

T-12722 <sup>THRU</sup> 12724

T-12722  
THRU  
T-12724

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Form 504                            |                                       |
| U. S. DEPARTMENT OF COMMERCE        |                                       |
| COAST AND GEODETIC SURVEY           |                                       |
| DESCRIPTIVE REPORT                  |                                       |
| PH-64/2                             |                                       |
| Type of Survey                      | Shoreline                             |
| Field No.                           | T-12722, 12723,<br>Office No. & 12724 |
| LOCALITY                            |                                       |
| State                               | Alaska                                |
| General locality                    | Resurrection Bay                      |
| Locality                            | Seward                                |
| 1964-1965                           |                                       |
| CHIEF OF PARTY                      |                                       |
| J. B. Watkins, Chief of Party       |                                       |
| Div. of Photogrammetry, Wash., D.C. |                                       |
| LIBRARY & ARCHIVES                  |                                       |
| DATE                                |                                       |

Seward, Alaska

FORM C&GS-181a  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

T-- 12722, 23, 24; 12672, 73

|                                                                                                                                                                                                                                                 |        |                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT NO. (II):                                                                                                                                                                                                                               |        |                                                                                                                                                                                           |
| PH-6412 21423(5)                                                                                                                                                                                                                                |        |                                                                                                                                                                                           |
| FIELD OFFICE (III):                                                                                                                                                                                                                             |        | CHIEF OF PARTY                                                                                                                                                                            |
|                                                                                                                                                                                                                                                 |        | J. B. Watkins                                                                                                                                                                             |
| PHOTOGRAMMETRIC OFFICE (III):                                                                                                                                                                                                                   |        | OFFICER-IN-CHARGE                                                                                                                                                                         |
| Washington, D. C.                                                                                                                                                                                                                               |        | J. E. Waugh                                                                                                                                                                               |
| INSTRUCTIONS DATED (II) (III):                                                                                                                                                                                                                  |        |                                                                                                                                                                                           |
| 29 Sept., 1965, Smooth Sheet Compilation,<br>PH-6412, Seward, Alaska.                                                                                                                                                                           |        |                                                                                                                                                                                           |
| METHOD OF COMPILATION (III):                                                                                                                                                                                                                    |        |                                                                                                                                                                                           |
| Stereoplotter, B-8                                                                                                                                                                                                                              |        |                                                                                                                                                                                           |
| MANUSCRIPT SCALE (III):                                                                                                                                                                                                                         |        | STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):                                                                                                                                             |
| 1:5,000 = T-12722, 23, 24<br>1:10,000 = T-12672, 73                                                                                                                                                                                             |        | Same as manuscript scale                                                                                                                                                                  |
| DATE RECEIVED IN WASHINGTON OFFICE (IV):                                                                                                                                                                                                        |        | DATE REPORTED TO NAUTICAL CHART BRANCH (IV):                                                                                                                                              |
|                                                                                                                                                                                                                                                 |        |                                                                                                                                                                                           |
| APPLIED TO CHART NO.                                                                                                                                                                                                                            | DATE:  | DATE REGISTERED (IV):                                                                                                                                                                     |
|                                                                                                                                                                                                                                                 |        | 23 MAR 78                                                                                                                                                                                 |
| GEOGRAPHIC DATUM (III):                                                                                                                                                                                                                         |        | VERTICAL DATUM (III):                                                                                                                                                                     |
| NA-1927                                                                                                                                                                                                                                         |        | MEAN SEA LEVEL EXCEPT AS FOLLOWS:<br>Elevations shown as (25) refer to mean high water<br>Elevations shown as (5) refer to sounding datum<br>i.e., mean low water or mean lower low water |
| REFERENCE STATION (III):                                                                                                                                                                                                                        |        |                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                 |        |                                                                                                                                                                                           |
| LAT.:                                                                                                                                                                                                                                           | LONG.: | <input type="checkbox"/> ADJUSTED<br><input type="checkbox"/> UNADJUSTED                                                                                                                  |
| PLANE COORDINATES (IV):                                                                                                                                                                                                                         |        | STATE                                                                                                                                                                                     |
| = X =                                                                                                                                                                                                                                           |        | ZONE                                                                                                                                                                                      |
| ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,<br>OR (IV) WASHINGTON OFFICE.<br>WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY. |        |                                                                                                                                                                                           |

## DESCRIPTIVE REPORT - DATA RECORD

|                                                                                                                                                 |                                            |                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| FIELD INSPECTION BY (II):<br><br>J. B. Watkins                                                                                                  |                                            | DATE:<br>9/16/65<br>5/7/65                                                                                |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):<br><br>Date of photography (1965 infrared for Seward) and Field Inspection. |                                            |                                                                                                           |
| PROJECTION AND GRIDS RULED BY (IV):<br><br>A. E. Roundtree                                                                                      |                                            | DATE<br>9/28/65                                                                                           |
| PROJECTION AND GRIDS CHECKED BY (IV):<br><br>R. Glaser                                                                                          |                                            | DATE<br>9/29/65                                                                                           |
| CONTROL PLOTTED BY (III):<br><br>J. B. Phillips                                                                                                 |                                            | DATE<br>10/4/65                                                                                           |
| CONTROL CHECKED BY (III):<br><br>J. C. Richter                                                                                                  |                                            | DATE<br>10/4/64                                                                                           |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):                                                                                         |                                            | DATE                                                                                                      |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):                                                                                                      | PLANIMETRY J. B. Phillips<br>J. C. Richter | DATE 10/4/65 thru<br>10/19/65                                                                             |
|                                                                                                                                                 | CONTOURS                                   | DATE                                                                                                      |
| MANUSCRIPT DELINEATED BY (III):<br>T-12672 - J.C. Richter<br>T-12673 - M. Webber                                                                |                                            | T-12722 - J.B. Phillips<br>T-12723 - J.P. Battley<br>T-12724 - M. Webber<br>DATE 10/7/65 thru<br>10/23/65 |
| SCRIBING BY (III):                                                                                                                              |                                            | DATE                                                                                                      |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):                                                                                                         |                                            | DATE                                                                                                      |
| REMARKS:                                                                                                                                        |                                            |                                                                                                           |

