DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
E. Lester Jones, Director

State: OREGON

DESCRIPTIVE REPORT
Topographic Sheet No. B 4401

LOCALITY
Oregon Cook Point
Curry County Whales Head to
Mack Arch to Whaleshead

1928

CHIEF OF PARTY
DESCRIPTIVE REPORT
TO ACCOMPANY

TOPOGRAPHIC SHEET NO. B - - - - - - - - SCALE: 1 ; 10,000

Instructions Dated March 13, Supp. May 8, 1928. Str. DISCOVERER

EXTENT: This sheet extends from Crook Point to a point on the
shore line opposite Whalehead. The entire shoreline and all
off-shore rocks were relocated.

GENERAL DESCRIPTION: The shoreline is bold and abrupt along this
section of the coast, with the high-water line at the base of the
bluff, except for short stretches in some of the bights where
there is a small beach between the high-water line and the bluff.
The bluff is slightly convex from Crook Point south to the small
headland opposite Yellow Rock, but from here south the bluff is
bare rock, for the most part, and varies from forty or fifty
feet up to two hundred feet in height. The character of the shore-
line is well shown by the topographic sheet executed in 1873
and has not been duplicated on this sheet.

SURVEY METHODS: The shoreline, rocks, and important contours were
transferred from the photostat of Sheet 1317, and the location
obtained by the old and new work was compared as the topography
progressed.

A traverse was run from Whalehead southward, and from
Whalehead northward, meeting near the center of the area to be
surveyed. The error in alignment was three meters and the error
in distance thirty meters. A section of the traverse from the
north, run under very unfavorable conditions, was rerun, and
the closing error reduced to eight meters, which was adjusted.

Rod readings were taken on the shoreline, where ever
possible, supplemented by cuts, and angles of depression were
taken to points impossible to reach, where the plane-table was
at sufficient elevation to give the desired accuracy. Before
using angles of depression the elevation of the instrument above
the water line was obtained and checked, and angles less than
twenty degrees were seldom used.

Numerous cuts were taken to off-shore rocks to deter-
mine their location and shape, and it was found that a number of
them were shown too large on the previous sheet, and a considerable part of the change of position was due to this feature. The majority of the rocks were shifted slightly, none of the changes being large, and in only one instance was a rock shown on the previous sheet that did not appear on the ground. This discrepancy was noted on the topographic sheet in pencil.

From Mack Arch to opposite Yellow Rock the old and new location of the shore-line agreed quite closely, and any changes might be laid to erosion. South of Yellow Rock the coast is very difficult, and wide discrepancies in location were obtained in some of the bights and around a few of the headlands. Near the old triangulation stations the shore-line, as shown on the photostat, agreed with the new location, and it appears that the shifting in the bights may be due to faulty traverses run to these points. Along the southern end of the sheet the new location coincided quite closely with the old position.

A few elevations were taken to check the contours, and in a majority of instances were found to agree with those shown, a few positions being in error by a considerable amount, especially on steep slopes and where vegetation interfered with sights to the extreme top of the ridge. The character of the country is as delineated by the contours, and the creeks are as shown. In recent years the trees and brush have grown out to the top of the bluff, along the central portion of the area, and it is impossible to obtain any elevations without taking considerable time and running a special traverse.

MAGNETICS: Declinometer #175 was used to obtain the magnetic variation at Whalehead.

Variation scaled from topographic sheet - - - 20 35 E
Correction to declinometer - - - - - - - - - - - - - -

True variation - - - - - - - - - - 20° 24' E

Respectfully submitted,

Gilbert R. Fish
Aid,
Topographer.

Approved and forwarded:

F. G. Engle
Chief of Party.
**PLANE TABLE POSITIONS:**

<table>
<thead>
<tr>
<th>Object</th>
<th>Latitude D.M.</th>
<th>Longitude D.M.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WW</td>
<td>42-09</td>
<td>1873</td>
<td>124-21 916 Whitewash on rock, face of bluff.</td>
</tr>
<tr>
<td>Shin</td>
<td>-10</td>
<td>220</td>
<td>-21 1071 Signal cloth on bush, top of bluff.</td>
</tr>
<tr>
<td>Top</td>
<td>-10</td>
<td>969</td>
<td>-22 473 Top of most W'ly rock for several miles about 18'bg.</td>
</tr>
<tr>
<td>Point</td>
<td>-10</td>
<td>953</td>
<td>-21 1277 Peak of westerly of 3 light brown pointed rocks.</td>
</tr>
<tr>
<td>Lost</td>
<td>-10</td>
<td>1131</td>
<td>-21 883 WW on face of bluff about 40'</td>
</tr>
<tr>
<td>Tree</td>
<td>-11</td>
<td>19</td>
<td>-21 1156 Signal cloth in tree, on point Elev. 300'</td>
</tr>
<tr>
<td>Dead</td>
<td>-11</td>
<td>647</td>
<td>-22 141 Small dead pine tree(bushy), on point.</td>
</tr>
<tr>
<td>Pine</td>
<td>-11</td>
<td>885</td>
<td>-22 409 Tallest pine tree on highest part of island. Rock has a low portion extending to south.</td>
</tr>
<tr>
<td>High</td>
<td>-11</td>
<td>1453</td>
<td>-22 713 Top of knob on rock south of point.</td>
</tr>
<tr>
<td>Dot</td>
<td>-11</td>
<td>1560</td>
<td>-23 233 Highest point of white tipped black rock about 1 mile south of Yellow Rock 43'</td>
</tr>
<tr>
<td>Spire</td>
<td>42-12</td>
<td>1321</td>
<td>124-22 836 Rocky peak on NW point of jutting land.</td>
</tr>
<tr>
<td>Yel</td>
<td>-12</td>
<td>1253</td>
<td>-23 432 Top of long hump on Yellow Rock 84'</td>
</tr>
<tr>
<td>Tip</td>
<td>-13</td>
<td>464</td>
<td>-22 1007 WW tip of pointed rock.</td>
</tr>
<tr>
<td>Row</td>
<td>-13</td>
<td>777</td>
<td>-22 1183 WW on face of bluff.</td>
</tr>
<tr>
<td>Pest</td>
<td>-13</td>
<td>1332</td>
<td>-23 256 Signal on top of small grassy knoll.</td>
</tr>
<tr>
<td>Wash</td>
<td>-14</td>
<td>88</td>
<td>-23 688 WW rock on top of bluff.</td>
</tr>
</tbody>
</table>
STATISTICS FOR TOPOGRAPHIC SHEET NO. 1317-B

Statute miles of shoreline — — — — — — — — — — — 14.4
Statute miles of roads — — — — — — — — — — — 12
Area, square miles — — — — — — — — — — — — — 22.5
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4401

Whales Head to Mack Arch, Oregon

Surveyed in 1928

Instructions dated March 13 and May 8, 1928 (DISCOVERER)

Chief of Party, F. G. Engle.

Surveyed and inked by G. R. Fish.

This survey complies with the general and specific instructions. The old surveys were transferred to the sheet for checking, as instructed, and the new survey should be used for chart compilation of shoreline and rock details to the exclusion of the old work.

Rocks and islets form the dominating features of this sheet, and the representation of the rocks is faulty. The topographer appears to have departed from Coast Survey practice in the use of sunken and awash rock symbols.

On low water areas there are 36 sunken rocks, which is an impossible formation. They probably should be awash rocks. Outside of the low water line are 10 awash rocks and 243 sunken rocks. Many of the sunken rocks are isolated and have no connection with along-shore reefs. In view of the difficulty in locating this class of rocks by the topographer it is believed that most of them were visible, in which case they are dry or awash.

The majority of these rocks, as well as many of the dry rocks, were shown of microscopic size and had to be retouched in the office.

The junctions of the shoreline with the adjoining sheets are adequate, but the representation of rocks at the junction with T. 4410 differs. There is no way to decide which sheet is correct.

Pencil notations of doubtful details which should be cleared up by the field party have been placed on the sheet.

Reviewed by E. P. Ellis, June, 1929.

Approved:
(Signed) L. O. Colbert
Chief, Division of Charts

Chief, Field Records Section (Charts)

Chief, Field Work Section (E. & T.)
The present survey had several notes in pencil showing rocks and islands which were not found. These features were thoroughly investigated in accordance with standard methods of treatment of such matters. Rocks whose existence has been disproved are not carried forward and at the same time pencil notations have been removed as no longer necessary. However, this method of leaving a pencil notation for each rock which has been disproved is highly desirable, while the Descriptive Report does contain only a general statement that some rocks were not found.

Revised by [Signature]
March 9, 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter ... B

REGISTER NO. 4401

State. Oregon
General locality. SUTT COUNTRY, COOK POINT
Locality. WHALES HEAD TO MACK ARCH

Scale 1:10,000 Date of survey Oct. & Nov., 1928
Vessel U.S.C. & G.S.S. DISCOVERER
Chief of Party. F. G. Angle
Surveyed by Gilbert R. Fish, Aid.
Inked by Gilbert R. Fish, Aid.
Heights in feet above H.W. to ground to tops of trees
Contour approximately every foot line interval 20 feet
Instructions dated March 13, Supp. May 8, 1928

Remarks: 

U.S. DEPARTMENT OF COMMERCE: 1927