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G. C. B. ...
L. S. ...
Feb. 2, 1911
Area No.

Form 304
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Alaska

11-5812

DESCRIPTIVE REPORT.

Topic _____ Sheet No. 3681

LOCALITY:

Stephens Passage

Outer Point to Shel-

ter Island, S. E. Alaska

191

CHIEF OF PARTY:

L. O. Colbert

1883

Descriptive Report

to accompany Topographic sheet,

Stephens Passage, Outer Point to Shelter Island.

S. E. Alaska.

Chief of Party — L. O. Colbert.

Surveyed by — Ernest E. Reese.

Scale; 1/20,000.

Descriptive Report to Accompany Topographic Sheet
Number 3681

Stephen Passage from Horse Id. to Shelter Id.

Extent

The area included on this sheet is at the north end of Stephen Passage. It compresses the shore line on Douglas I. from a point $1\frac{1}{2}$ miles WNW of the light house on the south shore of the island to Entrance Pt., that from the lower end of the peninsula opposite here up through Anke Bay to $\frac{1}{2}$ mile N. of Pt. Louisa, that on Mansfield Peninsula from a point 1 mile west of Symonds Pt. down to a point directly opposite the lower end of Horse I. and nine miles of the shore in the south or upper end of Barlow Cove. It also includes all the islands within these limits and the contours of the areas surrounding same.

Control and Method of Survey.

Of former triangulation in this locality the following stations were recovered; Oat, Cling & Rock at the time of beginning the work and Cow and Bib later on. Triangulation Eagle also is apparently the same as the former triangulation Whim. From these stations a plane table triangulation was extended over the entire sheet

for control of both topography and wire drag work. After the work was completed the geographic positions of Lu, Symonds, Cabin and Clearing were obtained from the primary triangulation party and compared with topographic locations of same. The errors in their locations were 10, 9, 9 and 0 meters respectively. The errors in Symonds and Cabin were caused by incorrect three point fixes obtained with the use of Lu. What little adjustment was found necessary was made on the sheet. Traverses were carried around Horse I. and (Shelter I) and these checked out well. Most of the remainder of the work was done at intersection stations or at three point fixes. The work in Barlow Cove was controlled by a plane table triangulation.

General Appearance of Country.

All of the land in this locality is wooded except the tops of the mountains of over about 3000 foot elevation. Portland I., although not very high, is thickly wooded and shows well from the south. There are so many peaks on Douglas I. back of Outer Pt. that none of them show out very prominently. There is some flat land at the foot of the southwestern slope of

these mountains but the foot of the northwestern slope is very abrupt. The mountain range inshore from Pt. Louise is very steep on the southwest side and shows very prominently from the vicinity of Outer Pt. Only the southeast slope of this range comes on this sheet. Coghlan I. is wooded and easily picked up in approaching Anke Bay cannery. Lone Mt. stands out very prominently above the surrounding country and is an excellent landmark, especially from the northwest. Between Lone Mt. and the two ranges back of Horse I. is a prominent valley of 200 to 300 foot elevation. There are no definite points on the first range back of Horse I. but on the second range the 3450 foot peak is prominent on account of being high and snow-capped except for a very short time in the fall. The 2640 foot peak shows prominently from the vicinity of Outer Pt. on account of its abrupt slope on the left and the very flat shoulder 300 feet below it on the right side. This peak is green during about 5 months of the warmest weather. Colt and Horse islands are both wooded and easily picked up by

a ship but not of great help in navigation as ships use the opposite side of Stephens Passage.

Shoals and Small Rocky Islands.

A rocky shoal 800 meters 156° True from S Outer bears 7 feet at L.W. and is about 60 meters in diam. This is not shown on the present chart. This shoal extends almost 100 meters outside of a line between adjacent points on Douglas Island and is dangerous for small launches.

A rock awash at L.W. lies 180 meters 12° true from S Cling. Not shown on present chart.

The rock shown on the present chart on line between and $\frac{1}{3}$ of the distance from Shaman I. to Outer Pt. seems to plot about 10 to 20 meters off the reef as actually in existence. I was at Shaman I. when the tide was -2 feet and there was no sign of any rock outside of the reef and the rock was probably meant for the outer point of the reef. The topography in this bay is considerably in error on the present chart.

George Rock bears 3 feet at M.H.W. or is awash at H.H.W. As to this fact chart #8235 is in error.

and chart #8302 is correct.

Spuhn Rock was located by other members of the wire drag party. It was not visible or breaking at times when I was in the vicinity and thus is not on my sheet.

The rocky shoal on the NE side of the channel NE of Spuhn I. is bare 1 foot at MHW.