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-8, 6-inch focal length

## PHOTOGRAPHS (III)

| NUMBER              | DATE       | TIME          | SCALE    | STAGE OF TIDE   |
|---------------------|------------|---------------|----------|-----------------|
| 4 64-S-7795 - 7800  | 29 Aug. 64 | 9:36 - 9:38   | 1:15,000 | 1.6' above MLLW |
| 3 64-S-7843 - 7848  | "          | 10:08 - 10:10 | 1:15,000 | 1.6' " "        |
| 2 64-S-7890 - 7899  | "          | 10:36 - 10:38 | 1:15,000 | 1.6' " "        |
| 11 64-S-7865 - 7880 | "          | 10:30 - 10:32 | 1:15,000 | 1.6' " "        |
| 65-L-5511 - 5515    | 6 Aug. 65  | 10:26         | 1:10,000 | 5.7' " "        |

## TIDE (III)

Diurnal

|                                                             |            | RATIO OF RANGES     | MEAN RANGE | EXTREME RANGE |
|-------------------------------------------------------------|------------|---------------------|------------|---------------|
| REFERENCE STATION: Cordova, Alaska                          |            |                     |            |               |
| BORDINATE STATION: Seward, Resurrection Bay                 |            |                     | 8.3        | 10.6          |
| SUBORDINATE STATION:                                        |            |                     |            |               |
| WASHINGTON OFFICE REVIEW BY (IV): J. B. Phillips            |            | DATE: February 1978 |            |               |
| PROOF EDIT BY (IV):                                         |            | DATE:               |            |               |
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):         | RECOVERED: | IDENTIFIED:         |            |               |
| NUMBER OF BM(S) SEARCHED FOR (II):                          | RECOVERED: | IDENTIFIED          |            |               |
| NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):     |            |                     |            |               |
| NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): |            |                     |            |               |

## REMARKS:

Rock datum furnished by field inspection adjusted from actual hourly readings provided by Tides and Currents Branch.

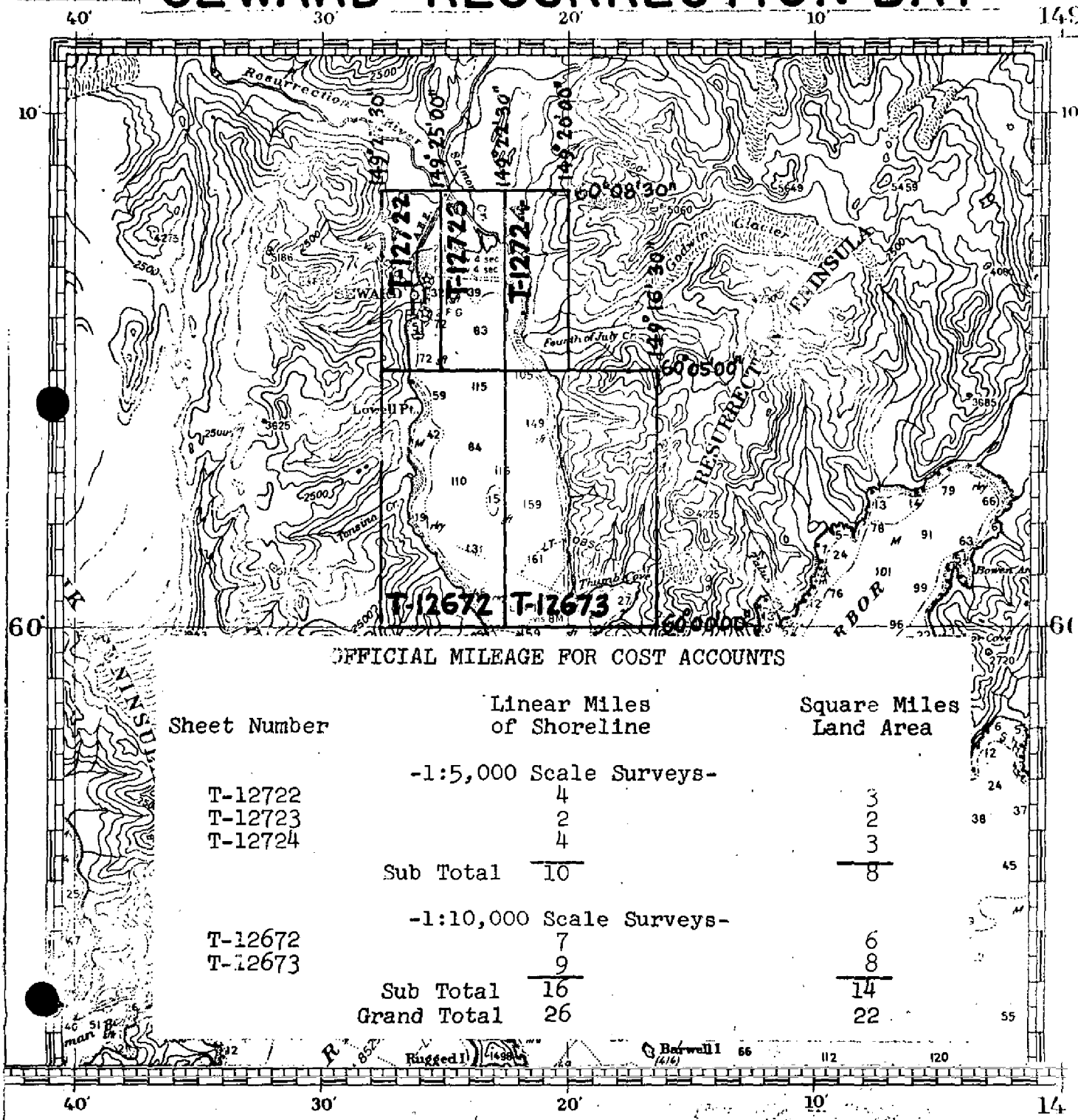
# PROJECT 21423 (5)

