**Type of Survey** Shoreline (Photogrammetric)

**Field No.** Ph-6101  **Office No.** T-12056

**Locality**
- State: Washington
- General locality: Admiralty Inlet
- Locality: Port Townsend

**1960-62**

**Chief of Party**
- F. Natella

**Library & Archives**

**Date** May 1964
DESCRIPTIVE REPORT - DATA RECORD
T - 12056

PROJECT NO. (III):
Ph-6101

FIELD OFFICE (III):
PORT TOWNSEND, WASHINGTON

CHIEF OF PARTY
Fred Natella

UNIT CHIEF
R. B. Melby

PHOTOGRAMMETRIC OFFICE (III):
PORTLAND, OREGON

OFFICER-IN-CHARGE
Fred Natella

INSTRUCTIONS DATED (II) (III):
Amendment 1, 14 March 1961 11, 111
Amendment 1, 8 May 1961 11, 111
Amendment 1, 17 May 1961 11, 111
Amendment 4, 14 December 1962 111

METHOD OF COMPILATION (III):
Kelsh Instrument

 contourscale (III):
STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
Pantograph Scale:
1:10,000 1:6000
1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):
MEAN SEA LEVEL EXCEPT AS FOLLOWS: X
Elevations shown as (25) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

REFERENCE STATION (III):

HIGH, 1941

LAT.: 48° 06' 48.338"
LONG.: 122° 45' 34.960"

X ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

WASHINGTON, NORTH

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
### DESCRIPTIVE REPORT - DATA RECORD

**FIELD INSPECTION BY (I):**

R. B. Melby  
**DATE:** Aug.-Sept. 1962

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**  

*July 1962 by field inspection.*  
*Compilation by Kelsh instrument.*

**PROJECTION AND GRIDS RULED BY (IV):**

A. R.  
**DATE:** 12-18-62

**PROJECTION AND GRIDS CHECKED BY (IV):**

F. E. B.

**CONTROL PLOTTED BY (III):**

C. H. Bishop  
J. L. Harris  
**DATE:** 1-3-63, 1-21-63

**CONTROL CHECKED BY (III):**

R. H. Meyer  
L. L. Graves  
**DATE:** 1-3-63, 1-21-63

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

Henry P. Eichert  
**DATE:** Dec. 1962

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

**PLANIOMETRY**

R. H. Meyer  
**DATE:** 1-29-63

**CONTOURS**

None

**MANUSCRIPT DELINEATED BY (III):**

**DATE**

**Smooth Draft:** C. C. Harris  
**DATE:** 3-13-63

**Scribing by (III):**

**DATE**

**Stick-up:** C. C. Harris  
**DATE:** 4-15-63

**PHOTOGRAHMNETRIC OFFICE REVIEW BY (III):**

**DATE**

**Rough Draft:** J. L. Harris  
**DATE:** 3-4-63

**Advance:** J. L. Harris  
**DATE:** 5-21-63

**REMARKS:**
**DESCRIPTIVE REPORT - DATA RECORD**

**CAMERA (KIND OR SOURCE) (III):**
C&GS SINGLE LENS "W"

**PHOTOGRAPHS (III):**

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<th>TIME</th>
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RATIO PRINTS OF ABOVE AT 1:10,000

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**ORDINATE STATION:**

**SUBORDINATE STATION:**

**WASHINGTON OFFICE REVIEW BY (IV):**

**PROOF EDIT BY (IV):**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** 55

**NUMBER OF BM(5) SEARCHED FOR (II):** 0

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** 0

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** 2

**REMARKS:**

...
FIELD INSPECTION REPORT

Map Manuscript #T-12056

Project Ph-6101

Refer to the Field Inspection Report for T-12050 thru T-12056 and T-12059 thru T-12063 included with the Descriptive Report for T-12050. Also refer to the*Special Report, Project Ph-6101, "Notes to Compiler" dated 4 August 1961 by Robert B. Melby.

