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-630] ... Map No. T-12324 ...

Classification No. Final Edition No. ...

(Field Edited Map)

LOCALITY

State ... Alaska

General Locality ... Kamishak Bay, Cook Inlet ...

Locality ... South Head

REGISTRY IN ARCHIVES

DATE

★·U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

7 2324

| 7 |
|---|
| |

| FORM | C&GS-181a |
|------|-----------|
| | |

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

DESCRIPTIVE REPORT - DATA RECORD

| | T -12324 | | | |
|--|------------------------|--|--------------------|--|
| PROJECT NO. (II): | | | | |
| PH-6301 | | | | |
| FIELD OFFICE (II): | | CHIEF OF PARTY | | |
| None | | | | |
| PHOTOGRAMMETRIC OFFICE (III): | | OFFICER-IN-CHARGE | | |
| Atlantic Marine Center, Norfol | k, Virginia | J. Bull, Direc | tor | |
| INSTRUCTIONS DATED (III) (III): | | 1 | | |
| March 18, 1965 - Office Part I Feb. 10, 1966 - Office, Supple May 5, 1967 - Office, Suppleme December 27, 1967 - Office, Su | ment 1 nt II | | · | |
| | · | | | |
| METHOD OF COMPILATION (III): | | | - | |
| Wild B-8 plotter | | | | |
| MANUSCRIPT SCALE (III): | | REOSCOPIC PLOTTING INSTRUMENT SCALE (III): | | |
| 1:10,000 1:5,000 pantographed to 1:10,000 | | | 1:10,000 | |
| DATE RECEIVED IN WASHINGTON OFFICE (IV) | DATE REP | ORTED TO NAUTICAL CH | ART BRANCH (IV): | |
| | | <u> </u> | | |
| APPLIED TO CHART NO. | DATE: | 2 9 1976 | e registered (IV): | |
| GEOGRAPHIC DATUM (III): | | VERTICAL DATUM (III) | | |
| N.A. 1927 | | | | |
| REFERENCE STATION (III): | | <u>i</u> | | |
| SPIIR 1907 | | | | |
| SPUR, 1907 | | | | |
| LAT.: LONG | .: 3'46.550" 729.6M | ▼ ADJUSTEO □ UNADJUSTED | - | |
| LAT.: LONG | | 1 = | ZONE | |

| | _ | . |
|---------|--------|----------|
| T_{i} | グ | 7 |
| (| \sim | / |

| FORM C&GS-181b (3-66) | U.S. DÉPARTMENT OF COMMERC ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATIO COAST AND GEODETIC SURVE |
|---|--|
| T-12324 | TIVE REPORT - DATA RECORD |
| FIELD INSPECTION BY (II): | DATE: |
| None | |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AN | METHOD OF LOCATION): |

| PROJECTION AND GRIDS RULED BY (IV): | | DATE | |
|--|-----------------------------|---------|--|
| A. Bethea | 11/13/67 | | |
| PROJECTION AND GRIDS CHECKED BY (IV): | | DATE | |
| J.C. | c. | | |
| CONTROL PLOTTED BY (III): | | DATE | |
| V. Steinberg | | 2/21/68 | |
| | | | |
| CONTROL CHECKED BY (III): | - | DATE | |
| F. Wilson | | 2/21/68 | |
| • | | | |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXT | ENSION BY (III): | DATE | |
| P.J.Dempsey | | 1/22/68 | |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): | PLANIMETRY A.L. Shands | DATE | |
| Wild B-8 Plotter | reviewed by L.L.Neterer,Jr. | 7/5/68 | |
| | contours · Inapplicable | DATE | |
| MANUSCRIPT DELINEATED BY (III): | | DATE | |
| A.L. Shands | | 1/19/68 | |
| SCRIBING BY (III): | | DATE | |
| Inapplicable | | | |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: L. L. Graves | | 8/22/68 | |
| • | • | | |

REMARKS:

Field edity by:M.C.Grunthal and T.R. Crane, June - August 1972

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FORM C&GS-181c (3-66) U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12324