## SHORELINE MAPPING

1:5,000 - 1:10,000 SCALE

### ALASKA

### SEWARD-RESURRECTION BAY



Summary to Accompany Descriptive Report  
T-12722, T-12723, T-12724 and T-12672, T-12673

This series of five shoreline maps in Project PH-6412 covers Resurrection Bay, Alaska, from latitude  $61^{\circ}$  northward to its extremity. This includes the town of Seward. The field operations preceding compilation included shoreline and fore-shore field inspection, the recovery and establishment of horizontal control and field identification of hydrographic signal sites. Compilation was done entirely by Wild B-8 stereoplotter methods. The manuscripts are compiled at two different map scales. T-12722 through T-12724 are 1:5,000 scale and T-12672 and T-12673 are 1:10,000 scale. The Descriptive Report for the five maps of the two separate number sequences will be one combined report. One copy of the combined report will be filed under T-12722 through T-12724 and a duplicate copy will be filed under T-12672 and T-12673. The maps are not field edited. Some additional rock elevation data was provided on (1) near-shore rocks and (2) hydrographic signals during the 1965 season hydrographic operations. Extensive office-applied revision work was done in the Seward area from 1965 infrared photography. The maps will be registered without any additional field checks.

The Director

May 7, 1965

Commanding Officer, Ship HODGSON

Field Report, Shoreline Mapping - Seward, Resurrection Bay, Alaska  
Project 21423 (5)

Subject photo identification was accomplished during the week of May 3 through May 7. As per previous conversation and agreement with Chief, Operations Branch, Photogrammetry Division, the data is submitted at this time to allow re-compilation and provision of incomplete manuscripts to this vessel prior to hydrography. It is estimated that hydrography will begin about mid or late June.

Major difficulties encountered were weather and lost control. During the entire period strong winds, snow, sleet and rain prevailed. A number of the stations requested were not recoverable and substitutions were necessary (ref my telcon of 5/4/65, your TWX 051525Z, my TWX 060500Z).

Stations recovered as requested were:

Bayend  
Middle II  
Bluff

Substitutions were as follows:

Deacon 1964 - substituted for Brad II  
Seward 1964 - " " Slide  
Silver 1964 - " " Head

Station Mast 1965 was re-established in the vicinity of station Radio Tower #1 1927. Station Forth (temporary) was established in place of station Flat - 3. Station Mill (temporary) was established in place of Seward North Base (USE) (reference my TWX 051525Z).

It was not possible to recover and identify station Bill or Bill 2 (USE), however a U.S. Engineers mark, unstamped, was recovered in this vicinity and a single triangle was observed to place a position on this mark. (ref. your TWX 051525Z)

Station Caines Head Light and station Turn were not identifiable per-se. A short base was layed approx  $\frac{1}{2}$  mile north and a sub point was baselined from station Thumb Cove Light (USE).

Time did not permit the computations of positions, however triangles were computed for necessary side checks and lengths. Side check at sub point for station Turn was admittedly weak, however due to inclement weather it is felt that this will suffice. Re-observation would cost at least 2 to 3 days.

All photographs, cronflex, etc. are submitted for re-compilation of topographic sheets and returned to this ship prior to hydrography as per paragraph 1 above.

Respectfully submitted,

John B. Watkins Jr.  
CDR, USCGC  
Comdg., Ship HODGSON

UNITED STATES GOVERNMENT

# Memorandum

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

6320

Mr. Heywood

631

TO : Chief, Photogrammetry Division

DATE: September 16, 1965

In reply refer to:

FROM : Commanding Officer  
USC&GSS HODGSON

SUBJECT: Project 21423(5), Resurrection Bay, Photo Hydro signals

As per our telcon of September 15, there was forwarded this date the preliminary manuscripts, photo hydro photos, ozalids and other pertinent data pertaining to subject project.

The rock heights requested on the notes to the hydrographer have been noted on the ozalids, giving height above water, date and time. Tidal datum data will have to be obtained from the Washington office since this information was not available in the field.

In addition to the signals originally selected and shown on the preliminary manuscripts, certain other signals were selected. These are shown in red on the photo hydro photographs. It is requested that all be shown on the final manuscripts. Additionally it would be desirable to show the following triangulation stations or provide their geodetic position.

|                |             |
|----------------|-------------|
| BAYEND         | 1964        |
| -FORTH (temp.) | 1965        |
| -MIDDLE 2      | 1927 & 1965 |
| BLUFF          | 1905 & 1965 |

65L5510-15  
070 2X ON NOTE  
FOR 9/30/65

You will note that the area to the north of the city of Seward in the NW corner of the bay has been indicated in red on the photos as being an area of construction and substantially changed. It is my understanding that the air photo mission obtained a stereo-triplet of this area in early July. Consequently I would like to suggest that these photographs be used in the plot, if possible, to show the area as it actually exists now.

There will be more changes in that area during the winter due to more construction and it will doubtless be necessary to make further additions to the maps next summer. These will however be minor and can probably be accomplished by returning the 1965 photos to the field for a field inspection and edit.

Priority for the need of these manuscripts is as follows.

1. T-12722, 12723, 12724 ( 1/5000)
2. T-12672, 12673 ( 1/10,000)

Al, please instruct compilers to comply with this request. We should push job.

BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN



During the accomplishment of hydrography a number of the signals shown only on the 5,000 manuscripts were needed and used on the 10,000 boat sheet. It is therefore desirable that the completed 5,000 manuscripts be provided at both scales for signal and shoreline needs.

*John B. Watkins*  
John B. Watkins, Jr.

Resurrection Bay, Alaska  
PH-21423(5)

Photogrammetric Plot Report  
September 22, 1965

21. Area Covered

The area of horizontal control extension in this operation covers Resurrection Bay as far southward as the 60th parallel.

