

T-13376

ORIGINAL

T-13376

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey ..... Shoreline

Job No. .... PH-6909 ..... Map No. .... T-13376

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

Field Edited Map

### LOCALITY

State ..... Alaska

General Locality ..... Sumner Strait

Locality ..... Point Colpoys .....

1969 TO 19 75

### REGISTRY IN ARCHIVES

DATE .....

## DESCRIPTIVE REPORT - DATA RECORD

## TYPE OF SURVEY

- ☒ ORIGINAL  
☐ RESURVEY  
☐ REVISED

SURVEY TP-13376MAP EDITION NO. 1MAP CLASS FinalJOB PH-6909

## PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division; AMC  
Norfolk, Va.

## OFFICER-IN-CHARGE

J. Carlen, CDR/NOAA

## LAST PRECEDING MAP EDITION

## TYPE OF SURVEY

- ☐ ORIGINAL  
☐ RESURVEY  
☐ REVISED

JOB PH-MAP CLASS 

SURVEY DATES:

19  TO 19 

## I. INSTRUCTIONS DATED

## 1. OFFICE

Aerotriangulation October 2, 1969  
Compilation September 14, 1970  
Compilation November 6, 1970  
Compilation Amend I November 20, 1970

## 2. FIELD

Premarking May 14, 1969

## II. DATUMS

## 1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

## 2. VERTICAL:

☒ MEAN HIGH-WATER  
☐ MEAN LOW-WATER  
☒ MEAN LOWER LOW-WATER  
☐ MEAN SEA LEVEL

OTHER (Specify)

## 3. MAP PROJECTION

Polyconic

## 4. GRID(S)

STATE  
AlaskaZONE  
1

## 5. SCALE

1:10,000

STATE

ZONE

## III. HISTORY OF OFFICE OPERATIONS

| OPERATIONS  |                                     | NAME  | DATE                       |
|---|-------------------------------------|---|----------------------------|
| 1. AEROTRIANGULATION<br>METHOD: Analytic          | BY LANDMARKS AND AIDS BY            | R. Kelly  | Apr 1970                   |
| 2. CONTROL AND BRIDGE POINTS<br>METHOD: Coradomat | PLOTTED BY<br>CHECKED BY            | P. Dempsey<br>P. Dempsey                                | Sept 1970<br>Sept 1970     |
| 3. STEREOSCOPIC INSTRUMENT<br>COMPILATION         | PLANIMETRY BY<br>CHECKED BY         | A. L. Shands<br>R. White                                | Jan 1971<br>Jan 1971       |
| INSTRUMENT: Wild B-8 & Graphic                    | CONTOURS BY                         | NA  |                            |
| SCALE: 1:15,000                                   | CHECKED BY                          | NA  |                            |
| 4. MANUSCRIPT DELINEATION                         | PLANIMETRY BY<br>CHECKED BY         | F. Margiotta<br>L. Graves                               | Jan 1971<br>Feb 1971       |
| METHOD: Smooth Drafted                            | CONTOURS BY<br>CHECKED BY           | NA<br>NA  |                            |
| SCALE: 1:10,000                                   | HYDRO SUPPORT DATA BY<br>CHECKED BY | F. Margiotta<br>B. Barge                                | Jan 1971<br>Jan 1971       |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT          | BY                                  | L. Graves   | Feb 1971                   |
| 6. APPLICATION OF FIELD EDIT DATA                 | BY<br>CHECKED BY                    | R. Minton & A. L. Shands<br>F. Gustafson & A. L. Shands | Jul 74, Nov 75<br>Nov 1975 |
| 7. COMPILATION SECTION REVIEW                     | BY                                  | A. L. Shands  | Nov 1975                   |
| 8. FINAL REVIEW                                   | BY                                  | A. L. Shands  | Oct 1979                   |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH       | BY                                  | A. L. Shands  | Dec 1979                   |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH       | BY                                  | F. R. WATTS   | FEB 1980                   |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION       | BY                                  | E. L. DAUGHERTY   | JUN 1980                   |

NOAA FORM 76-36B  
(3-72)

T-13376

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" & "K"  |         | TYPES OF PHOTOGRAPHY<br>LEGEND                |          | TIME REFERENCE  |  |
| TIDE STAGE REFERENCE<br><input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |         | (C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED |          | ZONE<br>Pacific<br>MERIDIAN<br>120th<br><input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> DAYLIGHT |  |
| NUMBER AND TYPE   | DATE    | TIME  | SCALE    | STAGE OF TIDE   |  |
| 69E(C) 992 & 993  | 8/5/69  | 12:40PST                                      | 1:30,000 | 4.4 ft. above MLLW  |  |
| 69E(C) 2010 - 2012  | 8/24/69 | 14:23PST                                      | 1:20,000 | 8.2 ft. above MLLW  |  |
| 69K(I) 3725 & 3726  | 7/18/69 | 10:04 PST                                     | 1:20,000 | 0.7 ft. below MLLW  |  |

## REMARKS

MEAN

Subord. Sta. LEVEL ISLANDS, SUMNER STRAIT, ALASKA RANGE: 12.6 Ft.

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

From the above list of photographs.

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

From the above list of photographs.

## 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 Overlap   | WEST    |
| No survey | T-13377 | TP-00564 CM7206 | T-13374 |
| REMARKS   |         |                 |         |

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-13376  
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

| OPERATION                              | NAME   | DATE     |
|--|--|----------|
| 1. CHIEF OF FIELD PARTY                | R. Moses   | Jun 1969 |
| 2. HORIZONTAL CONTROL                  | RECOVERED BY<br>G. F. T.   | Jun 1969 |
|  | ESTABLISHED BY<br>None   |          |
|  | PRE-MARKED OR IDENTIFIED BY<br>G.F.T.  | Jun 1969 |
| 3. VERTICAL CONTROL                    | RECOVERED BY<br>None   |          |
|  | ESTABLISHED BY<br>None   |          |
|  | PRE-MARKED OR IDENTIFIED BY<br>None  |          |
| 4. LANDMARKS AND<br>AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY<br>None  |          |
|  | LOCATED (Field Methods) BY<br>None   |          |
|  | IDENTIFIED BY<br>None  |          |
| 5. GEOGRAPHIC NAMES<br>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<br>None  |          |
| 7. BOUNDARIES AND LIMITS               | SURVEYED OR IDENTIFIED BY<br>NA  |          |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

None

| PHOTO NUMBER | STATION NAME  | PHOTO NUMBER | STATION DESIGNATION |
|--------------|---------------|--------------|---------------------|
| 69E(C) 993   | COLPOYS, 1886 |              |                     |

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)

1-Form 152

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

T-13376

## HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION                           | NAME   | DATE   |
|-------------------------------------|--|--|
| 1. CHIEF OF FIELD PARTY             | G. Saladin   | Aug 1971   |
| 2. HORIZONTAL CONTROL               | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY  | None<br>None<br>None                                 |
| 3. VERTICAL CONTROL                 | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY  | NA<br>NA<br>NA                                       |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY<br>LOCATED (Field Methods) BY<br>IDENTIFIED BY   | W. Taguchi & H. Herz<br>None<br>W. Taguchi & H. Herz |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input checked="" type="checkbox"/> SPECIFIC NAMES ONLY<br><input type="checkbox"/> NO INVESTIGATION | G. Saladin   |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY  | W. Taguchi & H. Herz                                 |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY  | NA   |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

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

3. PHOTO NUMBERS (Clarification of details)

69E 2012

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)

1-Field Edit Report  
 1-Field Edit Ozalid  
 1-Form 76-40

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

T-13376

## HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION                           | NAME   | DATE                 |
|-------------------------------------|--|----------------------|
| 1. CHIEF OF FIELD PARTY             | M. Fleming   | SEPT 1975            |
| 2. HORIZONTAL CONTROL               | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY  | None<br>None<br>None |
| 3. VERTICAL CONTROL                 | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY  | NA<br>NA<br>NA       |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY<br>LOCATED (Field Methods) BY<br>IDENTIFIED BY   | None<br>None<br>None |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input type="checkbox"/> NO INVESTIGATION BY |                      |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY  | J. Sarb<br>SEPT 1975 |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY  | NA                   |

