8620

8620

Diag. Chart No. 8201-3.							
Form 504							
U. S. DEPARTMENT OF COMMERCE							
COAST AND GEODETIC SURVEY							
DESCRIPTIVE REPORT							
Type of Survey Hydrographic							
Field No. LJ=5-1-61 Office No. H=8620							
LOCALITY							
State S. E. Alaska							
General locality Wrangell Island							
Locality Wrangell Harbor							
19.61							
CHIEF OF PARTY							
L. G. Tyalor							
LIBRARY & ARCHIVES							

USCOMM-DC 5087

IMPORTANT

July 13, 1962

PAGE 19 WAS ADDED

IT IS NOT A PAGE IN THE REPORT
IT SHOWS DETAIL FROM

ORIGINAL DOCUMENT MISSING

FROM THE SCAN OF PAGE 18

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8620 Field No. LJ-5-1-61

State 5 E ALASKA
General locality WRANGELL T
Locality WRANGELL HARBOR
Scale 1:5,000 Date of survey 7/11/61 to 7/18/61
Instructions dated 10 November 1960 and 19 December 1960
Vessel Ship LESTER JONES Launch No. 88
Chief of party Lorne G. Taylor
Surveyed by H. B. McCall
Soundings taken by fathometer, graphic recorder, hand lead, while
Fathograms scaled by Ship Personnel
Sathograms checked by Ship Personnel
Protracted by V. F. Flor
Soundings penciled by V. F. Flor
and tenths Soundings in fathoms 1/144// at MIN MLLW and best on a velicity
REMARKS: of sound of woodenfore, and are true depths
(2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4

A. PROJECT:
Special Project 2-61 original instructions dated 10 November 1960, / supplemental instructions dated 19 December 1960.

B. AREA SURVEYED:
The area surveyed was in Wrangell Harbor and the approach. Survey
was started 11 July 1961 and completed on 18 July, 1961. Junction
was made with LJ-10-1-61, scale 1:10,000, 1961, on the west. Prior
survey of the area is on H-6282.

C. SOUNDING VESSEL:
All hydrogaphy was accomplished with launch 88, blue being the identifing color.

D. SOUNDING EQUIPMENT:
All soundings were obtained with 808 fathometer number 125-S. Bar checks were taken daily to determine initial corrections. Phase comparisons were taken to determine phase corrections and velocity corrections were determined from temperature and salinity observations.

E. SMOOTH SHEET:

F. CONTROL:
All control was located by planetable on sheet LJ-B-61, scale 1:5,000, 1961.

G. SHORELINE:

T-7140 b (1961)

Shoreline was transferred from LJ-B-61 and verified. In some areas the low water line was not defined by soundings because of piers and steep beaches.

H. <u>CROSSLINES</u>: Crosslines were in excess of ten percent and were in good agreement.

I. JUNCTIONS:

H-8621

Junction on the west with LJ-10-1-61 was in good agreement.

J. <u>COMPARISON WITH PRIOR SURVEYS</u>:

Depths were generally in good agreement with H-6282, however there was shoaling of ½ fathom in some areas of the inner harbor and along the mill pier.

K. COMPARISON WITH THE CHART:
Soundings were generally in good agreement with chart 8164, scale
1;10,000, 1939 (4th Edition). There is some indication of shoaling in the harbor of up to ½ fathom.

L. ADEQUACY OF SURVEY:

The survey is complete and adequate for charting.

M. AIDS TO NAVIGATION:

Aids to navigation are listed in the report on landmarks for charts and Fixed Aids to Navigation. The five day beacons, numbered 2 through 6, were located by planetable and should be relocated on Chart 8164.

P78 Review

N. STATISTICS:

The total number of positions on the sheet is 548, total nautical miles of sounding lines are 16.6, and the area surveyed is 0.2.

Q. REFERENCE TO REPORTS:

Tide records were forwarded to the Washington Office during the season. The fathometer report will be forwarded in the near future. A copy of the abstract of corrections is included in this report.

Harold E. McCall

LTJG, C&GS

EX. O. LESTER JONES

TIDE NOTE (LJ-10-1-61 & LJ-5-1-61)

The tide station was located on McGormick's Dock, latitude 56°28.3'N, longitude 132°23.1'W. The heighth of the tide staff corresponding to MLLW was 8.3 feet. No corrections for differences in time or height were applied to the observed tides.