22. Method

Four strips of photography were bridged by stereoplanigraph methods. All strips were adjusted by 1620 methods.

Strip 1 was adjusted using 4 control points; Strip 2, using 3 control points; Strip 3, using 3 control points and Strip 4, using 3 control points. Tie points were meaned. All bridge points were drilled in the emulsion of the diapositives.

23. Adequacy of Control

Distribution of control tended to be heavy at the northern portion of the strips with Strip 3 not balanced as well as it might have been. It was, however, satisfactory.

A shift in ground control station positions on the eastern side of the bay was not detected in field work on control identification and/or establishment. This shift was due to an earthquake in this vicinity. Using the erroneous ground control station positions resulted in lack of fit in the adjustment of Strip 1. After additional field work was performed to investigate this movement, Strips 1 and 4 were adjusted so that virtually every control station had an adjustment error no greater than  $\pm 2$  feet. One exception to this close scheme fit was Bill 3, Substitute Station "C" which was a difficult point to office identify.

The bridges all meet the pertaining standards of the National Standards of Map Accuracy.

24. Supplemental Data

U.S.G.S. Quad. Seward (A-7), Alaska, 1951 Edition. Scale 1:63,360 was used to establish vertical control points where necessary.

25. Photography

Photography was adequate in coverage, overlap and definition.

26. Plotting Coordinates

Plotting coordinates are furnished at 1:5,000 and 1:10,000 where required.

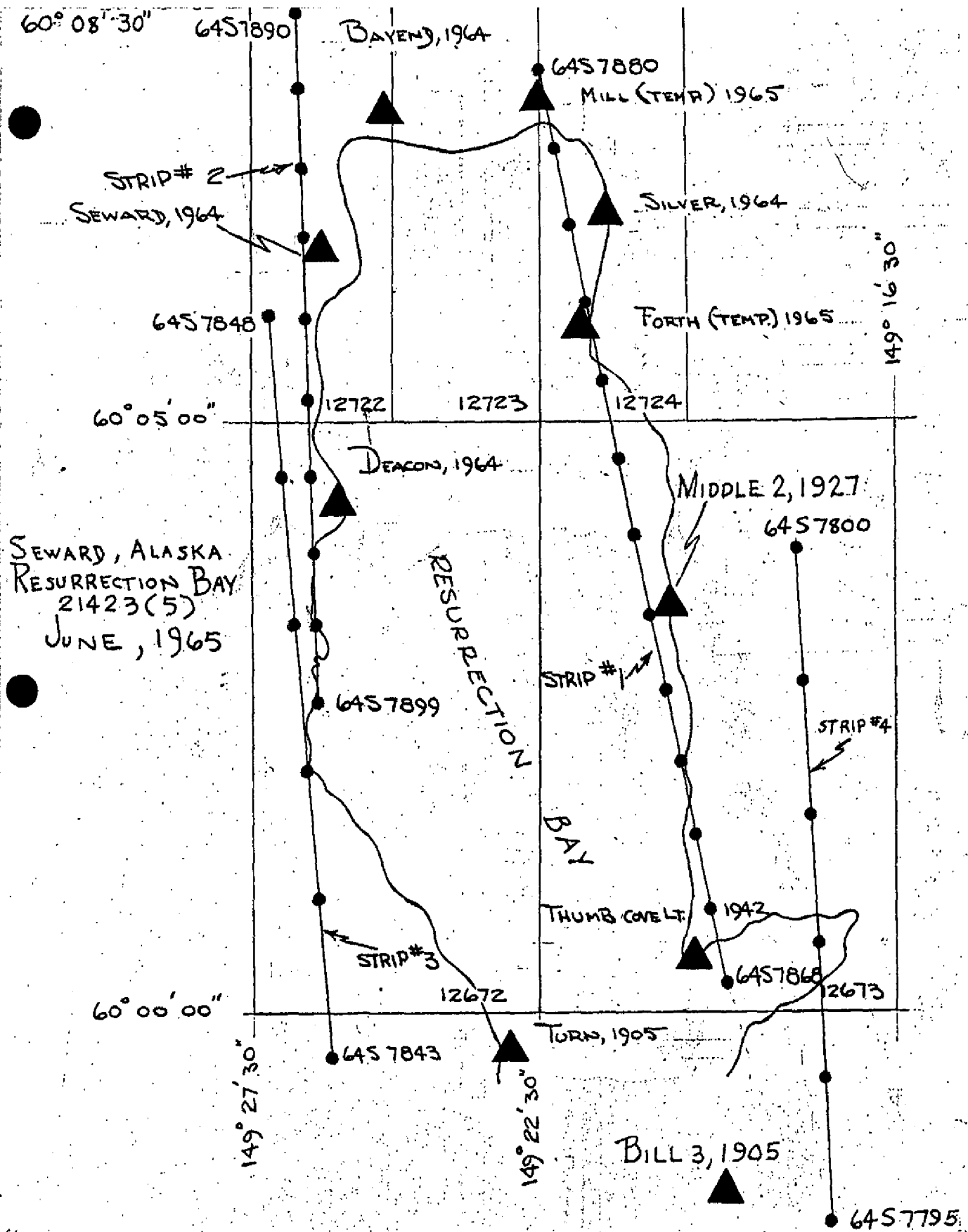
27 through 30 - not applicable

Submitted by:

*Wallace Heinbaugh*  
Wallace Heinbaugh

Approved by:

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



Photogrammetric Plot Sketch  
PH-6412

Compilation Report  
T-12722, T-12723, T-12724,  
T-12672, T-12673  
October 1965

31. Delineation

Instrument methods, B-8 stereoplotter, were used to delineate the five manuscripts. Individual work sheets for each model were compiled and these work sheets were transferred in ink to their respective map manuscripts. The field inspection of shoreline was not complete but was sufficiently adequate to provide a basis for compiling the areas not having a field provided mean high water line.

The area of Seward was compiled from 1965L photography using photographs 65-L-5512 through 5514. No field inspection was available. Large changes have occurred along the Seward waterfront with the building of installations, boat basins, etc., since the date of the August 1964 photography.