## II. SOURCE DATA

|  |              |  |                     |
|--|--------------|--|---------------------|
| 1. HORIZONTAL CONTROL IDENTIFIED<br>None   |              | 2. VERTICAL CONTROL IDENTIFIED<br>NA   |                     |
| PHOTO NUMBER   | STATION NAME | PHOTO NUMBER   | STATION DESIGNATION |
|  |              |  |                     |
| 3. PHOTO NUMBERS (Clarification of details)<br>69E(C) 2012, 69K(I) 3726  |              |  |                     |
| 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED<br>None   |              |  |                     |
| PHOTO NUMBER   | OBJECT NAME  | PHOTO NUMBER   | OBJECT NAME         |
|  |              |  |                     |
| 5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE  |              | 6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE |                     |
| 7. SUPPLEMENTAL MAPS AND PLANS<br>None   |              |  |                     |
| 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)<br>1-Field Edit Report<br>1-Field Edit Ozalid |              |  |                     |

NOAA FORM 76-36C  
(3-72)

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

| COMPILATION STAGES                                    |          |                                    | DATE MANUSCRIPT FORWARDED     |               |
|---|----------|------------------------------------|-------------------------------|---------------|
| DATA COMPILED   | DATE     | REMARKS                            | MARINE CHARTS                 | HYDRO SUPPORT |
| Compilation complete<br>pending field edit            | Jan 1971 | Class III manuscript<br>Superseded | 2/10/71                       | 2/19/71       |
| Partial field edit<br>applied                         | Jul 1974 | Class III manuscript<br>Superseded |                               | 8/8/74        |
| Field edit of 1975<br>applied compilation<br>complete | Nov 1975 | Class I manuscript                 | None                          |               |
| Final Review  | Oct 1979 | Final                              | 4-4-80<br><del>Dec 1979</del> |               |

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS        |
|--------|---------------------------------|-------------------|----------------|
| 1      |                                 | 7/15/74           | Aid for charts |
|        |                                 |                   |                |
|        |                                 |                   |                |
|        |                                 |                   |                |
|        |                                 |                   |                |
|        |                                 |                   |                |

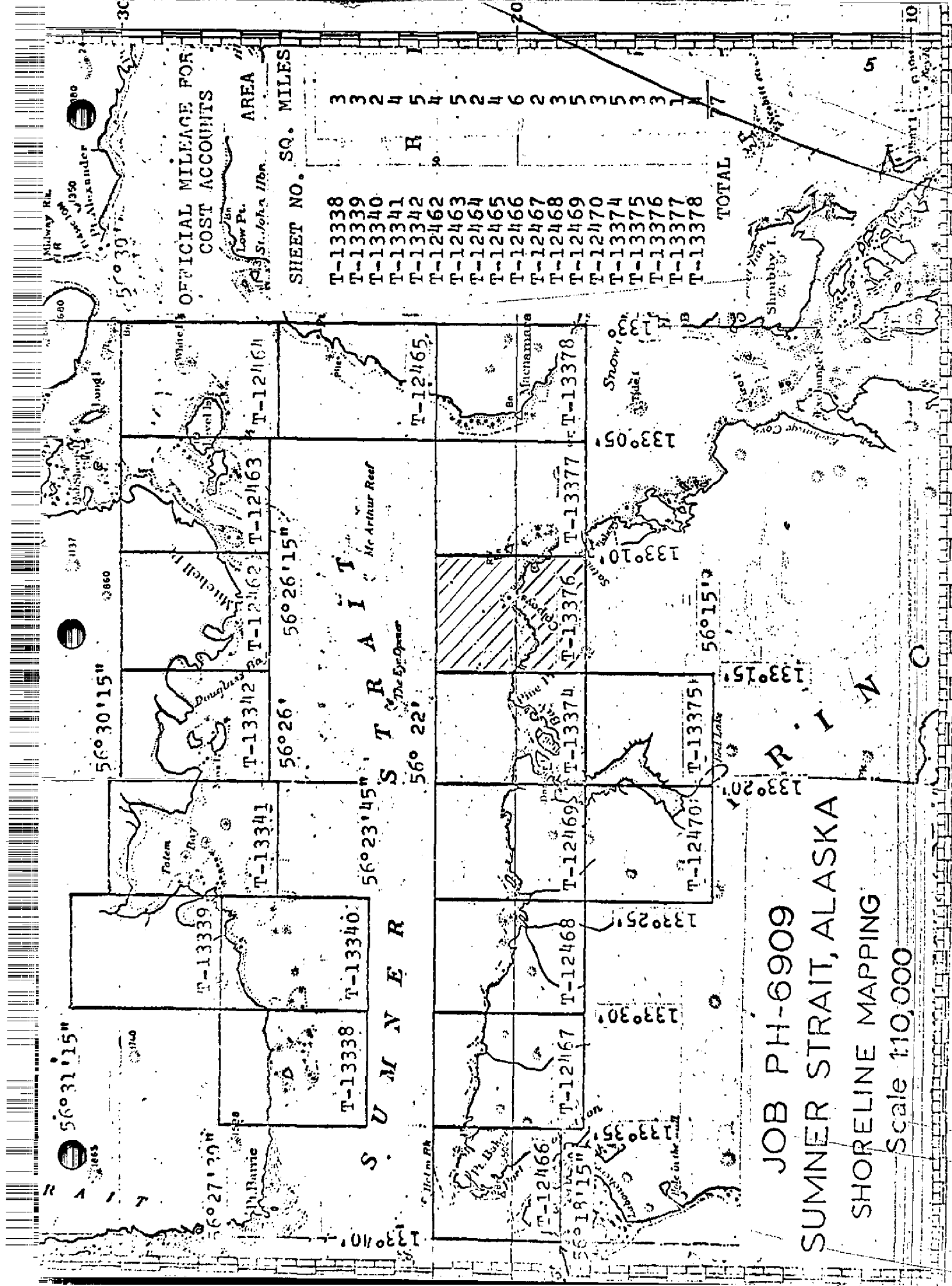
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 7/15/743. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## 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: 76-40 by field party lost. Not available at time of final review. A. L. S. Nov, 1979.  
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>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>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>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       |   |



OFFICIAL MILEAGE FOR  
COST ACCOUNTS

AREA

SHEET NO. SQ. MILES

T-13338  
T-13339  
T-13340  
T-13341  
T-13342  
T-12462  
T-12463  
T-12464  
T-12465  
T-12466  
T-12467  
T-12468  
T-12469  
T-12470  
T-13374  
T-13375  
T-13376  
T-13377  
T-13378

TOTAL

JOB PH-6909  
SUMNER STRAIT, ALASKA  
SHORELINE MAPPING  
Scale 1:10,000



SUMMARY TO ACCOMPANY T-12462 THRU T-12470,  
T-13338 Thru T-13342 and T-13374 Thru T-13378

This summary covers Project PH-6909 consisting of nineteen standard shoreline maps covering the area of Sumner Strait. The purpose of this job was to provide support for hydrographic operations conducted in the area during the 1971 and 1972 field seasons. Each map is 1:10,000 scale.

Photography of the area was flown during the summer of 1969. Flights of 1:60,000 and 1:30,000 scale color photography were flown for use in aerotriangulation and stereo instrument compilation. Tandem flights of 1:20,000 scale color and black and white infrared were used to supplement the instrument compilation photography.

There was no field inspection. Prior to compilation field work consisted of the recovery and identification of horizontal control for bridging which was conducted at the Rockville Office in April, 1970, by analytic methods.

All maps were compiled at the Atlantic Marine Center with the Wild B-8 stereoplotter. Shingle Island on T-13341 and Vichnefski Rock and White Rock on T-12464 were compiled graphically using control established in the bridge supplemented by control established in B-8 stereo models.

Field Edit was done for all maps in summer of 1971. Much of that data for the seven easternmost maps, T-12462 - T-12465 and T-13376, T-13378 was lost.

These maps were re-edited in the summer of 1975. Edit was applied to all maps at the Atlantic Marine Center.