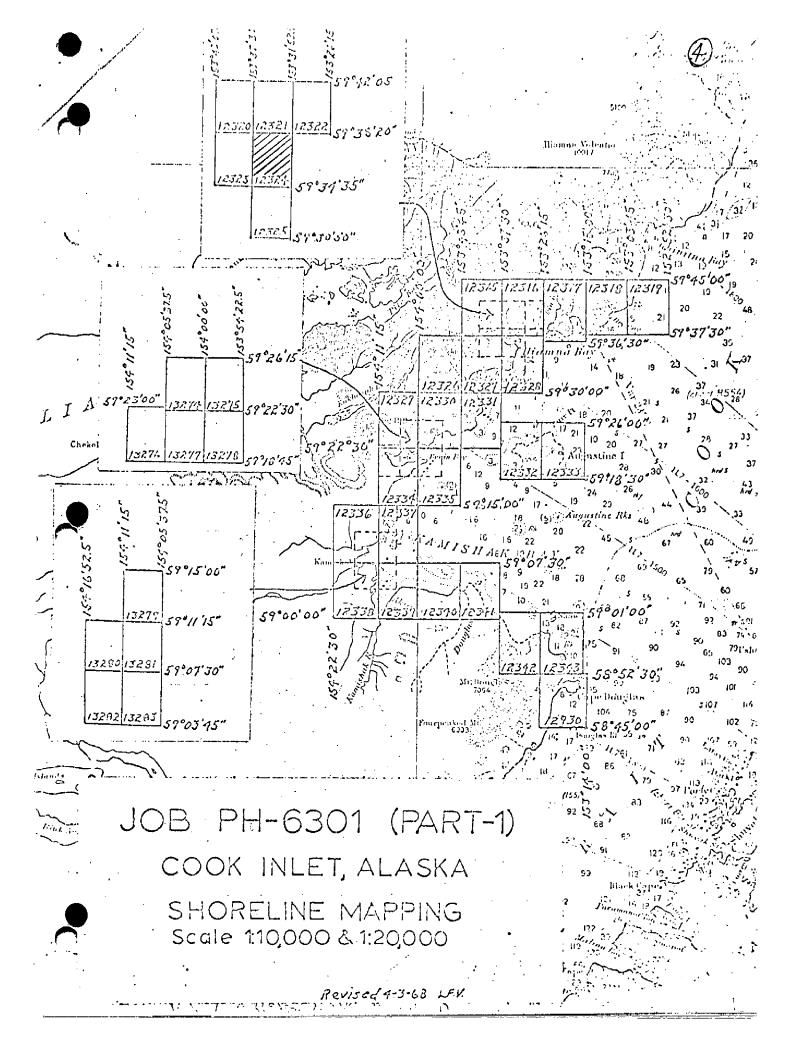
CAMERA (KIND OR SOURCE) (III):

U.S.C&GS Type "₩"

| PHOTOGRAPHS (III) | | | | |
|-------------------|---------|------|----------|-----------------|
| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
| 62W6285 - 6289 | 6/18/62 | 1212 | 1:15,000 | 2.6! above MLLW |
| 62W6306 - 6308 | 6/18/62 | 1225 | 1:15,000 | 3.5' above MLLW |
| 62W7315,7318 | 6/29/62 | 1537 | 1:30,000 | 6.0' above MLLW |
| 62W6302-6303 | 6/18/62 | 1217 | 1:15,000 | 3.5' above MLLW |
| 62W7340-7343 | 6/29/62 | 1549 | 1:30,000 | 5.5' above MLLW |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Predicted TIDE (1) | 1) | | | DIUMA |
|--|------------|--------------------|---------------|----------------------------|
| | | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
| REFERENCE STATION: Seldovia, Kachemak Bay, 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: | rudry | 1976 |
| PROOF EDIT BY (IV): | | DATE: | | |
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): | RECOVERED: | IDENTIFIE | ED: | |
| NUMBER OF BM(S) SEARCHED FOR (II): None None | | | ED . | |
| NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): | one | | | |
| NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (HI): | None | | | |
| REMARKS: | | | | |

USCOMM-DC 36393C-P66



SUMMARY

T-(2324 is one of 40 shoreline maps comprising Job PH-6301 (Part 1) 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 Aug. 1972

