Diag. Cht.: No. 6180.

Form 594
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)

Field No.: Ph-98
Office No.: T-11228 thru T-11231

LOCALITY

State: Washington
General locality: Fidalgo Island
Locality: Anacortes

1952-53

CHIEF OF PARTY
F. Natella, Chief of Party
F. Natella, Portland Photo. Office

LIBRARY & ARCHIVES

DATE: June 10, 1958
DATA RECORD

T - 11228 thru 11231

Project No. (II): Ph-98

Quadrangle Name (IV):

Field Office (II): Anacortes, Washington
Chief of Party: Fred Natella

Photogrammetric Office (III): Portland, Oregon
Officer-In-Charge: Fred Natella

Instructions dated (II) (III): 13 July 1953

Supplemental Instructions
Letter 731-ml dated 7/23/53

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 27 Feb 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): See reverse side this page.

Lat.: Long.: Adjusted

Unadjusted

Plane Coordinates (IV):

State: Zone:

Y = X =

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.

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Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field inspection by (II):  John H. Winniford
                        William R. Kachel
                        Date: Sept. - Nov. 1953

Plotting and contouring by (II): 
                        Date:

Completion Surveys by (II): 
                        Date:

Mean High Water Location (III) (State date and method of location): Spot located on field photographs
during Sept. Nov. 1953. Located on office photographs by stereoscopic study and then detailed on map manuscripts

Projection and Grids ruled by (IV): 
                        Date:

Projection and Grids checked by (IV): 
                        Date:

Control plotted by (III): William R. Kachel
                        Date: March 1954

Control checked by (III): J. E. Deal, J. L. Harris, & V. E. Serena
                        Date: March 1954

Radial Plot or Stereoscopic Control extension by (III):
                        Date: May 14, 1954

Stereoscopic Instrument compilation (III):
                        Date:

                        Contours

Manuscript delineated by (III): See reverse side this page
                        Date:

Photogrammetric Office Review by (III): See reverse side this page
                        Date:

Elevations on Manuscript checked by (II) (III): None
                        Date:

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Tide (III)

Reference Station: Fort Townsend, Washington
Subordinate Station: Anacortes, Guemes Channel
Subordinate Station:

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 40
Shoreline (More than 200 meters to opposite shore) (III): 78
Shoreline (Less than 200 meters to opposite shore) (III): 8
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 106
Recovered: 72
Identified: 34
Number of BMs searched for (II):
Recovered: 29
Identified: *
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks: * B. K. Locations were spotted on photographs
FIELD INSPECTION REPORT

FOR

QUADRANGLES T-11228, T-11229, and T-11230, and T-11231

Project Ph-98

1. Area Covered:

   This report covers the entire area within the project limits and includes all or part of the following land areas:

   1. Allan Island  
   2. Burrows Island  
   3. Cypress Island  
   4. Dot Island  
   5. Fidalgo Island  
   6. Guemes Island  
   7. Hat Island  
   8. Huckleberry Island  
   9. Saddlebag Island  
   10. Strawberry Island  
   11. Williamson Rocks  
   12. Young Island

2. Areal Field Inspection:

   (a) General description of the area.

   All of the land covered by this report is surrounded by tidewater. In general the topography is quite rugged. The bulk of the area is covered by coniferous timber which gives way to numerous outcrops of bedrock here and there, adjacent to which a thin mantle of grass has established itself. The rock outcrops are rounded and scoured by glациation. There is some cultivation in the flatter areas which have a deeper soil base.

   Allan Island - See photographs 36358, 36359, and 36363.

   In general the mean high water line fronts on a wave cut bluff of varying height. Above the bluffs rise slopes of moderate to very steep grades. At extreme low tides a rock ledge which parallels the rocky areas is exposed. There are occasional coves with beaches of sand and gravel.
Burrows Island - See photographs 36357, 36359, 36364, and 36365

For general description see Allan Island. On the most westerly part of Burrows Island is a small Coast Guard base for the maintenance of Burrows Island Lighthouse. In a cove off the eastern shore of the island is a group of dolphins which have been used to moor logging rafts for small logging operations.