Final review was performed at the Atlantic Marine Center. All pertinent data was forwarded to <sup>the</sup> Rockville, Maryland, office for reproduction and final registration.

## FIELD INSPECTION

T-13376

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.

Aerotriangulation Report  
PH-6909  
Sumner Strait, Alaska

April 29, 1970

21. Area Covered

This report covers T sheets 12462 through 12470, T sheets 13338 through 13342 and T sheets 13374 through 13378 of Sumner Strait, Alaska, at 1:10,000 scale.

22. Method

Three strips of 1:60,000 scale color photography were bridged by analytical methods to provide horizontal control, compilation and ratio points for 1:30,000 scale photography. The attached sketch of the strips bridged shows the placement of triangulation used in the strip adjustment. A list of closures to control is part of this report. Positions of all compilation points (i.e. 900 points) and control stations have been plotted on the manuscripts by the Coradi, on the Alaska Zone 1 plane coordinate system.

23. Adequacy of Control

The horizontal control provided was adequate except for SPIT, 1927. The strip adjustment showed an error of -15 feet in the x direction. The adjacent project Keku Strait, Alaska, PH-6206 which used SPIT, 1927, also showed an error of -15 feet in the x direction. The reason for not obtaining a better closure is not known. Six tie points were used to augment datum tie between strip 1 of Sumner Strait and strips 1 and 11 of Keku Strait. Tie points were averaged between the three strips.

All other control held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 scale.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

-2-

25. Photography

Photography was adequate as to coverage, overlap and definition.

Submitted by,

  
Robert B. Kelly

Approved and forwarded,

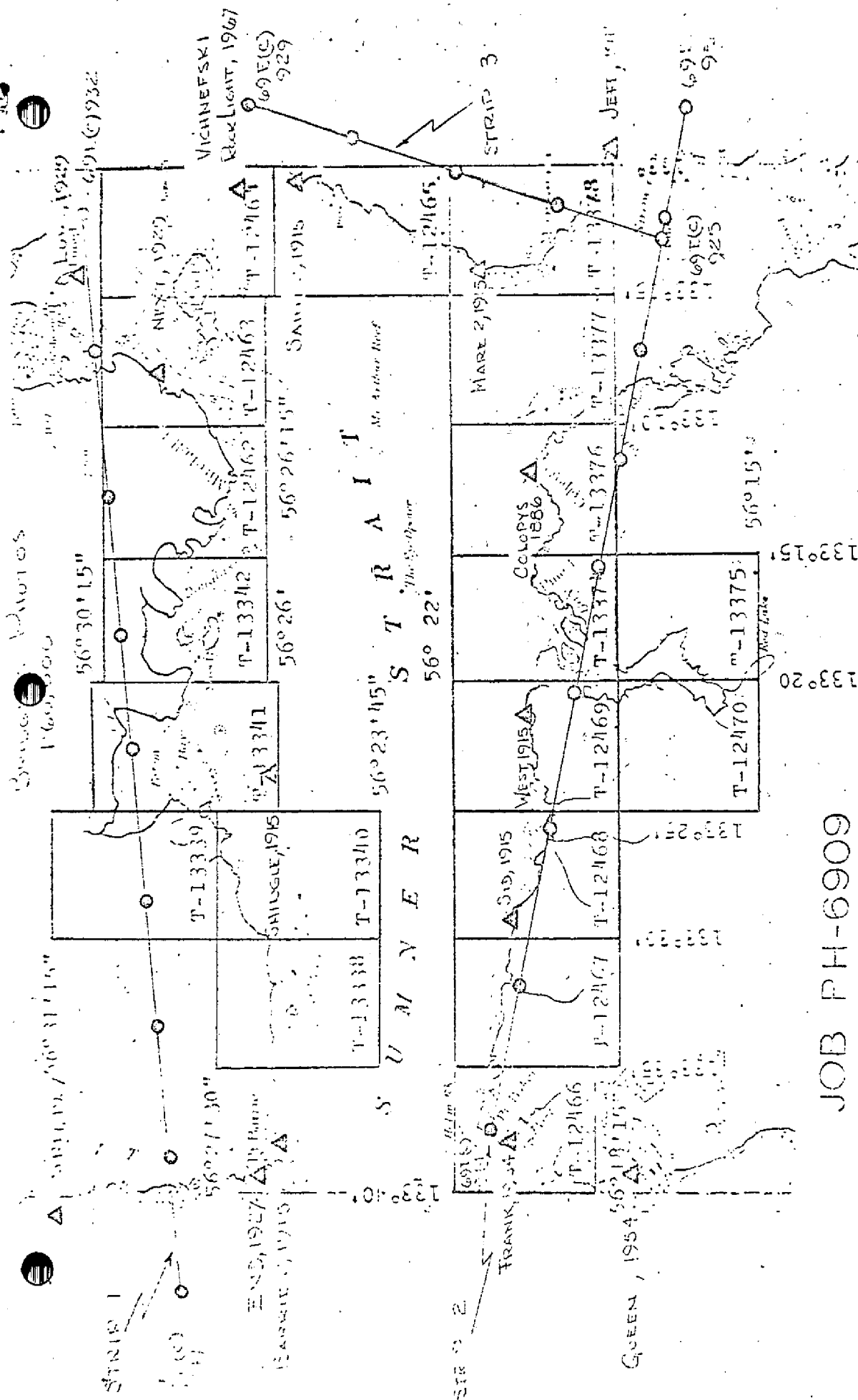


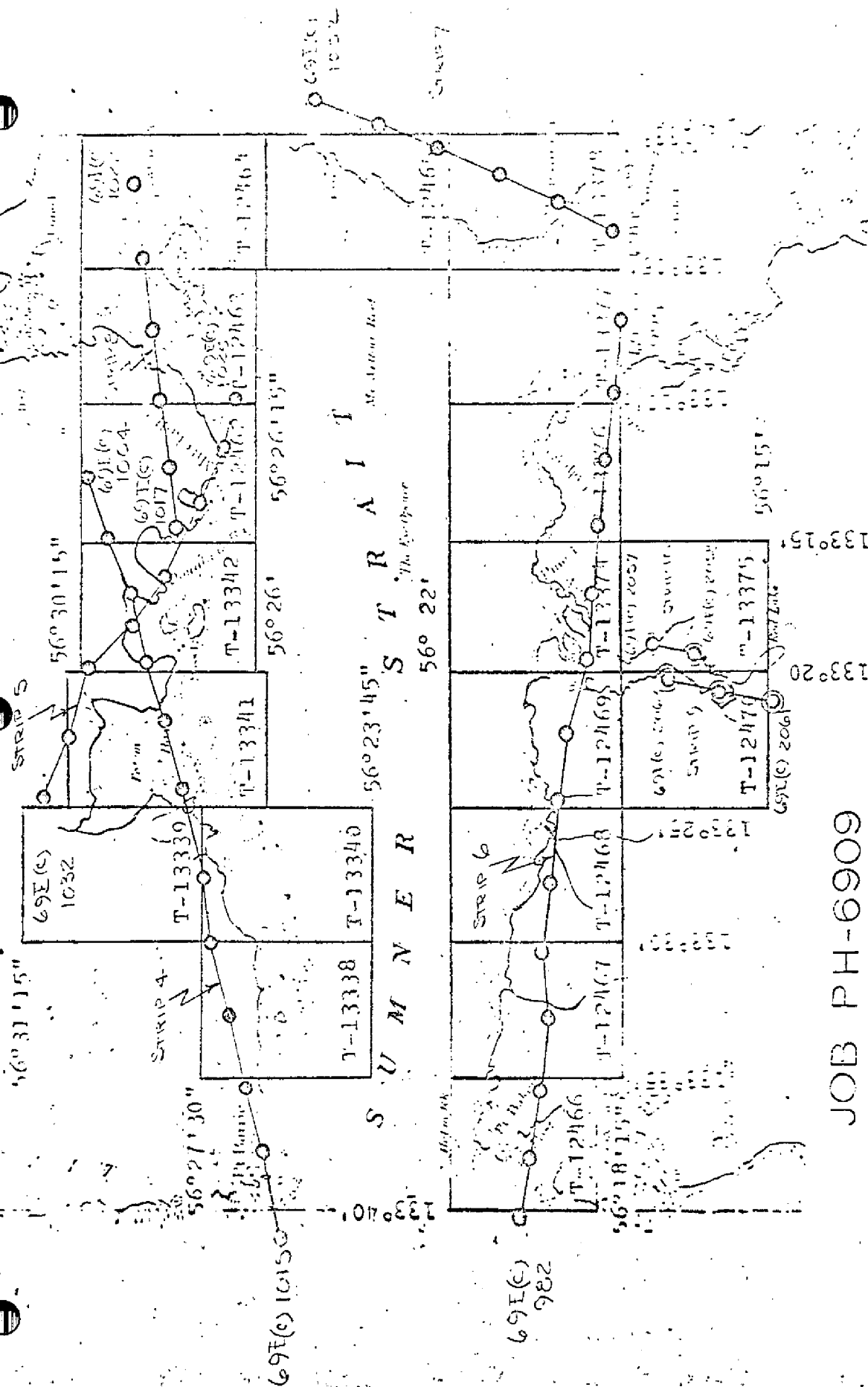
Henry P. Eichert  
Chief, Aerotriangulation  
Section

