

T-12349

T-12349

|   |                  |
|---|------------------|
| NOAA FORM 76-35<br>(6-80)   |                  |
| U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |                  |
| DESCRIPTIVE REPORT  |                  |
| Map No.<br>T-12349  | Edition No.<br>1 |
| Job No.<br>PH-6301 PART 2   |                  |
| Map Classification<br>FINAL MAP   |                  |
| Type of Survey<br>SHORELINE   |                  |
| LOCALITY  |                  |
| State<br>ALASKA   |                  |
| General Locality<br>COOK INLET SOUTHERN PART  |                  |
| Locality<br>REDOUBT POINT   |                  |
| 19 <sub>66</sub> TO 19 <sub>78</sub>  |                  |
| REGISTERED IN ARCHIVES  |                  |
| DATE  |                  |

|   |  |   |  |
|---|--|---|--|
| NOAA FORM 76-36A<br>(3-72)  |  | U. S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.   |  |
| <b>DESCRIPTIVE REPORT - DATA RECORD</b>   |  | TYPE OF SURVEY<br><input checked="" type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED   |  |
| PHOTOGRAMMETRIC OFFICE<br><br>Coastal Mapping Division, Norfolk, VA   |  | SURVEY <u>PH 12349</u><br><br>MAP EDITION NO. <u>1</u><br>MAP CLASS <u>Final Map</u><br>JOB <u>PH 6301 Part 2</u>   |  |
| OFFICER-IN-CHARGE<br><br>Jeffrey G. Carlen  |  | LAST PRECEDING MAP EDITION<br>TYPE OF SURVEY<br><input type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED<br>JOB PH-<br>MAP CLASS<br>SURVEY DATES:<br>19__ TO 19__ |  |
| <b>I. INSTRUCTIONS DATED</b>  |  |   |  |
| <b>1. OFFICE</b>  |  | <b>2. FIELD</b>   |  |
| Aerotriangulation Aug. 20, 1973<br>Compilation Dec. 10, 1973<br>Aerotriangulation Jun. 27, 1975<br>Compilation Oct. 9, 1975<br>Compilation Amendment I May 20, 1976<br>Compilation Amendment II Jan. 28, 1977     |  |   |  |
| <b>II. DATUMS</b>   |  |   |  |
| <b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH AMERICAN   |  | OTHER (Specify)   |  |
| <b>2. VERTICAL:</b><br><input checked="" type="checkbox"/> MEAN HIGH-WATER<br><input type="checkbox"/> MEAN LOW-WATER<br><input type="checkbox"/> MEAN LOWER LOW-WATER<br><input type="checkbox"/> MEAN SEA LEVEL |  | OTHER (Specify)   |  |
| <b>3. MAP PROJECTION</b><br><br>Transverse Mercator   |  | <b>4. GRID(S)</b><br>STATE Alaska ZONE 5  |  |
| <b>5. SCALE</b><br>1:20,000   |  | STATE ZONE  |  |
| <b>III. HISTORY OF OFFICE OPERATIONS</b>  |  |   |  |
| <b>OPERATIONS</b>   |  | <b>NAME</b>   | <b>DATE</b>                                  |
| <b>1. AEROTRIANGULATION</b> 2 Bridges Section 1 BY<br>METHOD: Analytic Section 2 BY   |  | R. Kelly<br>S. Solbeck  | Aug 1973<br>Sept 1975                        |
| <b>2. CONTROL AND BRIDGE POINTS</b><br>METHOD: Coradomat  |  | PLOTTED BY Allen<br>CHECKED BY Allen  | Aug 1973<br>Aug 1973                         |
| <b>3. STEREOSCOPIC INSTRUMENT</b><br>COMPILATION<br>INSTRUMENT: Wild B-8<br>SCALE: 1:20,000   |  | PLANIMETRY BY L. O. Neterer, Jr.<br>CHECKED BY ALS/ACR/JDR<br>CONTOURS BY N.A.<br>CHECKED BY N.A.   | Mar 74/Jan 77<br>Mar 74/Jan 77               |
| <b>4. MANUSCRIPT DELINEATION</b><br>METHOD: Smooth drafted<br>SCALE: 1:20,000   |  | PLANIMETRY BY J. Roderick<br>CHECKED BY J. Byrd<br>CONTOURS BY N.A.<br>CHECKED BY N.A.<br>HYDRO SUPPORT DATA BY J. Roderick<br>CHECKED BY J. Byrd   | Jan 1977<br>Feb 1977<br>Jan 1977<br>Feb 1977 |
| <b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b> BY  |  | J. Byrd   | Feb 1977                                     |
| <b>6. APPLICATION OF FIELD EDIT DATA</b> BY   |  | F. Mauldin  | Nov 1978                                     |
| <b>7. COMPILATION SECTION REVIEW</b> BY   |  | F. Margiotta  | Nov 1978                                     |
| <b>8. FINAL REVIEW</b> BY   |  | F. Martiotta  | Nov 1978                                     |
| <b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b> BY   |  | C. Blood/J. Byrd  | Oct 1986                                     |
| <b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b> BY   |  | J. Byrd   | Jan 1987                                     |
| <b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b> BY   |  | P. Dempsey<br>E. L. PAUGHERTY   | Feb. 1987<br>APR '87                         |