32. Control

Refer to Photogrammetric Plot Report, Resurrection Bay, Alaska, PH-6412, 21423(5), September 22, 1965.

33. Supplemental Data

None

34. Contours and Drainage

Not applicable

35. Shoreline and Alongshore Details

Shoreline inspection was adequate as noted under paragraph 31. The shoreline, waterfront structures and other details shown in the Seward area are based on office interpretation of the later 1965 infrared photography. T-12723 consists almost entirely of a low marshy shoreline fronted by extensive mud flats. This type of shoreline, ordinarily difficult to delineate without complete field inspection, was done successfully on the B-8 plotter since the vertical datum of the shoreline could be maintained relatively accurately. This same situation occurs on T-12724 in the delta area of Fourth of July Creek.

Approximate low water lines were delineated from office interpretation of the photographs.

36. Offshore Details

No unusual problems were encountered in compiling a limited number of offshore features. These features were primarily individual rocks some of which were provided with field determined heights above water and reduced to proper datum during compilation (see 181C of Data Record, Remarks).

37. Landmarks and Aids

Forms 567 have not been submitted. There are no landmarks or aids to navigation.

38. Control for Future Surveys

Forms 524 have not been submitted. There are no recoverable topographic stations.

Paragraph 49 lists the photo-hydro stations by T-sheet numbers. Signal number 2202, on T-12722, has been destroyed due to construction work.

39. Junctions

All junctions between adjoining maps are in agreement. Refer to project sketch for map layout.

40. Horizontal and Vertical Accuracy

See paragraph 32 for reference.

41. through 45.

Not applicable

42. Comparison with Existing Maps

The map manuscripts have been compared with U.S.G.S. Seward (A-7), Alaska quadrangle map, scale 1:63,360, dated 1951.

47. Comparison with Nautical Charts

The map manuscripts were compared with Nautical Chart 8529, scale 1:81,847, 5th Edition, corrected to December 4, 1964. The chart includes a 1:10,000 scale inset of Seward.

The revised chart section attached to the Seward inset covers, in general, the changes that have occurred there and is in approximate agreement with the detail as it occurs on the 1965 photography. Construction is still in progress and a final comparison cannot be made with the chart.

Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: None

Submitted by:

J. B. Phillips  
J. B. Phillips

Approved by:

K. N. Maki  
K. N. Maki  
Chief, Compilation Section

# NOTES TO HYDROGRAPHER

PROJECT 21423(5) SEWARD, ALASKA

SHEET T-12672

THE HEIGHTS OF ROCKS, LISTED BELOW, ARE NEEDED FOR MAPPING PURPOSES. THE POSITIONS AS LISTED WERE SCALED FROM PRELIMINARY MANUSCRIPTS. NO OTHER OFFSHORE OBJECTS REQUIRING INVESTIGATION BY THE HYDROGRAPHIC PARTY WERE NOTED.

## ROCKS

|                  |                      |                          |
|------------------|----------------------|--------------------------|
| LAT. 60° 03' 55" | LONG. 149° 26' 25" ✓ | Bare 16' @ 1523, 8/27/65 |
| 60° 02' 45"      | 149° 26' 20" ✓       | Covered at MHW           |
| 60° 01' 53"      | 149° 26' 15" ✓       | Bare 2' @ 1500, 8/27/65  |
| 60 03 37         | 149 26 10            | Bare 12' @ 1520, 8/27/65 |

THE FOLLOWING PHOTO-HYDRO STATIONS WERE LOCATED DURING THE RADIAL PLOT.

| <u>No.</u> | <u>DESCRIPTION</u>                      | <u>PHOTO</u> |
|------------|-----------------------------------------|--------------|
| 7201       | CENTER OF OFFSHORE ROCK                 | 64 S 7847    |
| 7202       | NORTH CORNER OF L-SHAPED DOCK           | 64 S 7847    |
| 7203       | INSHORE CORNER OF BARGE                 | 64 S 7846    |
| 7204       | HIGHEST POINT ON NORTH PORTION OF ROCK  | 64 S 7846    |
| 7205       | NORTH CORNER OF PLATFORM AT END OF DOCK | 64 S 7844    |

# NOTES TO HYDROGRAPHER

PROJECT 21423(5) SEWARD, ALASKA

SHEET TJ1267<sup>3</sup>

THE HEIGHTS OF ROCKS, LISTED BELOW, ARE NEEDED FOR MAPPING PURPOSES. THE POSITIONS AS LISTED WERE SCALED FROM PRELIMINARY MANUSCRIPTS. NO OTHER OFFSHORE FEATURES REQUIRING INVESTIGATION BY THE HYDROGRAPHIC PARTY WERE NOTED.

## Rocks

|                  |                                               |
|------------------|-----------------------------------------------|
| LAT. 60° 04' 27" | LONG. 149° 20' 27" - Base 6' @ 1105, 8/31/65  |
| 60° 03' 58"      | 149° 20' 30" - approx at 1100 8/31/65         |
| 60° 03' 29"      | 149° 20' 29" - Base 3' at 1057, 8/31/65       |
| 60° 03' 18"      | 149° 20' 25" - Base 2' at 1055, 8/31/65       |
| 60° 02' 39"      | 149° 20' 06" - Base 3' at 1052, 8/31/65       |
| *60° 01' 19"     | 149° 20' 04" - 32' above water, 0920, 8/31/65 |
| **60° 00' 29"    | 149° 19' 50" - Base 2' at 0925, 8/31/65       |

THE FOLLOWING PHOTO-HYDRO STATIONS WERE LOCATED DURING THE RADIAL PLOT.