# JOB PH-6909 SUMNER STRAIT, ALASKA

CHOPRELINE MAPPING

Scale 110,000





6069-H-7 JOB

SUMNER STRAIT, ALASKA

# CONTINUING MAPPING

Scale 110,000

## LEGEND

- Δ CONTROL USED IN ADJUSTMENT  
 ( ) CLOSURES OF BRIDGE TO CONTROL SHOWN  
 IN PARENTHESES  
 Δ CONTROL USED AS CHECK.

## STRIP 1

- Δ LONG, 1929  $(-0.9, +1.1)$  Ft.  
 Δ NEXT, 1929  $(+1.0, -1.9)$   
 Δ SHINGLE, 1915  $(0.0, +1.0)$   
 Δ BARRIE 2, 1915  $(+0.9, -3.3)$   
 Δ ENG, 1927  $(+0.3, -0.4)$

## STRIP 2

- Δ FRANK, 1954  $(0.0, -0.5)$   
 Δ QUEEN, 1954  $(-0.5, +1.0)$   
 Δ SID, 1915  $(+0.1, +0.5)$   
 Δ WEST, 1915  $(-0.5, +0.5)$   
 Δ COLPOVE, 1886  $(+0.2, -1.4)$   
 Δ JEFF, 1916  $(-0.5, +0.4)$

## STRIP 3

- Δ JEFF, 1916  $(0.0, +0.3)$   
 Δ MARZ 2, 1915  $(-0.7, -0.3)$   
 Δ SAINT 2, 1915  $(+2.1, +0.4)$   
 Δ VIK-NZELKI ROCK LT, 1967  $(-1.6, -0.6)$



## DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO.                      | JOB NO.                          | PH-6909                                   | GEODETIC DATUM                                | NA 1927   | ORIGINATING ACTIVITY Coastal Mapping<br>Division, Norfolk, Va. |
|------------------------------|----------------------------------|---|---|---|--|
| STATION NAME                 | SOURCE OF INFORMATION<br>(Index) | AEROTRI-<br>ANGULATION<br>POINT<br>NUMBER | COORDINATES IN FEET<br>STATE Alaska<br>ZONE 1 | GEOGRAPHIC POSITION<br>$\phi$ LATITUDE<br>$\lambda$ LONGITUDE | REMARKS<br>FORWARD BACK  |
| COLPOYS, 1886                | G.P. Vol 1<br>142                |   | X=  | $\phi$ 56 20 15.871   | 490.9 1364.9   |
|                              |                                  |   | Y=  | $\lambda$ 133 11 51.937                                       | 892.3 138.5  |
| POINT COLPOYS<br>LIGHT, 1967 | G.P.<br>G-13955                  |   | X=  | $\phi$ 56 20 11.791   | 364.7 1491.1   |
|                              |                                  |   | Y=  | $\lambda$ 133 11 44.271                                       | 760.6 270.2  |
|                              |                                  |   | 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=  | $\lambda$   |  |
|                              |                                  |   | X=  | $\phi$  |  |
|                              |                                  |   | Y=  | $\lambda$   |  |
| COMPUTED BY                  | A. C. Rauck, Jr.                 | DATE<br>9/14/70                           | COMPUTATION CHECKED BY                        | C. E. Blood   | DATE<br>10/6/70  |
| LISTED BY                    |                                  | DATE                                      | LISTING CHECKED BY                            |   | DATE   |
| HAND PLOTTING BY             |                                  | DATE                                      | HAND PLOTTING CHECKED BY                      |   | DATE   |

## COMPILATION REPORT

T-13376

## SHORELINE

31. DELINEATION:

The high water line, rocks and ledge were compiled by the Wild B-8 plotter. Photography was adequate and of good quality. There was no field inspection prior to compilation. The mean lower low water line and ledge limits were delineated graphically from the infrared low water photos.

32. CONTROL:

See Aerotriangulation Report, dated April 29, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

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

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were compiled from office interpretation of the photographs on the B-8 plotter.

36. OFFSHORE DETAILS:

Small offshore islands, and kelp areas were delineated from the Wild B-8 stereoplotter models.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

There is no contemporary survey to the north. Junctions were made to the east with T-13377 and to the west with T-13374. This map laps to the south with TP-00564 (CM-7206).

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle PETERSBURG (B-4), ALASKA, scale 1:63,360, dated 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8201, scale 1:217,828, 15th edition, dated November 15, 1969 and 8160, scale 1:80,000, dated July 4, 1970.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Frank P. Margiotta*  
Frank P. Margiotta  
Cartographic Aid  
Jan. 28, 1971

Approved:

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

October 26, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6909 (Alaska)

T-13376

- ✓ Bay Point
- ✓ California Bay
- ✓ Point Colpoys
- ✓ Prince of Wales Island
- ✓ Sumner Strait

Approved by:

*A. J. Wraight*  
A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*  
Frank W. Pickett  
Cartographic Technician

NOAA FORM 75-74  
(7-75)U.S. DEPARTMENT OF COMMERCE  
NOAA  
NATIONAL OCEAN SURVEYPHOTOGRAMMETRIC OFFICE REVIEW  
TP - 13376

|   |   |   |   |
|---|---|---|---|
| 1. PROJECTION AND GRIDS<br>LLG  | 2. TITLE<br>LLG   | 3. MANUSCRIPT NUMBERS<br>LLG  | 4. MANUSCRIPT SIZE<br>LLG                     |
| CONTROL STATIONS  |   |   |   |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY<br>LLG   | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)<br>NA |   | 7. PHOTO HYDRO STATIONS<br>NA                 |
| 8. BENCH MARKS<br>NA  | 9. PLOTTING OF SEXTANT FIXES<br>ALS   | 10. PHOTOGRAMMETRIC PLOT REPORT<br>LLG  | 11. DETAIL POINTS<br>LLG                      |
| ALONGSHORE AREAS (Nautical Chart Data)  |   |   |   |
| 12. SHORELINE<br>LLG  | 13. LOW-WATER LINE<br>LLG   | 14. ROCKS, SHOALS, ETC.<br>LLG  | 15. BRIDGES<br>LLG                            |
| 16. AIDS TO NAVIGATION<br>ALS   | 17. LANDMARKS<br>LLG  | 18. OTHER ALONGSHORE PHYSICAL FEATURES<br>LLG   | 19. OTHER ALONGSHORE CULTURAL FEATURES<br>LLG |
| PHYSICAL FEATURES   |   |   |   |
| 20. WATER FEATURES<br>LLG   | 21. NATURAL GROUND COVER<br>LLG   |   | 22. PLANETABLE CONTOURS<br>NA                 |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS<br>NA  | 24. CONTOURS IN GENERAL<br>NA   | 25. SPOT ELEVATIONS<br>NA   | 26. OTHER PHYSICAL FEATURES<br>LLG            |
| CULTURAL FEATURES   |   |   |   |
| 27. ROADS<br>LLG  | 28. BUILDINGS<br>LLG  | 29. RAILROADS<br>LLG  | 30. OTHER CULTURAL FEATURES<br>LLG            |
| BOUNDARIES  |   |   |   |
| 31. BOUNDARY LINES<br>NA  |   | 32. PUBLIC LAND LINES<br>NA   |   |
| MISCELLANEOUS   |   |   |   |
| 33. GEOGRAPHIC NAMES<br>LLG   | 34. JUNCTIONS<br>LLG  |   | 35. LEGIBILITY OF THE MANUSCRIPT<br>LLG       |
| 36. DISCREPANCY OVERLAY<br>LLG  | 37. DESCRIPTIVE REPORT<br>LLG   | 38. FIELD INSPECTION PHOTOGRAPHS<br>NA  | 39. FORMS<br>LLG                              |
| 40. REVIEWER<br><i>Albert C. Rauck, Jr. For</i><br>L. L. Graves 2/2/71  |   | SUPERVISOR, REVIEW SECTION OR UNIT<br><i>Albert C. Rauck, Jr.</i><br>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 (Partial edit) <i>J. R. Milton</i> 7/10/74<br>Reviewer: F. R. Gustafson 7/7/74   |   | SUPERVISOR<br><i>Albert C. Rauck, Jr.</i><br>A. C. Rauck, Jr.                         |   |
| 43. REMARKS<br><i>A. C. Rauck, Jr. For</i><br>Field Edit applied from: See Forms 76-36C, Items 3, 7, & 8.   |   |   |   |

