4190

8. 8. G. SURVEY

Diag. Cht. No. 8102-2

DESCRIPTIVE

And. Sheet No.

Clarunce

Caama

Caama

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: Salaha

DESCRIPTIVE REPORT.

And. Sheet No. 4190

LOCALITY:

Clarence that

Caamana Point.

1984

OHIEF OF PARTY:

1 Handles

DESCRIPTIVE REPORT To accompany hydrographic sheet number "A".

This sheet shows the off-shore hydrography executed by the Steamer WKNONAH in Clarence Strait. S.E. Alaska, from Moira Sound to Caamano Point, in accordance with instructions dated February 11, 1921.

LIMITS: The southern limit of the work on this sheet overlaps and continues the work on sheet 4158 that was completed by the party during the past season, and the northern limit overlaps previous wire drag work extending from Guard Island to Grinball Island. The eastern limit or work joins previous work at the entrance to Michols Passage and the inshore launch work executed by the party from pall Head to Guard Island. To the westward the work joins the inshore launch work extending from Moira Sound to Island Point.

SURVEYING METHODS: With the exception of one day, when the leadline was used to develop the shoalest part of 20-fathom sank, all soundings were obtained with the steam sounding machine and registering sheave, the ship being stopped for each sounding and a position obtained. The control for the work was excellent, all signals, with the exception of three topographic stations, being located by triangulation. All plotting was done in the pilot house and the smooth sheet was plotted during the progress of the work through a tracing paper boat sheet placed over the smooth sheet, the position numbers being tried after the one of each day's work. The shoreline shown on the sheet was reduced from the topographic sheets.

GENERAL DESCRIPTION: With the exception of 20-rathom bank and a small area in the vicinity of Guard Island, all work is in usep water and requires no special comment. 20-rathom bank is a large shoal area on the west side of the Strait between Skin and Friedall Islands. It does not extend quite so far east as shown on thank 3002. The shoalest part of this bank was developed with the lead line and the losst depth found was 17 fathoms. The bottom in this vicinity is rocky and the bank is extensively used by small fishing vessels engaged in trolling. As many as forty launches were counted on this bank at one time.

The soundings obtained on "D" may from positio: So to position 42 do not agree very well with the overlapping leanth soundings. This part of the line was ran under unfavorable weather conditions for seeing signals and was retrue later, both lines below shown on the sheet.

Dalidars: No dangers to navigation were found in the area covered by this sheet. A careful search was made for the rocks shown on chart 3102 a little over a mile southwest of the Wedge Islands the marked "L.D.". The locality was carefully watched whenever the bair has in the vicinity and especially during stormy weather when there was considerable swell. Several lines were then run over the location with the landsch without finding any indication of the shoal. As it then seemed fairly certain that the rocks do not exist several lines were run with the ship, the submarine sentry being set at lo fathoms. The lack of any indication of a shoal in this locality, the generally deep water found and the gradual slope indicated by the soundings seem to prove that these rocks do not exist.

covered by this sheet are given in the descriptive reports accompanying the various launch in-shore sheets. While there are numerous mountain peaks, slides, outcropping rocks, etc., in this region, most of them are indefinite and difficult to describe and would be of little value to the navigator if charted. In addition to the lighthouses there are so many islands and well defined points that excellent fines can be obtained by cross bearings on tangents, ranges, etc., at practically any point in the area covered by the sheet.

ANCHORAGES: The following anchorages were used by the snip while engaged in the work on this sheet:

Niblack Anchorage; A well protected anchorage with limited swinging room. While the entrance is very narrow the anchorage is casily entered by means of the chart and present coast pilot notes. The rock shown as P.D. on the chart of the anchorage was located by the party a short distance south of it's reported location and the correct location was reported. The town of Hiblack is abandoned and the wharf has been destroyed. During heavy storms the wind blows with considerable velocity directly parallel with the long axis of the anchorage.

Chasina Anchorage; This anchorage is well protected from southerly winds and the ship was anchored there during several severe storms. The bottom is rocky out no tendency to drag was noted.

Vallenar Bay; This anchorage is well protected from scatherly winds but some swell makes in during heavy storms.

Saltery Cove: This anchorage was used for the last part of the work. The ship anchored in about the middle of the cove in 13 fathoms, mud bottom. This anchorage was used during very stormy weather and very little wind was felt. It is easily entered by means of the chart, especially after the corrections reported by the party are made, out should not be entered at extreme high water unless necessary as most of the rocks along the sides of the cove are then covered.

Respectfully submitted,

J.H. Hawley, Chief of Farty.