A rocky shoal 80x40 meters bare 4 feet at L.W. is 180 meters 284° true from S. Mal.

A rock awash at -1 foot tide lies 280 meters 242° true from the island $\frac{1}{2}$ mile NW & N. of S. Mal. This is not shown on present chart. Sunken rocks extend 30 to 40 meters N & E of this rock.

Two rocks awash at -2 foot tide lies 380 meters 95° true from the same island. They are 40 meters apart in a line N & S separated by water 2 to 3 fath deep. These rocks not shown on present chart.

In the center of the ~~shoal~~ small cove 1.3 miles SE & S (mag) of Anke Bay cannery is a rock awash at (-2) ft. tide.

One hundred forty meters 228° true from the small island on the NW side of this bay is a rock awash at -1 ft. tide. This is not on present chart.

Thirteen hundred meters 92° true from S. Lu are 2 rocks bare 4 ft. at L.W. Not shown on present chart.

Thirteen hundred meters 109° true from Δ LU is a rock bare 7 ft. at L.W. Not shown on present chart.

Two rocks in the channel NW of Coghlan I and one SE of Δ LU were located by other members of the party. These are all slightly below L.W.

The highest part of the rocky shoal 1420 meters 117° true from Δ Lu is bare 5 ft at M.H.W. The shoal is rocky except the NNW quarter which is sand and gravel. The shape of this shoal is different than that shown on the chart. 200 meters 13° from the highest part of this shoal is a rock awash at -3 feet tide.

The rocky shoal 1160 meters 157° true from Δ Lu is bare 8' at M.H.W. Both present charts are incorrect in this respect.

A rocky shoal bare 8 ft. at L.W. lies 1130 meters 327° true from Δ Bib. The same elevation is given on present charts.

A rock awash at L.W. lies 5 M 292° from Δ Bib. This is not shown on present chart.

A rock bare 5 ft. at L.W. lies 1300 meters 305° from Δ Horse

A rock awash at L.W. lies 280 meters 114° from Δ Hot.

This is not shown on present chart.

A group of 3 rocks bare 1 to 2 ft at L.W. lie 1240 meters 80° from Δ Horse. The whole group is about 220×70 meters extending about N & S.

A sandy and rocky shoal bare 8 ft at L.W. lies 1580 meters 111° from Δ Horse. The elevation as given on chart No. 8302 is correct but that on No. 8235 is not. The shoal is approximately 250×110 meters extending E and W.

Close to shore and about west from Δ Eagle a rocky shoal with 8 ft of water at L.W. and covered with kelp, was found late in the season while passing in launch. It is shown on ~~chart~~ topographic sheet and a report on it was made by letter to the Superintendent and forwarded by Capt. L. C. Colbert about the first week in October.

Shore Line.

High and low water lines and the areas between them are shown by their characteristic symbols. at some places where the low water line did not appear to extend off shore ^{very far} and where it appeared to be correct on the chart it was not obtained on account of not being able to get there.

at L.W.. The reef at Outer Point extends farther W.N.W. than shown on the chart Shamen Id and the reef surrounding it are incorrect on present chart. About half the cove shown on chart is bare at low water, the island being connected to the mainland by a gravel bar. There should be only one island where 2 are shown close to the mainland and 1.2 miles S.E. of Anke Bay cannery. The L.W. south east of here is not correct on the chart. The reef at the point 0.6 mile S.W. of here is much different than on the chart. At L.W. a bar, not shown on chart, extends from the first point E.N.E. of Old Anke Village to the near island S.S.E. of the point. A rocky point in the bay at Symonds Pt. is not shown on the chart. The 2 small islands shown on the S.W. side of Portland I. do not exist. The reef ^{at this place} is all covered at H.W. The reef around Colt I. is not correct on the chart and the reef extending west from the N.W. end of Horse I. is rocky instead of sand or gravel. The reef off the S.E. point of the same island is rocky. The river west of S. Cleaving is too far N.W. on the chart and the sand spit off of it ^{is} does not extend shown out far enough.

Contours.

The contour interval used is 100 ft. Elevations are to the actual surface visible to the eye, that is to tree tops in wooded areas and to land in areas not wooded, as the parts of mountains above tree line. All prominent points are located by 3 or more cuts except the 3430 foot peak on Douglas I. Only 2 cuts were obtainable here without costly delay as the peak was covered with clouds at most times. The two elevations checked well and the cuts were to a fairly definite part of the peak. The contours on Douglas island are considerably different than those shown on present chart. The location of the highest point agrees quite well with mine but the general shape of the contours is very much different and the elevation of the most WNW'm knob which is 1670 ft high is at least 400 ft too high on the chart. Pottland I, which is only 160 feet high to tops of trees, is shown 206 ft. on chart. The location and elevation of Lone Mt. on the chart agrees well with mine. Broken line contours are in areas that could not be seen.