Final review was accomplished at the Rockville Office in Dec. 1975

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

T-12324

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|---|-----------------|------------|
| Compilation complete pending field edit | | • |
| Alongshore area for Hydro | June 1968 | Superseded |
| Field edit applied, compilation complete | March 1974 | |
| | | |
| | | |

(b)

FIELD INSPECTION

■-T-12324

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

PHOTOGRAMMETRIC PLOT REPORT Job PH-6301 Kamishak Bay, Alaska

January 22, 1968

21. Area Covered

This report covers the northern part of Kamishak Bay, Alaska, consisting of thirteen (13) 1:20,000 scale map manuscripts -- T-12315 thru T-12319; T-12326 thru T-12331, T-12334 and T-12335 and six (6) 1:10,000 scale map manuscripts -- T-12320 thru T-12325.

22. Method

Analytic aerotriangulation methods were used to bridge strips 1, 2 and 3 at 1:60,000 scale using premarked and field identified control. Numerous tie points were located to control strips 41, 42 and 43, which were bridged by stereoplanigraph.

The attached sketch of strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown on the IBM readouts along with all the bridge points.

23. Adequacy of Control

Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN, 1967, Subpoint A and Subpoint B, were too poor to read and were not used in the adjustment.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale

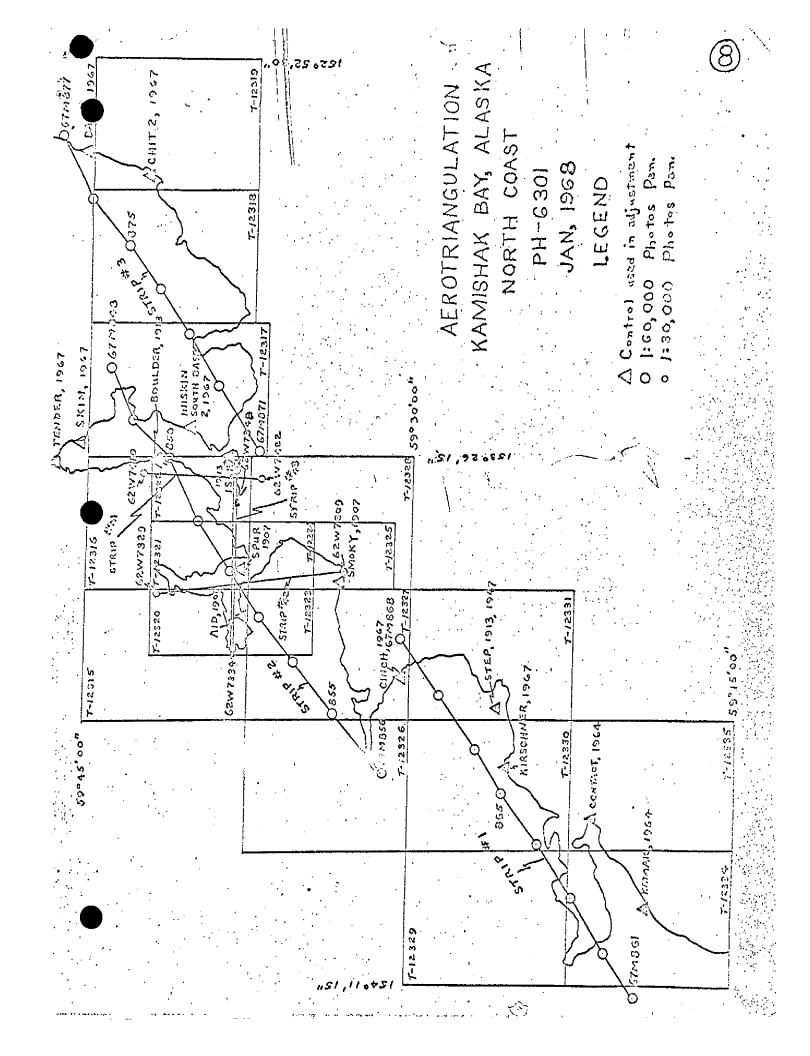
Approved and forwarded:

H. P. Eichert, Chief

Aerotriangulation Section

P. J. Dempsey

Submitted by:





T-12324 Compilation Report PH-6301

31. Delineation

The Wild B-8 stereoplotter was used. Some of the offshore and foreshore area detail was compiled graphically from ratio prints of 1:15,000 photography.