NOAA FORM 76-36B  
(3-72)

T-12349

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

|   |             |   |          |                    |  |
|---|-------------|---|----------|--------------------|--|
| CAMERA(S)<br>Wild RC-8 "E" and RC-9 "M"   |             | TYPES OF PHOTOGRAPHY<br>LEGEND                |          | TIME REFERENCE     |  |
| TIDE STAGE REFERENCE  |             | (C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED |          | ZONE<br>Alaska     | <input checked="" type="checkbox"/> STANDARD |
| <input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |             |   |          | MERIDIAN<br>150th  | <input type="checkbox"/> DAYLIGHT            |
| NUMBER AND TYPE   | DATE        | TIME  | SCALE    | STAGE OF TIDE      |  |
| * 70M270-273  | Jul.25,1970 | 10:45   | 1:60,000 | 7.2 ft. above MLLW |  |
| * 67M841-842  | Jul.9,1967  | 07:50   | 1:60,000 | 0.1 ft. below MLLW |  |
| ** 70E(C)7334-7339  | Jul.25,1970 | 13:50   | 1:20,000 | 4.1 ft. above MLLW |  |
| ** 70E(C)7561-7570  | Jul.26,1970 | 13:05   | 1:20,000 | 6.2 ft. above MLLW |  |
| ** 70E(C)7575-7581  | Jul.26,1970 | 11:12   | 1:20,000 | 6.1 ft. above MLLW |  |
| ** 70E(C)7535-7539  | Jul.26,1970 | 13:41   | 1:20,000 | 6.6 ft. above MLLW |  |

## REMARKS

\*Bridging and compilation photography.  
 \*\*Hydro support photography.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

\*The mean high water line was compiled from the above listed bridge and compilation photography.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean lower low water line above Lat. 60°19" was compiled from the 1967 M photography taken at 0.1 ft. below MLLW. Mean lower low water line removed after field edit. (See Addendum to Compilation Report.)

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
|               |         |                  |               |         |                  |

## 5. FINAL JUNCTIONS

| NORTH   | EAST    | SOUTH   | WEST      |
|---------|---------|---------|-----------|
| T-12345 | T-12346 | T-12354 | No Survey |

## REMARKS

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

T-12349

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

| OPERATION                           | NAME   | DATE     |
|-------------------------------------|--|----------|
| 1. CHIEF OF FIELD PARTY             | N. E. Taylor   | Jun 1967 |
| 2. HORIZONTAL CONTROL               | RECOVERED BY L. L. Riggers   | Jun 1967 |
|                                     | ESTABLISHED BY N. E. Taylor  | Jun 1967 |
|                                     | PRE-MARKED OR IDENTIFIED BY L. L. Riggers  | Jun 1967 |
| 3. VERTICAL CONTROL                 | RECOVERED BY None  |          |
|                                     | ESTABLISHED BY None  |          |
|                                     | PRE-MARKED OR IDENTIFIED BY None   |          |
| 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<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><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

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| 67M-840      | MARONI, 1967 |              |                     |
| 67M-842      | NORMAN, 1967 |              |                     |

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 ☒ NONE6. 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)

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

T-12349

## HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION                           | NAME   | DATE         |
|-------------------------------------|--|--------------|
| 1. CHIEF OF FIELD PARTY             | B. Williams  | Jun-Aug 1978 |
| 2. HORIZONTAL CONTROL               | RECOVERED BY None<br>ESTABLISHED BY None<br>PRE-MARKED OR IDENTIFIED BY None   |              |
| 3. VERTICAL CONTROL                 | RECOVERED BY None<br>ESTABLISHED BY None<br>PRE-MARKED OR IDENTIFIED BY None   |              |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None<br>LOCATED (Field Methods) BY None<br>IDENTIFIED BY   |              |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE BY<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input type="checkbox"/> NO INVESTIGATION |              |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY R. Crowell   | Jul 1978     |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY None   |              |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
|              |              |              |                     |

3. PHOTO NUMBERS (Clarification of details)

70 E(C) 7563

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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)