Cypress Island - See photographs 36367 and 36379

On the southeast side of this island, extending from Reef Point to triangulation station SPUR, the mean high water line fronts on a beach of sand, gravel, and boulders. This beach is about 30 feet wide and fronts on a steep wave cut bluff. In the offshore areas there are numerous rocks. These were indicated on the photographs when they could be identified. Numerous reference ties to the mean high water line were established by pacing. On the southwest side of the island, from Reef Point to Strawberry Bay, the mean high water line fronts on a narrow beach, 25 to 35 feet wide, consisting of boulders and gravel which in turn fronts on a steep wave cut bluff. Few rocks were observed in the offshore areas. The above also describes the shoreline of the remainder of the island except Secret Harbor. Here the banks are low, narrow beaches are of sand and gravel and the bay is shallow. There is a small settlement at the head of the bay which consists mostly of "Boys Home", a private school for wayward boys. There is considerable logging being done on this island.

Fidalgo Island

The interior areas with the exception of the City of Anacortes are generally hilly and covered by coniferous timber. Some of the area in the less rugged sections has been cleared and is being farmed. The peninsula, marked by March Point at its northern extremity, is mainly farm land with some wooded covering in the north and central portions.

The western shore is rugged with shore line along the base of near-vertical bluffs in many places. Numerous outcrops of bed rock extend into the water with occasional narrow sand and boulder beaches exposed at low tides. There are numerous rocks and as many of these as could be identified have been indicated on the photographs.

The city of Anacortes is built up along the shore with piers, canneries, and warehouses. On the eastern side of the city there is a large pulp mill, plywood plant and lumber mill with their accompanying log pens extending far out into Fidalgo Bay. These log pens are made up of rows of piles and dolphins with logs chained
Capsante is a high, rugged, rock outcrop with sheer cliffs extending to the water surface. The lower end of Fidalgo Bay is an extensive mud flat that bares at low tide. The eastern portion of the project has mud flats that bare at low tide and several low sand and mud islets made up of spoil from the dredging of the channel to Swinomish Slough. These islets are constantly changing in size and shape due to the action of the elements and continual dredging operations.

Guemes Island — See photographs 36353, 36354, 36422, and 36423.

This island is much lower and flatter than the rest of the islands in this project. A considerable portion of it has been turned into fertile farms. It is covered by a well maintained road system. In the northeast and northwest portions of the island adjacent to the project limits, the mean high water line fronts on sandy beaches, and there are no high bluffs inshore. There are a number of tourist cabins throughout this area. On the southwest side of the island the mean high water line fronts on a beach which is variously sand, gravel, and boulders. The beach in turn fronts on a pronounced sandstone bluff. There are occasional rocks in the offshore areas.

From the southwest corner of the island to Guemes ferry landing the beach is mostly sand and there are no high banks inshore. The occasional piling in the offshore areas were located from photo sub points using triangulation for azimuth and stadia for distance. From a point about 300 meters east of Guemes ferry landing to the southeast point of the island, bluffs of varying height face the water. Beaches of gravel or boulders, are narrow or nonexistent at high tide. There are numerous rocks offshore; as many as possible were identified. The occasional piling in the area were located by azimuth and stadia distances from either photo sub points or triangulation stations. On the northeast side of the island save for the extreme northern part of the project, and except for occasional coves, the mean high water line fronts on a wave cut bluff, and at mean high water beaches are virtually non-existent. A rugged, near vertical, bluff fronts the water immediately northwest of Ship Harbor.

Hat Island, Dot Island, Huckleberry Island, and Saddlebag Island — See photograph 36490

On all of these islands the mean high water line fronts on a wave cut bluff and at extreme low tides a wave cut rock ledge is exposed. On the south side of Huckleberry Island, low tide exposes a beach of large boulders.
Strawberry Island - See photograph 36379.