3 CONTROL 3

Refer to Photogrammetric Plot Report, dated January 22, 1968.

Difficulty in holding control established by stereoplanigraph bridging of strips 41, 42, and 43 was encountered, initially. They were returned to the Bridging Section and their subsequent re-adjustment resulted in "Revisions" for strips 41 and 43.

Strip 42 had been compiled with little or no difficulty concerning the control. Although strip 41 also was compiled utilizing the original Bridge Strip, the comparison between the original and "Revised" strip #41 indicated a maximum change of approximately 0.3mm which proved to be of an insignificant effect. The compilations of these two strips were summarily considered to be of sufficient accuracy. Both of these strips were oriented in a general north-south direction.

The results of the "Revision" of strip 43 proved to be of a major change, and inasmuch as this strip was oriented in an east-west direction, intersecting both strips 41 and 42, an attempt to tie these together at their common models resulted in an error of tie-in between drilled pass points of strip 43 and shoreline pass points common to all strips.

When model 62W-7343 and 7346, of strip #43 was set, it was found that six of the seven drilled pass points would hold within tolerance, but none of the adjoining shoreline pass points from strips 41 and 42 would hold. When this model was re-scaled to all common shoreline points, the drilled points would not hold.

This same condition existed when model 62W-7334 and 7337 was set. Drilled pass points held within tolerance, but no common shoreline pass points between strip 42 and this model would hold.

It was evident at this time that no model work could be compiled from strip 43.

To further substiantiate our decision, all five manuscripts were joined and a modified radial plot consisting of several processed ratio photos of each of strips 41, 42, and 43 was laid.

It was noted during this plot, that the tie points (from the stereoplanigraph bridges), and the field identified triangulation control, would hold well with the common shoreline pass points, but the drilled points would not. (A few of the drilled points at or near sea level were noticeably closer than those at the higher elevations.)

It was concluded therefore that strips 11 and 12 were tied together well and were geographically correct, and that a graphic solution and compilation of the two models in question on strip 43 could be made using the common shoreline pass points.

- 33. Supplemental Data None
- 34. Contours and Drainage

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. Shoreline and Alongshore Details

The shoreline and all rocks, reefs, ledges, fould, and sand and boulder limits were delineated from office interpretation of the photographs.

36. Offshore Details

All rocks, reefs, and foul areas were delineated from office interpretation of the photographs.

37. Landmarks and Aids - None

- 38. Control for Future Surveys None
- 39. Junctions

Junctions are in agreement with T-12328 (1:20,000) to the east; T-12323(1:10,000) and T-12327(1:20,000) to the west; T-12321(1:10,000) and T-12316 (1:20,000) to the north and T-12325 (1:10,000) to the south.

Horizontal and Vertical Accuracy

Refer to photogrammetric plot report 41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison has been made with USGS quadrangle Iliamna (C-2), Alaska, scale 1:63,360, dated 1958...

47. Comparison with Nautical Charts

Comparison has been made with USC&GS charts 8554 (Cook Inlet, Southern Part) scale 1:200,000, dated May 10, 1965; and 8665, Iliamna Bay, Alaska, 4th Ed., dated January 13, 1964, scale 1:20,000.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

Arnold L. Shands Carto Tech March 1969

Approved:

Chief, Coastal Mapping Section

FIELD EDIT REPORTS

Lower Cook Inlet, Alaska

OPR-429 FA-72

June-August 1972

MAPS

| T-12320 | T-12325 |
|-----------|---------|
| T-12321 | T-12326 |
| T-12323 | T-12327 |
| (T-12324) | T-12331 |

FIELD EDIT REPORTS

Lower Cook Inlet, Alaska

OPR-429

June-August 1972 -

INTRODUCTION

Field edit reports are attached for the following maps:

| T-12320 | T-12325 |
|---------|---------|
| T-12321 | Т-12326 |
| T-12323 | T-12327 |
| T-12324 | Т-12331 |

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Sextant fixes were plotted on boat sheets FA-10-6-72 and FA-20-2-72. The hydrographic location was then compared with the photogrammetric position. Height data for all rocks and ledges is either written directly on the ozalid or entered in the field edit notebook along with position data, in which case the notebook and page number are referenced on the ozalid.

