FORM C&GS-504

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

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Office No. T-9946

LOCALITY

State OREGON

General locality NETARTS BAY

Locality NETARTS BAY

19.55

Fred Natella, Chief of Party
Division of Photogrammetry, Washington, D. C.
Alfred C. Holmes, Director, A. M. C.

LIBRARY & ARCHIVES

DATE
DATA RECORD

Tillamook, Oregon
Field Office (II): Tillamook, Oregon
Chief of Party: Fred Natella
Photogrammetric Office (III): Washington
Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 15 November 1955
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Stereotriangulation — C8 Stereoplanigraph,
compiled on C8 Stereoplanigraph and Kelsh Plotter

Manuscript Scale (III): 1:5000
Stereoscopic Plotting Instrument Scale (III): 1:7500
Scale Factor (III): 1.0

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N A 1927 Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (§) refer to mean high water
Elevations shown as ($) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): RED 1926

Lat.: 45° 22' 54.521'' Long.: 123° 57' 14.110'
Adjusted NA 1927
Unadjusted

Plane Coordinates (IV):
State: Oregon Zone: 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.
DATA RECORD


Date: December 1955 to May 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Field inspection and plane table May 1956

Projection and Grids ruled by (IV): Riley

Date: Dec 55

Projection and Grids checked by (IV): Riley

Date: Dec 55

Control plotted by (III): Cook

Date: July 57

Keller

Date: July 57

Control checked by (III): Keller

Date: July 57

Cook

Date: July 57

Ball

Date: July 56

Stereoscopic Instrument compilation (III): Planimetry

Date: July 57

Cook

Date:

Contour

Date:

Manuscript delineated by (III): McDonald

Date: July 57

Photogrammetric Office Review by (III): Keller

Date: July 57

Elevations on Manuscript

checked by (II) (III):

Date:
Camera (kind or source) (III):

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<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
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<tr>
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<td>15 Oct 1955</td>
<td>1105</td>
<td>1:15000</td>
<td>+ 6.5</td>
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<tr>
<td>853</td>
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<td>997</td>
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<td>1212</td>
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<td>+ 6.9</td>
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</table>

Tide (III)

Reference Station: Humboldt Bay, Calif.
Subordinate Station: Netarts Bay, Oregon

Atlantic Marine Center

Review by (IV): O. H. Bishop

Final Drafting by (IV):
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 16
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 26 Recovered: 12 Identified: 22
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): 2 Recovered: Identified:
Number of Temporary Photo Hydro Stations established (III): 9

Remarks: The greater part of horizontal control was re-established in the area of project.
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Shoreline completed</td>
<td>July 1957</td>
<td></td>
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<tr>
<td>Final Review</td>
<td>May 1972</td>
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PLANIMETRIC PROJECT PH-157
NETARTS BAY, OREGON

OFFICIAL MILEAGE FOR COST ACCOUNTS

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>SQ. MI.</th>
<th>LIN. MI</th>
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<td>9944</td>
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<td>2</td>
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<tr>
<td>9945</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>9946</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>9948</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>6</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>
SUMMARY

DESCRIPTIVE REPORT T-9946

This 1:5,000 scale planimetric manuscript is the center one of three maps that comprise Project PH-157, Netarts Bay, Oregon. Originally, five maps were planned, but the two easterly maps, T-9945 and T-9947, were cancelled. The east and west neatlines of T-9946 were moved one half minute to the east at the time of final review, in order that the east side of Netarts Bay would be within the map limit and not in the east margin.

Field inspection prior to compilation was done in December 1955 through May 1956.

Compilation in 1957 was based on control established by a stereoplanigraph bridge using 1:15,000 scale single-lens panchromatic photography taken in October 1955. Most of the compilation was done on the stereoplanigraph; only one model in the project was set on the Kelsh Plotter. Approximately one mile of shoreline extending north-eastward from Station RED 1926 was located by planetable.

In 1960 another stereoplanigraph bridge was run, using 1:30,000 scale single-lens panchromatic photographs taken in 1958, to furnish pass points for compilation of additional planimetric detail by Kelsh Plotter. This additional compilation was never done; the map remains as it was compiled in 1957.

There was no field edit of this map.

Final review was done at the Atlantic Marine Center in May 1972. At the time of final review, the original manuscript was not available; a carbon copy of the ADVANCE manuscript was used. The shore ends of a submerged cable crossing the entrance to Netarts Bay were indicated on the original manuscript, but not connected. This connection was inked and labeled on the manuscript at the time of final review.

The compilation manuscript was a vinylite sheet 2 minutes 15 seconds in latitude by 3 minutes 45 seconds in longitude.

A carbonflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
FIELD INSPECTION REPORT

Project 6157

2. Areal Description

The area covered by the project diagram (amended by sketch forwarded 14 December 1955) includes the town of Netarts, Netarts Bay, portions of Cape Lookout State Park, and the hilly wooded area which lies east of Netarts Bay and west of the Tillamook River.

Netarts Bay is a shallow body of water, about half of which is bare at low water. Its entrance is just west of the town of Netarts and is navigable only to very shallow draft boats. Surf breaks across the entrance much of the time. Some portions of the bay are devoted to oyster farming.

The west shore of the bay is a long sandy spit, extending from the south end of the bay to its mouth. High sand dunes covered with heavy grass or low stunted trees are in the south portion of the spit. Low dunes, sparsely covered with grass, comprise the north end.

On the north end of the bay, and continuing along the east side, the land is higher and more permanent in character. The area, except for the summer resort at Netarts, is covered with a heavy growth of trees. To the east in the foothills of Cape Lookout and to the north toward Cape Meares there is a heavy growth of timber, some of which is presently being logged. This wooded area is interspersed with good logging roads.

The village of Netarts is primarily a summer resort and there is no permanent industry in the town.

Cape Lookout State Park is a state maintained area which includes all the sand spit on the west side of Netarts Bay, and portions of Cape Lookout. A foot trail leads from the park to the extreme west tip of the cape.

The area is served by paved roads from Tillamook.

3. Horizontal Control

Horizontal control within the detail area was sparse. Only two of the 1926 triangulation stations along the coast were recovered (stations RIDGE 1926 and KSD 1926) and the control by the U.S.S. in 1939 along U.S. Highway 101 to the east of the project was found to be of less than the accuracy specified in Instructions.
In order to re-establish control in the area and to tie to the traverse stations of the Corps of Engineers, it was necessary to continue a 1954 scheme from the south end of Tillamook Bay south along the Tillamook River valley to the village of Pleasant Valley and to re-establish control along the outside coast in the vicinity of Netarts Bay.

--Due to weather conditions at the beginning of work on the project, (in early December of 1955) it was necessary to keep the scheme at minimum elevations to avoid cloud concentrations in the hills. Many of the stations required were in valleys and along drainage and some lines required clearing while others grazed buildings or trees. Smoke from mills in the area also affected the visibility.

Signals used were 2x2 uprights with banners. Due to the unfavorable conditions noted above, some stations had to be occupied several times in order to secure the accuracy demanded by second order triangulation specifications. In the last days of the observing, lights were used as targets especially on the long lines in the connection made to the line EDWARDS 1941 - WILSON 1941.

All stations in the Netarts Bay area were observed without difficulty.

a. The following new stations were established. It is believed they are or approach 2nd order accuracy:

<table>
<thead>
<tr>
<th>Station</th>
<th>Station</th>
<th>Station</th>
<th>Station</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALDER</td>
<td>ANDERSON</td>
<td>BURTON</td>
<td>BRIDGE</td>
</tr>
<tr>
<td>ESTHER</td>
<td>FAIRVIEW</td>
<td>KILLAW</td>
<td>MUNSON</td>
</tr>
<tr>
<td>PLEASANT</td>
<td>PRAIRIE</td>
<td>QUICK</td>
<td>SIMMONS</td>
</tr>
<tr>
<td>NETARTS</td>
<td>RAY 2</td>
<td>KRATT 2</td>
<td>K 48 (USE)</td>
</tr>
</tbody>
</table>

Station K 48 (USE) is a relocation of K 48 OSHD which was given a horizontal position by the U.S.E. in 1939.

Stations located by intersection are:

- Tillamook, Shell Oil Co., Tank
- Tillamook, K Til Radio Station Tower
- NORTH
- LINE
- Snag

These were located either because they were objects which were readily distinguishable, because they provided control within specified areas, or to provide the two mile spacing of control for use by the hydrographer.

The following stations which were located by the Corps of En-
engineers by traverse in 1939, were connected by traverse:

A (USE)   P 48 (USE)   VX 48 (USE)   TX 48 (USE)

b. No datum adjustments were made by the field party.

c. Oregon State Highway Department Bench Marks, located by the Corps of Engineers, U.S. Army by traverse in 1939, along U. S. Highway 101 south of Tillamook were connected by traverse to Bureau control and the positions were recomputed.

d. In all areas where control was required by the project diagram stations were either recovered and identified or established and identified. At the extreme west tip of Cape Lookout, BILL 1926 was not recovered and a prominent dead tree (SHAG) was intersected to provide the required control.

e. All Coast & Geodetic Survey control within the project limits was searched for except the unmarked station CAPE LOOKOUT SUMMIT 1903. The summit of the mountain is overgrown and positive identification was impossible.

4. Vertical Control

Tidal bench marks in the vicinity of Tillamook (Hoquarton Slough) were recovered. Bench Mark J 48 of this group was identified.

In the search for BILL 1926 at the west tip of Cape Lookout, a brass nail and washer stamped USGS RM was found in the root of a dead stump. An area of equal elevation was circled in blue on the photograph. No description or elevation for this point was available.

5. Contours and Drainage

No contouring was required by the project instructions.

Drainage was inspected in the field and delineated under the stereoscope.

6. Woodland Areas

The largest portion of the project is heavily wooded. In most areas, the timber is large first growth conifer, either spruce or hemlock with a scattering of cedar. Some parts of the northerly portion of Sheet 9945 have been logged over and a heavy growth of small alders (deciduous) now covers the area.

In the sand spit area west of Netarts Bay and in the coastal area in the northerly extension of Sheet 9944 there is a growth of
stunted pine. Scotch Broom (a shrub) has been planted in the dune area in an attempt to stabilize the shifting sand.

7. Shoreline and Alongshore Features

a. The mean high water line was inspected and delineated on the following photographs:

<table>
<thead>
<tr>
<th>55 W 848</th>
<th>55 W 873</th>
<th>55 W 905</th>
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</thead>
<tbody>
<tr>
<td>853</td>
<td>875</td>
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<td>975</td>
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<tr>
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</table>

The mean high water line appears to be fairly stable both along the beach and within Netarts Bay. Along the beach measurements were made to the mean high water line from points that are identifiable on the photographs and noted thereon. Slight variations were noted in the area along the ocean beach southward from Station NORTH. The shoreline on the north side of the entrance to the bay appears to be rather unstable. The delineation on Photograph 55 W 848 is as of 17 May 1956. The mean high water line around the north end of the spit on the west side of Netarts Bay was located by planetable on photograph 55 W 853. The instrument setup was Station NORTH.

Approximately one mile of mean high water line beginning at Station RED 1926 and extending in a northeasterly direction was located by planetable on Planetable Sheet No. 1, scale 1:10,000. The point of origin was Station RED 1926. The traverse was run by compass and the last setup is indicated on the sheet as Point "B". A position check was made by resection using Stations RAY 2, NETARTS and LINE and the true position of the setup found to be at Point "A". The traverse should be adjusted to this point. Also the traverse was tied to two points identifiable on the photographs. These points on the sheet are relative to the traverse and not to Point "A".

The shoreline from the south end of the ocean beach to the south limit of the project is steep rocky bluffs, the rock being at the waters edge and extending upwards almost vertically until it meets the earth which generally is a steep slope. The bluff line is broken by numerous ravines. The mean high water line in this area is at the base of the bluff, which is in shadow. However, the surf breaking against the bluff can be seen through the shadows and it is believed that by use of the stereoscope the compiler can delineate the mean high water line with a reasonable degree of accuracy. This stretch of shoreline was not inspected at close range because of its inaccessibility. It was impossible to walk along it at any stage of tide and dangerous to take a skiff into the area. See note on Photograph 55 W 910.
Nineteen photographs of shoreline features along the ocean beach were taken with a 35 mm. camera and they are submitted for whatever value they may be to the compiler. The numbers in the center of the top margin on these photos correspond to the number on the negative. They have been indexed on the field photographs. Red ink notes on the 35 mm. photographs correspond to field inspection notes on the mapping photographs. See tabulation below for location and index photograph number.

<table>
<thead>
<tr>
<th>35 mm. photo number</th>
<th>Camera station, approx. location</th>
<th>Indexed on Mapping Photo No.</th>
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<tr>
<td>2</td>
<td>Foreshore area west of Station NETARTS</td>
<td>55 W 854</td>
</tr>
<tr>
<td>3</td>
<td>2000 feet north of station NETARTS</td>
<td>55 W 854</td>
</tr>
<tr>
<td>4</td>
<td>1500 feet southwest of Station NORTH</td>
<td>55 W 847</td>
</tr>
<tr>
<td>5</td>
<td>0.5 mile south of Station RIDGE</td>
<td>55 W 847</td>
</tr>
<tr>
<td>6</td>
<td>At Station CRAB</td>
<td>55 W 911</td>
</tr>
<tr>
<td>7</td>
<td>About 300 feet west of Station CRAB</td>
<td>55 W 910</td>
</tr>
</tbody>
</table>

b. No attempt was made to locate the low water line. At low tide large areas of Netarts Bay are bare.

c. Foreshore on the ocean side is fine hard sand. Within the bay it is mostly mud. On the east side of the bay there is a narrow rocky fringe (about thirty feet wide) between the mean high water line and the mud flats at areas indicated on the photographs and Planetable Sheet No. 1.

d. Bluffs and cliffs have been noted on the photographs. Elevations of the bluffs from Topographic Station CRAB to the south limit of the project were determined by use of the alidade. See note on Photograph 55 W 910.
e. There are no docks, wharfs, piers or other shoreline structures within the project area.

f. There is a submarine communication cable across the entrance to Netarts Bay. The ends have been identified on Photograph 55 W 975.

g. There are no other shoreline structures in the area.

8. Offshore Features

There are no offshore features except for some scattered rocks or rock ledges along the rocky shore along the north side of Cape Lookout. These lie close to the precipitous cliffs and were not investigated as the shoreline is inaccessible from the beach and it was not deemed feasible to investigate from a small boat.

9. Landmarks and Aids

There are no prominent features within the area which could be classified as landmarks.

There are no aids to navigation within the area.

10. Boundaries, Monuments and Lines

The project instructions do not require the location of lines, monuments or boundaries below the county level.

The boundaries of Cape Lookout State Park are shown.

11. Other Control

One recoverable topographic station (CRAB 1556) was set to comply with the requirements for control every two miles.

In addition, nine objects which are believed to be of use as hydrographic signals have been pricked and labeled on the field photographs.

12. Other Interior Features

Roads were classified in accordance with instructions in the TOPOGRAPHIC MANUAL. A paved road leads west and south out of Tillamook and forks to provide access to the north and south ends of the project. Other roads in the area east of Netarts Bay are main logging roads which carry heavy duty traffic and are graveled and maintained by Crown-Zellerbach Corp.

A layout of the road system within this wooded area was secured from the Area Forester for Crown Zellerbach, and the roads were in-
spected and classified. As these roads could not be identified on the photographs, the map secured from the Forester was followed and the existence of the roads shown was verified. It is believed that this road layout can be transferred to the manuscript.

Location of the road system by planetable was not considered feasible due to the time element involved and the fact that these are not public roads.

There are no bridges or overhead cable crossings in the area.

There is an underground and underwater cable crossing at the mouth of Netarts Bay. This is a Coast Guard Telephone line and the ends are shown on Photograph:55 W 975.

13. Geographic Names

No discrepancies with existing map names were uncovered. No detailed investigation was made since the project instructions did not require one.

14. Special Reports and Supplemental Data

Records and computations for triangulation and traverse accomplished in the area have been forwarded to the Division of Geodesy, through the Division of Photogrammetry.

Coast Pilot Information Follows:

Page 332 - line 22 to 28 are correct except delete line 25 from "and bus con-" and line 26 "-nections" as no bus service exists.

Noted and Forwarded, 

Respectfully submitted,

Fred Natella
Condr., C&G Survey
Officer-in-Charge

John C. Lajoie
Cartographer
Coast and Geodetic Survey
21. **Area Covered:**

   The N-S flight of photographs (554-974 through 937) was bridged. The flight covers most of the shoreline on sheets T-9944, T-9945 and T-9948.

22. **Method:**

   Stereotriangulation was performed on the OS stereoplaniograph. Adjustment of the bridge was accomplished mathematically and graphically, using the Universal System of Stereotriangulation Adjustment.

23. **Adequacy of Control:**

   Horizontal control was adequate. Substation KEATT 2, 1956 presented some difficulty during the stereotriangulation adjustment even though it finally fell within the tolerance permitted. The station lies on the side of a ridge and its exact position in the stereo model is debatable. It should be used with caution.

24. **Supplemental Data:** None.

25. **Photography:**

   Crab and extensive water areas made the setting up of the stereo models difficult. Some of these models cannot be set up on the Kalash plotter and, therefore, other photographs covering the area will have to be used during compilation.

26. **Bridging**

   - G. Ball

   Stereotriangulation Adjustment - G. DeKarr, H. Rau, M. Keller

   Submitted by:

   Morton Keller
   M. Keller
   Supervisory Cartographer

   Approved by:

   K. N. Naki
   Supervisory Cartographer
PHOTOGRAMMETRIC PLOT REPORT NO. 2
NETARTS BAY, OREGON
PROJECT PH-5157
June 1960

21. AREA COVERED:
T-9944 through T-9948.

22. METHOD:

This new stereoplanigraph bridge was done to furnish base points to control the compilation of planimetric detail by Welsch plotter. East-West flights which were available were not included for bridging because the flights lacked sufficient control to assure accuracy to the eastern limit of the project layout. Because of this and the paucity of planimetric detail in this area, the project layout will be revised to extend only to the limit of compilation from this single flight of photographs. Photographs used in this stereo-bridge were numbered 58S9296A through 9304 and are at a scale of 1:30,000.

23. ADEQUACY OF CONTROL:

Horizontal control was adequate to provide a basis for satisfactory adjustment of the stereo-bridge. However, KRATT 2, 1956 SUB. STA. (see reference to this station in the Photogrammetric Plot Report of this project dated July 1956) and SAND LAKE N. BASE, 1927-SUB. STA. were both stations of poor image quality and questionable identity.

24. SUPPLEMENTAL DATA:

None.

25. PHOTOGRAPHY:

Photography was adequate in all matters pertaining to stereoplanigraph bridging.

Submitted by:

[Signature]

Approved by:

[Signature]

Everett H. Rowley
Chief, Stereo Mapping Unit
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>G.P. 612</td>
<td>1927</td>
<td>115-22-54.521</td>
<td>1683.2 169.1</td>
<td>1852.30</td>
<td>33.664 3.382</td>
<td>37.046 30.872</td>
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<tr>
<td>LINE, 1956</td>
<td>field comp</td>
<td>1927</td>
<td>115-23-34.017</td>
<td>1051.8 800.5</td>
<td>1852.3</td>
<td>21.036 16.010</td>
<td>37.046 30.872</td>
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</table>
Compilation Report T 9941

Netarts Bay, Oregon, Ph 157

July 19, 1957

General Statement - This is a planimetric project but stereo bridging and compilation are not fully completed except in so far as to provide a complete "advance" shoreline survey. Upon completion of the planimetric maps of this project, a final compilation report will be written.

1. Photogrammetric Plot - See report submitted by M. Keller.

2. Compilation - Because of large water areas involved in this project only one model was set on the Kelsh plotter while the balance were set on the GC Stereoplanigraph. Field inspection was available and was used for location of the high water line and some inshore detail. One section of shoreline on models 976-979 and 979-980 was compiled by planetable methods (planetable sheet no.1, Netarts Bay, Ore.) because of overhanging trees. This section was added to the manuscript by use of a projector.

Some difficulty was experienced in holding bridge pass points in heavy tree areas. The points located in more open areas and along the shoreline were all held with the exception of 803 which appeared to be misidentified on the photo. Another point was established in this area and was held on several models.

3. Additional data - Office ratio photographs were prepared covering all shoreline areas. Shoreline pass points were identified on these photos with 6 mm circles in red or yellow ink depending on the tone of the area. The same points were indicated on the manuscripts with 6mm red circles.

Approved:

M. Keller

M. Keller
April 21, 1972

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-171 (Oregon)

T-9946

Netarts Bay
Pacific Ocean

Approved:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Pickett
Cartographic Technician
REVIEW REPORT T-9946

PLANIMETRIC

May 3, 1972

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

No comparison print was made for this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A visual comparison was made with Survey T-4336, scale 1:20,000, dated May 15 - August 10, 1927. No significant differences were noted.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with AMS SHEET 1274, IV, TILLAMOOK, OREGON, scale 1:50,000, dated 1947. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Survey H-8372, scale 1:10,000, dated August - September 1957. No significant differences were noted. T-9946 was the base map for shoreline in the area compared.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 5902 Insert, scale 1:30,000, 10th edition, dated June 19, 1971. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

The primary purpose of this survey was to furnish shoreline and photo-hydro support for a hydrographic survey. This was accomplished. Since KRATT 2, 1956, the only station in the project area that gave trouble in the bridge, was held within the tolerance permitted, it is assumed that this map meets the National Standards for Map Accuracy. No accuracy tests were run in the field.
Reviewed by:

Charles H. Bishop

Charles H. Bishop
May 3, 1972

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

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Chief, Photogrammetric Branch, Chief, Coastal Mapping Division