## FIELD EDIT REPORT

## SUMNER STRAIT

## SOUTHEAST ALASKA

OPR-448

APRIL-SEPTEMBER 1971

INTRODUCTION

Field edit reports are attached for the following maps:

|         |                     |
|---------|---------------------|
| T-12462 | Mitchell Point      |
| T-12463 | Little Level Island |
| T-12464 | Big Level Island    |
| T-12465 | Point St. John      |
| T-12466 | Port Protection     |
| T-12467 | Flicker Creek       |
| T-12468 | Buster Bay          |
| T-12469 | Mud Creek           |
| T-12480 | Red Bay (West)      |
| T-13338 | Yellow Island       |
| T-13339 | Little Totem Bay    |
| T-13340 | Totem Bay           |
| T-13341 | Shingle Island      |
| T-13342 | Moss Island         |
| T-13374 | Bell Island         |
| T-13375 | Red Bay (East)      |
| T-13376 | Point Colpoys       |
| T-13377 | Rookery Islands     |
| T-13378 | Macnamara Point     |

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. Isolated rocks, high points of ledges, ledge limits and some shoreline were located by three-point sextant fixes with check angles. Fixes were plotted on boatsheets:

|            |            |
|------------|------------|
| DA-10-3-71 | DA-10-7-71 |
| DA-10-4-71 | DA-10-8-71 |
| DA-10-5-71 | DA-10-9-71 |
| DA-10-6-71 | DA-5-1-71  |

Comparisons were made between boatsheets and ozalids.

Notes have been made on the appropriate photographs and have been cross referenced on the Field Edit Ozalids by photograph number. All times are based on 105°W meridian. Individual reports by manuscript are attached. Either processed or field photographs were used for notes as indicated in the individual reports.

#### ADEQUACY OF COMPILATION

The photographic coverage of the area was excellent. Compilation was excellent with the few exceptions as noted on individual sheets. Unfortunately, photographic and manuscript coverage was not available for Kak Sheets Bay north of the Level Islands. Shoreline on the northern section of boatsheet DA-10-9-71 (H9221) will have to be edited when manuscripts are available.

#### TIDE NOTES

The following tide stations were used for hydrography in the Sumner Strait area:

Pt. Baker  
Red Bay

Totem Bay  
Level Island

#### AIDS TO NAVIGATION

Non-floating Aids to Navigation within the area were located and are covered in a report titled "Non-floating and Floating Aids to Navigation OPR-448 - Sumner Strait, Southeast Alaska 1971." A copy of the above report is included in the appendix.

Respectfully submitted,

*Howard W. Herz*  
Howard W. Herz  
LTJG. NOAA

Approved,

Gelald C. Saladin  
CDR. NOAA  
Commanding Officer  
NOAA Ship DAVIDSON



## FIELD EDIT REPORT

MAP T-13376

SUMNER STRAIT - POINT COLPOYS

SOUTHEAST ALASKA

JULY- AUGUST 1971

The field edit of map T-13376 was done by LTJG. Warren K. Taguchi and LTJG. Howard W. Herz on July 28, 1971 and August 24, 1971. Inspection was made with a small boat and on foot.

METHOD

Field photographs and a copy of the field ozalid were taken into the field. The MHWL was visually inspected with special attention given to areas questioned on the ozalid. Changes to the MHWL have been delineated on the field photograph. High points of rocks and ledges were noted on the ozalid and on the photograph. All times given are 105° W meridian. All changes delineated on the photograph have been cross referenced on the ozalid. Notes were made on field photograph 69E2012.

ADEQUACY OF COMPILATION

The compilation of this map was good. The MHWL is accurate in both configuration and location with exceptions as noted. The foul areas are in agreement with what was found in the field. One fixed aid to navigation was located within the area of the sheet. Form 567 has been submitted in a report titled Fixed Aids To Navigation and is included in the appendix. The field edit of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the Field Edit Ozalid and photograph and the map be accepted as an advance manuscript.

Respectfully submitted,

*W. K. Taguchi*

Warren K. Taguchi  
LTJG. NOAA

*Howard W. Herz*

Howard W. Herz  
LTJG. NOAA

SPECIAL REPORT  
ON  
GEOGRAPHIC NAMES  
OPR-448  
SOUTHEAST ALASKA  
SOUTH Keku STRAIT - SUMNER STRAIT

NOAA SHIP DAVIDSON  
CDR GERALD C. SALADIN  
CHIEF OF PARTY  
1971

The enclosed USGS Petersburg (B-4), (B-5), (B-6), (C-4) and (C-6) Alaska quadrangle sheets were used for geographic names identification along with the enclosed charts 8174 and 8201.

On August 29, 1971 Mr. Clarence Louis and Mr. Harry Coulter, both of Wrangell, Alaska, were interviewed. Mr. Louis has been a resident of Wrangell for 77 years and has fished extensively throughout the Sumner Strait area. Mr. Harry Coulter has been a resident of Wrangell since 1900. He has fished and done extensive navigating aboard tugs and steamboats in the Sumner Strait area.

On August 30, 1971 Mr. Laurel Allen Woolery (Buchshot), owner of the B.S. Trading Post, Port Protection, Alaska, was interviewed. Mr. Woolery has resided at Port Protection for more than thirty years.

All of the above individuals were shown the USGS quadrangles and the NOS charts. Verified names have been underlined in red on the charts and quadrangles. New or questionable names have been noted and the following remarks apply:

(Note: "GSPP-567" refers to "Dictionary of Alaska Place Names, by Donald J. Orth, Geological Survey Professional Paper 567. Excerpts from the above are included in the appendix of this report.)

- NOTE A: WOODEN WHEEL COVE (Port Protection: Lat. 56°18'35"N; Long. 133°36'25"W.) Named after a Wrangell resident who's fishing boat broke down in the cove. He fabricated a wheel out of wood and managed to get into Wrangell. He is since known by his friends as "Wooden Wheel" Johnson. (Clarence Louis-Wrangell)
- NOTE B: JACKSON ISLAND (Port Protection: Lat. 56°19'32"N; Long. 133°36'45"W.) Named after Percy Jackson who had a boat shop on the island. (Laurel "Buckshot" Woolery-Port Protection)
- NOTE C: EAST ROCK (Sumner Strait: Lat. 56°21'30"N; Long. 133°36'00"W.) Locally known as EAST ROCK (Woolery-Port Protection). Shown on USGS quadrangle Petersburg (B-5) as "TWIN I". Shown in GSPP-567 as EAST ROCK. EAST ROCK is correct as shown on NOS chart 8174.