Sailing Directions

Ships going from Jurean to Skagway or to the

westward pass up Stephens. Passage favoring Douglas side. Then they leave Portland I on the starboard beam and if going to Skagway take Favorite Channel but if going to the westward take Saginaw Channel. This area was dragged during the present season and no dangers found. As previously stated Portland I. is a very prominent land mark. The reef extending WNW from Portland I is dangerous as the end covers at half tide. A good range for small boats to use in rounding the end of the reef is to have the cannery at Anka Bay on line with the right tangent of the 70 foot island of the group of 3 islands which are ~~connected~~ connected at low water. The cannery in line with the round top 30 ft. islet nearest Coghlan I. puts you at the end of the reef.

George Rock can be easily seen except at tides of about 15 feet or over. at 15 ft. tide the area bare is small. The water on all sides of the rock deepens rapidly. Spuhr Rock is dangerous as it is not visible except at very extreme low water and the water very seldom breaks on it.

Ships entering Anka Bay from the south

should pass about $\frac{1}{3}$ the distance from George Rock to Portland I. and then head for a short distance to the right of Coghlan I. Round Coghlan I. close aboard on the port side and then head a little to the left of the 25 foot high, bright green, grassy point $\frac{2}{3}$ of a mile to the left of the cannery so as to clear the rocks off the little island one mile NW of Spude I and one mile ENE of the north end of Coghlan I. Then head for the cannery, which is plainly visible.

On the present chart No. 8235 this last mentioned small island is shown much like a reef instead of being of a buff color like the similar islands near it and is apt to lead a stranger to believe that there is a shoal NW of the last island visible.

Although the passage over the flats between Fritz Cove and Juneau does not come on this sheet, I might note that at the present time the shoalest place in the channel is at the bar just east of the only island in the passage. This bar is awash at about 12 foot Juneau tide. At present a row of stakes marks the south edge of the channel.

Hydrographic Stations & Recoverable Objects

<u>Object</u>	<u>Remarks</u>	<u>Latitude</u>	<u>Longitude</u>
○ Pole	^{off reef.} flag at highest point	58° 21' 12.12 ^{M.}	134° 43' 34 ^{M.}
○ Man	hyd. station mark on ^{WW} boulder	" 21 98	" 42 190
○ Cof.	" " " " rky point	" 20 1412	" 41 406
○ Hal	hyd. sig. not recoverable	" 21 4	" 39 798
○ Can	S. gable, ^{west} main building, Cannery	" 22 1320	" 38 700
○ Back	W " new house	" 21 1328	" 38 536
○ New	NW " of house	" 21 630	" 38 558
○ Shack	NW " " "	" 19 990	" 35 973
○ Tall	tree on rky islet, elev. 30 ft.	" 21 1864	" 41 730
○ Geo.	George Rk., 3' at MHW.	" 18 1524	" 41 947
○ Tent	E gab. tent, not recoverable	" 17 1113	" 48 120
○ Slat	slate on tree at ^{possibly recoverable} ^{mont} NE point.	" 20 768	" 50 146
○ Cat	W.W. rocks on cliff on pt.	" 19 1678	" 52 400
○ Gel	natural yellow on cliff	" 19 430	" 53 210
○ Small	WW on small boulder at ^{HW}	" 20 176	" 53 760
○ Stump	WW stump, not permanent	" 20 1508	" 54 00
○ Roof	W. gable of house	" 22 1800	" 39 310

Statistics.

Shore line surveyed (statute miles) =

Area covered by topography (sq. stat. mi) =

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No.

3681

State . . . *Alaska*

General locality . . *Stephens Passage*

Locality . . *Outer Point (Douglas I.) to Shelter I.*

Chief of party . *L. O. Colbert*

Surveyed by . . *E. E. Reese*

Date of survey . *May & June 1917*

Scale . . *1/20000*

Heights in feet above . *H.W.? (See par. "Contours" page 9 of D.R.)*

Contour interval *100* . feet.

Inked by *J. Drederick* Lettered by

Records accompanying sheet (check those forwarded): Photographs, . .

Descriptive report, Horizontal angle books, Field computations, . .

Data from other sources affecting sheet

Remarks: *Unable to ink sheet on account of orders from War Department to report for duty. Report will be forwarded soon. Kindly refer to Chart 8302 for names etc (BF)*

Applied to Reconstruction of Chart 8225 Jan 26/1940 C.R.B. Jr.