

T-12930

T-12930

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

Type of Survey *Shoreline..(Photogrammetric).....*

Job No. *PH-6301.....* Map No. *T-12930.....*

Classification No. *Final* Edition No. *...1.....*

Field Edited Map

### LOCALITY

State .... *Alaska* .....

General Locality ... *Shelikof Strait* .....

Locality .... *Cape Douglas* .....




1962 TO 1971

### REGISTRY IN ARCHIVES

DATE .....



## DESCRIPTIVE REPORT - DATA RECORD

T - 12930

 CT NO. (II): PH-6301		
FIELD OFFICE (III): Atlantic Marine Center, Norfolk, VA		CHIEF OF PARTY J. Bull, RADM, Director, AMC
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA		
INSTRUCTIONS DATED (III) (III): Office, 3/18/65 2/10/66 Supplement I 5/5/67 Supplement II 12/27/67 Supplement III 4/2/68 Supplement IV 4/9/68 Supplement V		
METHOD OF COMPILATION (III): Wild B-8 plotter		
MANUSCRIPT SCALE (III):  1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:10,000 pantographed to 1:20,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): JULY 8, 1976 R.T. CATOR
GEOGRAPHIC DATUM (III): N.A. 1927	VERTICAL DATUM (III): MHW MEAN <del>SEAS</del> EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., <del>XXXXXX</del> mean lower low water	
REFERENCE STATION (III):		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  X =	STATE:	ZONE
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

T-12930

FIELD INSPECTION BY (II):		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Office interpretation of photography taken in 1962 and 1967		
PROJECTION AND GRIDS RULED BY (IV):  Unknown		DATE
PROJECTION AND GRIDS CHECKED BY (IV):  Unknown		DATE
CONTROL PLOTTED BY (III):  Unknown		DATE
CONTROL CHECKED BY (III):   Unknown		DATE
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  J.D. Perrow, Jr.		DATE 2/1/65
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY Unknown	DATE
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  Unknown		DATE
SCRIBING BY (III):  Inapplicable		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  C. Blood		DATE 11/16/70
REMARKS: Field edit by R.B.M. June 15, 1971  		

DESCRIPTIVE REPORT - DATA RECORD  
T-12930

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "W" and "L" RC-9 "M"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
Color 67L4078,4080,4082	7/10/67	1023	1:40,000	1/7' below MLLW
67L4092	7/10/67	1034	1:40,000	1.3' below MLLW
67L(C)4356,58,60	7/13/76	1157	1:40,000	0.6' above MLLW
62M2271-2274	7/3/62	1012	1:50,000	0.1' below MLLW
62W6558 - 6561	6/18/62	1631 PST	1:30,000	14.2' above MLLW

## Predicted

## TIDE (III)

## Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRINGS RANGE
REFERENCE STATION: Seldovia, Alaska		15.4	17.8
SUBORDINATE STATION: Iliamna Bay, Alaska		12.3	14.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): J.B. Phillips

DATE:

June 1976

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

3

IDENTIFIED:

3

NUMBER OF BM(S) SEARCHED FOR (II):