Notes have been made in violet on the field photographs and have been cross-referenced on the field edit ozalids by photograph number. All times are based on 135° W. meridian.

Compilation of the maps is good. Several discrepancies in the MLLW line were noted in Iliamna Bay, apparently as a result of uplifting from the 1964 earthquake. It is recommended that the maps be revised in accordance with notes on the photographs and in the field edit notebook before acceptance as advance manuscripts. Field inspection of these maps is complete.

Approved and Forwarded:

R. H. Houlder Captain, NOAA FIELD EDIT REPORT

Map T-12324

Iliamna Bay, Alaska

August 1972

Field edit of Map T-12324 was done by LT M. C. Grunthal and LT (ig) T. R. Crane during July and August, 1972. Inspection was done from a small boat and on foot when fixes on land were required.

METHOD

Field photographs and a copy of the field edit ozalid were examined in the field. The mean high water line was verified by visual comparison of the beach area and the ozalid in the field. Where control was available, isolated rocks and reefs were located by sextant fixes and plotted on boat sheet FA-10-6-72 and then compared with the photogrammetric position. Ledge and foul area limits were compared to those on the ozalid and extended where necessary, as indicated on the ozalid. Notes have been made on the field edit ozalid of the heights of rocks, reefs, and ledges.

Notes have been made in violet on the field edit ozalid. All times noted are based on the 135° W. meridian.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of features compares well to the photogrammetric location. Incorrectly compiled features and those discovered during field edit, that should be included on the map, are noted on the field edit ozalid. Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the field edit ozalid and that the map be accepted as an advance manuscript.

Respectfully submitted,

LT (jg), NOAA

| NOAA FORM 75-74 (2-74) | | | · · · · · · · · · · · · · · · · · · · | U.S. DEPARTMENT OF COMMERCE |
|---|----------------|---------------------------------------|--|--|
| (A / T) | РНО | TOGRAMMET | RIC OFFICE REVIEW | NATIONAL OCEAN SURVEY |
| | | | 10363 | |
| 1. PROJECTION AND GRIDS | 2. TITLE | 12)24 | 13. MANUSCRIPT NUMBERS | 4. MANUSCRIPT SIZE |
| * The same of the | | | | |
| LLG | LLG | | LLG | |
| CONTROL STATIONS | <u> </u> | <u> </u> | <u> </u> | |
| 5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER | ATIONS OF | 6. RECOVERA | BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY | 7. PHOTO HYDRO STATIONS |
| | CCBRACT | (Topographic | : stations) | |
| LLG 8. BENCH MARKS | 9. PLOTTING O | FAFVTANT | X 10, PHOTOGRAMMETRIC | X 11. DETAIL POINTS |
| O, BENCH MARKS | FIXES | F SEXTANT | PLOT REPORT | II. DETAIL POINTS |
| Χ | X | | | X |
| ALONGSHORE AREAS (Nautica | Chart Data) | | <u> </u> | |
| 12. SHORELINE | 13. LOW-WATER | LINE | 14. ROCKS, SHOALS, ETC. | 15. BRIDGES |
| | | | | |
| LLG | X 17. LANDMARK | | LLG | XX |
| 16. AIDS TO NAVIGATION | 17. LANDMARK | 5 | 18. OTHER ALONGSHORE PHYSICAL FEATURES | 19. OTHER ALONGSHORE CULTURAL FEATURES |
| Χ | x | | LLG | |
| PHYSICAL FEATURES | <u> </u> | | | |
| 20. WATER FEATURES | | 21. NATURAL | GROUND COVER | 22. PLANETABLE CONTOURS |
| | | | | |
| | | | XX | XX |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS | 24. CONTOURS | IN GENERAL | 25. SPOT ELEVATIONS | 26. OTHER PHYSICAL FEATURES |
| XX | XX | , | XX | |
| CULTURAL FEATURES | | · · · · · · · · · · · · · · · · · · · | ^^ | |
| 27. ROADS | 28. BUILDINGS | | 29. RAILROADS | 30. OTHER CULTURAL |
| XX | 1 xx | • | \ xx | FEATURES XX |
| | ^_ | | | |
| BOUNDARIES | | | | |
| 31. BOUNDARY LINES XX | | | 32. PUBLIC LAND LINES | |
| · | | | | |
| MISCELLANEOUS 33. GEOGRAPHIC NAMES | | 34.1232319N | s _o | 35. LEGIBILITY OF THE |
| LLG | | | | MANUSCRIPT |
| | | T-12325 LI T-12321 LI | -G | LLG |
| 36. DISCREPANCY OVERLAY | 37. DESCRIPTI | VE REPORT | 38. FIELD INSPECTION PHOTOGRAPHS | 39. FORMS |
| LLG | LL | .G | XX | LLG |
| 40. REVIEWER | <u> </u> | | | ON OR LINIT |
| L.L.Graves 8/26/68 | | | A.C. Rauck, Jr. | |
| L.L. diaves 0/20/00 | | | ja.c. Nauck, or. | |
| 41. REMARKS (See attached she | et) | | <u>'</u> | |
| FIELD COMPLETION ADDITION | NS AND CORRECT | IONS TO THE | MANUSCRIPT | |
| 42. Additions and corrections script is now complete ex | | | ion survey have been applied | to the manuscript. The manu- |
| COMPILER C. Blood | Date:Marc | h 1974 | SUPERVISOR | |
| Review by A.Rasc | <u>r</u> | | <u> </u> | <u> </u> |
| 43. REMARKS Field edit applied | from: field | edit oza | lid and the offshore | photographs |
| which had no notes. | | | | |
| | | | | |
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| | | | | |