| <u>No.</u> | <u>DESCRIPTION</u>         | <u>PHOTO</u> |
|------------|----------------------------|--------------|
| 7301       | LONE TREE                  | 64 S 7801    |
| 7302       | SOUTHEASTERLY TREE         | "            |
| 7303       | LARGE ROCK                 | "            |
| 7304       | LARGE ROCK                 | 64 S 7800    |
| 7305       | LARGE ROCK                 | 64 S 7799    |
| 7306       | NORTHEASTERLY OF TWO ROCKS | 64 S 7798    |
| 7307       | ROCK                       | 64 S 7797    |
| 7308       | HIGHEST POINT OF ROCK      | "            |
| 7309       | ROCK AT M.H.W.             | "            |
| 7310       | LONE BUSH                  | "            |
| 7311       | LARGE ROCK                 | "            |
| 7312       | N. CORNER BUILDING         | "            |
| 7313       | ROCK                       | "            |

\* Rk adjacent, 5M to N, Base 1' at 0920, 8/31/65

\*\* Rk adjacent, 15M SE, Base 3' at 0920, 8/31/65

# NOTES TO HYDROGRAPHER

PROJECT 21423(5) SEWARD, ALASKA

SHEET T-12722

THE HEIGHTS OF THE ROCKS, LISTED BELOW, ARE NEEDED FOR MAPPING PURPOSES. THE POSITIONS AS LISTED WERE SCALED FROM PRELIMINARY MANUSCRIPTS. NO OTHER OFFSHORE OBJECTS REQUIRING INVESTIGATION BY THE HYDROGRAPHIC PARTY WERE NOTED.

## Rocks

LAT. 60° 07' 17"  
60° 07' 08"  
60° 06' 53"

LONG. 149° 25' 47"  
149° 26' 13"  
149° 26' 11"

*In fill area for New  
Air facilities -  
Not here*

THE FOLLOWING PHOTO-HYDRO STATIONS WERE LOCATED DURING THE RADIAL PLOT:

| <u>No.</u> | <u>DESCRIPTION</u>                 | <u>PHOTO.</u> |
|------------|------------------------------------|---------------|
| 2201       | NORTHEASTERLY TREE                 | 64 S 7891     |
| 2202       | BOW OF STRANDED BOAT               | 64 S 7892     |
| 2203       | BUSH                               | "             |
| 2204       | NE. GABLE T-SHAPED BUILDING        | "             |
| 2205-      | FLAGPOLE                           | "             |
| 2206       | CHURCH SPIRE                       | 64 S 7893     |
| 2207-      | CENTER OF TANK (NORTH OF TWO)      | 64 S 7894     |
| 2208-      | EAST GABLE                         | "             |
| 2209       | SOUTH DORMER OF LARGE BUILDING     | "             |
| 2210-      | SOUTH CORNER OF LARGE BUILDING     | "             |
| 2211-      | CENTER OF CIRCULAR OBJECT IN WATER | "             |
| 2212-      | SOUTH ROCK OF TWO                  | "             |
| 2213-      | CENTER OF NORTH ROCK               | "             |

NOTES TO HYDROGRAPHER

PROJECT 21423(5) SEWARD, ALASKA

SHEET T-12723

THE TWO PHOTO-HYDRO STATIONS LISTED BELOW WERE LOCATED DURING THE RADIAL PLOT.

NO OFFSHORE FEATURES REQUIRING INVESTIGATION BY THE HYDROGRAPHIC PARTY WERE NOTED.

| <u>No.</u> | <u>DESCRIPTION</u>        | <u>PHOTO.</u> |
|------------|---------------------------|---------------|
| 2301       | CUPOLA                    | 64 S 7764     |
| 2302       | WEST GASLE LARGE BUILDING | 64 S 7880     |

*None Noted during Survey*

*(Signature)*

# NOTES TO HYDROGRAPHER

PROJECT 21423(5) SEWARD, ALASKA

SHEET T-12724

THE HEIGHTS OF ROCKS, LISTED BELOW, ARE NEEDED FOR MAPPING PURPOSES. THE POSITIONS AS LISTED WERE SCALED FROM PRELIMINARY MANUSCRIPTS. NO OTHER OFFSHORE OBJECTS REQUIRING INVESTIGATION BY THE HYDROGRAPHIC PARTY WERE NOTED.

## Rocks

LAT. 60° 06' 07"  
60° 05' 01"

LONG. 149° 21' 49" - *Bares 5' @ 1045- 8/31/65*  
149° 21' 04" - *No Rk Here.*

THE FOLLOWING PHOTO-HYDRO STATIONS WERE LOCATED DURING THE RADIAL PLOT.

| <u>No.</u> | <u>DESCRIPTION</u>          | <u>PHOTO.</u> |
|------------|-----------------------------|---------------|
| 2401       | LONE ROCK                   | 64 S 7879     |
| 2402       | LONE ROCK                   | "             |
| 2403       | TREE                        | "             |
| 2404       | ROCK                        | "             |
| 2405       | ROCK                        | 64 S 7878     |
| 2406-      | WEST GABLE BUILDING         | "             |
| 2407-      | ROCK                        | 64 S 7877     |
| 2408       | ROCK                        | "             |
| 2409       | LONG TREE                   | "             |
| 2410       | ROCK                        | "             |
| 2411       | NORTHWESTERLY OF TWO BUSHES | 64 S 7876     |

Commanding Officer  
USC&GS Ship HODGSON

October 5, 1965

631

Chief, Photogrammetry Division

Shoreline for Smooth Sheets - Seward, PH-6412 and Cordova,  
PH-6409

The bridging for both the Seward and Cordova jobs has been completed. Final adjustments were satisfactory.

Compilation of the Seward job is in progress here in Washington, D. C. The 1965 1:10,000 scale photography of Seward will be used for delineating new harbor facilities and boat basin. Advance sheets T-12723 and T-12724 will be furnished about October 20, T-12722 about October 25, and T-12672 and T-12673 by October 29.

The photo mission did not obtain the low altitude flight over Cordova. The infrared photography will be used for updating the harbor facilities.