On the west side of this small islet the mean high water line fronts on a near vertical rock bluff; the same holds true for the east side of the island and a rock ledge extends out from the mean high water line at low tide; a rock ledge extends well out from the south end of the island.

Williamson Rocks - See photograph 36363.

A group of bare rocks connected at low tide by boulder beaches.

Young Island - See photograph 36359.

This island has a thin mantle of trees and brush. There is one cabin on the island. The mean high water line fronts on a wave cut bluff with the associated rock ledge exposed at low tide. Rock ledges extend well out from both ends of the island.

(b) General notes on field inspection:

Field inspection was done in accordance with the project instructions and the topographic manual.

The photographs for this project were taken at an extremely low stage of the tide. Therefore, numerous rock ledges and reefs which would otherwise not be visible are shown on the photographs. However, at the time of field inspection, the tides remained quite high, generally, which made adequate field inspection of all features quite difficult. In many cases rocks were found by going into the area with a boat and using an oar for a sounding rod to locate and get the approximate height of the rock.

A few offlying rocks shown on USCGS Naut. Chart #6376 could not be verified due to the high tides during daylight hours during the period of field inspection. These should be investigated by the hydrographer. A copy of USCGS Naut. Chart #6376 with the rocks marked that could not be verified is enclosed with the field records for the project. (These notes were transferred to letter-size sections of the chart and attached to 'Notes to the Hydrographer' for the 1955 season.)

The shoreline was first field inspected then the field work checked with a stereoscope, and a second inspection trip was made to clarify details and doubtful points. In the areas where the mean high water line fronts on sandy beaches or gravel, numerous paced or taped reference tides have been made. Where the shoreline fronts on vertical rock bluffs and paced distances were impossible, the mean high water line can usually be distinguished on the photo by a faint
dark line with lighter areas both above and below it. The mean high water line has been delineated in red on the photos.

At the northern entrance to Swinomish Slough (see photo 36539) there are several small sand islands. These islands are formed by dredging operations along the channel. The mean high water line on these islands is subject to considerable change throughout the year. Numerous pilings and dolphins in this area were located by sextant fixes. The data for these fixes is recorded on the back of photo 36569.

The details on the photo were clear and the coverage adequate.

3. Horizontal Control

No supplemental control was needed and none was established. A systematic recovery of all triangulation in the project area was made but only those stations necessary for control of the plot were identified.

One station, BLAKE 1939', has been submitted with a doubtful identification. This station was set on a rock shelf on the side of a steeply sloping bluff. All ground details that could be seen checked the identification. However, a complete check of ground detail would not be possible without climbing gear.

4. Vertical Control:

Vertical control was not required for this project. However, most of the vertical control within the project limits, when easily recoverable, was spotted on the photographs to aid in later recovery. No attempt was made to identify the B.M.'s more accurately.

5. Contours and Drainage:

No contouring is being done. The very few drains noted have been shown on the photographs in blue.

6. Woodland Cover:

The bulk of the woodland is coniferous and is moderately heavy.
7. **Shoreline and Alongshore Features:**

(a) The mean high water line: See paragraph 2, section b of this report.

(b) The low water line: The low water line was not defined. There is some confusion by field inspectors between the symbolization of apparent shoreline and the low water line, and the short dash in the apparent shoreline symbol has dwindled to a dot in many cases. However, no low water line was delineated on this project and all such symbolization is apparent shoreline.

(c) The Foreshore: Numerous rock ledges show on the photographs that are usually covered due to the fact the photos were taken at a minus tide. All prominent rocks that were visible at time of field inspection were noted on the photos along with time, date, and height. Where the boulders and rocks were too numerous to note individually a generalized note was made.

(d) Bluffs and Cliffs: In most cases where bluffs or cliffs extend to the waters edge the mean high water line is at the base of the bluff except where noted otherwise.