PHASE CONTROTIONS - SPECIAL PROJECT 2-61

Launch #88

LJ-10-1-61 & LJ-5-1-61 Fathometer No. 125-3

Scale	н Ан	77 791	#Cut
Correction	0.0	-0.4	-0,6

VELOCITY CORRECTION ARSTRACT

(Applicable 3 May 1961 to 31 May 1961)

DEPTH (Fathoms)	CORRECTION	(Fathoms)
0-12	0	
12.1-34	+0.1	
34 .1-54	+0,2	
54.1-73.6	+0,3	
73.7-93.5	+0,4	

(Applicable 1 June 1961 to 18 July 1961)

TEPTH (Fathoms)	CCPRFUTION (Fathoms)
0-6	0
6,1-20,1	+0,1
20,2-42,0	+0.2
42.1-62.0	+0,3
62.1-82.0	+0.4
82.1-102.0	40,5

LIST OF STATIONS ON LJ-5-1-61

Name used in Hydrography Survey	Origin of Station
ANT	LJ-B-61
AXE	H
CRY	и .
DON	Ħ
ENT	WRANGELL BREAKWATER
	ENTRANCE LIGHT, 1954
FIL	LJ-B-61
FOR	FORT WRANGELL N.
	BASE 2, 1916-37
FOX	LJ-B-61
GEL	WRANGELL B.M. 6
HAL	LJ-B-61
JIM	n n
KID	n,
LAD	11
LEG	H
LIZ	11.
MAR	15 19
MAX	". #
MIL	". #
NUT	LJ-B-61
OFF OIL	OIL DOCK REEF DAY BN., 1954
ORA	LJ-B-61
PIE	14 TO_D_OT
POL	н
POT	. 11
RAG	H
SIG	n
SOL	н
TEE	ii
TOM	H
TOT	ii .
TRY	Ĥ
WHY	H

APPROVAL SHEET LJ-5-1-61

The survey records including the Boast Sheet, Sounding Volumes and Fathograms were inspected at regular intervals during the progress of field work. All record books were inspected and approved at the conclusion of field processing and the survey is approved.

No additional field work is needed for the area.

orde G. Taylor

CDR, C&GS

C.O. LESTER JONES

PROCESSING OFFICE NOTES - H-8620

E. SMOOTH SHEET

The smooth sheet was hand constructed by the Seattle Hydrographic Processing Unit, using standard methods of construction and checking.

F. CONTROL

Hydrography on this survey was controlled by sextant angles measured to shore signals composed of triangulation and graphic control locations. The graphic control was transferred from LJ-B-61 and checked.

G. SHORELINE

T-71406
The shoreline was transferred from LJ-B-61 and checked.

I. JUNCTIONS

The junction with H-8621 will be compared when that sheet has been Review plotted.

J. COMPARISON WITH PRIOR SURVEYS

Comparison not made on smooth sheet. H-6282 was not transmitted Pob ship.

K. COMPARISON WITH CHART

This survey compared with Chartlet N.M.4, dated January 27, 1962, attached to Chart 8164, 4th Ed., dated June 2, 1952, and the chart. The soundings on the smooth sheet are generally slightly deeper than those of the boat sheet, from which the soundings for the chartlet were taken. The soundings on the Chart, outside of the area of the chartlet, appear generally deeper than this survey. There is also some shoreline change.

See section of Chart 8164 and Chartlet attached to this report for comparison.