* See Descriptive Report T12054
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-12056

Project Ph-6101

Refer to the Photogrammetric Plot Report No. 2 by Henry P. Eichert, December 1962 and included with the Descriptive Report for T-12050.
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<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>HIGH, 1941</td>
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<td>N.A. 1927</td>
<td>412,033.91</td>
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<td>P-307</td>
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<td>1937</td>
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<td>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
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<td>NAVY, WEST, 1940</td>
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<td>N.A. 1927</td>
<td>409,763.19</td>
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<td>409,580.59</td>
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<td>CATHOLIC HOSPITAL STEEPEL, 1908</td>
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<td>413,665.62</td>
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<td>4367.60 (632.40)</td>
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1 FT = 30.48006 METER

COMPUTED BY: D.N.W. DATE 1-16-63 CHECKED BY: R.H.M. DATE 1-17-63
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<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>N.A. 1927</td>
<td>410,838.56</td>
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<td>PORT TOWNSEND WEATHER BUREAU</td>
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<td>SHOAL, 1941</td>
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<td>1,523,004.52</td>
<td>4694.5 (305.5)</td>
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1 FT. = 30.48006 METER

COMPUTED BY: L.L.G.  DATE: 1-16-63

CHECKED BY: D.N.W.  DATE: 1-16-63
COMPILATION REPORT

MAP MANUSCRIPT T-12056
PROJECT PH-6101

ITEMS 31 AND 32:

REFER TO THE COMPILATION REPORT FOR T-12065.

33. SUPPLEMENTAL DATA:

THE MILL LAYOUT OF THE CROWN ZELLEBACH PAPER MILL DATED
3-7-50 AND REVISED AUGUST 1962, WAS USED TO AID IN THE DELINEATION
OF ALONGSHORE FEATURES IN THE VICINITY.

34. CONTOURS AND DRAINAGE:

REFER TO THE COMPILATION REPORT FOR T-12063.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH-WATER LINE WAS SPOT LOCATED BY THEFIELD PARTY
AND DELINEATED BY THE OPERATOR OF THE KELSH INSTRUMENT DURING COM-
PILATION. THE CHARACTER OF THE FORESHORE AREA WAS INDICATED ON
THE FIELD PHOTOGRAPHS AND WAS DELINEATED BY SYMBOL OR LABEL. THE
SHALLOW LINE SHOWN WAS DETERMINED BY INSPECTION OF THE PHOTOGRAPHY
TAKEN AT A PREDICTED TIDE OF 2.5 FEET ABOVE M.L.L.W.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

FIVE FIXED AIDS TO NAVIGATION ARE SHOWN ON THIS MANUSCRIPT.
TWO WERE LOCATED BY TRIANGULATION AND THREE WERE LOCATED BY THE
KELSH INSTRUMENT OPERATOR DURING COMPILATION.

SIX INTERSECTION TRIANGULATION STATIONS LOCATED IN THE AREA
OF THIS MANUSCRIPT HAVE BEEN RECOMMENDED FOR CHARTING AS LANDMARKS.

FORMS 567 ARE SUBMITTED.
38. **Control for Future Surveys:**

Two photo-hydro stations were identified by the field party and located during Kelsh Instrument compilation. Their numbers and descriptions are listed in paragraph 49.

39. **Junctions:**

Satisfactory junctions were made with T-12051 to the north; with T-12057 to the east; with T-12063 to the south and with T-12055 to the west.

40. **Horizontal and Vertical Accuracy:**

46. **Comparison with Existing Maps:**

Comparison was made with the U.S.G.S. 7½ minute Port Townsend South, Washington Quadrangle, scale 1:24,000, edition 1953.

47. **Comparison with Nautical Charts:**

Comparison was made with Nautical Chart 6405, scale 1:20,000, 8th edition, July 1, 1944, revised 2-12-62.

Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

Approved: [Signature]

Respectfully Submitted:

Fred Natella, CAPT, C&GS
Portland District Officer

James L. Harris
Cartographer
48. **Geographic Names:**

The geographic names listed below and shown on this manuscript were furnished by the Washington Office on a final name sheet, a copy of the U.S.G.S. Port Townsend South, Washington 7½ minute quadrangle, scale 1:24,000, edition 1953.

Admiralty Inlet  
Chetzemolka Park  
Glen Cove  
Old Fort Townsend State Park  
Port Townsend (town)  
Port Townsend (bay)  
Quimper Peninsula

George W. S. Borer  
26 August 1963
49. **Notes for the Hydrographer**

The following photo-hydro stations shown on this manuscript were identified by the field unit and located by the Kelsh operator during compilation.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Field Photo No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5601</td>
<td>S.E. Corner of bldg. on pier</td>
<td>60 W 1979</td>
</tr>
<tr>
<td>5602</td>
<td>Dolphin</td>
<td>60 W 1980</td>
</tr>
</tbody>
</table>
# Photogrammetric Office Review

**C&GS Form 1002**  
**U.S. Department of Commerce**  
**Coast and Geodetic Survey**

### 1. Projection and Grids
- [x] Item 1

### 2. Title
- [ ] Item 2

### 3. Manuscript Numbers
- [ ] Item 3

### 4. Manuscript Size
- [ ] Item 4

### Control Stations

#### 5. Horizontal Control Stations of Third-Order or Higher Accuracy
- [x] Item 5

#### 6. Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic stations)
- [ ] Item 6

#### 7. Photo Hydro Stations
- [ ] Item 7

### 8. Bench Marks
- [ ] Item 8

#### 9. Plotting of Sextant Fixes
- [ ] Item 9

### 10. Photogrammetric Plot Report
- [x] Item 10

### 11. Detail Points
- [ ] Item 11

### Alongshore Areas (Nautical Chart Data)

#### 12. Shoreline
- [x] Item 12

#### 13. Low-Water Line
- [ ] Item 13

- [ ] Item 14

#### 15. Bridges
- [ ] Item 15

#### 16. Aids to Navigation
- [x] Item 16

#### 17. Landmarks
- [ ] Item 17

#### 18. Other Alongshore Physical Features
- [ ] Item 18

#### 19. Other Alongshore Cultural Features
- [ ] Item 19

### Physical Features

#### 20. Water Features
- [ ] Item 20

#### 21. Natural Ground Cover
- [ ] Item 21

#### 22. Planetable Contours
- [ ] Item 22

#### 23. Stereoscopic Instrument Contours
- [ ] Item 23

#### 24. Contours in General
- [ ] Item 24

#### 25. Spot Elevations
- [ ] Item 25

#### 26. Other Physical Features
- [ ] Item 26

### Cultural Features

#### 27. Roads
- [x] Item 27

#### 28. Buildings
- [ ] Item 28

#### 29. Railroads
- [ ] Item 29

#### 30. Other Cultural Features
- [ ] Item 30

### Boundaries

#### 31. Boundary Lines
- [x] Item 31

#### 32. Public Land Lines
- [ ] Item 32

### Miscellaneous

#### 33. Geographic Names
- [x] Item 33

#### 34. Junctions
- [ ] Item 34

#### 35. Legibility of the Manuscript
- [ ] Item 35

#### 36. Discrepancy Overlay
- [ ] Item 36

#### 37. Descriptive Report
- [x] Item 37

#### 38. Field Inspection Photographs
- [x] Item 38

#### 39. Forms
- [ ] Item 39

### Reviewer
- [ ] Item 40

**James L. Harris**

### 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
- [ ] Item 42

#### Supervisor
- [ ] Item 43

### 43. Remarks
<table>
<thead>
<tr>
<th>COMPILATION RECORD</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<tr>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoor details added</td>
<td></td>
<td>5/6/63</td>
</tr>
<tr>
<td>completion complete</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
61. General Statement

There are six (6) shoreline maps of Project PH-6101, Admiralty Inlet, Washington. These maps were prepared primarily for the location of nonfloating aids and landmarks for the revision of our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-6884 a&amp;b G</td>
<td>1:10,000 &amp; 1:5,000</td>
<td>1941</td>
</tr>
<tr>
<td>T-6885 a&amp;b</td>
<td>1:10,000 &amp; 1:5,000</td>
<td>1941</td>
</tr>
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<td>T-1255</td>
<td>1:10,000</td>
<td>1871</td>
</tr>
<tr>
<td>T-4191</td>
<td>1:10,000</td>
<td>1926</td>
</tr>
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There are cultural and shoreline differences due to time interval. These maps are to supersede the above surveys for common areas for nautical charting.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequin</td>
<td>1:24,000</td>
<td>1956</td>
</tr>
<tr>
<td>Gardiner</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Port Townsend (South)</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Nordland</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
</tbody>
</table>

There are minor cultural and shoreline differences, due to the difference in time intervals.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>6403</td>
<td>1:40,000</td>
<td>Revised to July 1963</td>
</tr>
<tr>
<td>6405</td>
<td>1:20,000</td>
<td>Revised to Feb. 1962</td>
</tr>
</tbody>
</table>

Differences exist. However, there are no items to be applied immediately.
66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

L. C. Lande

Approved by:

Charles Stevens
Chief, Photogrammetric Branch

Chief, Photogrammetry Division

E. Wang 12/16/63
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

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

### CHART DATE CARTOGRApher REMARKS

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6300</td>
<td>8-16-65</td>
<td>Johnson</td>
<td>Full-Part Before After Verification Review Inspection Signed Via Drawing No. 17b, cht 6382.</td>
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<td>Larson</td>
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