(e) Docks, Wharves, Piers, Landings, Etc.: In the city of Anacortes there are many piers and buildings alongshore and the mean high water line could not be shown. The outline of the piers were accentuated in red where it was not clear on the photographs. Notes were made on the photos on any items under this heading. Excepting Guemes Island and Fidalgo Island, there is very little development and consequently very few of the above features. There is a small pier in Secret Harbor on Cypress Island and the Guemes Island - Anacortes Ferry Slip is on Guemes Island. Guemes Island is the only one which is connected to the mainland with regularly scheduled ferry runs.

(f) Submarine Cables: There are four submarine cables in the area covered by this report. One leads west from Sunset Beach to the San Juan Islands, two connect the City of Anacortes with Guemes Island to the north and the fourth crosses the Swinomish Slough just south of the vertical lift bridge on State Highway No. 1.

(g) Other Shoreline Structures: Several of the piers and buildings shown on USCGS Naut. Chart No. 6376 along the northern edge of Fidalgo Island west of Anacortes have fallen to ruin and in many cases only a few pile ruins remain to mark the area. Notes were made on the photographs where applicable.

8. **Offshore Features:**

See section No. 2, part b.
9. Land marks and Aids:
List of landmarks will be submitted on form No. 567. Fixed navigation aids are reported on form No. 567. Floating aids were not located. (attached)

10. Boundaries, Monuments and Lines:
Not applicable.

11. Other Control:
All recoverable topographic stations within the project limits were searched for. Station Rel was not recovered. Stations Sine, Tik, U.S.E. B3+20.8, and Wep were considered lost. The following were recovered and all except U.S.E. B62+38.8 were identified on the photographs to be located in the new plot: Swit, U.S.E. B53+03.6, U.S.E. B62+38.8, Ram, Gret, Nor, Spar, and Font. The following new topographic stations were established by the party: Capsante Range Rear Light, Capsante Range Front Light, Tank, and Stack.

12. Other Interior Features:
The few roads in the area were classified as either double dash lines or double solid lines.

Buildings were noted on the photographs in the immediate vicinity of the shoreline. Outbuildings and others not to be compiled were deleted with green ink.

The cable crossing areas were noted on the photos.

A new Railroad swing bridge has been constructed over the entrance to the Swinomish Slough by the Great Northern Railway. This bridge was constructed since the photos were taken and is in the same general area as the bridge shown on the photo but is longer than the old bridge. New vertical and horizontal clearances were noted on photograph No. 36569 along with the position and length of the new swing span.

Clearances were measured and noted on photograph No. 36569 for the vertical lift highway bridge over the mouth of the Swinomish Slough Channel (see Geog. Names)

13. Geographic Names:
Not applicable.
14. Special Reports and Supplemental Data:

Single copies only of recovery notes for Triangulation and Topographic Stations were prepared. No recovery cards were submitted for the Bench Marks as these were only spotted on the photographs as an aid in finding them at a later date. The descriptions of the B.M.'s were checked for errors or changes but since most of these were written in 1952 no changes or additions were found necessary.

Approved and forwarded:  
Fred Natella  
Comdr., USC&GS  
Chief of Party

Respectfully submitted:  
William R. Kachel  
Lt. (j.g.), USC&GS
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts No. T-11228 thru T-11231

Project Ph-98

21. Area Covered:

This radial plot embraces an area in the vicinity of Anacortes, Washington between latitudes 48° 28' 15" to 48° 33' 45" and between longitudes 122° 30' to 122° 45'. It covers the shorelines and adjacent planimetry within the neat lines of map manuscripts T-11228 thru T-11231.

Nine lens photographs taken in May 1952 were used. Corrections to radials for paper distortion and transforming errors were made by use of Master Templet No. 36269 during the process of drawing the templets. The templets were oriented directly on the four map manuscripts which had been joined together by matching neat lines and then fastened with cellophane tape.

No difficulties were encountered in orienting the templets to the identified horizontal control stations and in the final radial plot result good intersections of radials were obtained.