A sketch of the Cordova job is attached. We have indicated in blue the area where we believe you will require shoreline for smooth sheets. Incomplete surveys T-12644 thru T-12653 at 1:10,000 scale and T-12304 thru T-12806 at 1:5,000 scale were furnished to you last spring. Except for the Cordova area and a small part of T-12307, we assume that the shoreline as furnished was found to be adequate. If not, please inform and send field edit data for application to the map manuscripts.

We will go ahead with revision of the Cordova area T-12806 and T-12653 using the infrared photography. This shoreline will be furnished to you about October 22.

The problem is more difficult for 1:20,000 scale map T-12807. Control has not been extended for mapping west of T-12651. Please inform me if that area is required. We will then attempt to extend the plot a model or so westward.

/s/ J. E. Waugh  
J. E. Waugh

Attachment

*reproduction*

Chief, Photogrammetric Branch

September 29, 1965

WSC-6320

Chief, Photogrammetry Division

Instructions, Smooth Sheet Compilation, Job PH-6412,  
Seward, Alaska

Three 1:5,000 scale maps and two 1:10,000 scale maps comprise subject project.

These maps were compiled last season as Preliminary by Radial Plot methods for use in hydrographic operations.

Hydrography is now complete and advance copies are needed for smooth sheet compilation.

The area has been bridged by stereoplanigraph methods on control furnished by the Ship HODGSON and adjusted by Geodesy.

The re-compilation of these maps by graphic or B-8 methods using stereoplanigraph control is assigned to your branch.

All data such as preliminary manuscripts, photo hydro photos, ozalids with field inspection, control, ILM readouts, new projections, plates and ratio prints of new photography over Seward will be furnished.

Certain additional information is requested by Commander Watkins, Commanding Officer of Ship HODGSON outlined in his memo of September 16, 1965. A copy of this memo is attached and shall be complied with.

Complete the compilation and furnish 2 cronaflex copies, one to our files and one to the Seattle Processing Office by October 30, 1965.

Charge 75% of all costs to Program Code 22001627 and 25% to 22001628.

/s/ J. E. Waugh  
J. E. Waugh

Attachment

cc:  
6314, 6321, 6324

Final Review Report

PH-6412  
Shoreline Survey

T-12672, T-12673, T-12722, T-12723 and T-12724  
February, 1978

61. General Statement

This is a combined report covering five maps. Since there are two separate number sequences, one copy will be filed with T-12672, T-12673 and a duplicate copy will be filed under T-12722, T-12723 and T-12724.

62. thru 64. Inapplicable

65. Comparison with Nautical Charts

The maps were compared with chart: 16682 (8529) 1:81,847 scale 5th Edition, 12-4-1964. The chart includes a 1:10,000 scale inset of Seward, Alaska.

The Chart revision Section updated the inset area with 1967 photography. In July 1972 Department of Highways photography was used for additional updating. The later compiled revision surveys should be used in lieu of the compiled areas of T-12722 covering the chart inset area.

66. Adequacy of Results and Future Surveys

The maps meet the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

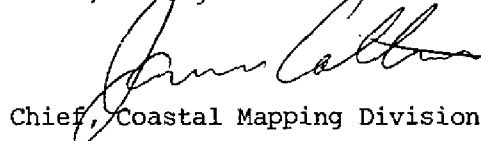


J. B. Phillips  
Cartographer

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

T-12722, T-12723, T-12724

DESCRIPTIVE REPORT CONTROL RECORD

1:5,000

MAP T-12672, T-12673 PROJECT NO. PH-6412

SCALE FACTOR

SCALE OF MAP

| STATION                | SOURCE OF INFORMATION (INDEX) | DATUM   | LATITUDE OR COORDINATE LONGITUDE OR COORDINATE | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 3048006 meter) | FORWARD | (BACK) |
|------------------------|-------------------------------|---------|------------------------------------------------|-------------------------------------------------------------------------------------------|---------|--------|
| ✓ THUMB CONE LT. 68111 |                               | NA-1927 | 622, 274.26 ✓                                  |                                                                                           |         |        |
| " " " 5.S.             |                               |         | 2, 195, 295.15 ✓                               |                                                                                           |         |        |
| " " " 68112            |                               |         | 622, 268.69 ✓                                  |                                                                                           |         |        |
| BULL 3                 | IBM                           |         | 2, 195, 309.94 ✓                               |                                                                                           |         |        |
| " " " 5.S.             |                               |         | 624, 376.36 ✓                                  |                                                                                           |         |        |
| " " " 65111            | IBM                           |         | 2, 183, 225.94 ✓                               |                                                                                           |         |        |
| " " " 5.S. 1           |                               |         | 624, 423.04 ✓                                  |                                                                                           |         |        |
| " " " 65112            |                               |         | 2, 183, 237.10 ✓                               |                                                                                           |         |        |
| " " " 5.S. 2           |                               |         | 624, 341.94 ✓                                  |                                                                                           |         |        |
| " " " 96111            | "                             |         | 2, 183, 232.27 ✓                               |                                                                                           |         |        |
| " " " 5.S. C           | "                             |         | 624, 369.35 ✓                                  |                                                                                           |         |        |
| " " " 96112            | "                             |         | 2, 183, 009.75 ✓                               |                                                                                           |         |        |
| " " " 5.S. D           | "                             |         | 624, 327.13 ✓                                  |                                                                                           |         |        |
| ✓ SILVER (1964)        |                               |         | 2, 182, 957.16 ✓                               |                                                                                           |         |        |
| " " " 78110 S.S. A     | IBM                           |         | 616, 646.08 ✓                                  |                                                                                           |         |        |
| " " " 78111            | "                             |         | 2, 232, 000.97 ✓                               |                                                                                           |         |        |
| " " " 5.S. B           |                               |         | 616, 467.95 ✓                                  |                                                                                           |         |        |
| ✓ MAST (1964)          |                               |         | 2, 231, 906.57 ✓                               |                                                                                           |         |        |
| " " " 5.S.             |                               |         | 616, 445.88 ✓                                  |                                                                                           |         |        |
| " " " 5.S. 1           |                               |         | 2, 232, 032.74 ✓                               |                                                                                           |         |        |
| " " " 5.S. 2           |                               |         | 608, 774.20 ✓                                  |                                                                                           |         |        |
| " " " 5.S. 3           |                               |         | 2, 237, 953.74 ✓                               |                                                                                           |         |        |
| " " " 5.S. 4           | IBM                           |         | 608, 773.90 ✓                                  |                                                                                           |         |        |
| " " " 5.S. 5           |                               |         | 2, 237, 981.54 ✓                               |                                                                                           |         |        |

