

T- 012401

T- 012401

| | |
|---|------------------|
| NOAA FORM 76-35 (6-80) | |
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| DESCRIPTIVE REPORT | |
| Map No. T-12401 | Edition No. 1 |
| Job No. PH-6705 | |
| Map Classification FINAL, FIELD EDITED MAP | |
| Type of Survey SHORELINE | |
| LOCALITY | |
| State ALASKA | |
| General Locality THORNE ISLAND AND WHALE PASSAGE | |
| Locality ROCKY BAY | |
| 1966 TO 1967 | |
| REGISTERED IN ARCHIVES | |
| DATE | |

| | | | |
|--|--|--|--|
| NOAA FORM 76-36A (3-72) | | U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | |
| DESCRIPTIVE REPORT - DATA RECORD | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Atlantic Marine Center, Norfolk, Virginia | | SURVEY TR. <u>12401</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH-6705</u> | |
| OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR | | LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | |
| JOB <u>PH-6705</u> MAP CLASS <u>Final</u> SURVEY DATES: 19__ TO 19__ | | JOB <u>PH-6705</u> MAP CLASS <u>Final</u> SURVEY DATES: 19__ TO 19__ | |

| I. INSTRUCTIONS DATED | | | |
|------------------------|-------------------|--------------------|-------------------|
| 1. OFFICE | | 2. FIELD | |
| Aerotriangulation | October 31, 1966 | Horizontal Control | September 8, 1966 |
| Planning (Memo) | February 8, 1967 | Supplement I | March 2, 1967 |
| Compilation | February 27, 1967 | | |
| Compilation (Supp. I) | November 29, 1967 | | |
| Compilation (Supp. II) | January 20, 1972 | | |

| II. DATUMS | | | |
|---|--|-----------------------------------|--|
| 1. HORIZONTAL: | | OTHER (Specify) | |
| <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | | |
| 2. VERTICAL: | | OTHER (Specify) | |
| <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | | |
| 3. MAP PROJECTION | | 4. GRID(S) | |
| Polyconic | | STATE <u>Alaska</u> ZONE <u>1</u> | |
| 5. SCALE | | STATE <u>Alaska</u> ZONE <u>1</u> | |
| 1:10,000 | | | |

| III. HISTORY OF OFFICE OPERATIONS *See Compilation Report & Summary | | | |
|---|------|------|------------|
| OPERATIONS | NAME | DATE | |
| 1. AEROTRIANGULATION BY *V. R. Sobieralski | | | Oct 1966 |
| METHOD: Analytic LANDMARKS AND AIDS BY | | | |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY *J. Steinberg | | | Jan 1968 |
| METHOD: Coordinatograph CHECKED BY R. Minton | | | Jan 1968 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY *A. Shands | | | Mar 1968 |
| COMPILATION CHECKED BY | | | |
| INSTRUMENT: Wild B-8 | | | |
| SCALE: 1:10,000 | | | |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY *A. Shands | | | Mar 1968 |
| *Preliminary areotriangulation and CHECKED BY C. Bishop | | | Apr 1968 |
| compilation performed 2/67 & 4/67 | | | |
| METHOD: Smooth Draft | | | |
| SCALE: 1:10,000 | | | |
| HYDRO SUPPORT DATA BY *A. Shands | | | Mar 1968 |
| CHECKED BY C. Bishop | | | Apr 1968 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | | |
| 6. APPLICATION OF FIELD EDIT DATA BY *A. Shands | | | Jan 1968 |
| CHECKED BY C. Bishop | | | Apr 1968 |
| 7. COMPILATION SECTION REVIEW BY C. Bishop | | | Apr 1968 |
| 8. FINAL REVIEW Final BY J. Hancock | | | May 1986 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY J. Hancock | | | June 1986 |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY P. Dempsey | | | Sept. 1986 |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY P. Dempsey | | | Sep 1986 |

| | | | | | |
|---|-----------------|--|---------------|-----------------------|--|
| NOAA FORM 76-36B (3-72) | | U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | | | |
| T-12401 COMPILATION SOURCES | | | | | |
| 1. COMPILATION PHOTOGRAPHY | | | | | |
| CAMERA(S) Wild RC-8"L", L=152.21 mm Wild RC-9"M", M=88.20 mm | | TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED | | TIME REFERENCE | |
| TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | ZONE Pacific | <input checked="" type="checkbox"/> STANDARD |
| | | | | MERIDIAN 120th | <input type="checkbox"/> DAYLIGHT |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 66L(P) 5832-5834 | Jul.12,1966 | 13:49 | 1:30,000 | 4.6 ft. above MLLW | |
| 66L(C) 5897-5900 | Jul.12,1966 | 14:57 | 1:20,000 | 4.8 ft. above MLLW | |
| 66L(C) 5871-5873 | Jul.12,1966 | 14:43 | 1:20,000 | 4.6 ft. above MLLW | |
| 66M(C) 233-235* | Jul.12,1966 | | 1:60,000 | | |
| 67M(P) 636-637* | May 31,1967 | | 1:60,000 | | |
| | | | | Mean Range = 13.6 ft. | |
| REMARKS *Bridging photographs | | | | | |
| 2. SOURCE OF MEAN HIGH-WATER LINE: | | | | | |
| The MHW Line was compiled from the above listed photographs using stereo instrument methods. | | | | | |
| 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE: | | | | | |
| None compiled. | | | | | |
| 4. CONTEMPORARY HYDROGRAPHIC SURVEYS <i>(List only those surveys that are sources for photogrammetric survey information.)</i> | | | | | |
| SURVEY NUMBER H-8945 | DATE(S) 1967 | SURVEY COPY USED Registered | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
| 5. FINAL JUNCTIONS | | | | | |
| NORTH T-12311 T-12312 | EAST T-12402 | SOUTH No Survey | | WEST No Survey | |
| REMARKS | | | | | |

T-12401

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD ~~INSPECTION~~ OPERATION (photoidentification) ☐ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|---|-----------|
| 1. CHIEF OF FIELD PARTY | J. B. Watkins | Sept 1966 |
| 2. HORIZONTAL CONTROL | RECOVERED BY | None |
| | ESTABLISHED BY | None |
| | PRE-MARKED OR IDENTIFIED BY | None |
| 3. VERTICAL CONTROL | RECOVERED BY | N.A. |
| | ESTABLISHED BY | N.A. |
| | PRE-MARKED OR IDENTIFIED BY | N.A. |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY | None |
| | LOCATED (Field Methods) BY | None |
| | IDENTIFIED BY | None |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | None |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | None |