NOAA FORM 75-74 (2-74) SUPERSEDES CAGS FORM 1002 WHICH MAY BE USED UNTIL EXISTING STOCK IS DEPLETED.



Review Report T-12324 Shoreline Survey December 1975

61. General Statement

In areas of ledge and reef, compilation of the mean lower low water line was found to be inadequate on the Class I manuscript. Numerous foreshore areas were compiled as foul. This apparently resulted, in part, from an erroneous computation of the stage of tide at the time of photography. This discrepancy was not corrected by the field editor or the hydrographer. Changes made in the Class I manuscript details, and the procedures for reporting all discrepancies to the Hydrographic Review Section, are outlined under heading 64 of this report.

The Data Record (181c) has been corrected to reflect the correct stage of tide at the time of photography.

62. Comparison with Registered Topographic Surveys

T-2822 1:20,000 1907

T-3420 Part II 1:40,000 March 1910

Each of these surveys is superseded by the new map.

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9327 1:20,000 June-August 1972 H-9328 1:10,000 October 5, 1972

H-9329 1:10,000 August 1972 and July 1973

General: Comparison was made with the final reviewed hydrographic sheets. All additions and corrections made to the photogrammetric survey during final review are accounted for below, and/or on Cartographic Comparison Prints which are a part of this Descriptive Report. The Chief, Hydrographic Survey Branch has been notified by memorandum. Refer to page 19 1



In addition to the deficiencies in ledge information described under heading 61, differences exist between the surveys in rock elevations, resulting primarily from the use of actual observed tides on the hydrographic survey. Greater differences, which are not attributable to the two different sets of tide data, were checked during final review.

The Photogrammetric Survey field records were examined by the hydrographic survey reviewer and found to contain fixes that had not been plotted on either of the contemporary surveys. Statements in the field edit reports indicated that the fixes were plotted on the boat sheet, resulting in the objects being left off the photogrammetric manuscript.

During final photogrammetric review, the fixes in the field editor's sketchbook (form 274) for this sheet were plotted. The plotted positions are in agreement with the positions on the hydrographic smooth sheet. Fixes 213 and 214 are in error. These fixes plot on the opposite side of a sizeable island from where they are indicated by the editor on the field edit sheet, located in water 30' to 40' deep. They have been omitted for this reason. Rocks have been plotted on the hydro in the general vicinity of the rocks indicated on the field edit sheet - source unknown. 7age 1913

H-9327: See Cartographic Comparison Print A. Comparison has been made and is in agreement except for the small area of shoreline that juts out as shown.

as shown. H-9328: See Cartographic Comparison Print B. The elevations were labeled in reverse on the Class I manuscript.