COMPUTED BY

DATE

CHECKED BY

DATE

New Orleans

13

T-12723, T-12723, T-12724

DESCRIPTIVE REPORT CONTROL RECORD

1:5,000

(2) (3)

MAP T-12672, T-12673 PROJECT NO: PH-642

SCALE FACTOR

SCALE OF MAP

1:10,000

| STATION           | SOURCE OF INFORMATION (INDEX) | DATUM      | LATITUDE OR X COORDINATE<br>LONGITUDE OR Y COORDINATE | N.A. 1927 - DATUM<br>DISTANCE FROM GRID OR PROJECTION LINE<br>IN METERS (1 ft. = 3048006 meter)<br>FORWARD (BACK) |
|-------------------|-------------------------------|------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| ✓ DEACON (1964)   |                               | NA-1927    | 602, 172.84 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 220, 475.61 ✓                                      |                                                                                                                   |
| 97112 S.S. A      | IBM                           |            | 602, 258.51 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 220, 552.03 ✓                                      |                                                                                                                   |
| 97111 S.S. B      | "                             |            | 601, 893.78 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 220, 183.69 ✓                                      |                                                                                                                   |
| ✓ BAYEND (1964)   |                               |            | 605, 800.45 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 238, 373.50 ✓                                      |                                                                                                                   |
| 92110 S.S. A      | IBM                           |            | 605, 756.18 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 238, 546.11 ✓                                      |                                                                                                                   |
| 92111 S.S. B      | "                             |            | 605, 981.35 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 239, 322.08 ✓                                      |                                                                                                                   |
| ✓ SEWARD (1964)   |                               |            | 602, 211.73 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 230, 792.20 ✓                                      |                                                                                                                   |
| 94110 S.S. A      | IBM                           |            | 602, 227.54 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 230, 784.94 ✓                                      |                                                                                                                   |
| 94111 S.S. B      | "                             |            | 602, 154.55 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 230, 783.11 ✓                                      |                                                                                                                   |
| ✓ MIDDLE 2 (1927) |                               |            | 620, 473.19 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 213, 121.67 ✓                                      |                                                                                                                   |
| 74110 S.S. A      | IBM                           |            | 620, 461.49 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 213, 146.22 ✓                                      |                                                                                                                   |
| 74111 S.S. B      | "                             |            | 620, 452.96 ✓                                         |                                                                                                                   |
|                   |                               |            | 2, 213, 125.56 ✓                                      |                                                                                                                   |
| COMPUTED BY       | DATE                          | CHECKED BY | DATE                                                  |                                                                                                                   |

## DESCRIPTIVE REPORT CONTROL RECORD

MAP T-12672-12673

PROJECT NO.:

PH-6412

SCALE OF MAP.

1000000

SCALE FACTOR

N.A. 1927 - DATUM  
DISTANCE FROM GRID OR PROJECTION LINE  
IN METERS (1 Ft. = 3048006 meter)

~~X~~  
LATITUDE OR ~~X~~ COORDINATE  
LONGITUDE OR ~~X~~ COORDINATE

DATUM

SOURCE OF INFORMATION  
(INDEX)

STATION

✓ MILL (1965)

80110 S.S.A

80111 S.S. B

✓ ALSO (5961)

77110 SS A:

77111 5.8 B

44-110  
TURN (S.S. A)  
(NEAR TURN)

(NEAR TURN)

COMPUTED BY

DATE \_\_\_\_\_

**CHECKED BY**

DATE \_\_\_\_\_

GEOGRAPHIC NAMES  
Ph 21423 (Seward-Resurrection Bay,  
Alaska)

T-12672 (Shoreline)

Resurrection Bay

Lowell Point

Spruce Creek

Tonsina Creek

Tonsina Point

*A. J. Wraight*

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A. J. Wraight  
Geographic Names

GEOGRAPHIC NAMES  
Ph 21423 (Seward-Resurrection Bay,  
Alaska)

T-12673 (Shoreline)

Likes Creek

Porcupine Glacier ] *delineated*  
Prospect Glacier ] *out side ~~map~~ area*

Resurrection Bay

Resurrection Peninsula

Spoon Glacier - *delineated*  
*outside ~~map~~ area*

Thumb Cove

*A. J. Wraight*  
A. J. Wraight  
Geographic Names Section

GEOGRAPHIC NAMES  
Ph 21423 (Seward-Resurrection Bay,  
Alaska)

T-12722 (Shoreline)

Jap Creek - *outside map area*

Sowell Creek? *probably LOWELL CREEK - outside map area*

Resurrection River - *outside map area*

Salmon? *should be SALMON CREEK - outside map area*

Seward

RESURRECTION BAY

*A. J. Wraight*

---

A. J. Wraight  
Geographic Names Section

*"outside map area" means outside delineated  
features since very little  
planimetry has been drawn  
other than the shoreline and  
foreshore details.*

GEOGRAPHIC NAMES  
Ph 21423 (Seward-Resurrection Bay,  
Alaska)

T-127<sup>2</sup><sub>3</sub> (Shoreline)

Resurrection Bay

Resurrection River

Salmon Creek

*A. J. Wraight*

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A. J. Wraight  
Geographic Names Section

GEOGRAPHIC NAMES  
Ph 21423 (Seward-Resurrection Bay,  
Alaska)

T-127<sup>2</sup>~~4~~ (Shoreline)

Fourth of July Creek

Resurrection Bay

*A. J. Wraight*

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A. J. Wraight  
Geographic Names