II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED | | 2. VERTICAL CONTROL IDENTIFIED | |
|----------------------------------|--------------|--------------------------------|---------------------|
| None | | N.A. | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| | | | |

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12401

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION and Premarking for new
bridging photography

| OPERATION | NAME | DATE | |
|--|---|--------------|---------------------|
| 1. CHIEF OF FIELD PARTY | W.L.M. | Apr/May 1967 | |
| 2. HORIZONTAL CONTROL | RECOVERED BY None | | |
| | ESTABLISHED BY None | | |
| | PRE-MARKED OR IDENTIFIED BY None | | |
| 3. VERTICAL CONTROL | RECOVERED BY N.A. | | |
| | ESTABLISHED BY N.A. | | |
| | PRE-MARKED OR IDENTIFIED BY N.A. | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None | | |
| | LOCATED (Field Methods) BY None | | |
| | IDENTIFIED BY None | | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY Field editor/hydrographer | May 1967 | |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY None | | |
| II. SOURCE DATA | | | |
| 1. HORIZONTAL CONTROL IDENTIFIED | 2. VERTICAL CONTROL IDENTIFIED | | |
| None | N.A. | | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| | | | |
| 3. PHOTO NUMBERS (Clarification of details) | | | |
| 66L(P)5832, 5833, 5843 (Field annotated 1:10,000 matte ratios) | | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED | | | |
| None | | | |
| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |

NOAA FORM 76-36D
(3-72)

T-12401

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|--|----------|------------------------|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Preliminary compilation complete, pending field edit. | Apr 1967 | Preliminary Manuscript | Apr 1967 | Apr 1967 |
| Manuscript re-compiled from new bridge, field edit applied | Apr 1968 | Class I | May 1968 | May 1968 |
| compilation complete | | | | |
| Final Review | May 1986 | Final Map | | |

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|---------------------------------|-------------------|---------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

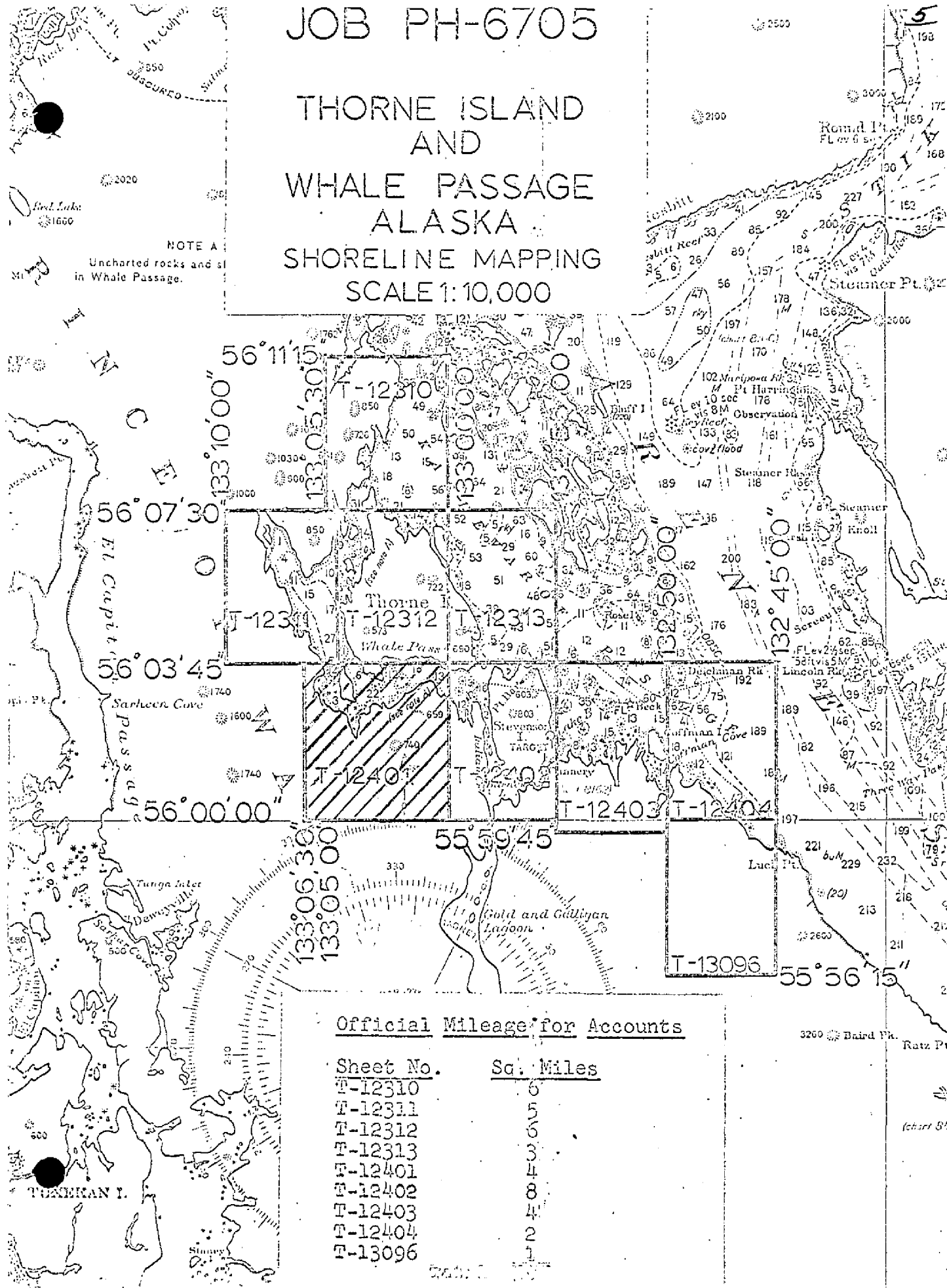
| | | | |
|----------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |

JOB PH-6705

THORNE ISLAND AND WHALE PASSAGE ALASKA SHORELINE MAPPING SCALE 1:10,000

NOTE A

Uncharted rocks and shoals in Whale Passage.



Official Mileage for Accounts

| Sheet No. | Sq. Miles |
|-----------|-----------|
| T-12310 | 6 |
| T-12311 | 5 |
| T-12312 | 6 |
| T-12313 | 3 |
| T-12401 | 4 |
| T-12402 | 8 |
| T-12403 | 4 |
| T-12404 | 2 |
| T-13096 | 1 |

TOTAL: 53

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12401

This 1:10,000 scale final shoreline map is one of nine maps that comprise project PH-6705, Thorne Island and Whale Passage, Alaska. The project was originally assigned as 6 maps (T-12310 thru T-12313, T-12401 and T-12402); however, 3 additional maps (T-12403, T-12404, and T-13096) were included at a later date in order to support an extended area of proposed hydrography. This map is the result of recompilation based upon preliminary compilation, field edit of the preliminary manuscript and revised bridging data.