Field Edit Ozalid  
Field Edit Report

| I. MANUSCRIPT COPIES                        |           |                                 |                           |               |
|---|-----------|---------------------------------|---------------------------|---------------|
| COMPILATION STAGES                          |           |                                 | DATE MANUSCRIPT FORWARDED |               |
| DATA COMPILED                               | DATE      | REMARKS                         | MARINE CHARTS             | HYDRO SUPPORT |
| Compilation complete, pending field edit.   | Feb 1977  | Class III Manuscript Superseded | Mar.13,1978               | Feb.18,1977   |
| Field edit applied<br>Compilation complete. | Nov 1978  | Class I Manuscript              | Dec.8,1978                | Dec.8,1978    |
| Final Review                                | Sept 1986 | Final Map                       | 2-11-87                   |               |
|   |           |                                 |                           |               |

### II. LANDMARKS AND AIDS TO NAVIGATION None

| 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH |                                 |                   |         |
|---|---------------------------------|-------------------|---------|
| NUMBER  | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS |
|   |                                 |                   |         |
|   |                                 |                   |         |
|   |                                 |                   |         |
|   |                                 |                   |         |
|   |                                 |                   |         |
|   |                                 |                   |         |
|   |                                 |                   |         |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: None

### III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS <sup>76-40</sup> ~~200~~ 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<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |   |
| THIRD EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |   |
| FOURTH EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |   |

# PROJECT PH-6301 (PART-2) SHORELINE MAPPING

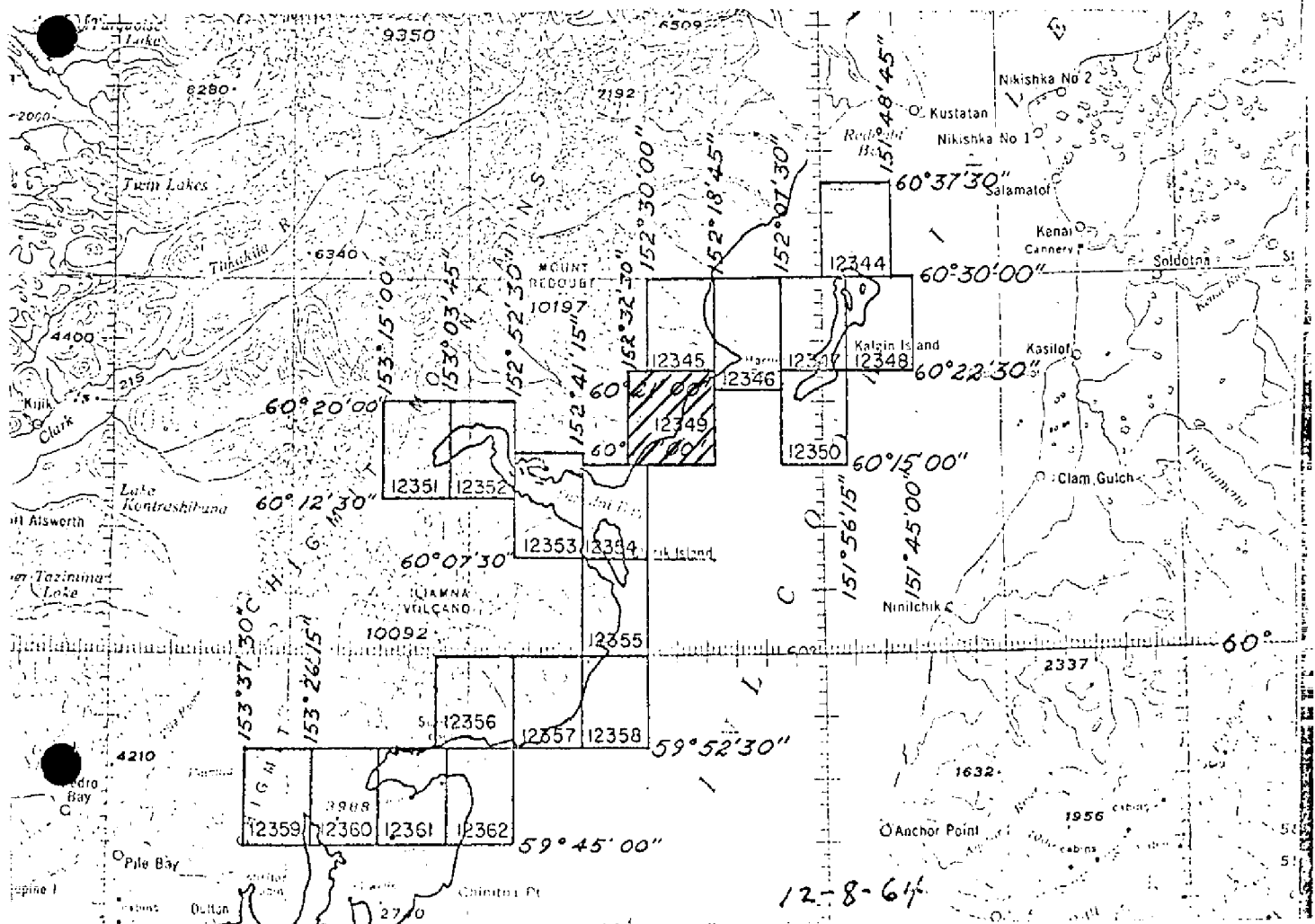
Scale 1:20000  
ALASKA

## COOK INLET

OFFICIAL MILEAGE FOR COST ACCOUNTS

| Sheet No. | Area<br>Sq. Mile | Lin. Mile<br>Shoreline | Sheet No. | Area<br>Sq. Mile | Lin. Mile<br>Shoreline |
|-----------|------------------|------------------------|-----------|------------------|------------------------|
| T-12344   | 2                | 4                      | T-12354   | 11               | 22                     |
| T-12345   | 3                | 6                      | T-12355   | 8                | 16                     |
| T-12346   | 3                | 6                      | T-12356   | 3                | 6                      |
| T-12347   | 8                | 16                     | T-12357   | 7                | 14                     |
| T-12348   | 4                | 8                      | T-12358   | 2                | 4                      |
| T-12349   | 5                | 10                     | T-12359   | 3                | 6                      |
| T-12350   | 4                | 9                      | T-12360   | 4                | 7                      |
| T-12351   | 4                | 9                      | T-12361   | 10               | 19                     |
| T-12352   | 10               | 21                     | T-12362   | 4                | 8                      |
| T-12353   | 11               | 22                     |           |                  |                        |

Totals - Area 106 sq. mile; Shoreline 213 sq. mile



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

T-12349

This 1:20,000 scale Final shoreline map is one of nineteen 1:20,000 scale maps designated as project PH-6301 Part II, Southern Part, Cook Inlet, Alaska.

The purpose of this map was to provide contemporary shoreline in support of hydrographic operations and to aid in chart revision.

Field work prior to compilation during the 1967 field season consisted of recovery and premarking of horizontal control for aerotriangulation.

This map area was photographed in June 1967 with the RC-8 "L" camera at 1:40,000 scale using color film. The map area was also photographed in July 1970 with the RC-8 "E" camera at 1:20,000 scale using color film.

Aerotriangulation was completed at the Washington office in August 1973 and September 1975.

This map was compiled at the Norfolk office in February 1977.

Field edit was acquired for T-12349 during the 1978 field season. Field edit was applied at AMC in November 1978.

Final review was accomplished at the Atlantic Marine Center in October 1986. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.



## FIELD INSPECTION

T-12349

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

Photogrammetric Plot Report  
Cook Inlet, Alaska  
FI-6301  
August 1973

21. Area Covered

The area covered by this report is the western shoreline along Cook Inlet from Redoubt Bay to Tuxedui Bay, also included was Kalgin Island. T-sheets 12344 thru 12350 cover the area.

22. Method

Three strips of photography were bridged by analytic aerotriangulation methods. Strip #1, covering Kalgin Island, was 1:40,000 color, Strips #2 & #3 covering the western shore of Cook Inlet was 1:60,000 black and white panchromatic.

Common points were located on the bridging photography and the 1:20,000 color photography being used for ratio purposes. Tie points were used between strips #2 & 3 to provide adequate junction of photography. T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

Control was adequate and checked within map accuracy standards.

24. Supplemental Data

USGS Quadrangles were used to provide vertical control for the adjustment.

25. Photography

The coverage overlap, and quality of the photography was adequate.

Submitted by,

*Robert B. Kelly*  
Robert B. Kelly

Approved by:

*John D. Perrow, Jr.*

John D. Perrow, Jr.  
Chief, Aerotriangulation Section

Photogrammetric Plot Report  
Cook Inlet, Alaska  
PH-6301

21. Area Covered

The area covered by this report is the western shoreline along Cook Inlet, Alaska, from Chinita Bay to Tuxedni Bay. This area is covered by 13 1:20,000 sheets; T-12349, T-12351-12362.

22. Method

Three strips of 1:60,000 scale black-and-white panchromatic photography were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and the 1:20,000 color photography being used for ratio purposes. In addition, common points were located on the bridging and 1:20,000 photography being used for compilation. Tie points were used on all three strips to insure an adequate junction of all photography during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

Control checked within map accuracy standards, but due to the fact that this area is within the 1964 earthquake zone, some local stations could have moved.

Station F00, 1970, could not be held in the strip adjustment and this is believed to be the cause.

On September 3, 1975, Geodesy informed this office that not enough data was available to make any significant changes on the horizontal control in this area.

24. Supplemental Data

USGS Quadrangles were used to provide vertical control for the adjustment.

25. Photography

The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,

*Stephen H. Solbeck*  
Stephen H. Solbeck

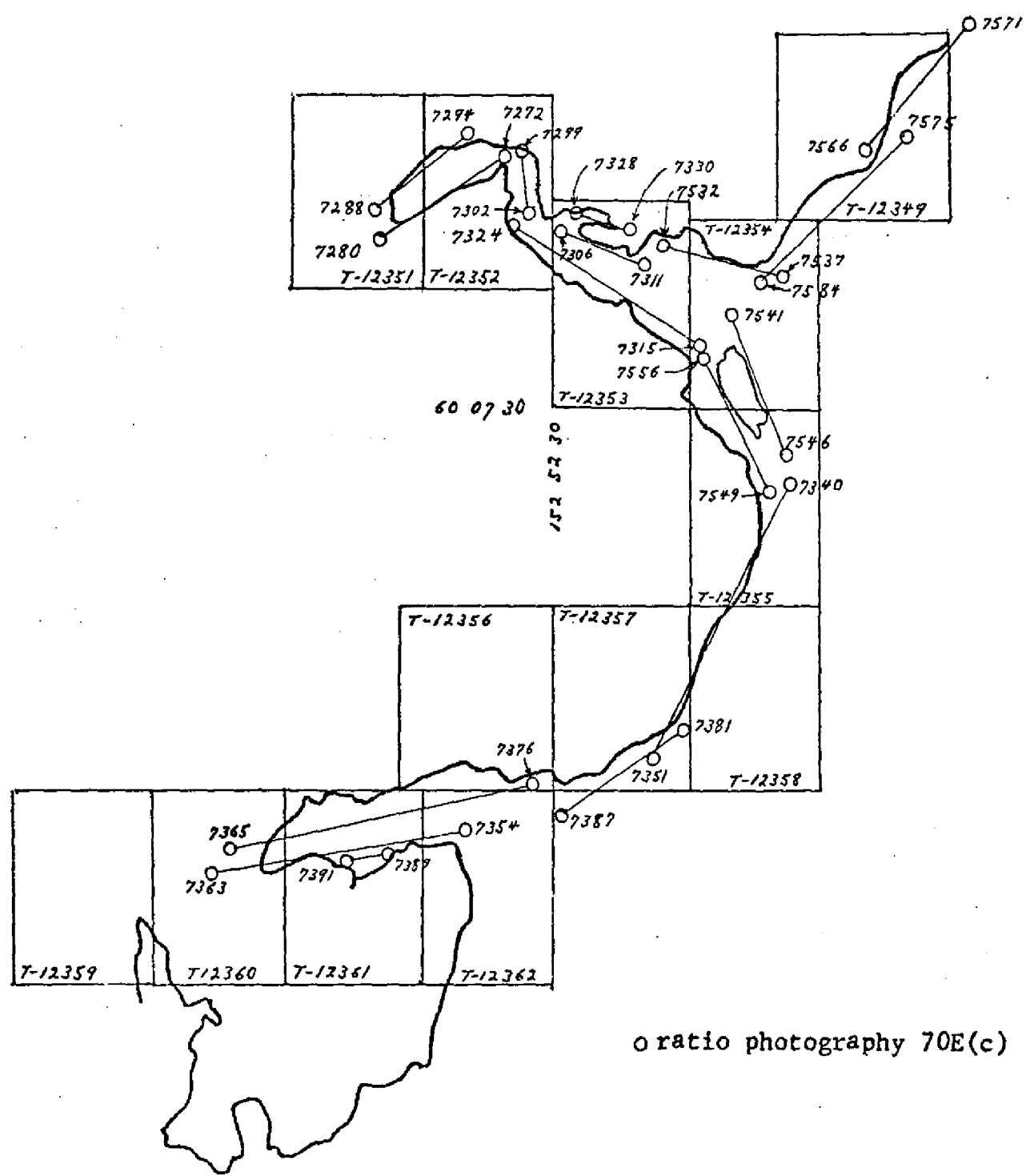
Approved and forwarded:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.

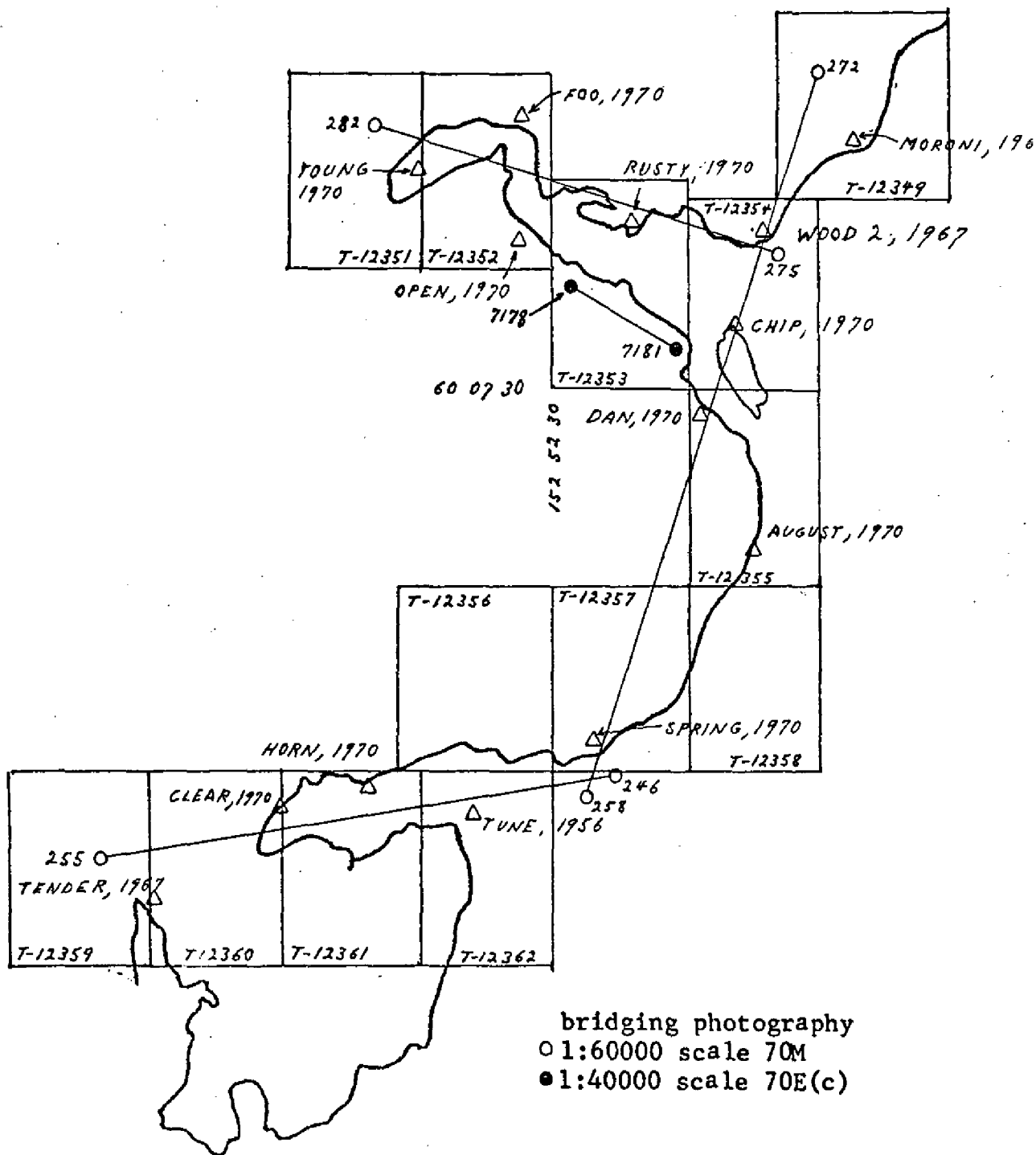
Chief, Aerotriangulation Section

29 SEP 75

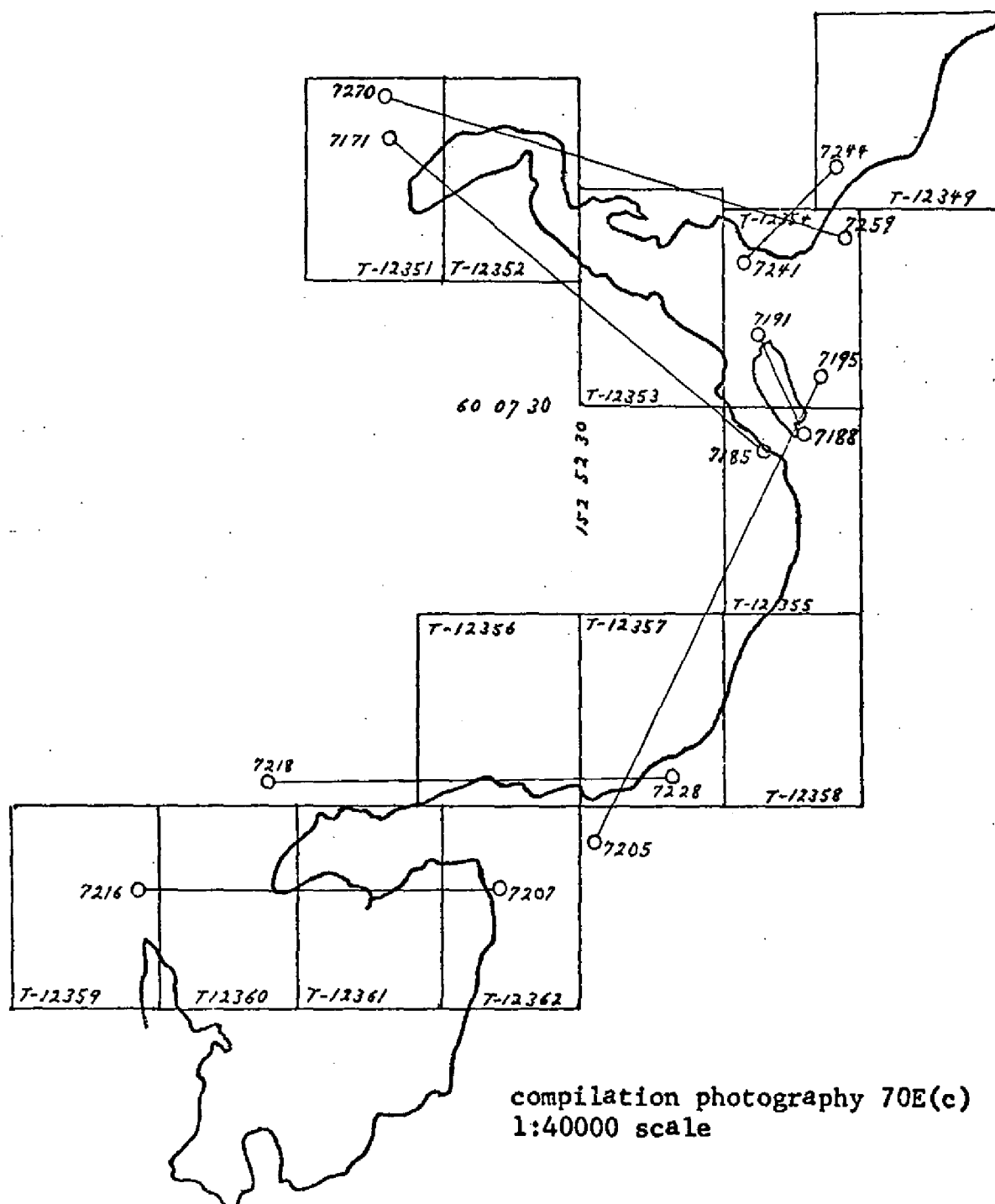
AEROTRIANGULATION SKETCH  
COOK INLET ALASKA  
PART-2  
PH-6301  
September, 1975