None

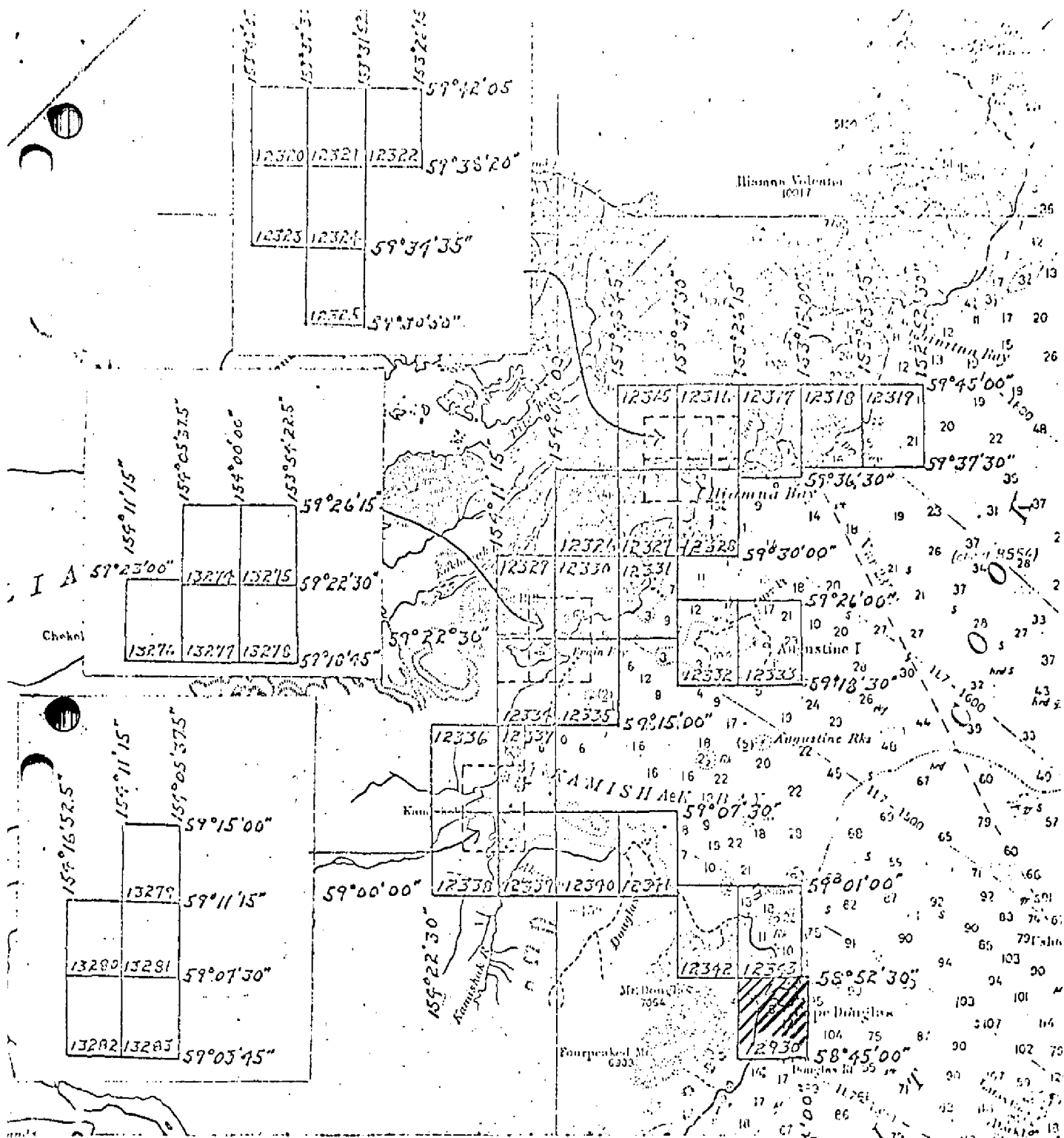
RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

Scale 1:10,000 & 1:20,000

Revised 4-3-68 LFK

## SUMMARY

T-12930 is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit was accomplished during June 1971.

Final review was accomplished at the Rockville Office in June 1976.

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

T-12930

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	5/7/65	Superseded
No major field edit: corrections required	See letter 10/10/65	Superseded
Compilation South of 58°19' complete pending field edit	Aug. 28, 1968	Superseded
Field edit applied Compilation complete	Dec. 1971	

# Photogrammetric Plot Report

Project 21062

Kamishak Bay, Alaska

## 21. Area Covered

This report covers the southern portion of Cook Inlet, in the vicinity of Kamishak Bay to Cape Douglas, Alaska.

## 22. Method

Analytic aerotriangulation methods were used to bridge Strip #1 at the scale of 1:50,000.

Stereoplanigraph methods used to bridge Strip #2 at the scale of 1:30,000. Both strips were adjusted by the IBM 1620.

Points were dropped from Strip #1 to control one model needed to compile an offshore island. The points were also dropped from Strip #1 to provide control on the eastern end of Strip #2.