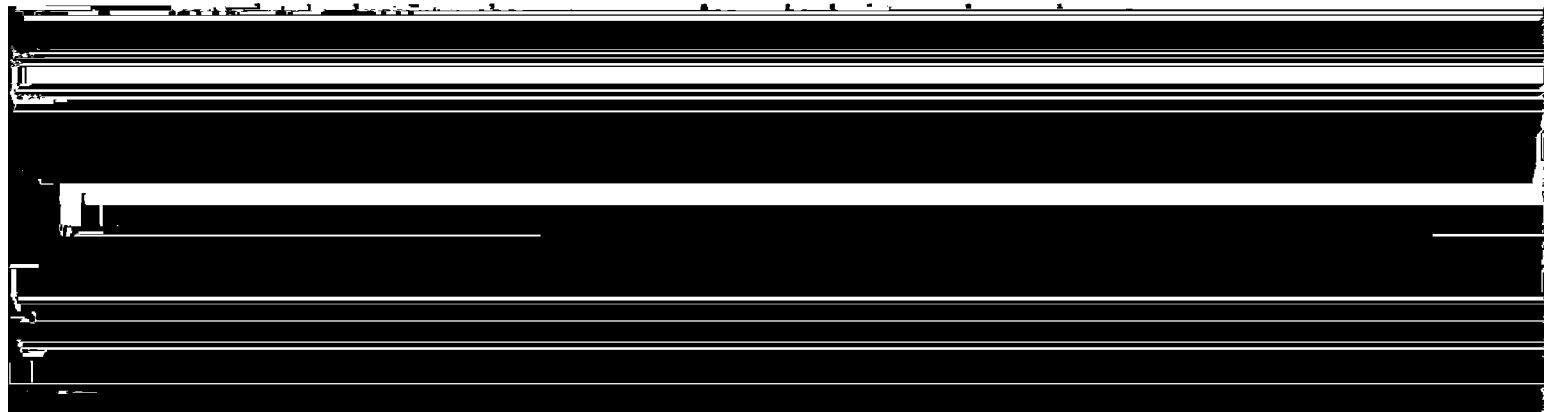
The purpose of this map was to provide support data to assist hydrographic operations in the vicinity of Whale Passage.

This map portrays a portion of shoreline in Whale Passage along the southern coast of Thorne Island and in the vicinity of Mabel Island.

Photo coverage for the project was provided in July 1966 with 1:60,000 scale, 1:30,000 scale, and 1:20,000 scale photographs. The 1:60,000 scale color photographs were taken with the RC-9 "M" camera for aerotriangulation. Panchromatic photographs at 1:30,000 scale were taken with the RC-8 "L" camera for aerotriangulation and instrument compilation. Supplemental color photographs at 1:20,000 scale were also taken with the "L" camera in order to assist compilation and to provide photo coverage for hydro support. Because of inadequate aerotriangulation results, additional panchromatic bridging photographs at 1:60,000 scale were flown in May 1967 with the "M" camera. The stage of tide for all photographs was based upon predicted tide data. No MLLW photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. This activity was performed in September 1966. Additional field work was performed in April 1967 in order to establish horizontal control by premarking methods for new bridging photography. At this same time, field edit for preliminary compilation of T-12310 thru T-12313, T-12401, and T-12402 was also accomplished.

Analytic aerotriangulation was provided by the Washington Science Center in February 1967; however, adequate bridging results could not be



T-12401

Compilation of preliminary manuscripts T-12310 thru T-12313, T-12401 and T-12402 was performed in 1967 at the Coastal Mapping Section, Atlantic Marine Center. With the anticipation of obtaining new photography, preliminary manuscript copies were submitted to the hydrographer for field edit and hydrographic support. When new aerotriangulation results were provided as a result of the new bridging photography, recompilation of the preliminary manuscripts was accomplished. This compilation utilized the field edit data that was performed by the hydrographer during the 1967 field season. Compilation of three additional manuscripts, T-12403, T-12404, and T-13096 was completed in January 1972.

Field edit and hydrographic support data for the contemporary hydro surveys were submitted in two stages. A tabulated summary of the six preliminary and three later Class III manuscripts is provided.

| <u>DATA SUBMITTED FOR FIELD EDIT</u> | <u>DATE OF EDIT</u> | <u>EDITOR</u> | <u>CONTEMPORARY HYDRO SURVEY</u> |
|--|--|---|--------------------------------------|
| T-12310 (Preliminary) | May 1967 (Partial Edit) | C&GS Ship LESTER JONES | H-8946 |
| T-12311 (Preliminary) | May 1967 | C&GS Ship LESTER JONES | H-8945 & H-8946 |
| T-12312 (Preliminary) | May 1967 | C&GS Ship LESTER JONES | H-8945 & H-8946 |
| T-12313 (Preliminary) | May 1967 (Partial Edit) | C&GS Ship LESTER JONES NOAA Ship RAINIER | H-8945 & H-8946 H-9754 |
| T-12401 (Preliminary) | May 1967 | C&GS Ship LESTER JONES | H-8945 |
| T-12402 (Preliminary) | May 1967 (Partial Edit) May 1978 (Completion of Edit) | C&GS Ship LESTER JONES NOAA Ship RAINIER | H-8945 H-9754 |
| T-12403 (Class III) | May 1978 | NOAA Ship RAINIER | H-9754 & H-9756 |
| T-12404 (Class III) | May 1978 | NOAA Ship RAINIER | H-9756 |
| T-13096 (Class III) | May 1978 | NOAA Ship RAINIER | No Survey |