STATISTICS SHEET NO. A (field Number)

Date,	1921	. Letter	Vol.	Fositions	Soundings	Miles(stat)	Vessel
May	် 13	<u>a</u> .	1	11	. 11	7	Ship
"	ිබර	В	- -	45	45	∠8 ′	11
n,	. 7		ī	48	48	54 54	п
10.4	,26	· C					4
Jun	7: 1	Þ	1	42	42	27.5	
23	, 4	E	1	65	65	40	#1
18	23	F	1	. 29	29	16	*1
	24	G	1	40	40	22	ΙŢ
Ju1	v 1	Ħ	1	30	3 0	1:3	71
Aug		J	1	43	43	21	н
11	24	· J	2	16	16	4	11
18	25	K		50	50	37	. 4
44	26	L	2	49	49	. 31.5	18
Sep	t 7	M	- 2	41	41	10	II.
17	8	N	2	42	42	15	12
17	10	0	2	6 7	67	13.5	20
'n	12	P	2 & 3	o 84	87	16	a
**	13	€ .	3	63	63	14	17
#1	15	R	3	128	128	<u> </u>	•1
**	16	S	3	113	113	20	11
н	22	T	4	161	127	10.5	a
Oct	13	Ū	4	47	47	9	TP.
		Totals		1094	1185	405	

TIDAL DATA

Hydrographic Sheet No. λ

Soundings in fathoms at M.L.L.W.

Automatic tide gauge _t Menefee Anchorage, Moir. Jound, used for reduction of soundings north to Chasin. Foint.

Tide gauge at Vallenar Bay used for reductions on east side of strait north of Chasina Point.

Tide gauge at Clover Bay used for reductions on a0-fathom Bank.

Pide gauge at Saltery Cove, Skowl Arm, used for reduction of one day on aQ-fathom Bank.

For other data relative to above gauges see launch sheets.

LIST OF SIGNALS Hydrographic Sheet No. a

Hydrographic Name Full Name, location, etc.

Buok	Dist. and out	from Sta	ation Scott, 1921.
Po1	Triangulation	stat1on	
Sun	11	11	Sun. 1912.
Big)1	**	White mook, 1912.
Mo	н	7.6	Moira Rk. L.H., 1921.
Nest	11	· • • • • • • • • • • • • • • • • • • •	Nest, 1912.
Wedge		**	Wedge I., 191z.
Dol	#	14	Dol, 1921
Hal	rt	1.0	Hal, 1921
South	n	17	Chasina J., 1912.
North	4	1.0	Chasina N., 1912.
Skin	11	18	Skin 1., 1912
Clover		**	Clover, 1921.
Land	3#	11	Island et., 1912
H1gh	31	**	High Id., 1912
Grin	Q.	75	Grindall, 1912
Сал	19	**	Caamano, 1912
Guard	13	*1	duard I. J.H., 1912.
Val	*}		South Vallenar, 1912.
Vina	ų	n	Gravina, 1912.
Pug	H	**	Pug, 1921.
3lide	78	#1	Slide, 1912.
Dall	H	*!	Dall, 191z.
Cart	• 11	n	McCarty, L.H., 1921.
Duncan	1t	r 4	Duncan, 1912.
Нау	Topographic s	ignal, s	heet #2, 1921.
Nig	19	tì	" #3, 1921.
Gab	i	ri	" ₅ 3, 1921,

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET 4190

Locality: Clarence Strait, S.E.Alaska.

Chief of Party: J. H. Hawley in 1921.

Plane of reference is mean lower low water, reading

7.8 ft. on tide staff at Menfee Anchorage, Moira Sound: 6.3 ft.on tide staff at Clover Bay; 1.6 ft. on tide staff at Saltery Cove.

8.8 ft. on tide staff at Vallenar Bay.

Condition of records satisfactory except as checked helow: /For reduction of soundings.

- 1. Locality and sublocality of survey emitted.
- 2. Month and day of month emitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

Report on the Verification & Suking of H4190.

The seconds and notes were complete and clear! The protracting was excellent and plotting good. With a couple exceptions, the shoals appear to have been sufficiently developed, although in the depths of water indicated, such shoals are not likely to be dangerous to navigation unless they lead up to a primarle rock.

The sheet was in very good condition, and the drafting followed the general instructions for field work.

Frank n. albert.

Feb. 14, 1922.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS.

Report on Hydrographic Sheet Mo. 4190. Surveyed in 1921.

Chief of Party, J. H. Hawley.

Surveyed by J. H. Hawley

Protracted by J. H. Hawley.

Soundings pletted by E. L. Evans and W. G. Fairfield.

Verified and inked by F. M. Albert.

- The records conform to the requirements of the General .
 Instructions.
- 2. The Plan and character of development fulfill the requirements of the General Instructions and satisfy the specific instructions.
- 3. The sounding line orossings are adequate and the development is sufficient to enable the usual depth curves to be drawn.
- 4. The usual field plotting was done by the field party and none of it had to be done over in the office. It should be noted that the position numbers and day letters are placed too far from the positions and that the lines connecting positions are scored too deeply.
- 5. The junctions with adjacent sheets are satisfactory.
- 6. No further surveying is required within the limits of the sheet, except that the 17 fathom shoal two miles east of Island Pt. should be dragged.
- 7. Character and scope of surveying is excellent. The field drafting is excellent as regards accuracy and fair as to appearance.
- 8. Reviewed by E. P. Ellis, July, 1922.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic 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. 5-4190 % Locality . Moira Sound to Casmano Foint Protracted by . . J. 4. € . . Soundings in pencil by المعارفة ال Inked by Verified by Records accompanying sheet (check those forwarded): Des. report, Tide books, Marigrams, Boat sheets, 4 Sounding books, Wire-drag books, Photographs.

Remarks: Tide books accompany launch sheets.

Geographic names lettered by L.F. Loris.