## 23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. Ties between strips were averaged. Bridging results meet National Map Accuracy Standards with the exception of station WARVIK, SS "B". No reason could be determined for its not being within standards.

WARVIK, SS "A" is marked ("doubtful") on Form 152 but seems to fit into a good adjustment pattern with small residuals.

## 24. Supplemental Data

Local quads were used to obtain vertical control for bridging purposes. Vertical points expressed on the readout are only as good as these quads and are not to be used as "Tight vertical control".

## 25. Photography

Photography was adequate with regard to coverage, overlap and definition.

Submitted by,

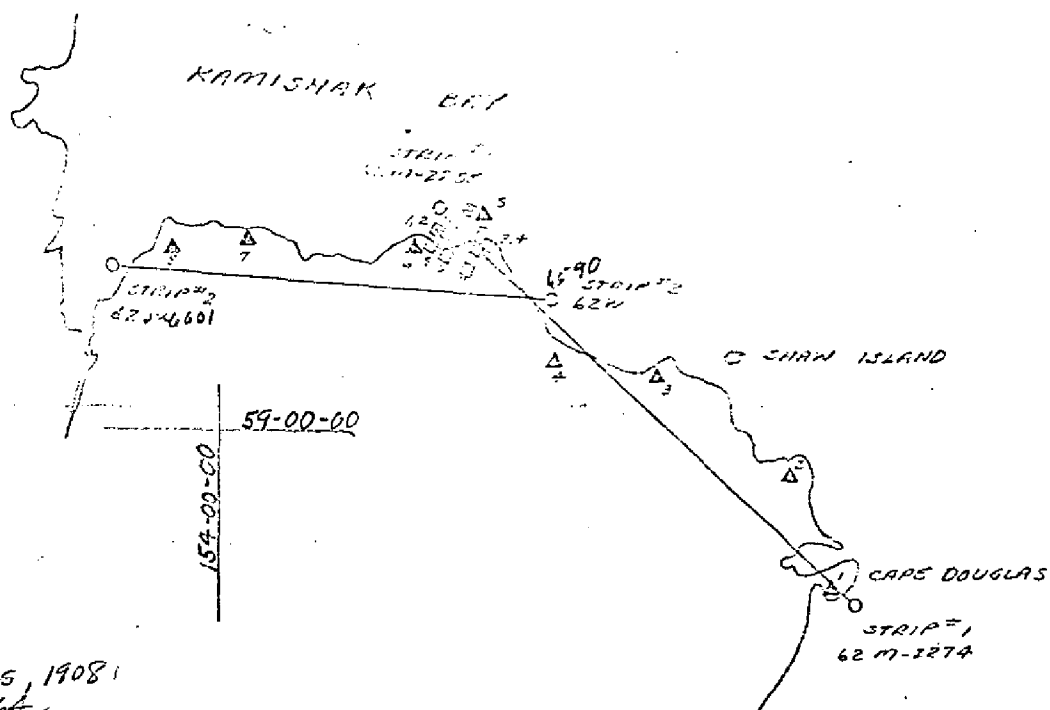
  
John D. Perrow, Jr.

Approved by:





# KAMISHAK BAY, ALASKA 21062



- 1 South Douglas, 1908
- 2 Douglas, 1964
- 3 Beaver, 1964
- 4 Baby, 1964
- 5 Crow, 1964
- 6 Shale, 1964
- 7 Echo, 1964
- 8 Waverly, 1964

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

# Memorandum

631P

T-12930

TO : The Director  
Thru: Seattle Regional Officer

DATE: 10 October 1965

In reply refer to:

FROM : Commanding Officer, USC&GSS PATHFINDER

80

SUBJECT: Field Edit Report, Project OPR-429: Kamishak Bay, Ninilchik.

No major field edit corrections for processing smooth sheets are required for the following incomplete manuscripts:

Ninilchik:

T-12640  
T-12641  
T-12654

Kamishak Bay:

T-12930  
T-12342  
T-12343

Minor corrections are contained in the hydrographic records and will be discussed in the descriptive report for the particular smooth sheet involved.