The assembled plot was turned face down and the locations of photogrammetric points were pricked and circled on the reverse sides of the four map manuscripts.

23. Adequacy of Control:

An adequate number of horizontal control stations was identified by the field inspection party and these were transferred to the office photographs without difficulty.

24. Supplemental data:

There was no supplemental data.

25. Photography:

The photography was adequate for the compilation of shoreline map manuscripts and the required planimetry for the city of Anacortes, Washington.
Approved and forwarded:

Fred Natella
Comdr., USC&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal, Jr.
Cartographer
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Note: All distances and coordinates are approximate and may vary due to measurement errors.
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<td></td>
<td>1221.8 (631.5)</td>
<td></td>
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<tr>
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<td></td>
<td></td>
<td>122</td>
<td>31</td>
<td>46.775</td>
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<td>960.6 (271.6)</td>
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<tr>
<td>Swinomish Slough North Entrance Light 26, 1950</td>
<td>Field</td>
<td>Comp.</td>
<td>48</td>
<td>28</td>
<td>02.898</td>
<td></td>
<td>89.5 (1763.8)</td>
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<td></td>
<td></td>
<td>122</td>
<td>31</td>
<td>17.389</td>
<td></td>
<td>357.2 (875.3)</td>
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<tr>
<td>Whitmarsh</td>
<td>unknown</td>
<td>p. 673</td>
<td>48</td>
<td>27</td>
<td>54.210</td>
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<td>31</td>
<td>47.728</td>
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<td>Whitney, 1939</td>
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<td>48</td>
<td>26</td>
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<td></td>
<td></td>
<td>122</td>
<td>28</td>
<td>21.557</td>
<td></td>
<td>443.0 (789.9)</td>
<td></td>
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</table>

1 FT. = 0.3048006 METER

COMPUTED BY: W.R.K. DATE: 1/26/54 CHECKED BY: J.E.D. DATE: 2/8/54
COMPILATION REPORT

Map Manuscripts No. T-11228 thru T-11231

Project Ph-98

31. Delineation:

Graphic methods were used for the compilation of these map manuscripts.

In the city of Anacortes all streets have been compiled. All buildings along the waterfront have been detailed and in the interior of the city only public buildings have been shown. Planimetry throughout the remaining areas of the map manuscripts consists of a narrow strip of land adjacent to the mean high-water line and alongshore features.

The field inspection was satisfactory and the map manuscripts are believed to be complete shoreline surveys.

32. Control:

The horizontal control stations were adequate both as to identification and density.

33. Supplemental data:

Sextant fix locations were furnished by the field inspection party for numerous dolphins and piling. These were plotted on the map manuscripts according to data entered on the reverse side of several field inspection photographs.

34. Contours and Drainage:

Contours are not applicable. Drainage was shown as indicated by field inspection. Existing topographic maps of the area do not show any additional drainage.

35. Shoreline and Alongshore Details:

The location of the mean high-water line was satisfactorily indicated by field inspection. By stereoscopic examination a refinement of the field determined location was drawn on the office
photographs and then compiled. The line could be clearly seen because the photographs were taken at about mean lower low-water.

The alongshore features which bare at low-water were clearly visible on the photographs and they have been compiled. The low-water line shown at the offshore limits of mud or sand flats has been shown as an approximate low-water line but it should be quite accurate if the predicted tide at the time of photography was affirmed.

Rocks were thoroughly field inspected and appropriate data furnished to refer them to the proper vertical datum. Computation and verification of this data was made at the compilation office and entered on the map manuscripts.

36. Offshore Details:

There are no offshore features.

37. Landmarks and Aids:

Forms 567 have been submitted for landmarks and aids falling within these four map manuscripts.

38. Control for Future Surveys:

Forms 524 are submitted for eleven recoverable topographic stations listed under item 49.

39. Junctions:

Complete and satisfactory junctions have been made between these four map manuscripts.

40. Horizontal and Vertical Accuracy:
There are no areas on these map manuscripts that are considered to be of sub-normal horizontal accuracy.