Respectfully submitted,

REVIEW

William M. Martin

Supervisory Cartographer

WMM/eo

Approved and forwarded

M. E. Wennermark
Captain, C&GS
Seattle District Officer

FORM 197 (3-16-55) GEOGRAPHIC NAMES
Survey No. H-8620

CLOS OF TO OL TO PROPERTY OF STORY OF S

Suivey No. N=002		Char B	O Provious	J.S. Wads	or other sid	Or local Mr.	O. Guide	aged McA	7. 2. 18 C	ban
Name on Survey	A	В		/ D	E	F	G	_н		24
Point Shekesti	x	·.								1
Shakes Island				x						2
Wrangell	x								x	3
Wrangell Harbor				x						4
Wrangell Island	x									5
Zimovia Strait .	х		ļ							6
				ļ						7
				-			\subset		1	8
			·		140	195	M	Sa	e_	9
		ļ	ļ	Ge	graph 26/	July	1962	pection)	10
		ļ	ļ							11
				ļ					1.	12
	_			ļ					ļ	13
		ļ	ļ						ļ	14
	_			<u> </u>					<u> </u>	15
										16
		ļ			ļ			-	<u> </u>	17
			ļ			ļ			ļ	18
			ļ						-	19
									ļ	20
			ļ						-	21
	-	<u> </u>	<u> </u>							22
•		,	<u> </u>				ļ			23
		ļ	ļ	-					-	24
							ļ		<u> </u>	25
	_	ļ	ļ							26
						1			•	27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8620...

Records accompanying survey:	Smooth sh	neets	1;
boat sheets .1; sounding vols2;	wire drag	g vols.	•••••
Descriptive Reports; graphic rece	order en	relopes	;
special reports, etc	• • • • • • • •	• • • • • •	•••••
••••••••	• • • • • • •	• • • • • •	•••••
The following statistics will be submitted war rapher's report on the sheet:	ith the	ertog-	
Number of positions on sheet		548	
Number of positions checked		.119.	
Number of positions revised		Ø1	
Number of soundings revised (refers to depth only)		0	•
Number of soundings erroneously spaced		4.	
Number of signals erroneously plotted or transferred		0	
Topographic details	Time		
Junctions	Time	0	,
Verification of soundings from graphic record	Time		
Special adjustments	Time		
Verification by . J. Chambars Total time	e .40.	Date .	2/20/63
Reviewed by	•9.	Date 7	15/63

()

TIDE NOTE FOR HYDROGRAPHIC SHEET

NAVIAGE STATE OF THE PROPERTY OF THE PROPERTY

July 31, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET 8620

Locality Wrangell Harbor, Alaska

Chief of Party: L. G. Taylor (1961)
Plane of reference is mean lower low water, reading
8.3 ft. on tide staff at Wrangell
53.3 ft. below B. M. 5 (1916)

Height of mean high water above plane of reference is: 15.2 feet

Condition of records satisfactory except as noted below:

Chief, Tides and Currents Branch

Ekieben Birdsing noch Tidesk ander Carkentan

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8620

FIELD NO. LJ-5-1-61

S.E. Alaska, Wrangell I., Wrangell Harbor

SURVEYED: July 1961

SCALE: 1:5,000

PROJECT NO. SP 2-61

SOUNDINGS: 808 Depth Recorder

<u>fixes</u> on shore signals.

Date: 3/15/63

1. Description of the Area

This is a survey of Wrangell Harbor. The bottom is fairly smooth except close inshore where ledges and rocks awash are usually found. The bottom generally slopes steeply from the ledge limits to depths of 10 fms and then slopes gradually to the offshore limits of the survey where depths as great as 40 fms. are found.

2. Control and Shoreline

The source of the control is given in the Descriptive Report.

The shoreline originates with planetable survey T-7140b (1961).

3. Aydrography

Depths at crossings are in good agreement. The usual depth

curves were adequately delineated. The bottom configuration and least depths are considered to be adequately developed.

4. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.

5. Junctions

The junction with H-8621 (1961) which joins the present survey on the north, west, and south will be considered in the review of H-8621.

6. Comparison with Prior Surveys

a. H-1623a (1882-85), 1-5,000 H-1741 (1886), 1-10,000 H-3938 (1916), 1-10,000

The above surveys have been superseded by H-6282 (1937) within the common area and are not considered in this review.

b. H-6282 (1937), 1-5,000

The present survey falls within the area of the prior survey. A comparison between the prior and present surveys shows the bottom generally to have shoaled 1-2 ft. except in those areas where dredging operations have occurred; here greater differences in depths are noted. A number of piers have been either constructed or rebuilt since 1937. Several large piers on the prior survey no longer exist. In several areas, land has been reclaimed, as for example, in the vicinity of lat. 56°28'15", long. 132°23'00".

The present survey is adequate to supersede the prior survey within the common area.

c. H-3946 WD (1916), 1-20,000

There are no conflicts between the present survey and the effective wire drag depths.

