



# 3113

U.S. GEOLOGICAL SURVEY  
LIBRARY AND ARCHIVES.  
FEB 14 1911

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

## DESCRIPTIVE REPORT.

*Topo &* Sheet No. *3113*

LOCALITY:

*Tongass Narrows*  
*Hard Cove to Pt. Hg-*  
*gins*

1901

CHIEF OF PARTY:

*R. B. Herickson*

3113

U. & G. SURVEY,  
LIBRARY AND ARCHIVES  
FEB 3-1911

3113

U. & G. SURVEY,  
LIBRARY AND ARCHIVES  
FEB 3-1911

*Top 3113*

Locality:-

Tongass Narrows, S.E. Alaska. From  
north entrance of Narrows; Vallenar Point  
and Point Higgins to Rosa Reef and shore  
opposite Rosa Reef; and Ward Cove.

Date of Survey:

May 2, to May 27, 1910.

Scale 1:10000

By the Party of

R.B. Derickson, Ass't.,

Commanding U.S.S. "GEDNEY"

F.B.T. Siems, Aid,

Topographer.

*Top*  
Statistics of Sheet *3113*

15 miles of shore-line.

13 square miles, area, (approx).

3113

C. & G. SURVEY,  
LIBRARY AND ARCHIVES.  
FEB 4 1911

Descriptive Report to accompany

Plane Table Sheet ~~2~~ 3113

of

Tongass Narrows,

S.E. Alaska.

Scale 1:10000

U.S.S. "GEDNEY"

1910.

R.B. Derickson, Asst., Comdg.

F.B.T. Siems, Asst.

Chief of Party.

Topographer.

Descriptive Report to accompany Plane-Table Sheet "2" 3113  
of Tongass Narrows.

This sheet was made for the purpose of surveying the remainder of the shore line of the northern part of Tongass Narrows, left unsurveyed last year by the closing of that season's work. It comprises Ward Cove, and the shoreline northward to Rosa Reef on the south west side, and northward of  $\Delta$  Blue on the north east side of the Narrows.

General Description of the Shore.

The northern part of the Narrows present a general rocky irregular coast line, indented by several small bays. There is a little beach in most places, and it is rocky except where sediment of streams have formed small flats. Patches of gray sand, however, lie between the ledges of rock forming the beach.

The south west side of the Narrows terminates at Valinar Point with islands and rocks lying off in the general direction of the Narrows. The island nearest the point is sparsely covered with stunted growth of timber, the remainder of the islands and rocks are barren and have a bleak appearance. Kelp grows profusely about the rocks, and the region as a whole is foul. Valinar Rock is the outer rock of this group, it is about 10 feet above high water.

Point Higgins marks the end of the Narrows on the north east side. Several broad ledges extend from this point with outlying rocks, at low water.

Pond Reef lies near the northeasterly side of the Narrows. The Rocks bare at half tide and covered with kelp at higher stages of the tide. A Reef lies on the other side, but in a small bay well inside the general shore line, ⊙ Reef was built here; this reef also bare at half tide.

The elevations on both sides form the foothills of the mountains south east of them. The entire area is covered with timber.

Ward Cove has an irregular rocky shore with considerable flats at the head of same, caused by the sediment brought down by a large stream flowing from a lake in the mountains. The beaches at the entrance on both sides are steep-to widening on approaching the head of the Cove.

#### Inshore and Outshore Dangers.

There are few dangers in this part of the Narrows. The inshore dangers are the rocky beaches where they extend a considerable distance from shore as shown in several places on the sheet, and the foul area off Valenar Point.

Pond Reef is the only outshore danger, the hydrographic survey will show deep water in all other parts of the Narrows.

Boyles Reef in Ward Cove is marked by a buoy.

#### Methods of Survey.

The survey was made on a polygonic projection on a scale of 1:10000. The relative position of Ward Cove to the part of

the Narrows surveyed, is correct as shown on the sheet. The triangulation points of R.B.D. 1909 were all recovered. A plane-table triangulation of Ward Cove was made with  $\triangle$  Nemo and  $\triangle$  Sim as a base. All the data shown on the sheet was [were] determined in the usual way with rod and plane-table stadia.

To show elevations adjacent to the shore line fifty foot contours were drawn. The heights of mountains as shown on the sheet are the elevations at the ground.

Respectfully submitted,

F.B.T.Siems,

Assistant, C.& G.Survey.

Topographer.

Revised and approved.



Asst., Comdg. Chief of Party.