*L. F. Woodcock*  
L. F. Woodcock  
Captain, USESSA

~~CC 6320~~  
Rel 11/3/65

Copy sent to NIZO. FOR ACTION

*AH*



# A-8841 HYDROGRAPHER'S REPORT

<u>VESSEL</u>	<u>INSTRUMENT NO.(s)</u>
ML-1	940, 935, 552
ML-2	557, 552
ML-3	140, 935
ML-4	145, 552
PATHFINDER	551, 141

## E. SMOOTH SHEET

by smooth plotter

## F. CONTROL

32%

Positioning was controlled by SHORAN (~~43%~~<sup>68%</sup>) and by visual three-point fixes (~~57%~~<sup>68%</sup>). Shoran stations were established in late June on 2nd-order traverse stations CROW, 1964 and S. AUGUSTINE 2, 1964. The latter station proved to be on unsuitable terrain for erection of a mast so it was placed on the station's RM-2<sup>3</sup>. Shoran receivers were then installed in ML-1, ML-2, and ML-3. The ship and launch units were calibrated just before and after each fueling trip to Kodiak throughout the season, and corrections have been derived (enclosed). Zero checks were taken hourly. For details see 1965 SHORAN REPORT. Control stations for visual hydrography were established by signal building on existing traverse marks and on photogrammetric locations. It was necessary to establish several signal locations by sextant cuts. Photo-hydro signals are plotted on Incomplete Manuscripts T-12930, 12942, and 12943. (1:20,000, April, 1965).

## G. SHORELINE

Sources of shoreline details are the manuscripts mentioned in the preceding section. No blue-line copies of these compilations were furnished so that extra copies of the blackline manuscripts were treated with DRY-WRITE ink, and the shoreline burnished onto the boat sheet. The same procedure is recommended to the smooth plotter.

Principal details of the shoreline were verified in the course of hydrography. Small revisions are suggested by the hydrographers notes on the boat sheet. The inshore ends of lines define the low water line in most areas. In those areas designated "foul" penetration is often terminated offshore. (Ex. Lat. 58° 54', 153° 19')

# H-8841

## HYDRO SURVEY REVIEWER'S REPORT

2.

### 2. Control and Shoreline

The origin of control is adequately covered in Part F of the Descriptive Report. The smooth plotter did not plot the on-shore-signals on the smooth sheet as visual fixes had been converted to shoran fixes for machine plotting. These signals were transferred by the reviewer from the preliminary unverified position plot of the present survey to the present survey position overlay in order to retain a graphic record of the original control.

The shoreline originates with advanced photogrammetric manuscripts T-12930 (1962-67), T-12342 (1962), and T-12343 (1962).

Several foreshore characteristics shown as Rky or rky on the above manuscripts were described more appropriately on the present survey smooth sheet as boulders.

The four islets on T-12343 in the vicinity of lat.  $58^{\circ}58.35'$ , long.  $153^{\circ}23.66'$  were specifically described on the boat sheet as being rocks awash and are so shown on the smooth sheet.

### 3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves are adequately delineated except in some inshore foul areas. In some cases, supplemental dashed and brown depth curves were added in accordance with Par. 6-64 of the Hydrographic Manual.

C. The development of the bottom configuration and the investigation of least depths are considered adequate, however, the hydrographer did not verify the least depths on hazards to navigation with a handlead as instructed by the Project Instructions.

### 4. Condition of the Survey

The plotting, sounding records, Descriptive Report, and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instructions Manual - Automated Hydrographic Surveys except as noted.

Inasmuch as a visual fix program was not available for automating the smooth plotting, the visual fix positions were converted to shoran values and machine plotted.