Comparison with Drawing No. 5 of Chart 8164 (Corrections applied to print of 6-2-52)

Hydrography Α.

The charted hydrography originates with H-6282(1937) previously discussed which needs no further consideration and the boat sheet (Bp 61593) of the present survey. The charted depths are in adequate agreement with the present survey.

The present survey supersedes the charted hydrography within the common area.

B. Aids to Navigation

The charted positions of the aids to navigation originate with the present survey and adequately mark the features intended.

C. Controlling Depths

The charted controlling depths in Wrangell Harbor originate with the boat sheet (Bp 61593) of the present survey. The charted controlling depths here are in agreement with the present survey depths after verification and review.

Compliance with the Project Instructions

The survey adequately complies with the project instructions.

Additional Field Work Recommended

This is a good basic survey and no additional work is recommended.

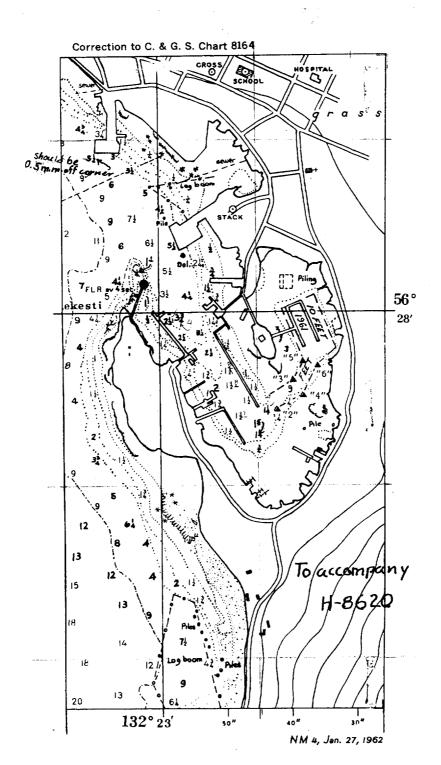
Examined and Approved:

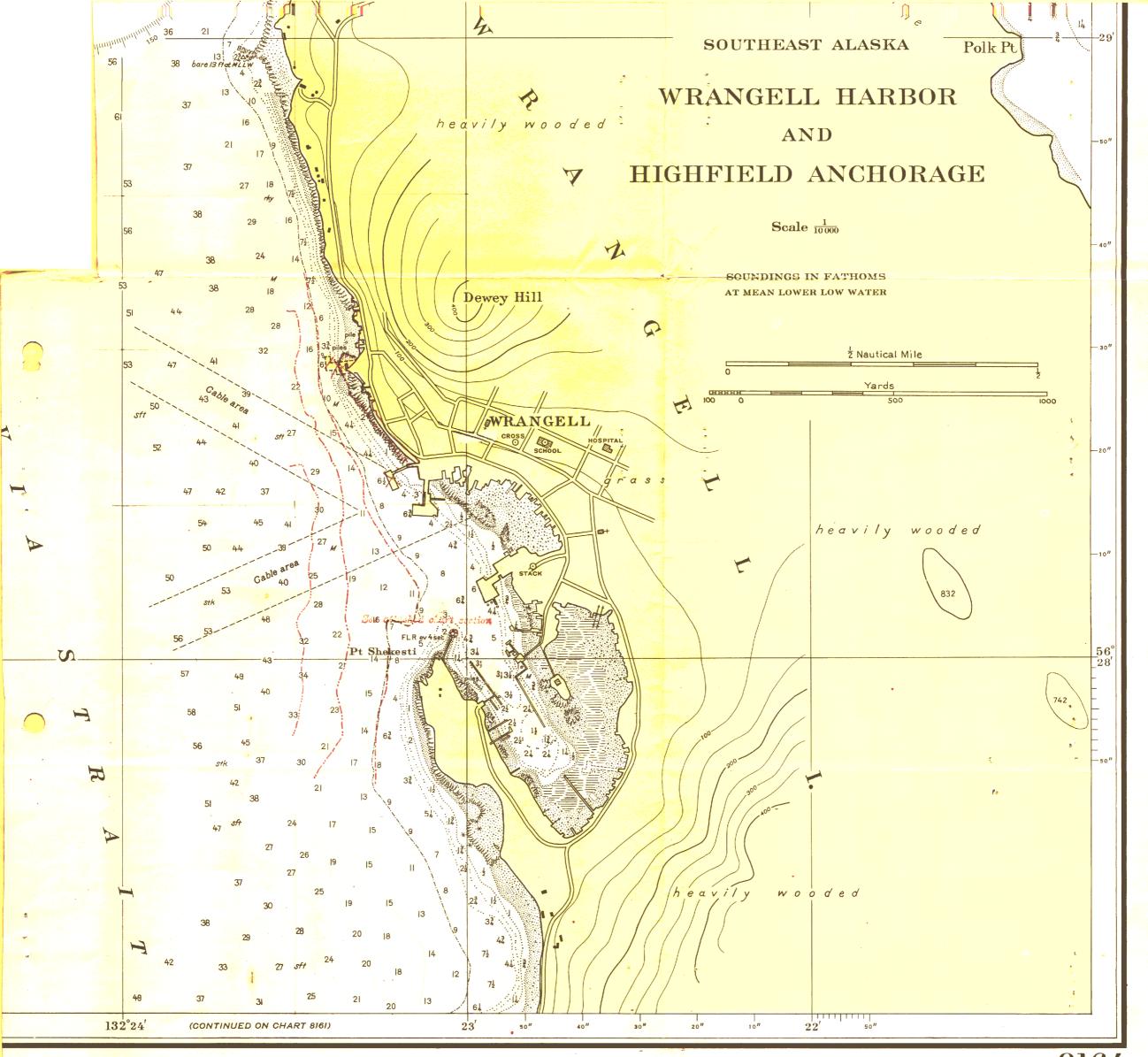
Nautical Chart Division

Operations Division

Assistant Director, Office of Cartography

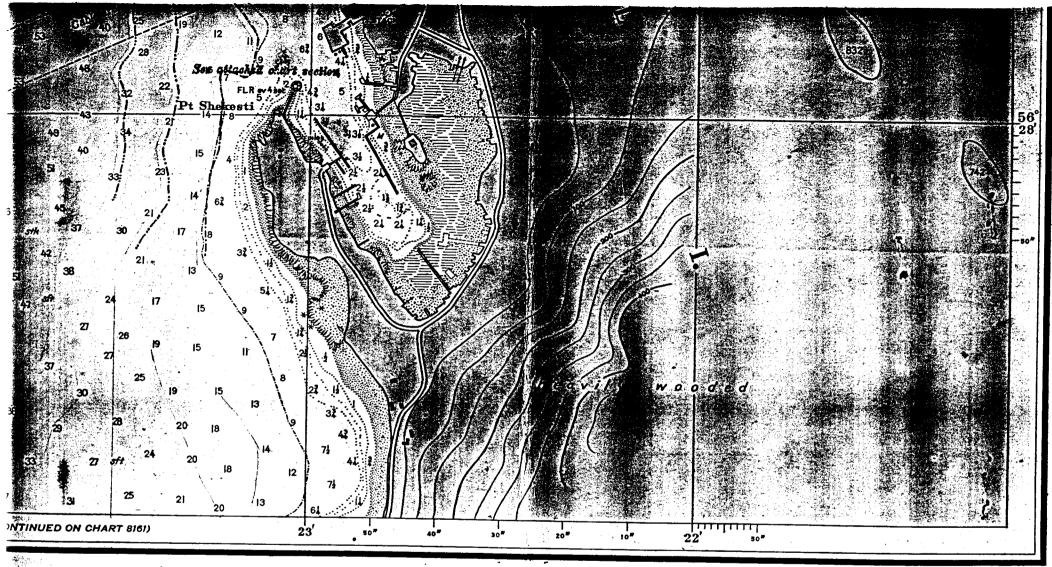
Office of Oceanography

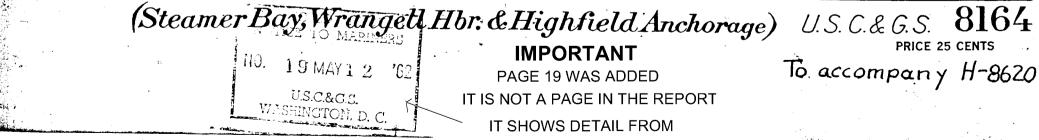




ONS, BUOYS, AND DANGERS CORRECTED

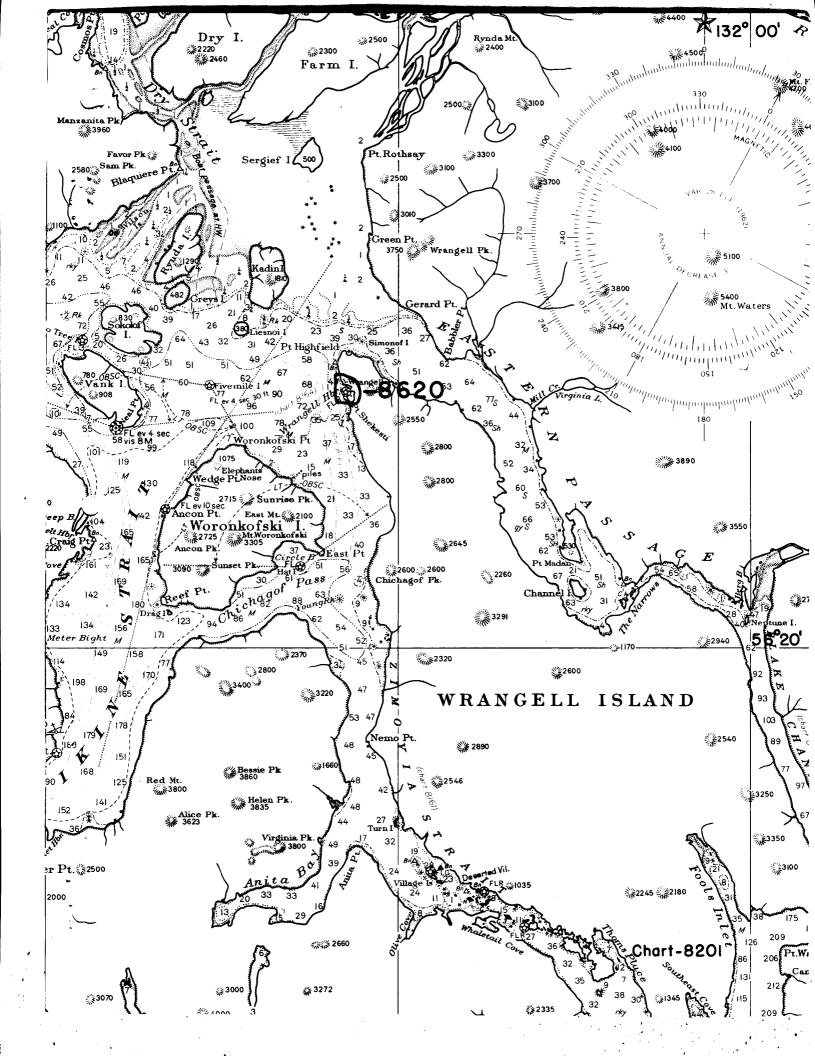
(Steamer Bay, Wrangell Hbr. & Highfield Anchorage) U.S. C. & G.S. 8164





ON ORIGINAL DOCUMENT

ORIGINAL DOCUMENT MISSING FROM THE SCAN OF PAGE 18



NAUTICAL CHARTS BRANCH

SURVEY NO. H-8620

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10/4/62	8201	Helmen	Before Verification and Review No sdy in charked
	·		area due to secla. No correction
11/15/62	8161	J. P. weir	Before After Verification and Review Examined, Ao.
4/25/63	8002	h.j. keeler	Properties After Verification and Review Exam. No corrs.
	8165	John W Knoop	Full Application Before After Verification and Review
6-4-66	8/64	F. A. Scarcella	Before After Verification and Review fully Applied.
10-4-66	8160	mAMA	Beloff After Verification and Review Fully app
		Λ Ω Ω	app thry 8/64 Dug # 5
10/21/67	8201	John P. Wein	Refuse After Verification and Review Fully applied
4/11/69	8161	mat mall	Before After Verification and Review Fully The
	A	11	they 8160
2/8/71	8/65	S. GRAHAM	After Verification and Review 5/4/5/5CT100
			Fully Applied to Hew Charf H.C. 8165
			Before After Verification and Review
	·		
	•		

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.