T-12401

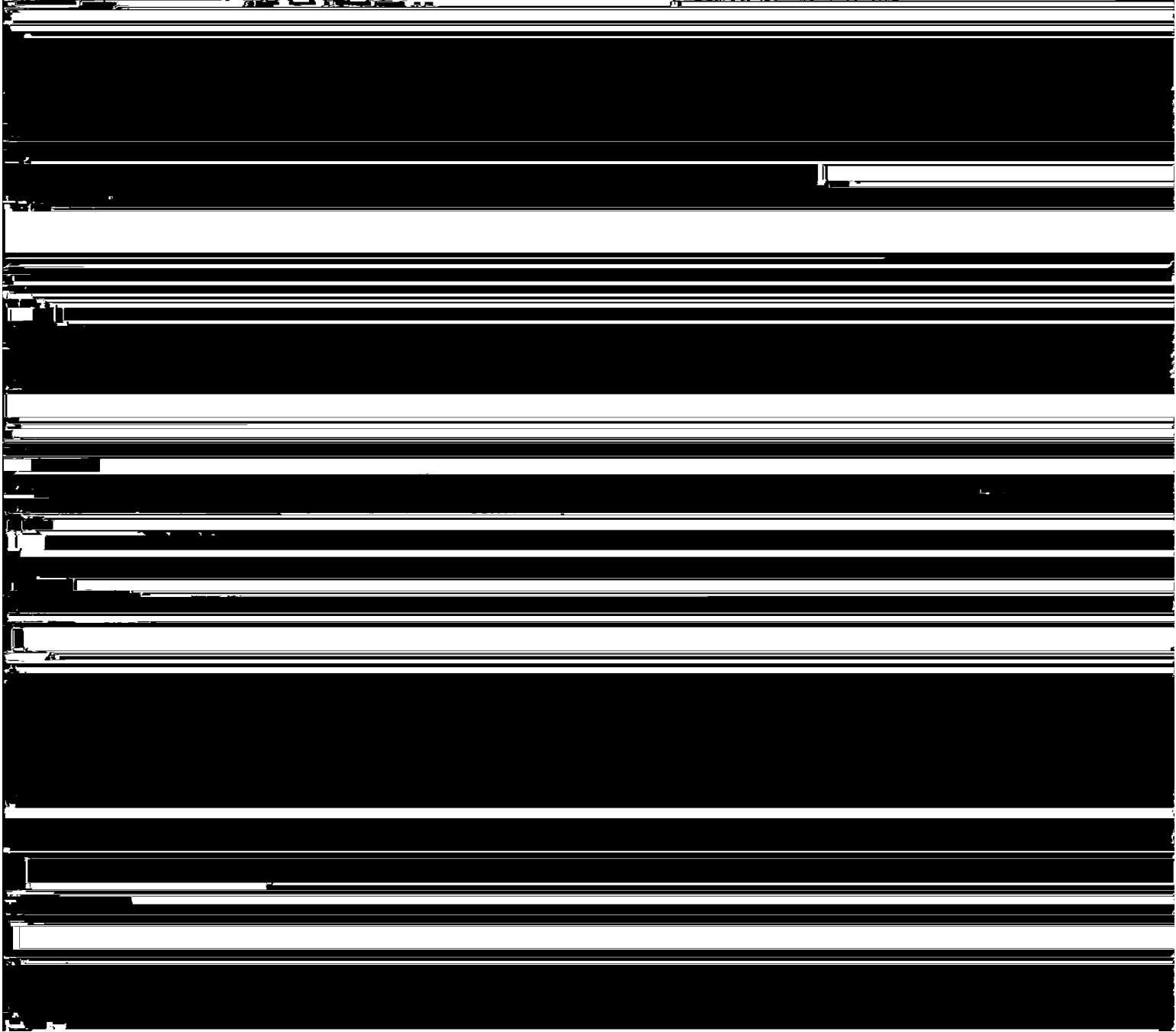
Field edit for this map was applied at the time of recompilation. Though the field edit was performed for the preliminary manuscript, it was sufficient and justifiable for advancing the new manuscript to Class I.

Final review for this final map was performed at the Atlantic Marine Center in May 1986. A comparison was made with the common nautical charts and hydrographic survey(s). The original base manuscript and related data along with a final Chart Maintenance Print and a Notes to Hydrographer Print were forwarded to the Washington Science Center for registration and distribution.

FIELD INSPECTION REPORT
T-12401
Whale Passage to Thorne Island
Project PH-6705

There was no field inspection prior to compilation of the PRELIMINARY manuscripts. These were compiled from office inspection, using bridge points established by the preliminary photogrammetric plot as control. Copies of the PRELIMINARY manuscripts, hydro support data, and field edit ozalids were furnished to the hydrographer for the 1967 field season. Additional horizontal control was established and field edit was performed.

Control data was returned to the office in the fall of 1967 and a new photogrammetric plot was run. The manuscripts were



PHOTOGRAMMETRIC PLOT REPORT
JOB PH-6705
THORNE ISLAND AND
WHALE PASSAGE, ALASKA

February 15, 1967

21. Area Covered

The area covered in this report is in the vicinity of Thorne Island. The sheets covered are T-12310, T-12311, T-12312, T-12313, T-12401, T-12402 and T-12403. Only part of T-12404 and none of T-13096 are covered by present photography. Because of inadequate bridging photography and poor placement of control, it is recommended by this office that the manuscripts be classified as "Preliminary".

22. Method

Five strips of photography were bridged by analytic aerotriangulation. Strip 1 (scale of 1:60,000, RC-9 color) was adjusted to ground with field identified control points. Strips 2, 3, 4 and 5 (scale of 1:30,000, RC-8 panchromatic) were adjusted to ground with common points transferred from Strip 1.

23. Adequacy of Control

The distribution of the field identified control was not optimum for a proper analysis of the adjustment of Strip 1. The control is located near both ends of the strip with nothing in the middle.

Two of the identified subpoints could not be held in the bridge. They are ROSE 1916, subpoint A and POLE 1916, subpoint A. The two points would not hold because they could not be positively identified in the office.

24. Supplemental Data

None

25. Photography

The RC-9 color photography was inadequate. The fiducial marks were not visible and the image definition was poor.

Respectfully submitted:

Don O. Norman
Don O. Norman

Approved and Forwarded:

Henry P. Eichert
Henry P. Eichert

FIM
HPS

THORNE ISLAND AND
WHALE PASSAGE, ALASKA
CLOSURES TO CONTROL (FT.)

STRIP 1

1. LAKE BAY MAGNETIC STATION 1916

| | | |
|------------|-------|-------|
| subpoint A | + 1.2 | - 1.8 |
| subpoint B | - 1.0 | - 0.4 |

2. BARNACLE ROCK 1916

| | | |
|------------|-------|-------|
| subpoint A | + 1.8 | - 2.6 |
| subpoint B | +11.1 | -11.7 |
| subpoint C | + 7.4 | + 8.0 |

3. ROSE 1916

| | | |
|------------|-------|-------|
| subpoint A | +15.4 | -34.6 |
| subpoint B | + 1.6 | - 1.1 |
| subpoint C | - 2.7 | + 0.6 |

4. POLE 1916

| | | |
|------------|-------|-------|
| subpoint B | + 4.0 | +19.4 |
|------------|-------|-------|

5. RAG 1916

| | | |
|------------|-------|-------|
| subpoint A | + 4.6 | - 1.6 |
| subpoint B | + 5.1 | + 0.5 |

6. MOSS 1916

| | | |
|------------|-------|-------|
| subpoint A | - 3.7 | + 0.4 |
| subpoint B | - 7.2 | + 9.2 |

STRIP 2

| | | |
|-------|-------|-------|
| 05801 | - 1.3 | + 0.6 |
| 05802 | - 8.0 | +14.3 |
| 04801 | - 4.7 | - 9.5 |
| 02802 | - 1.5 | + 3.7 |
| 02803 | + 4.4 | -32.1 |
| 02801 | + 2.9 | + 1.9 |
| 01801 | - 1.4 | - 2.0 |
| 01802 | +12.8 | +12.3 |

STRIP 3

LAKE BAY MAGNETIC STATION, 1916

| | | | |
|-------|------------|-------|-------|
| | subpoint A | - 0.2 | - 2.6 |
| | subpoint B | - 0.2 | + 2.4 |
| 01801 | - 6.3 | - 0.9 | |
| 01802 | +11.5 | + 9.7 | |
| 02804 | + 1.5 | + 2.4 | |
| 02801 | + 0.7 | + 1.9 | |
| 02802 | + 2.3 | + 4.4 | |
| 02803 | + 5.8 | -31.0 | |
| 04801 | - 1.4 | + 0.1 | |
| 05802 | + 3.8 | +26.3 | |

RAG, 1916

| | | | |
|-------|------------|-------|-------|
| | subpoint B | + 1.9 | - 1.3 |
| 05803 | + 3.0 | - 5.5 | |
| 05804 | + 7.8 | + 1.2 | |

STRIP 4

| | | |
|-------|-------|-------|
| 03801 | - 0.8 | - 0.5 |
| 03802 | + 9.1 | + 2.5 |
| 04802 | + 2.8 | + 2.8 |

POLE, 1916

| | | | |
|-------|------------|-------|-------|
| | subpoint A | + 2.1 | - 0.9 |
| | subpoint B | - 3.5 | -20.0 |
| 04804 | + 1.8 | - 5.4 | |
| 04803 | - 4.7 | + 2.5 | |

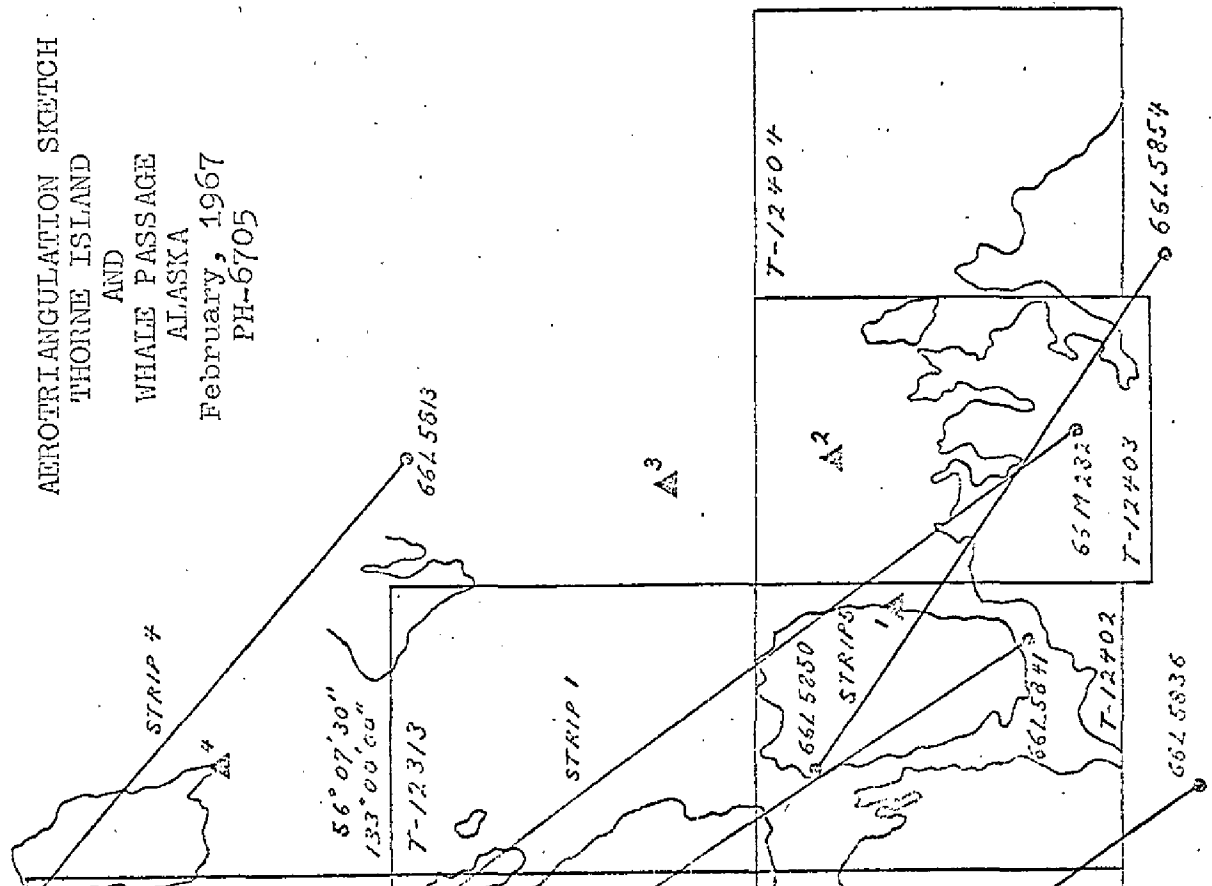
MOSS, 1916

| | | | |
|-------|------------|-------|-------|
| | subpoint A | + 0.2 | - 0.1 |
| | subpoint B | - 2.8 | + 8.7 |
| 06801 | - 0.2 | 0.0 | |
| 06802 | + 9.4 | -24.1 | |

STRIP 5

| | | |
|-------|-------|-------|
| 02808 | 0.0 | 0.0 |
| 01801 | + 0.6 | - 1.0 |
| 01806 | 0.0 | 0.0 |
| 01807 | + 0.6 | - 0.4 |
| 01803 | - 3.0 | + 4.8 |
| 01804 | + 2.4 | - 1.7 |
| 01804 | 0.0 | 0.0 |

PH-6705



PHOTOGRAMMETRIC PLOT REPORT
Job PH-6705
Thorne Island and Whale Passage, Alaska

September 25, 1967

This report supersedes the preliminary report dated February 15, 1967. The original bridge strip of "M" photography flown in 1966 proved to be inadequate for the major portion of the area. It was, therefore, necessary to obtain a new bridge strip of "M" photography which was flown in May, 1967.

21. Area Covered

The area covered is in the vicinity of Thorne Island, Alaska. The sheets covered are T-12310 thru T-12313, T-12401 thru T-12404 and T-13096.

22. Method

Five strips of photography were included in this job.

Strip 1 (scale of 1:60,000, RC-9 panchromatic) was bridged by analytic aerotriangulation and adjusted to ground with field identified control points. The bridges from the preliminary report of February 15, 1967, were retained for Strips 2, 3 and 4 (scale of 1:30,000, RC-8 panchromatic). Strips 2 and 3 were readjusted using new values for common points established by the adjustment of Strip 1. Strip 4 could not be readjusted since it had no points in common with Strip 1. The preliminary adjustment of February 15, 1967, is considered adequate for Strip 4 and should be retained. Strip 5 (scale of 1:30,000, RC-8 panchromatic) was increased by three photographs -- 66-L-5855 thru 5857. It was bridged by analytic aerotriangulation and adjusted using values for common points established by the adjustment of Strip 1.

23. Adequacy of Control

Horizontal control was adequate and complied with the project



25. Photography

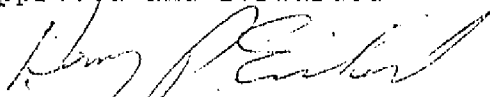
The coverage of the photography was adequate. The diapositives were of good quality.

Respectfully submitted:



Victor E. McNeel

Approved and forwarded:

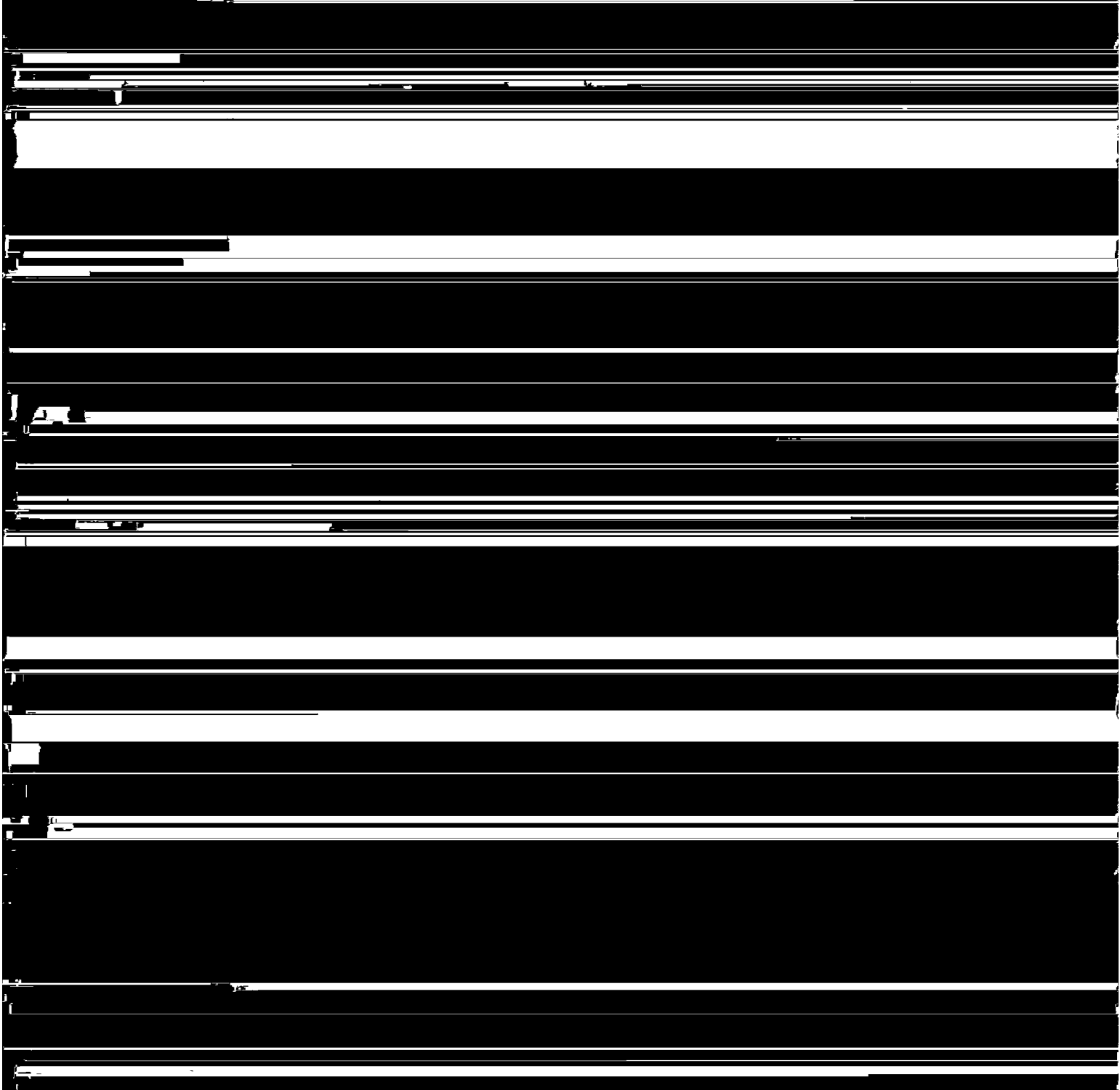


Henry P. Eichert
Chief, Aerotriangulation Section

CLOSURES TO CONTROL (FEET)
Job PH-6705
Thorne Island and Whale Passage, Alaska

STRIP #1

| | ΔX | ΔY |
|-------------------------------------|------------|------------|
| LUCK POINT SOUTH BASE, 1915 (32100) | -0.3 | 0.0 |
| LUCK POINT NORTH BASE, 1924 (34100) | +0.5 | +0.8 |
| LAKE BAY MAGNETIC STATION (35100) | +0.8 | +1.8 |
| BEST. 1916. Substation (36100) | +1.5 | +1.4 |