- NOTE D: MERRIFIELD BAY (Sumner Strait: Lat.  $56^{\circ}21'05''N$ ; Long.  $133^{\circ}35'15''W$ ) Previously called "HOFSTEAD BIGHT" after Richard Hofstead who had a small store and herring traps there (Louis and Coulter-Wrangell). Known today as MERRIFIELD BAY by the local fisherman. The present name of MERRIFIELD BAY should be retained.
- NOTE E: FLICKER CREEK (Sumner Strait: Lat.  $56^{\circ}20'00''N$ ; Long.  $133^{\circ}33'00''W$ .) Un-named on largest scale chart of the area (NOS 8201). Named "FLICKER CREEK" on USGS quadrangle Petersburg (B-5) and in GSPP-567. Correctly shown on Incomplete Manuscript T-12467 as FLICKER CREEK. Locally called "HUMPY CREEK" by some of the fisherman (Woolery-Port Protection). The present name of FLICKER CREEK should be retained.
- NOTE F: SHINE CREEK (Sumner Strait: Lat.  $56^{\circ}19'35''N$ ; Long.  $133^{\circ}26'30''W$ .) So named in GSPP-567 and on USGS quadrangle Petersburg (B-5). Correctly shown on Incomplete Manuscript T-12468. Probably named after a Mr. "Shine" Owens who logged around Buster Bay about 1940 (Woolery-Port Protection).
- NOTE G: BUSTER BAY & BUSTER CREEK (Sumner Strait: Lat.  $56^{\circ}20'N$ ; Long.  $133^{\circ}26'W$ .) Correctly named on Incomplete Manuscript T-12468. Probably named after Mr. "Buster" Neil Grant who used to anchor a pile driver there (Louis-Wrangell).
- NOTE H: BIG CREEK (Sumner Strait, Red Bay: Lat.  $56^{\circ}15'38''N$ ; Long.  $133^{\circ}20'20''W$ .) Named on USGS quadrangle Petersburg (B-5) and GSPP-567 and Incomplete Manuscript T-12470. Name should be retained on stream as shown on T-12470. Chart 8168 shows "BIG CREEK" located between Red Lake and Red Bay. For corrections see RED BAY CREEK note below.
- LITTLE CREEK (Sumner Strait, Red Bay: Lat.  $56^{\circ}16'22''N$ ; Long.  $133^{\circ}20'50''W$ .) Correct as shown on USGS quadrangle Petersburg (B-5) and noted in GSPP-567 and Incomplete Manuscript T-12470. Chart 8168 shows "LITTLE CREEK" incorrectly. The chart should be revised according to the manuscripts.
- RED BAY CREEK (Sumner Strait, Red Bay: Lat.  $56^{\circ}15'45''N$ ; Long.  $133^{\circ}19'45''W$ .) Local name given to the creek that joins Red Lake and Red Bay (Woolery, Louis & Coulter - Port Protection and Wrangell). As many local fisherman use this name, it is suggested that it be used on chart 8168 and T-13375.

NOTE I: DOUGLAS(S) BAY (Sumner Strait: Lat.  $56^{\circ}28'N$ ;  
Long.  $133^{\circ}17'W$ .) Correct as named. USGS  
quadrangle Petersburg (B-4) gives a spelling  
of DOUGLAS. NOS chart 8160 gives a spelling  
of DOUGLASS. GPSS-567 notes both spellings.  
For the correct spelling consult USC&GS chart  
706.

NOTE J: TOTEM POINT (Sumner Strait: Lat.  $56^{\circ}27'10"N$ ;  
Long.  $133^{\circ}26'00"W$ .) Shown on USGS quadrangle  
Petersburg (B-5) and Incomplete Manuscript  
T-13340. This name could not be verified by  
those interviewed. It is recommended that the  
name be retained as shown.

Names that could not be verified in interviews have not been  
underlined or noted and are assumed correct. The charted names  
on NOS charts 8174 and 8201 are used and accepted by the local  
fisherman and mariners except as noted.

Respectfully submitted,

*Howard W. Herz*  
Howard W. Herz  
Lt(jg) NOAA

Approved,

*Gerald C. Saladin*  
Gerald C. Saladin  
CDR. NOAA  
Commanding Officer  
NOAA Ship DAVIDSON

# LANDMARKS AND AIDS TO NAVIGATION

## LANDMARKS

No landmarks exist within the area covered by OPR-448.

## NON-FLOATING AIDS TO NAVIGATION

The non-floating aids to navigation listed on Form 567 are recommended as landmarks useful for navigational purposes. They should be continued on charts 8160 and 8201 using the geographic positions listed on Form 567.

## FLOATING AIDS TO NAVIGATION

The following floating aids to navigation were located within the limits of OPR-448, 1971. Positions were determined by sextant fixes using second order triangulation signals. Geographic positions were computed and compared with those given in Light list Volume III Pacific Coast and Pacific Islands.

| <u>#</u> |                                    | <u>C&amp;GS</u>                         | <u>CG</u>                   |
|----------|------------------------------------|---|-----------------------------|
| ----     | Five Fathom Shoal Buoy             | 56° 21' 56.403"N✓<br>133° 13' 58.899"W✓ | -----                       |
| 3008     | McArthur Reef Lighted<br>Bell Buoy | 56° 23' 39.21"N✓<br>133° 10' 33.28"W✓   | -----                       |
| 3008.50  | Mitchell Point Lighted<br>Buoy 7   | 56° 25' 19.48"N✓<br>133° 11' 11.37"W✓   | 56° 25.5'N✓<br>133° 10.6'W✓ |
| 3010     | Level Island Lighted<br>Buoy 9     | 56° 27' 7.24"N✓<br>133° 02' 29.89"W✓    | 56° 27.1'N✓<br>133° 02.5'W✓ |

Respectfully submitted,

*Howard W. Herz*  
Howard W. Herz  
LTJG. NOAA

Approved,

*Gerald C. Saladin*  
Gerald C. Saladin  
CDR. NOAA  
Commanding Officer  
NOAA Ship DAVIDSON

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

STRIKE OUT TWO

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

CDR Gerald C. Sakdin

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

FORM C&amp;GS-504

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEYFIELD EDIT  
DESCRIPTIVE REPORTS

Type of Survey FIELD EDIT

T-13376-78 &amp;

Field No. n/a Office No. T-12462-65

## LOCALITY

State ALASKA

General locality SOUTHEAST

Locality SUMNER STRAIT

19 75

## CHIEF OF PARTY

CDR M. H. FLEMING, NOAA

## LIBRARY &amp; ARCHIVES

DATE



## FIELD EDIT REPORTS

T-13376 through T-13378  
and  
T-12462 through T-12465

SUMNER STRAIT, ALASKA

OPR-448-DA-75

NOAA SHIP DAVIDSON

CDR. M.H. FLEMING

Chief of Party

## INTRODUCTION

In compliance with Change No. 2 (dated 7/2/75) to project instructions OPR-448-DA-75, field edit was completed on seven class III, partially field-edited manuscripts. They are T-13376 through T-13378 and T-12462 through T-12465. Field edit of these sheets was supposedly done in 1971, but data was lost in transmittal. In most cases the entire sheet was reedited. Due to few available photographs, the Chronopaque office photo had to be used in a few instances. Where this was required, due care was taken not to obliterate the referenced feature.

## CONTROL

Position control for all these sheets was by means of the Motorola MINIRANGER III system. Three, independent, calibrated rates were obtained for each fix to assure its validity. The MINIRANGER systems used were calibrated on a known baseline on September 15, 1975. Correctors obtained during this calibration are tabulated on the appended position abstract for each sheet report. Field positions are self-checking and methods used are described in each report.

The HYDROPLOT system was used to produce detached position overlays (COMLOT sheets) for each sheet where detached positions were taken. Analytically computed geodetic positions are accurate and may be used directly in application of this field edit. Lattices plotted on these overlays are labeled per PROVISIONAL HYDRO MANUAL specifications.

## MISCELLANEOUS

76-40 forms were submitted with 1971 field edit and are not again submitted. See R2923208 SEPT 75 CPM radio message appended.

One master signal tape is included for all sheets. The printout is appended. Separate HYDROPLOT Parameter, Master, and Corrector tapes were made for each sheet where fixes were required.

Separate Field Edit Reports for each sheet follow.

## SEPARATES FOLLOWING FIELD EDIT REPORTS:

Index of Field Edit Sheets  
Combined Tides Requirements Form  
R292320 Sept 75 CPM Radio Message

FIELD EDIT REPORT

TP-13376

POINT COLPOYS

OPR 448

SUMNER STRAIT, AK.

NOAA SHIP DAVIDSON

CDR M. H. FLEMING, COMMANDING

-1975-

(51 METHODS)

Field Edit on TP-13376 was accomplished under project instructions OPR-448-DA-75 Change No. 2 dated 7 July 1975 as per Change No. 4-75 PMC OPORDER.

OPORDER procedures for field edit with HYDROPLOT support, not in conjunction with hydrography were used.

A Field Edit Sheet, field photograph 69E2012(c), and office photograph 69K3726R were taken into the field to investigate and identify features.

This manuscript was partially field edited earlier and data lost. Few photos necessitated using the office photograph. Care was exercised not to obliterate images on the photo. Features were circled rather than pricked.

The Field Edit investigation was performed on September 10, 1975 from a small skiff equipped with Motorola MINIRANGER equipment (Console s/n 716 and R/T s/n 709) at low tide.

Fixes were controlled electronically with Motorola MINIRANGER III. Fixes were plotted in the field. Where fixes confirmed photogrammetric compilation, no fix data was recorded. Fixes were recorded when locating new features or revising mapped features.

Where fixes were required, three independent, calibrated MINIRANGER rates were observed and recorded along with feature data on the appended abstracts.

The abstracts were processed as follows:

1. When the field editor took a fix, he radioed data to the ship. Program RK300 function 10 (electronic rates to electronic rates) was used to immediately compute the true third rate from two field rates corrected for calibration errors. The computed third rate was then compared to the observed third rate to assure an

accurate fix had been obtained. If the fix was acceptable, the field editor moved on. The results of this computation are recorded on the abstracts in red ink directly below each observed rate.

2. The pair of rates yielding the strongest fix was then circled and logged on the HYDROPLOT MASTER Detached Position tape for plotting. Also, RK300 function 3 (electronic rates to xy and gp) was invoked to compute the geodetic position of the fix. G.P.'s obtained were recorded with the feature description on the abstract.

3. RK211 (R/R position and sounding plot) was used to plot logged fixes on the FIELD EDIT OVERLAY. Paper overlays were produced instead of the recommended mylar overlay due to the cost of mylar, the fact that a G.P. was computed and tabulated for each position, and the small number of fixes involved.

All fixes meet NOS position accuracy requirements as defined in section 1.1.2 of the Provisional Hydrographic Manual. The tabulated position may be accepted as verified.

All original data was recorded on the field sheet at the time of investigation by the Field Editor.

All times are referenced to GMT(Z).

A tide gage was installed at Little Level Island to provide tides data. This gage was not required in project instructions, but should assist in refining tides for these sheets.

Deletions, additions, and verified features are noted on the Field Edit Ozalid. Only the additions and verified features are noted on the photograph.

Field Edit Notes are on field photograph 69E2012(c).

As per instructions on the Field Edit Ozalid, the ink colors used do not follow standard rules. The ink colors used are as follows:

| <u>INK COLOR</u> | <u>USE</u>                    |
|------------------|-------------------------------|
| black            | verified features             |
| green            | deletions                     |
| red              | revisions and 1975 field edit |
| violet           | 1971 field edit               |

(52 ADEQUACY OF COMPILATION)

The map compilation is adequate and complete for charting with this field edit applied.

(53 MAP ACCURACY)

The shoreline, foreshore, and offshore features were found to be very accurate. Dense kelp, however, was mistaken for rocks on a number of occasions.

(54 RECOMMENDATIONS)

This manuscript should be considered complete with corrections compiled from this field edit.

(56 MISCELLANEOUS)

No Forms 76-40 were provided for this manuscript.

Field sheets were constructed, and MINIRANGER lattices applied, using HYDROPLOT software program RK201 (Grid, Signal, and Lattice Plot, version 8/16/74).

MINIRANGER fixes were computed with program RK300 (Utility Computations, version 5/22/75).

MINIRANGER fixes were plotted with program RK211 (R/R Position and Sounding Plot, version 8/16/74).

Submitted,

*James D. Sarb*

James D. Sarb  
LTJG, NOAA

Approved and Forwarded,

*M. H. Fleming*

M. H. Fleming  
CDR, NOAA  
Chief of Party

T-13376 VESSEL 3138 DAY 253

CONSOLE sn 716 R/T sn 709

CODE:

CORR:

STA:

| FIX | GMT  | FEATURE  | LEFT             | RIGHT            | LEFT                      | RIGHT            | RIGHT |
|-----|------|--|------------------|------------------|---------------------------|------------------|-------|
| 1   | 1711 | South limits of foul area (kelp and rocks)<br>around island<br>analytically $\phi = 56^{\circ} 19' 58.45'' N$<br>completed g.p.: $\lambda = 133^{\circ} 12' 35.31'' W$ | 7183'<br>7182'   | 12423'<br>12419' | 7183'<br>7182'            | 16893'<br>16893' | 1     |
| 2   | 1726 | ledge uncor 6 ft - west side<br>$\phi = 56^{\circ} 19' 42.56'' N$<br>$\lambda = 133^{\circ} 13' 00.41'' W$   | 7375'<br>7374'   | 12920'<br>12918' | 7375'<br>7374'            | 17545'<br>17545' | 1     |
| 3   | 1742 | Seaward extent of ledge and kelp<br>uncor 6 ft<br>$\phi = 56^{\circ} 19' 36.01'' N$<br>$\lambda = 133^{\circ} 13' 23.870'' W$  | 7370'<br>7369'   | 13144'<br>13140' | 7370'<br>7369'            | 17973'<br>17973' | 1     |
| 4   | 1800 | kelp limits<br>unhooked D.P.<br>$\phi = 56^{\circ} 19' 54.80'' N$<br>$\lambda = 133^{\circ} 15' 35.06'' W$   | 6730'<br>6729'   | 12907'<br>12908' | none<br>code not received | 2<br>+5          | 149   |
| 5   | 1923 | piling uncovered 1 ft<br>$\phi = 56^{\circ} 19' 56.44'' N$<br>$\lambda = 133^{\circ} 11' 11.55'' W$  | 12561'<br>12562' | 15946'<br>15940' | 12561'<br>12562'          | 7569'<br>7574'   | 149   |

CODE:                     
CORR:                     
STA:                   

VESSEL 3131 DAY 254

DAY 254

| CONSOLE | s/n | R/T | s/n |
|---------|-----|-----|-----|
|         | 710 |     | 719 |

$$R/T \quad s/n$$

770

|     |     |
|-----|-----|
| FIX | GMT |
|-----|-----|

## FEATURE

6 2147

Piling uncor- 1.5 ft.

$\phi = 56^{\circ} 19' 23.55'' N$

$$\lambda = 133^\circ 10' 12.14'' W$$
$$\lambda = 133^\circ 10' 12.14'' W$$

11

COPIES:

1

CORR:

ALS

1437

RIGHT

✓ LFT ✓

RG-T ✓

16082

13720

66142

16079-

13718'