AEROTRIANGULATION SKETCH  
COOK INLET ALASKA  
PART-2  
PH-6301  
September, 1975



AEROTRIANGULATION SKETCH  
COOK INLET ALASKA  
PART-2  
PH-6301  
September, 1975



## DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO.          | JOB NO.     | PH-6301 Part 2                           | AEROTRI-<br>ANGULATION<br>POINT<br>NUMBER | SOURCE OF<br>INFORMATION<br>(Index) | GEODETTIC DATUM          |  | ORIGINATING ACTIVITY Coastal Mapping<br>Unit, AMC, Norfolk, VA |         |         |
|------------------|-------------|--|---|-------------------------------------|--------------------------|--|--|---------|---------|
|                  |             |  |   |                                     | N.A. 1927                |  |  |         |         |
| STATION NAME     |             |  |   |                                     | COORDINATES IN FEET      | GEOGRAPHIC POSITION                    | REMARKS  |         |         |
|                  |             |  |   |                                     | STATE Alaska<br>ZONE 5   | $\phi$ LATITUDE<br>$\lambda$ LONGITUDE |  |         |         |
| REDOUBT, 1908    |             | G.P. Vol. V<br>Pg. 18                    |   |                                     | X=                       | $\phi$ 60 17 57.050                    |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$ 152 24 05.169                |  |         |         |
| MORONI, 1967     |             | Bridge form<br>76-41 Field<br>unadjusted | 271100                                    |                                     | X= 2,302,520.60          | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y= 789,313.18            | $\lambda$                              |  |         |         |
| NORMAN, 1967     |             | Bridge form<br>164 field<br>unadjusted   | 42100                                     |                                     | X= 2,326,400.02          | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y= 798,308.07            | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
|                  |             |  |   |                                     | X=                       | $\phi$                                 |  |         |         |
|                  |             |  |   |                                     | Y=                       | $\lambda$                              |  |         |         |
| COMPUTED BY      | A. C. Rauck |  | DATE                                      | 4/17/74                             | COMPUTATION CHECKED BY   | F. R. Gustafson                        | DATE   | 11/6/75 | 4/18/74 |
| LISTED BY        |             |  | DATE                                      |                                     | LISTING CHECKED BY       |  | DATE   |         |         |
| HAND PLOTTING BY |             |  | DATE                                      |                                     | HAND PLOTTING CHECKED BY |  | DATE   |         |         |

## COMPILATION REPORT

T-12349

### 31 - DELINEATION

Delineation was by the Wild B-8 stereoplotter.

The 1:40,000 scale photography was set on the Wild B-8 stereoplotter at two different times. Photos 67 M 841-842 were set in 1974 and the northeast section of the manuscript was compiled at that time. Photos 70 M 270-273 were set in 1977, and the MHW line on the rest of the sheet was compiled.

### 32 - CONTROL

See the attached Photogrammetric Plot Report, dated August 1973 and September 1975.

### 33 - SUPPLEMENTAL DATA

None.