41. Compliance With Paragraph 11 of Instructions:

These map manuscripts are being forwarded to the Washington Office because it is believed that changed conditions and assignments have voided the shipping requirements contained in Paragraph 11 of the instructions.

46. Comparison With Existing Maps

A visual comparison was made with the following:


47. Comparison With Nautical Charts:

Comparison was made with Nautical Charts as follows:

No. 6376, Scale 1:25,000, edition of May 1945, corrected 4/14/52
No. 6378, Scale 1:40,000, edition of June 1935, corrected 5/5/52

"Items to be Applied to Nautical Charts Immediately"

None

"Items to be Carried Forward"

None.

48. Geographic Names:

The geographic names shown on these four map manuscripts were obtained from the two nautical charts listed under Item 47.

Approved and Forwarded:  
Fred Natella  
Comdr., USCG Survey  
Officer-in-Charge

Respectfully submitted:  
J. Edward Deal, Jr.  
Cartographer
49. Notes for the Hydrographer:

Forms 524, " Recoverable Topographic Station" are submitted for the following:

Area of Map Manuscript T-11228

TANK, 1953
STACK, 1953

Area of Map Manuscript T-11229

CAPSANTE RANGE FRONT LIGHT, 1953
CAPSANTE RANGE REAR LIGHT, 1953

Area of Map Manuscript T-11231

U.S.E. B 53/03.6, 1939
SWIT, 1939
SPARK, 1939
RAM, 1939
PONT, 1939
NOR, 1939
GRET, 1939

There are two landmarks listed on Form 567 for which Forms 524 are not submitted. These are of photo-hydro station accuracy and are shown on T-11231. They are:

STACK, Anacortes Plywood Co., black steel stack, easterly of two.
STACK, Anacortes Plywood Co., black steel stack, westerly of two.
Review Report T-11228 thru T-11231  
Shoreline Maps  
February, 1955

61. General:

The reference datum for rocks was changed in many instances during review, because the mean range of tide value (4.8 ft.) seems to have been used rather than the MHW level (7.4 ft. for sub-station Anacortes). The date, hour, and rock elevation had been recorded by the inspector and this information was used to reference the rocks to MLLW in most cases.

62. Comparison with Registered Surveys:

<table>
<thead>
<tr>
<th>Manuscripts</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-11228</td>
</tr>
<tr>
<td>T-11230</td>
</tr>
<tr>
<td>T-11228, T-11229, T-11231</td>
</tr>
</tbody>
</table>

| Differences in MHWL between the previous surveys and the manuscripts are not great because these islands have rock shores with few sand and gravel beaches subject to wave action. However, there are numerous cultural changes and a greater amount of off-shore information on the new surveys, so that, except for contours and the bluff symbol on the north shore of Fidalgo Island, the maps in this project supersede the older surveys for charting purposes.

63. Comparison with Maps of Other Agencies:

USGS Anacortes, Washington 1:62,500 1951
USGS Deception Pass, Washington 1:62,500 1951

So far as differences in scale permits comparison, there seems reasonable agreement between the quadrangles and the manuscripts.

64. Comparison with Contemporary Hydrographic Surveys:

Except for Field Examination No. 4, 1953, north of March Point (T-11229) 48° 30.25'-30.6'/122° 33.5'-34.2', H-4738, 1927 is the most recent survey.
65. **Comparison with Nautical Charts:**

   6376  1:25,000  ed. May 1945, corr. January 1947
   6378  1:40,000  ed. June 1935, corr. September 1949

   Differences between the charts and the manuscripts are, for the most part, due to cultural changes, piling and dolphin additions or deletions, and greater rock information along-shore on the manuscripts.

   Notes to the Hydrographer, accompanying this report, lists items which need clarification or proof.