6/15

122

14h



FUNCTION = 3

ELECTRONIC STATIONS(S1,M,S2)= 4,0,2

PATTERN 1= 15749

PATTERN 2= 3118

X = 14146.592

Y = 7363.394

LATITUDE = 56/18/55.051

LONGITUDE= 133/06/20.406

PATTERN 1= 15840

PATTERN 2= 3178

X = 14143.798

Y = 7262.770

LATITUDE = 56/18/51.797

LONGITUDE= 133/06/20.546

ELECTRONIC STATIONS(S1,M,S2)= 3,0,2

PATTERN 1= 13311

PATTERN 2= 3168

X = 14050.571

Y = 7418.334

LATITUDE = 56/18/56.815

LONGITUDE= 133/06/26.005

ELECTRONIC STATIONS(S1,M,S2)= 4,0,2

PATTERN 1= 14096

PATTERN 2= 3161

X = 13569.205

Y = 8915.718

LATITUDE = 56/19/45.164

LONGITUDE= 133/06/54.364

PATTERN 1= 13838

PATTERN 2= 5418

X = 11353.388

Y = 8401.417

LATITUDE = 56/19/28.225

LONGITUDE= 133/09/03.170

T-13377

RK 300

ELEC → XYGP

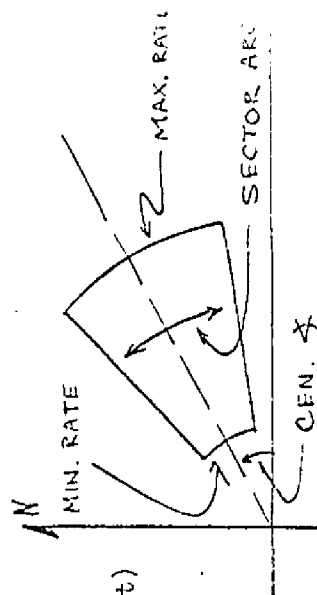
Requested by

Date Required:

| Station Numbers |           | R-R Sector Description for Plotting |             |               |               | Pen Color   | Plot Lattice On Overlays |
|-----------------|-----------|-------------------------------------|-------------|---------------|---------------|-------------|--------------------------|
| STA 1           | STA 2     | CEN. $\angle$                       | SECTOR ARC° | MIN RATE      | MAX RATE      |             |                          |
| 001             | CODE 1    |                                     | 215-240     | 13000         | 19000         | GRN         |                          |
| 002             | CODE 2    |                                     | 255-280     | 7000          | 9,000 ✓       | BLUE        |                          |
| 003             | CODE 3    |                                     | 120, 170    | 3,000         | 7,000 ✓       | RED         |                          |
| 004             | CODE 4    |                                     | 165, 200    | 9000          | 13,000 ✓      | BLACK       |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
|                 |           |                                     |             |               |               |             |                          |
| I3<br>1-3       | I3<br>5-7 | I3<br>22-24                         | I3<br>26-28 | F8.2<br>30-37 | F8.2<br>39-46 | A3<br>48-50 | For EDP Use Only         |

STA 2 will be blank for R/R; slave if Hyperbolic

CEN.  $\star$  Central angle of R-R sector to be plotted (in degrees CGW from East)  
SECTOR ARC° degrees of R-R arc sector to be plotted (blank implies 360°)  
MIN RATE to be plotted to two decimals (blank implies 0)  
MAX RATE to be plotted to two decimals (blank implies infinity)



[illegible]

## REVIEW REPORT

T-13376

## SHORELINE

October 16, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report. A small kelp area, identified by the field editor, in the western part of California Bay was added to the map during final review.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with Registered Survey No. 1749. Differences are attributable to time and advancements in survey equipment, processes and techniques.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS Quadrangle, Petersburg (B-4) Alaska.

There is a difference in the size, configuration and number of small islands shown off Point Colpoys. Delineation of this area on the map was verified by the field editor. The small island shown on the west side of California Bay on the quadrangle was determined by the field editor to be a rock awash at mean high water.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Registered Smooth Sheets H-9220 (DA-10-8-71) and H-9269 (DA-10-1-72).

A small cove at lat.  $56^{\circ}19.5'$ , long.  $133^{\circ}14.9'$  is labeled sand on the smooth sheet. That area was characterized as mud by the field editor. The label "mud" was deleted from the map to avoid conflict with the smooth sheet.

A rock shown on the smooth sheet at lat.  $56^{\circ}19.7'$ , long.  $133^{\circ}14.1'$  is not shown on the map. A rock was shown at that position on the Class III Map but was deleted in accordance with the field editors recommendation. Two small areas of kelp shown on the map in that same vicinity are not shown on the smooth sheet.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 17382, 1:80,000 scale; 11th edition dated March 26, 1977.

The chart shows two piles and a submerged rock in California Bay which are not visible on the photographs and are not shown on the map. Piles shown on the map at lat.  $56^{\circ}19.9'$ , long.  $133^{\circ}11.2'$  and lat.  $56^{\circ}19.4'$ , long.  $133^{\circ}10.2'$  and two reefs in the cove south of Bay Point are not shown on the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

*Arnold L. Shands*

A. L. Shands

Final Reviewer, AMC

Approved for forwarding:

*Bell H. Barnes*

B. H. Barnes

Chif, Photogrammetric Branch, AMC

Approved: *HW*

*John D. Perraw Jr.*

Chief, Photogrammetric Branch

*Walter H. Shands*

Chief, Photogrammetry Division

ATLANTIC MARINE CENTER  
439 West York Street  
Norfolk, VA 23510

December 11, 1979

TO: Chief, Hydrographic Surveys Division  
C35  
*A. L. Shands*  
FROM: A. L. Shands  
Final Reviewer, AMC  
SUBJECT: Changes made to Class I Maps during Final Review

The following is a list of changes made to Class I Maps which affect contemporary hydrographic surveys of the area of Sumner Strait, Alaska.

T-13340

1. The shoreline at Totem Point was revised to more accurately reflect the field editors recommendation and the photographic evidence.
2. The large reef WSW of Totem Point was deleted from the map to avoid conflict with that shown on the smooth sheet. The depiction on the smooth sheet more closely resembles images on the photographs.
3. Several unlabeled areas enclosed with dashed lines are shown on the Class I Map in the cove area west of Totem Point. These were labeled "Kelp" during final.

T-13341

1. Position of reef 2 miles N.E. of Shingle Island was revised to agree with photo position. Field editors identification of this feature on ratio photo 69E(C)2038 is in obvious error. See ratio photo 67E(C)577; stage of tide = -0.2 ft.



2. A 4 ft. rock elevation at lat.  $56^{\circ}29.6'$ , long.  $133^{\circ}22.8'$  was deleted from the map to avoid conflict with the smooth sheet which shows a 2 ft. elevation on that same rock.

## T-13376

1. It appears that something other than a Class I copy was the source of shoreline for H-9220. None of the field edit changes and additions are shown.
2. A small kelp area at lat.  $56^{\circ}19.7'$ , long.  $133^{\circ}14.1'$  recommended by the field editor was added to the map during final review.

## T-13378

1. The elevation of several rocks and ledges near station MARE 2, 1915 were changed to agree with the field edit notes in that area.
2. A ledge area north of station MARE 2, 1915 was extended northward as recommended by the field editor on ratio 69E(C)2002.

## T-12465

1. Several enclosed dashed lines shown on the Class I Map labeled "Rf" were relabeled "submerged reef" during final review.
2. At lat.  $56^{\circ}23.7'$ , long.  $133^{\circ}01.7'$  an enclosed dashed line was labeled "Rf" on the Class I Map. Close examination of the photography reveals this feature to be well above the sounding datum. It is now shown with a reef awash symbol.
3. The unlabeled feature shown on the Class I Map at lat.  $56^{\circ}22.2'$ , long.  $133^{\circ}02.7'$  was determined to be two small buildings on a platform. It has been labeled "Bldgs on platform" on the final map.

None of the above features are shown on the registered copy of H-9269 forwarded to this office.

PH-6909

Sumner Strait, Alaska

Project Materials on File

NOS Archives

- 1 Stable base registered copy of each of 29 maps
- 1 Descriptive report for each of 29 maps

Federal Records Center

- 1 Job completion report
- 3 Forms 504 containing original field edit reports
- 1 Form 251, Horizontal Directions
- 13 Forms 152, CSI
- 5 Sets of parameter tapes and printouts
  - Computer printouts of photogrammetric bridge
- 1 Form 76-40
- 1 Positive overlay each of T-12464, T-12465, and T-13376 thru T-13378
- 1 Each ratio (conopaque) photo - 69E(C) 560-567, 576, 577, 579, 2001-2004, 2010, 2012, 2026, 2030-2032, 2035, 2036, 2038, 2040-2043, 2047-2050, 2057, 2058, 2061, and 2062; 69K(I) 3724, 3735, 3736, 3738, 3739, and 3746; 69E(C) 983-990, 997, 999, 999A, 999B, 1000, 1010, 1021, 1026-1028
- 1 Each matte 69K(I) 3735, 3736, 69E(C) 985, 987-990, 999, 999A, 999B, and 1000

19 FIELD EDIT OLALIDS