See Cartographic Comparison Print B2. This is to show where ledge and the low water line has been added during review, to more adequately depict the foreshore areas.

H-9329: See Cartographic Comparison Print C. On the hydrographic sheet there is a note "covered | ft. MLLW" in the vicinity of the rocks indicated. It is not clear which objects this note refers to.

Comparison with Nautical Charts

Chart 8665, 5th Edition, Feb. 19, 1972

66. Adequacy of Results and Future Surveys

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

Submitted by,

Approved: D. B. Blankenbah Chief, Photogrammetric Branch & Chief, Coastal Mapping Division



Memorandum to the Chief, Hydrographic Survey Branch, concerning Photogrammetric Review of PH-6301, Part 1, Kamishak Bay, Alaska T-12324

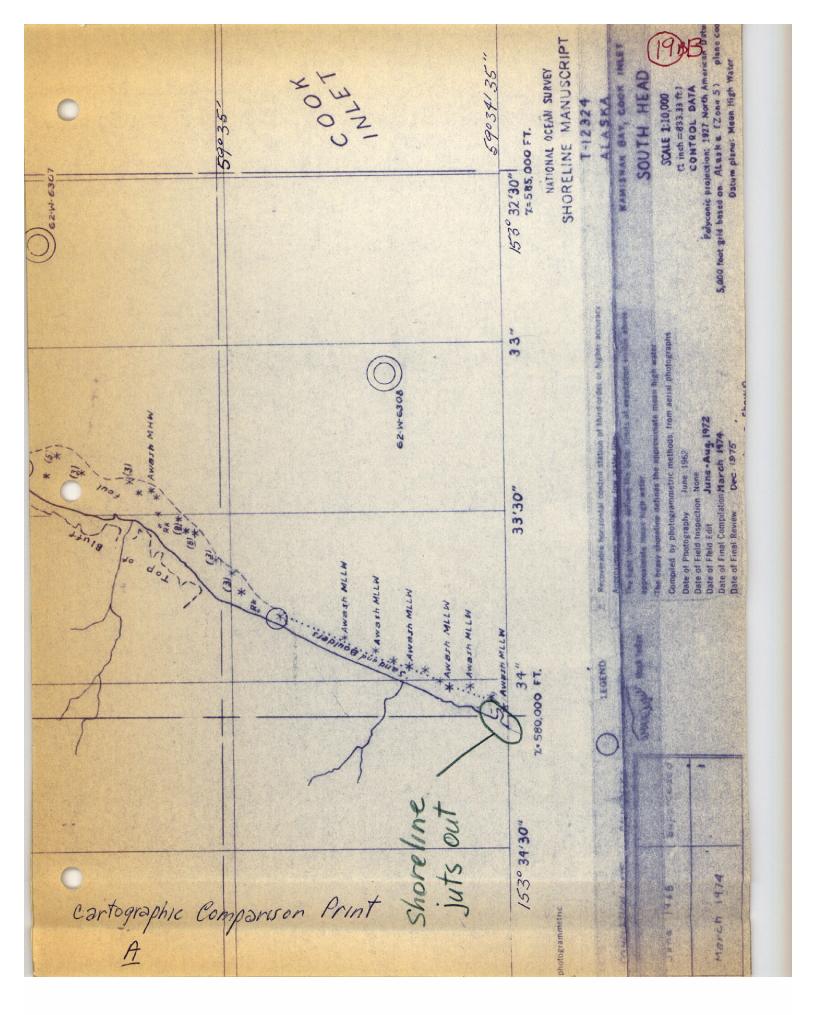
From C3421

H-9327 1:20,000 June - August 1972

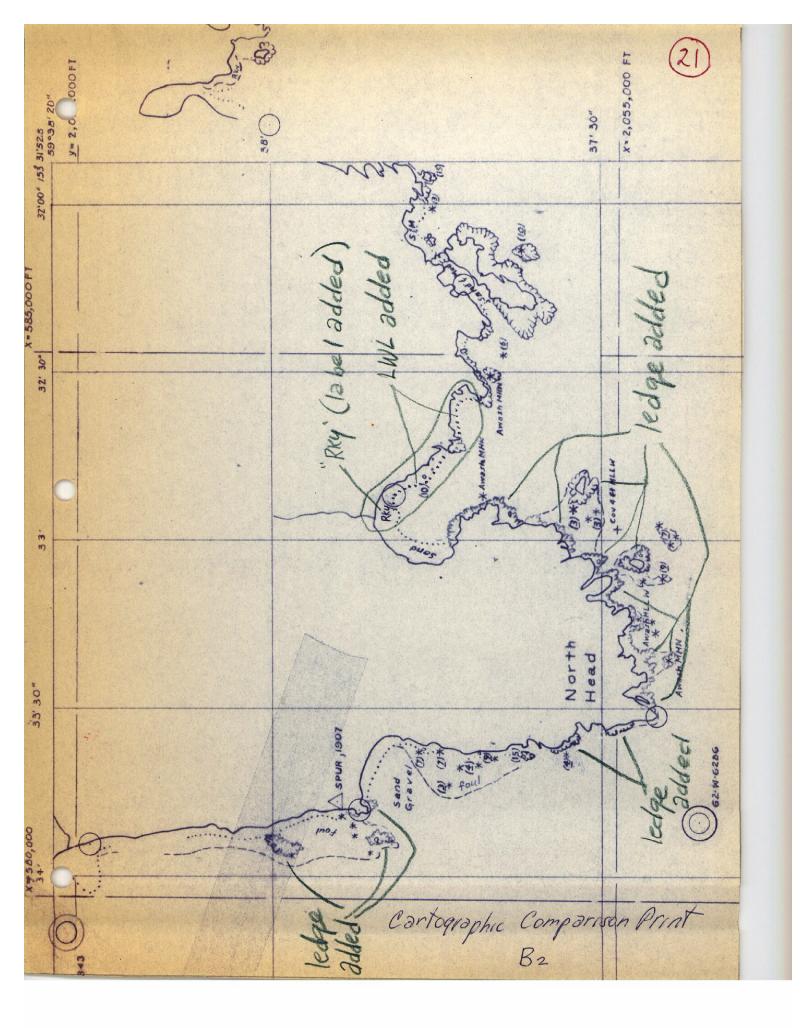
H-9328 1:10,000 October 1972

H-9329 1:10,000 August 1972 and July 1973

Comparison has been made between the photogrammetric manuscript and the three final reviewed hydrographic survey sheets. Please refer to the Review Report and the Cartographic Comparison Prints submitted with the Descriptive Report for a few changes and additions to this manuscript.



| | | 20 |
|---|--|---------------------|
| Boulders | Turtle Reef | |