66. **Accuracy:**

   These maps comply with project instructions and meet the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens

**APPROVED:**

[Signatures]

Chief, Review Section
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division
Summary to Accompany
T-11228 thru T-11231

Instructions for Ph-98 were issued 13 July 1953 for photogrammetric field surveys and graphic control surveys in the vicinity of Anacortes, Washington, in support of hydrographic surveys under project CS-241, San Juan, Archipelago and Georgia Strait.

The four 1:10,000-scale shoreline surveys in this project lie between latitude 48° 26½'-33-3/4', longitude 122° 30'-45'. Field inspection consisted of location of shoreline, near-shore rocks, piling and dolphins; and along-shore culture.

No hydrography was accomplished in the area included in Ph-98, except for a small area north of March Point (48° 30.25'-30.6'/122° 33.5'-34.2¹). This survey is attached to its descriptive report and is filed under FE No. 4, 1953. Hydrographic work is to be resumed in 1955.

No new control was established in the area, except six recoverable topographic stations located by radial plot. These are listed in Section 49 of the Compilation Report.

After final review, a cloth-mounted copy of each map and the original Review Report will be registered and filed in the map Archives.
Notes for the Hydrographer

T-12228:

"City of Seattle Rocks" were not searched for by the 1953 field party.

4 Dolphins and a pile charted in Ship Harbor were not noted by the field inspector, nor were they visible on photo 36356, etc.

2 Rocks south of Reef Point labeled "awash MLLW" on the manuscript appear to be only two of several prominences on a probable sunken ledge, upon which kelp grows. The notation "awash MLLW" was retained during review because the rocks were visible on photographs taken at -1.9-ft. tide but they were not visible when inspection was made at 12:55, October 5, 1953, at 5.3-ft. tide.

Triangulation station Ship Harbor, 1887, r. 1939, is charted as a bare rock islet, but 1953 field inspection says it is 6 feet above MLLW (MHW Anacortes = 7.4 feet). The 1939 recovery note says it is "6 feet above the mean level of low water", which probably corroborates the 1953 information.

T-12229:

Rocks referred to High Tide by the field inspector have been changed to islets and referenced to H.W. on the manuscript because this inspector referred to other rocks in the immediate vicinity to MHW, indicating that there was a clear distinction in terms. In no case was an elevation given, so that it was not possible to translate them to MHW terms. Hydrography may be able to supply these elevations during the 1955 season.

The approximate LLWL added to the manuscript in the Capsante area is from photo 36425 which was taken at about -2.4-ft. tide.

T-11230 and T-11231:

Sections of chart 6373, with copy of notes made by the field inspector in 1953, are attached.

LTS Feb 1955
Geographic Names:

✓ Rosario Strait
✓ Strawberry Island
✓ Strawberry Bay
✓ Cypress Island
✓ Reef Point
✓ Secret Harbor
✓ Deepwater Bay
✓ Bellingham Channel
✓ Yellow Bluff
✓ Guemes Island
✓ Guemes Channel
✓ Anacortes
✓ Fidalgo Island
✓ Ship Harbor
✓ Shannon Point
✓ Sunset Beach
✓ Great Northern Railway

Names approved 2-8-55

L.H.ock
Geographic Names: T-11229

- Padilla Bay
- March Point
- Hat Island
- Dot Island
- Saddlebag Island
- Huckleberry Island
- Guemes Island
- Boat Harbor (this is a very old name, on earliest survey sheet, USGS quad has Square Harbor, but use approved name pending BGN action)
- Guemes
- Guemes Channel

- Anacortes
- Copsante (a section of Anacortes)
- Copsante Copsante Waterway

- Fidalgo Bay
- Fidalgo Island
- Great Northern Railway
- Anacortes G. School
- Anacortes High School

- Columbian Jr. High School

Names approved 2-8-55
L. E. Heck

Wash. No. 1
Geographic Names: T-11230

Fidalgo Island
Rosario Strait
Telegraph Bight
Langley Point
Langley Bay
Burrows Bay
Alexander Beach
ou
Fleander Bay
Green Point
Washington Park
Fidalgo Head
Short Bay
Burrows Island
Young Island
Allan Island
Williamson Rocks
Great Northern Railway

Names approved 2-8-55.
L. Beck.
Geographic Names: T-11231.

✓ Swinomish Channel (BGN decision in 1954 over Slough)
✓ Padilla Bay
✓ Whitmarsh Junction
✓ Fidalgo Island
✓ March Point
✓ Fidalgo Bay
✓ Grondal Spit
✓ Weaverling Spit
✓ Fidalgo
✓ Deans Corner
✓ Anacortes
✓ S.S. Church of Christ
✓ Pilgrim Cong'l Church
✓ Similk Bay
✓ Similk Beach
✓ Turners Bay
✓ Great Northern Railway
✓ Wash. No. 1 (highway)

Names approved 2-8-55
L. Heck
I recommend that the following objects which **have not** been inspected from seaward to determine their value as landmarks be charted on **strike through** the charts indicated.

The positions given have been checked after listing by **strike through** W. Glover

<table>
<thead>
<tr>
<th>STATE</th>
<th>WASHINGTON</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td>LIGHT</td>
<td>Capsante Range, Front Light</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Capsante Range, Rear Light</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Burrows Island Light, 1926</td>
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<tr>
<td>LIGHT</td>
<td>March Point Light, 1939 &amp; 1950</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Swinomish Slough North Entrance Light 10 (Light 2, 1939), 1950</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Swinomish Slough North Entrance Light 18, 1950</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Swinomish Slough North Entrance Light 26, 1950</td>
</tr>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and **nonfloating aids** to navigation, if reetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* Tabulate seconds and meters
I recommend that the following objects which had not been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by W. Glover.

<table>
<thead>
<tr>
<th>State</th>
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<td>Description</td>
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<tr>
<td>LIGHT</td>
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<tr>
<td>WEST</td>
<td>Swinomish Slough Highway Bridge</td>
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<tr>
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<td>STACK</td>
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</tr>
<tr>
<td>STACK</td>
<td>Anacortes Plywood Company, black steel stack, 1/4 of two</td>
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<tr>
<td>STACK</td>
<td>Anacortes, American Lumber and Box Co., concrete stack, 1940</td>
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<tr>
<td>TANK</td>
<td>Anacortes, Morrison Hill Company, elevated steel tank, 1940</td>
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<tr>
<td>SPIRE</td>
<td>Anacortes, St. Mary’s Church, spire</td>
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<tr>
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<td>E.K. Woods Lumber Co., stack, 1939</td>
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<td>CHY</td>
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<th>Datum</th>
<th>Method of Location and Survey No.</th>
<th>Date of Location</th>
<th>Chart Affected</th>
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<td>1939</td>
<td>6376</td>
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<td>1953</td>
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<td>1953</td>
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<td>1940</td>
<td>6376</td>
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<td>6376</td>
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* Tabulate seconds and meters
PHOTOGRAMMETRIC OFFICE REVIEW
T.11228 time T-11231

1. Projection and grids  
2. Title  
3. Manuscript numbers  
4. Manuscript size  

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  
7. Photo hydro stations  
8. Bench marks  
9. Plotting of sextant fixes  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  
13. Low-water line  
14. Rocks, shoals, etc.  
15. Bridges  
16. Aids to navigation  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Planetable contours  
23. Stereoscopic instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical features  

CULTURAL FEATURES
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS
33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy overlay  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  

Reviewer  
Supervisor, Review Section or Unit  

40. 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  
Supervisor  

43. Remarks:  

W-2623-12
### RECORD OF APPLICATION TO CHARTS

### INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
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<tr>
<th>CHART</th>
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<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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Form C&GS-8352 supersedes all editions of Form C&GS-975.
### Instructions
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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FORM C&GS-8392 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.
USCOM-DC 8955-P93
NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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FORM CGGS-8552 SUPERSEDES ALL EDITIONS OF FORM CGGS-875.