## PHOTOGRAMMETRIC OFFICE REVIEW

T-12930.0

1. PROJECTION AND GRIDS CB	2. TITLE CB	3. MANUSCRIPT NUMBERS CB	4. MANUSCRIPT SIZE CB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)		7. PHOTO HYDRO STATIONS
8. BENCH MARKS CB	9. PLOTTING OF SEXTANT FIXES CB	10. PHOTOGRAMMETRIC PLOT REPORT CB	11. DETAIL POINTS CB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CB	13. LOW-WATER LINE CB	14. ROCKS, SHOALS, ETC. CB	15. BRIDGES CB
16. AIDS TO NAVIGATION CB	17. LANDMARKS CB	18. OTHER ALONGSHORE PHYSICAL FEATURES CB	19. OTHER ALONGSHORE CULTURAL FEATURES CB
PHYSICAL FEATURES			
20. WATER FEATURES CB	21. NATURAL GROUND COVER N.A.		22. PLANETABLE CONTOURS N.A.
23. STEREOSCOPIC INSTRUMENT CONTOURS N.A.	24. CONTOURS IN GENERAL N.A.	25. SPOT ELEVATIONS N.A.	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS CB	28. BUILDINGS CB	29. RAILROADS CB	30. OTHER CULTURAL FEATURES CB
BOUNDARIES			
31. BOUNDARY LINES N.A.		32. PUBLIC LAND LINES N.A.	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CB	34. JUNCTIONS CB		35. LEGIBILITY OF THE MANUSCRIPT CB
36. DISCREPANCY OVERLAY CB	37. DESCRIPTIVE REPORT CB	38. FIELD INSPECTION PHOTOGRAPHS CB	39. FORMS CB
40. REVIEWER C. Blood 11/16/70		SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER B. Barge 12/9/71 R. Pate 12/4/71		SUPERVISOR A.C. Rauck, Jr.	
43. REMARKS  Field Edit applied from 67L4092, 67L(C)4360 Field Edit ozalid 67L4090, 67L(C)4356 & 4358			

Review Report T-12930  
Shoreline Survey  
June 1976

61. General Statement

Refer to letter dated October 10, 1965, and to the Hydrographer's Report, which are included with this report, for comments on field edit in this area. There is a field edit ozalid on which field inspection was accomplished on June 15, 1971. There are also three color photographs: 67L4356, 4358, and 4360. All three photographs have field information on them.

The compiler did not furnish a Compilation Report or Data Record.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Comparison was made with USGS Afognak (D-4 & D-5) Alaska, quadrangle, scale 1:63,360, edition of 1951.

64. Comparison with Contemporary Hydrographic Surveys

H-8841 (Survey unavailable)

H-9210 1:20,000 1971

Comparison has been made with the final reviewed hydrographic survey H-9210. Elevations of rocks differ due to the hydrographer's use of actual tides. A foul area was shown on the Class I manuscript, centered at approximately 58°45'30" latitude and 153°16' longitude, and known as Douglas Reef. The limit lines for this reef have been removed during review from the manuscript since they differ somewhat from the hydrographic survey. The hydrographer shows the reef adequately with depth curves and soundings.

The mean lower low water line has been removed from the manuscript in the areas where the hydrographer had determined a limit other than the furnished one.

A rock, "awash, MHW", was shown at the tip of ledge at approx. 58°50'45" latitude and 153°15'15" longitude on the Class I manuscript. This rock and elevation was furnished by the field editor, color photograph 67L4356. The hydro survey 9210 show at this same location a rock "awash 4 ft. MLLW." A cartographic comparison print is included with this report for identification of this rock. The Chief, Quality Control for Hydrographic Surveys will be notified by memorandum.

65. Comparison with Nautical Charts

Chart 8554, 1:200,000, 13th edition, May 1974.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau Requirements.

Submitted by,

*J. B. Phillips*  
J. B. Phillips


Approved:

*[Signature]*  
Chief, Photogrammetric Branch

*[Signature]*  
Chief, Coastal Mapping Division





 TO: Chief, Quality Control, Hydrographic Surveys

FROM: J. Phillips  
Quality Control Group, C3421

SUBJECT: Photogrammetric Review PH-6301, Part 1, Manuscript T-12930  
Comparison with H-9210, 1:20,000 1971

Refer to the Cartographic comparison print which is submitted with the Photogrammetric Review Report for T-12930 for identification of a rock which has an appreciable difference in elevation from that shown on the hydrographic survey.