| *************************************** | Foul Rock & Sand Bor Awash MLLW Awash MLLW The Awash MLLW T | |
| South Head | And Amash Reefs | |
| C | 1 Prince (2) (4) | 59° 361 |
| | AW MILLW | 62-W-6306 |
| | These rocks were incorrectly lake on the class I | |
| | *(B) | |
| O | Carto graphic | Comparison Print B |



| 14(5) 10(5) | White Gull Island |
|----------------|-------------------------------------|
| Sand O and | Foul (a) |
| | |
| 198 | |
| 15.30 | Cartographic Comparison Print B3 C |

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

& GS- 164) NOAA FORM 76-41 (2-71) USCOMM-DC 34168-P71 (FORMERLY FO

DESCRIPTIVE REPORT CONTROL RECORD

SCALE OF MAP 1:10,000

| STATION SPUR, 1907 | | | | | |
|--------------------------------|-------------------------------|-------|--|--|--|
| SPUR, 1907 | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK) | - DATUM DROJECTION LINE 1048006 meter) |
| SPUR, 1907 | G.P. Vol 5 | N.A. | 59 ⁰ 37'54.097'' | 1674.1 | (182.7) |
| | PG 397 | 137/ | 153 ⁰ 33'46.550'' | 729.6 | (210.8) |
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| | | | | | 2 |
| computed BY A.C. Rauck, Jr. | DATE March 13, 1968 | 89 | CHECKED BY A.L. Shands | 6/18/68 | 3) |

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12324

Cook Inlet

Iliamna Bay

North Head

South Head

Turtle Reef

White Gull Island

Approved by:

A. Jöseph Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician