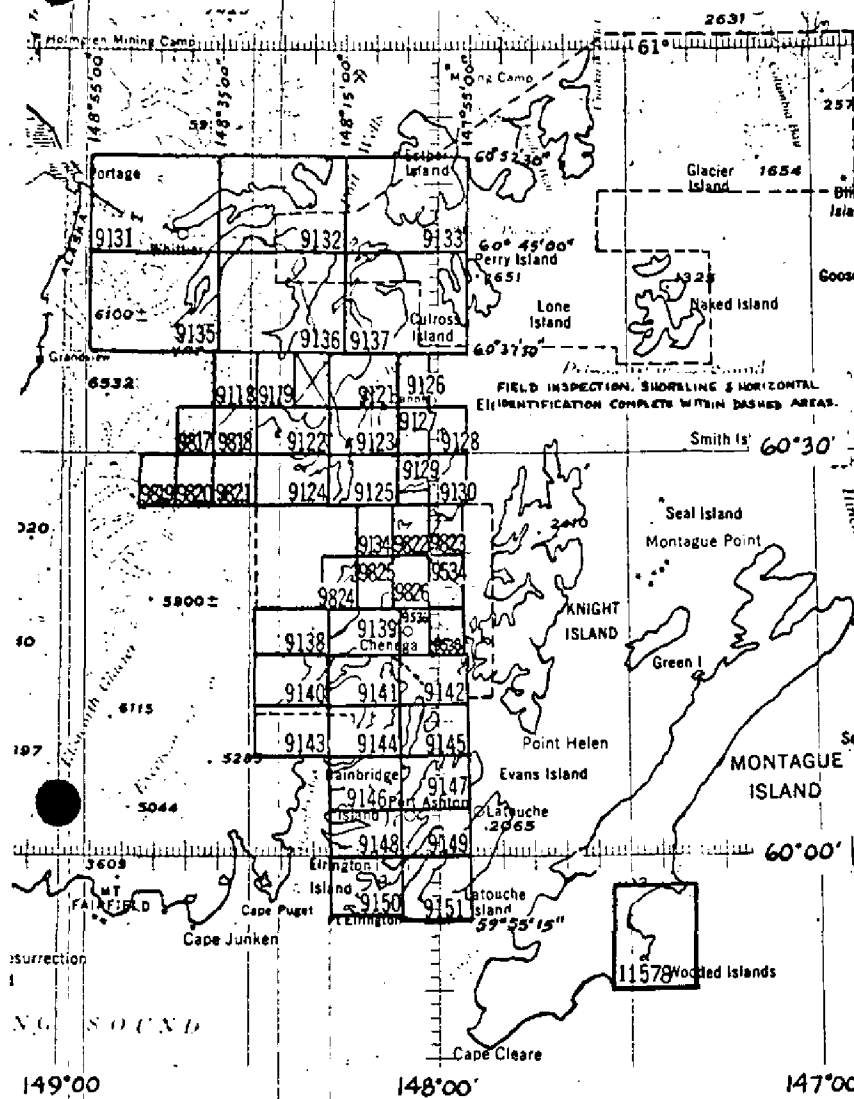
Remarks:

T-9817

COMPILATION RECORD	COMPLETION DATE	REMARKS
PRELIMINARY shoreline for hydro support	1957	Superseded
New radial plot, manuscript revised to ADVANCE	Sept 1959	
Final Review	August 1970	

SHORELINE MAPPING PROJECT PH - 152

Prince William Sound, Alaska



OFFICIAL MILEAGE FOR COST ACCOUNT		
	LIN. MI.	AREA
SHEET NO.	SHORELINE	MILES
9118	3	13
9119	9	11
9121	11	10
9122	23	7
9123	17	7
9124	7	5
9125	15	6
9126	5	3
9127	6	8
9128	5	2
9129	7	8
9130	14	6
9131	12	95
9132	48	50
9133	36	45
9134	5	11
9135	24	90
9136	26	85
9137	68	48
9138	10	7
9139	13	5
9140	12	8
9141	24	12
9142	10	3
9143	9	4
9144	26	9
9145	19	8
9146	18	8
9147	24	9
9148	25	9
9149	19	7
9150	24	8
9151	15	9
9534	6	4
9536	6	6
9538	4	1
9817	9	10
9818	11	6
9819	3	9
9820	7	5
9821	2	10
9822	9	9
9823	7	4
9824	9	10
9825	11	6
9826	10	8
11578	19	21

TOTALS

702

726

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-9817

Records for this map were not complete at the time of final review, which was several years after compilation. The Compilation Record and notes concerning the absence of reports were inserted by the final reviewer.

This shoreline manuscript, scale 1:10,000, is one of 43 sheets that comprise Project PH-152, which is located in the western part of Prince William Sound. T-9817 is on the northwest side of Kings Bay.

The original manuscript was preliminary in advance of hydrography. A radial plot was run on a 1:20,000 scale base sheet, using nine-lens photography of 1957. Points thus obtained were transferred to the 1:10,000 scale manuscript and alongshore features were compiled.

Copies of the preliminary manuscript were sent to the field for photo-hydro support. Additional horizontal control was identified on the photographs furnished and field edit was accomplished. A final plot was laid, the manuscript revised, and then classified "Advance."

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

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude and 5 minutes 37.5 seconds in longitude.

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

FIELD INSPECTION REPORT

MAP T-9817

PROJECT PH-152

There was no field inspection prior to compilation of this map and no Field Inspection Report is bound with this Descriptive Report.

PHOTOGRAMMETRIC PLOT REPORT

KINGS BAY, ALASKA

Project Ph-152

Aug - 1959

A preliminary plot of this area using mostly office-identified control was done in Feb. 1959. Ten additional control stations with CSI cards and accompanying field photo identification (June 1959) were furnished to control a new plot. The original templates were utilized in laying this latter plot.

21. Area Covered: This report discusses the final radial plot for shoreline surveys T-9118, T-9817 thru T-9821 and a portion of T-9122. These surveys cover the area of Kings Bay from the entrance to the head.
22. Methods - Vinylite sheets, ruled with base grids at 1:20,000 scale to correspond with the UTM grid lines were used to lay the plot.

Photo coverage of the area included two nine-lens flights on either side of the bay furnished on positype paper prints at 1:20,000 scale, and single-lens 58 L series infra-red photographs at 1:10,000 scale.

The additional field-identified control was transferred to the nine-lens office prints and added to the original templates. Positions of templates generally remained the same in the junction area of the north part of the plot which had former field-identified control. Due to the additional control some positions on the west side of the bay and in the delta at the head of the bay shifted about 0.3 mm. Otherwise positions did not change. The new positions were recircled on the base sheet and replotted on the 1:10,000 scale manuscripts where the resultant error would be doubled.

The single lens photographs were resected on the manuscripts into common pass points with the nine-lens photographs used in the plot. The positions of their centers were added for compilation purposes.

23. Adequacy of Control: The additional control resulted in a tight plot throughout. All control held within 0.3 mm. except EDNA 1948 (sub pt) which was missed 0.5 mm to the southeast

-2-

due to an error in identification on the field photo. During photo preparation another similar point fitting the description was noted which would have held in the photo. (see plot sketch for distribution of control).

24. Supplemental Data - None

25 Photography

The infra-red photographs were lacking in detail especially in shadow areas, making it difficult to find common pass points with the nine-lens photographs. The nine-lens photographs although lacking in definition were adequate for the plot.

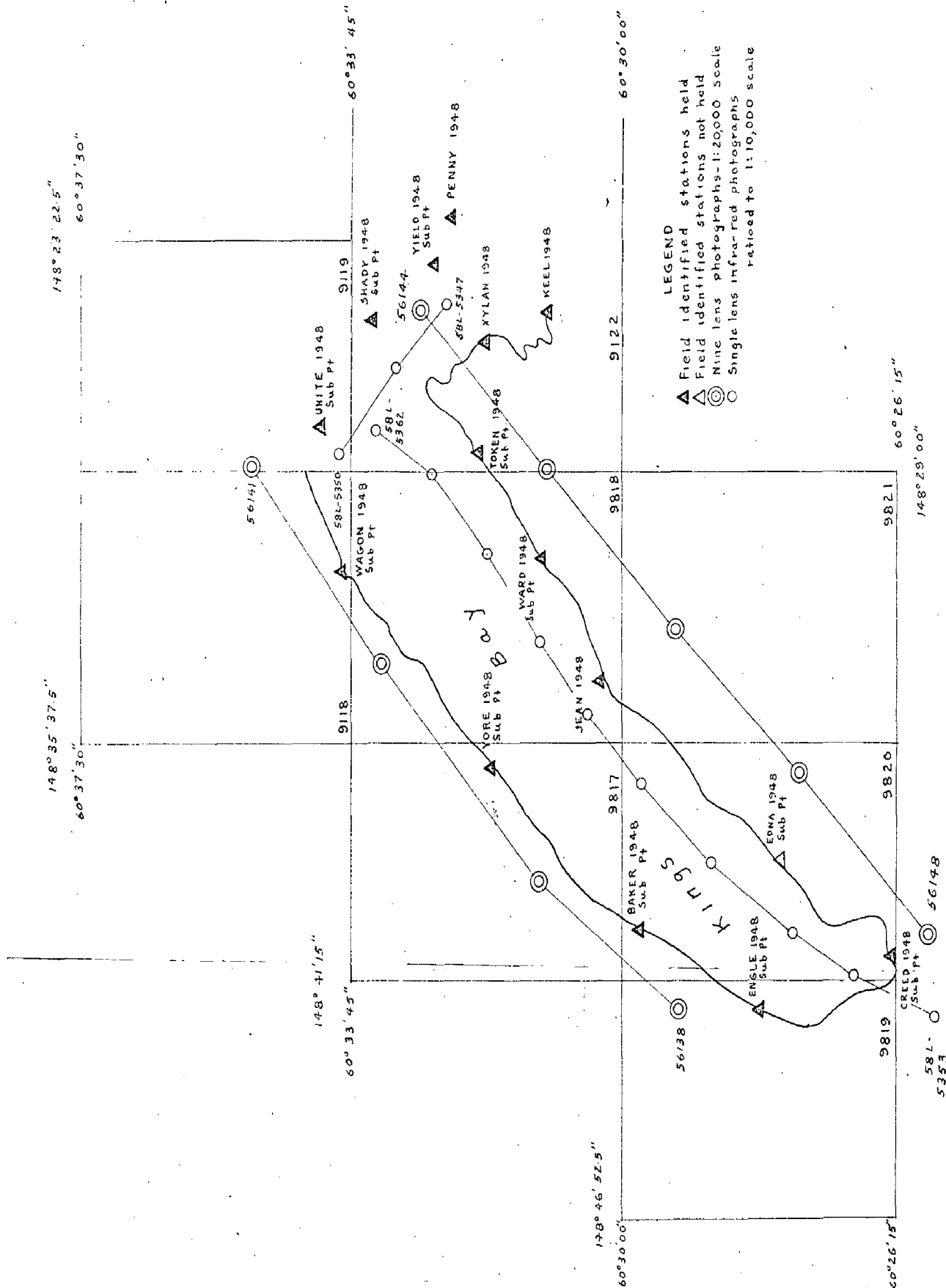
Photogrammetric Plot Sketch and list of control submitted with report.

Submitted by

Robert L. Sugden
Robert L. Sugden
Cartographer

Approved by:

Everett H. Ramey
Everett H. Ramey
Chief, Graphic Unit



PHOTOGRAMMETRIC PLOT SKETCH

PH-152

Kings Bay, Alaska

Aug. 1959

MAP T.....	PROJECT NO.....	SCALE OF MAP.....	SCALE FACTOR.....
9817	PH-152	1:10,000	

[illegible]

1 FT. = 3048006 METER

1 FT. = .3048006 METER
COMPUTED BY: L. Sugden

DATE _____

1/9/59

10

CHECKED BY: _____

R. Kelly

DATE _____

65/47E/1

11

COMPILATION REPORT
T-9817 & T-9818 (Advance)
September 1959

Preliminary manuscripts based on an office-controlled plot of the Kings Bay Area were completed in February 1959. These were furnished to the field party for the purpose of establishing photo-hydro control positions.

The plot was re-laid in August 1959 and the manuscripts re-compiled incorporating the 1959 field inspected control and shoreline.

The preliminary manuscripts were utilized for compilation, holding to the positions established by the new plot. Only minor changes in position resulted from the new plot.

31. Delineation

The 1:10,000 scale manuscripts were compiled by graphic methods, shoreline being delineated stereoscopically both from 1:10,000 ratioed infrared photographs and from 1:20,000 scale nine-lens photographs. The reflecting projector was used to fit photographic detail to manuscript scale where necessary. Field inspected photographs were used as a guide in detailing shoreline and foreshore features.

The quality of the infrared photographs was generally very poor, especially on the eastern shore, thus nine-lens photographs were used for delineation in this area. As the shoreline inspection was done primarily on the single-lens photographs, it likewise had some errors which were corrected by office interpretation of the single-lens and nine-lens photographs.

Field inspection photographs used were numbered:

Single-lens - 58-L-5357 thru 5360

Nine-lens 56137 thru 56138, 56140, 56146 thru 56148

32. Control

Control was adequate as regards identification, density and placement. (See Radial Plot Report filed with Descriptive Report T-9118)

33. Supplemental Data

None.

- 2 -

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Features

As these photos were taken, ^{was followed,} Generally the low-water line outlined on the field photos, were flown at about 4 feet above low water tide, this line must be very approximate. The high-water line was delineated as field-inspected except to correct for errors obvious in a stereoscopic study of the photographs. (See Sub-heading 31 above.)

36. Offshore Detail

Inapplicable.

37. Landmarks and Aids

Inapplicable.

38. Control for Future Surveys

Photo - hydro stations were located in the field on vinylite impressions of the preliminary manuscripts. These positions were relocated referencing to the new plot positions. This resulted in different positions for stations for CAB, DUD, EAR, and ROT on manuscript T-9817. Two positions are shown on T-9818 for station SAD as it was field identified in two different positions on the office prints used to cut in positions for the hydro control. There are no descriptions for the photo - hydro stations.

39. Junctions

Junctions were effected with adjoining manuscripts.

40. Horizontal and Vertical Accuracy

Vertical control inapplicable. Horizontal control - see pp 32.

41. through 45.

Inapplicable.

- 3 -

46. Comparison with Existing Maps

US Geological Survey Quadrangles - Seward (C-4) and Seward (C-5), Scale 1:63,360, dated 1954. No differences noted.

47. Comparison with Nautical Charts

US C&GS Chart #8517, Scale 1:80,000 dated January 1952 and US C&GS Chart #8551, Scale 1:200,000 dated May 1952. No differences noted.

Items to be applied to Nautical Charts immediately:
None.

Items to be carried forward: None.

SUBMITTED BY:

R. L. Sugden

R. L. Sugden

APPROVED:

Everett H. Ramey

Everett H. Ramey
Chief, Graphic Unit
Photogrammetry Division

August 28, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-152 (Alaska)


T-9817

Chugach National Forest

Claremont Glacier

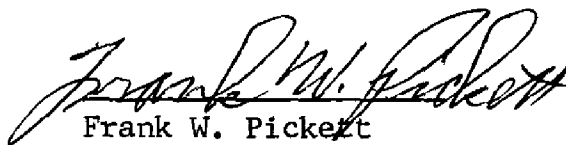
Kings Bay

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

KINGS BAY
Surveys T-9118, T-9119, T-9817 through T-9821

NOTES TO THE HYDROGRAPHER

The manuscripts of the Kings Bay area were corrected to datum as established by the plot of August 1959 and positions of all photo-hydro stations were relocated to this datum. As the final plot resulted in some shift in pass point positions, local differences occur between some of the field-established photo-hydro positions and those on the final manuscript.

Those stations with significantly different positions are:

CAB - T-9817
PAT - T-9820
LUX - T-9820

Photo-hydro Station RAT on manuscript T-9820 is listed as "Cut" on the field photo.

Photo-hydro control ends on manuscripts T-9118 and T-9818.

The manuscripts which are subject to a final office review show new positions for photo-hydro stations and the shoreline as field inspected in 1959. They with accompanying vinylite impressions of preliminary manuscripts should suffice for the completion of the hydrographic surveys.

The low-water line shown on the manuscripts was identified in the field on infrared photographs which were taken at 4 feet above low water. The line is thus very approximate.

Everett H. Ramey
Chief, Graphic Unit
Photogrammetry Division

FORM 1002(T-2) PHOTOGRAMMETRIC OFFICE REVIEW

MAP T-9817

PROJECT PH-152

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

FIELD EDIT REPORT

MAP T- 9817

PROJECT PH-152

Field edit was accomplished in 1959 in advance of revision of this map. At the time of final review, no Field Edit Report was available and none is bound with this Descriptive Report.

REVIEW REPORT T-9817

SHORELINE

AUGUST 25, 1970

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

No discrepancies were found when this survey was compared with other surveys; therefore, no comparison ozalid was made.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic surveys were available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle SEWARD (C-5), ALASKA, scale 1:63,360, dated 1951. No discrepancies were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with an unverified copy of the smooth sheet for H-8491, scale 1:10,000, dated 1959. Apparently T-9817 was used as the base map for shoreline. No significant differences in shoreline or alongshore features were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8517, scale 1:80,000, 9th edition, dated April 28, 1969. No significant differences in shoreline or alongshore features were noted.

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 H. Bishop

Charles H. Bishop
Cartographer
August 25, 1970

Approved:

Allen L. Powell

Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Approved:

Charles H. Hauer
Chief,
Photogrammetric Branch *CHB*

Jack E. Luth
Chief,
Photogrammetry Division