### 34 - CONTOURS AND DRAINAGE

Contours are not applicable. Drainage was delineated by using the Wild B-8 stereoplotter from compiler's interpretation of the photographs.

### 35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated using the Wild B-8 stereoplotter from compiler's interpretation of the photographs.

The mean high water line was delineated from the photographs.

### 36 - OFFSHORE DETAILS

No unusual problems.

### 37 - LANDMARKS AND AIDS

Within the limits of this manuscript, there were 0 landmarks and 0 aids to navigation.

### 38 - CONTROL FOR FUTURE SURVEYS

None.

### 39 - JUNCTIONS

See the attached Form 76-36B, Item #5 of the Descriptive Report concerning junctions.



40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Reports, dated September 29, 1975 and August 1973.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S. Geological Survey Quadrangle: KENI (B-7), Alaska, scale 1:63,360, 1954, field annotated 1958.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with National Ocean Survey Chart: 16660, scale 1:194,154, Dec. 18, 1975, 17th ed.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

*J. Roderick*  
Joanne Roderick  
Cartographer  
January 19, 1977

Approved

*A. C. Rauck, Jr.*  
Albert C. Rauck, Jr.  
Chief, Coastal Mapping Section

Feb. 6, 1987

GEOGRAPHIC NAMES

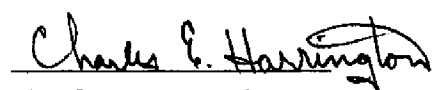
FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska-Part 2)

T-12349

Cook Inlet  
Little Polly Creek  
Polly Creek  
Redoubt Point

Prepared by:



Charles E. Harrington

Staff Geographer

Field Edit Report  
OPR-P114-FA-78  
Redoubt Point, Tuxedni Bay

GENERAL

This report covers field edit work done on topographic manuscripts T-12349 and T-12351 through T-12355. Work was performed by LTjg Crowell, ENS Finke and ENS Roberts during the months of June, July and August 1978.

RECOMMENDATIONS

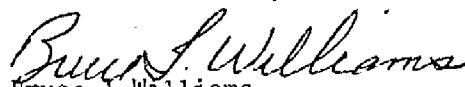
It could be very helpful if color photographs were supplied to parties assigned to field work in addition to black and white photographs. Many features which are obvious in the field do not show up at all on black and white photographs.

Submitted by



Robert B Crowell  
LTjg, NOAA

Approved by



Bruce I Williams  
Commanding Officer  
NOAA Ship Fairweather

T-12349  
Redoubt Point

DESCRIPTION

Extensive mud tidal flats extend along the entire shoreline. The beach areas are primarily gravel. Large groups of rocks and boulders cover much of the beach areas and extend well onto the tidal flats. Local information indicates that winter ice can cause movement of offshore rocks. This appears limited as there is little evidence of significant movement since the photographs were taken.

METHOD

Field edit was accomplished from skiffs and on foot. Offshore rocks were located during negative tides. Not all rocks were located due to the number and the difficulty of reaching them across the tidal flats. Effort was concentrated on the more significant rocks and the outer rocks of large groups of rocks. Rocks located from the photographs were generally verified by visual identification, though field positions were obtained on some.

Shoreline and other features were verified at various tidal stages, usually near high water for shoreline, from close offshore and ashore. The ozalids and photographs were examined in the field.

Control for fixes was range-azimuth, using Wild T-1 theodolites and Motorola Mini-ranger equipment. Further information on stations and equipment is appended. Check fixes were not obtained due to limited control.

ADEQUACY AND COMPLETENESS OF COMPILATION

Office and field compilation of the manuscript are adequate for the purpose of nautical charting. Field work on the manuscript is complete.

MANUSCRIPT ACCURACY

Field positions on rocks located from the photographs agree closely with office positions. The position of station NORMAN 1967 in relation to surrounding features is in good agreement with the manuscript.

RECOMMENDATIONS

Due to the number of offshore rocks in areas such as this, the usefulness of low water photographs cannot be overemphasized. The difficulty of obtaining aerial photographs under prime conditions is recognized, but locating rocks in the field is usually more difficult, if not hazardous, than in the office.

REVIEW REPORT  
SHORELINE

T-12349

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

Not applicable.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the following Hydrographic Survey:  
H-9770, 1:20,000 scale, January 14, 1980.

There are no major conflicts.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS charts:  
16662, scale 1:100,000, dated April 9, 1983  
16661, scale 1:100,000, dated July 27, 1985.

There were no conflicts.

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

*James L. Byrd, Jr.*  
James L. Byrd, Jr.  
Final Reviewer

Approved for forwarding

*Billy H. Barnes*

Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved

*July O. Robison, Jr.*

Chief, Photogrammetric Production Sec.

*My. Byrd*

Chief, Photogrammetry Branch

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

## INSTRUCTIONS

**A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.**

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]