AEROTRIANGULATION SKETCH

THORNE ISLAND

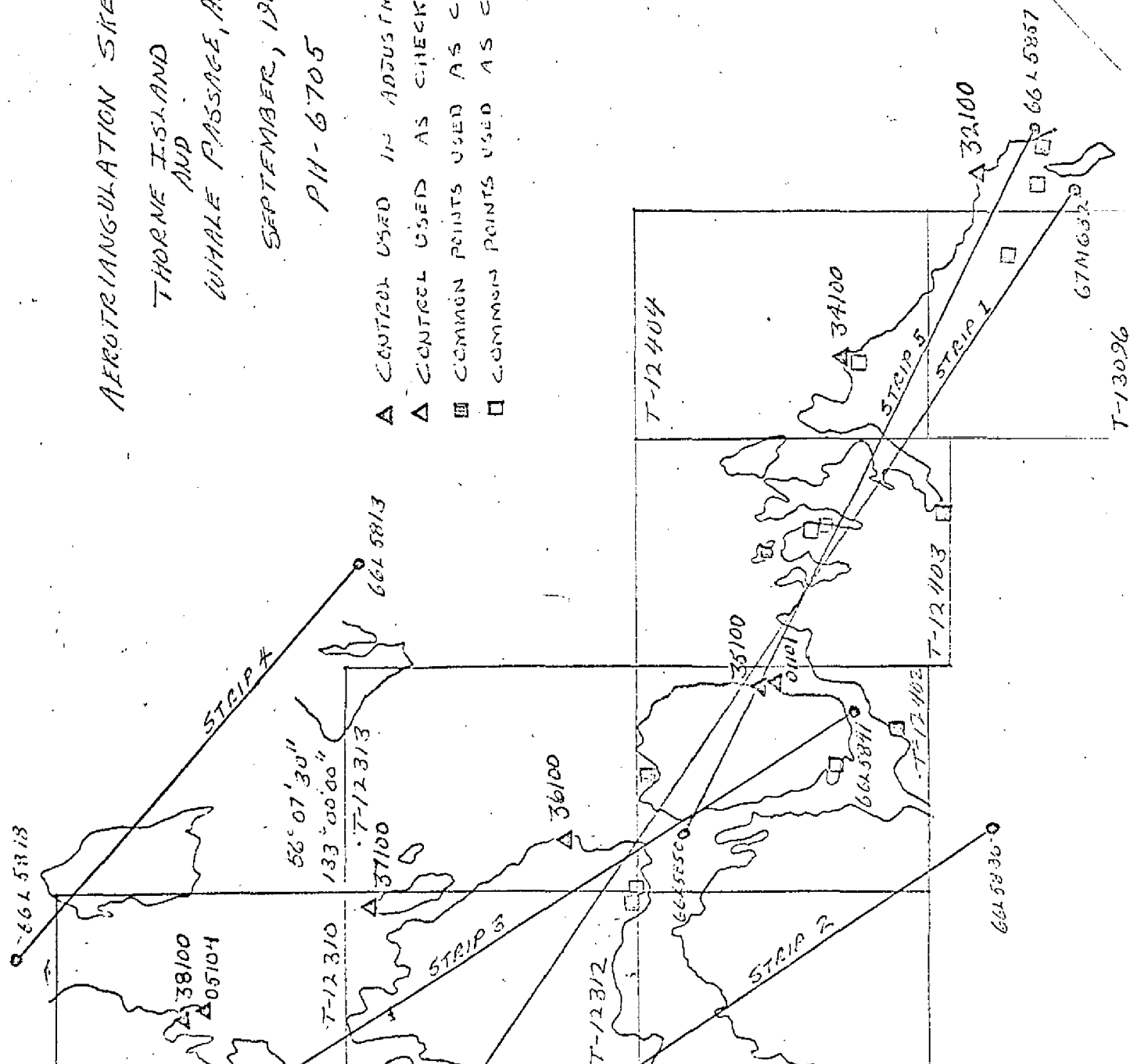
AND

WHALE PASSAGE, ALASKA

SEPTEMBER, 1961

PH-6705

- ▲ CONTROL USED IN ADJUSTMENT
 ▲ CONTROL USED AS CHECK
 ■ COMMON POINTS USED AS CONTROL
 □ COMMON POINTS USED AS CHECK



DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | SOURCE OF INFORMATION (Index) | AEROTRI- ANGULATION POINT NUMBER | GEODETIC DATUM | | ORIGINATING ACTIVITY | | REMARKS |
|------------------|---------|----------------------------------|---|--------------------------|-----------|----------------------------|---------------------|---------|
| | | | | PH-6705 | N.A. 1927 | Division, AMC, Norfolk, VA | Coastal Mapping | |
| STATION NAME | | | | COORDINATES IN FEET | | GEOGRAPHIC POSITION | | |
| | | | | STATE | ZONE | ϕ LATITUDE | λ LONGITUDE | |
| NONE | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| | | | | X= | | ϕ | | |
| | | | | Y= | | λ | | |
| COMPUTED BY | | | | COMPUTATION CHECKED BY | | | DATE | |
| LISTED BY | | | | LISTING CHECKED BY | | | DATE | |
| HAND PLOTTING BY | | | | HAND PLOTTING CHECKED BY | | | DATE | |

COMPILATION REPORT

T-12401

PH-6705

31. DELINEATION

A preliminary manuscript was compiled with the Kelsh Plotter in 1967. Cronaflex copies of this manuscript and photo-hydro support data were furnished to the hydrographer for the 1967 field season. Additional control was established, all data was returned to the office, and a new photogrammetric plot was run using the same photography and drill points that were used for the preliminary manuscript.

New projections were furnished and the plates were re-set using the Wild B-8 instrument. The pass points used for the preliminary manuscript and hydrographic signal positions were dropped on the new projection. A new manuscript was compiled by transferring the shoreline from the preliminary manuscript, using pass points for control.

Field edit was performed in 1967 and applied to the new manuscript, which is classified ADVANCE.

All photographs used to compile this map are listed on NOAA Form 76-36B. The compilation photography was adequate.

32. CONTROL

See Photogrammetric Plot Reports dated February 15, 1967 and September 25, 1967.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details were compiled from office interpretation of the photographs and from the field edit data that was obtained for the preliminary manuscript.

36. OFFSHORE DETAILS

Offshore rocks and reefs were mapped from office interpretation of the photographs and field edit data. Discrepancies are noted in "NOTES FOR THE SMOOTH PLOTTER".

T-12401

37. LANDMARKS AND AIDS

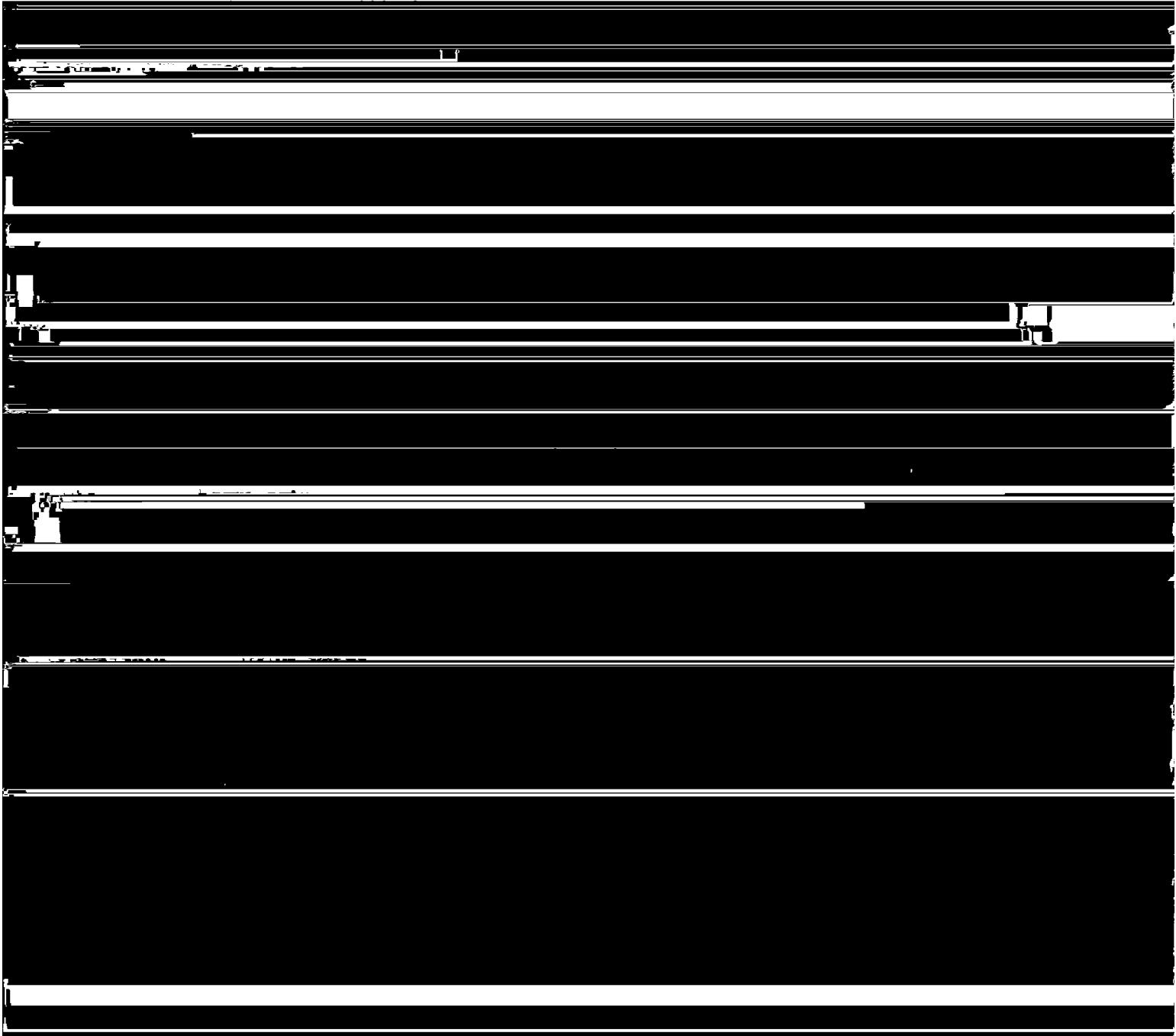
There are no landmarks or fixed aids to navigation within the area of this map.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions were made with T-12311 and T-12312 to the



ADDENDUM TO COMPILATION REPORT
NOTES FOR THE SMOOTH PLOTTER, PACIFIC MARINE CENTER
T-12401
Project Ph-6705

Rock positions were transferred from the position overlay to the cronaflex copy of the Preliminary Manuscript by holding projection ticks; then these positions were transferred from the cronaflex copy to the Advance Manuscript by holding pass points as control.

The following items explain differences in rock positions on the position overlay and the Advance Manuscript. Space is left after each item for comments. We would appreciate the return of your comments, as we wish to correct the original manuscript.

1. Pos. 5070 (RK(8)) plots in what appears on the photographs to be open water. Position on the overlay was disregarded and rock was positioned in the location apparent on the photographs. Approx. Lat. $56^{\circ} 01.6'$, Long. $133^{\circ} 03.7'$.

2. Same note for Positions 5058 thru 5065. Lat. $56^{\circ} 03.4'$, Long. $133^{\circ} 03.5'$.

3. Position 5055 (awash MLLW) is on a rock that apparently was bare at the time of photography, which was 5 feet above MLLW. Lat. $56^{\circ} 03.3'$, Long. $133^{\circ} 03.1'$.

4. Position 5162 plots in a logged-off area, elevation 50-75 ft. (from USGS Quad) and about 40 meters inshore. Another Position 5162 is probably in area of Item 5 discussed below. Lat. $56^{\circ} 03.7'$, Long. $133^{\circ} 03.0'$.

5. Positions 5156 thru 5161 and 5163 thru 5166 on the position overlay are difficult to interpret. Rocks in this area were compiled photogrammetrically as indicated on Field Photo 66-L-5832. Rock at Position 5157 not compiled. Position 5164 not indicated on field photo; not compiled.

6. Positions 5140, 5141 and 5142 Lat. $56^{\circ} 03.2'$, Long. $133^{\circ} 01.7'$, something wrong here; positions are numbered 5140, 5141, and 5142 in this location on field photo and 5040, 5041 and 5042 on overlay. There is a discrepancy between rock data on the boat sheet and the field photo. No bare rocks visible on field photo.

7. Rocks were compiled inshore from Positions 5096, 5097, 5098, 5092 and 5093 on rocks visible on the photographs. Lat. $56^{\circ} 03.3'$, Long. $133^{\circ} 00.4'$.

8. In area of Positions 5104 thru 5112: Positions on overlay and rocks visible on Photo. 66-L-5843 are erratic in agreement; some are on rocks indicated by the field man, some are on or near other rocks. The compiler assumed the field man indicated the wrong rock on the field photo.

9. Hydrographic signals are numbered on the Advance Manuscript the same as they are on the position overlay.

¹⁵
APR 30 1986

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6705 (Thorne Island and Whale Passage, Alaska)

T -12401

Mabel Creek

Mabel Island

Prince of Wales Island

Rocky Bay

Thorne Island

Whale Passage

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

16

REVIEW REPORT
SHORELINE

T-12401

61 - GENERAL STATEMENT

Final review for this final map was accomplished at the Atlantic Marine Center in May 1986. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS quadrangle Petersburg (A-4), Alaska, dated 1953, scale 1:63,360.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with contemporary hydrographic survey H-8945, field surveyed at 1:10,000 scale in 1967. No significant discrepancies were noted.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS chart 17382, 12th edition, dated July 25, 1981, 1:80,000 scale.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by

Jerry L. Hancock
Jerry L. Hancock
Final Reviewer

Approved for forwarding

Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

John P. Blum
Chief, Photogrammetric Operations,
Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch,
Rockville

