

8800

Diag. Cht. No. 8102-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PA-10-3-64 Office No. H-8800

LOCALITY

State Alaska

General locality Southeast Alaska

Locality Tongass Narrows

19 64

CHIEF OF PARTY

P. J. Taetz

LIBRARY & ARCHIVES

DATE June 1966

USCOMM-DC 5087

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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-8800

Field No. PA-10-3-64

State Alaska

General locality Southeast Alaska

Locality Tongass Narrows

Scale 1:10,000 Date of survey 1964

Instructions dated January 22, 1964

Vessel USC&GSS Patton

Chief of party P. J. Taetz

Surveyed by D. R. Tibbit

Soundings taken by fathometer, ~~graphic recorder, hook lead, wire~~

Fathograms scaled by Ship's personnel

Fathograms checked by Ship's personnel

Protracted by C. R. Lehman

Soundings penciled by C. R. Lehman

Soundings in fathoms and tenths ~~feet~~ at MLLW

REMARKS:

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.....
.....
.....
.....

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8800 (PA-10-3-64)

1:10,000 1964

USC&GSS PATTON P.J. TAETZ, Comdg.

A. PROJECT

This survey is part of Project OPR-424. INSTRUCTIONS, dated January 22, 1964, and Memo dated January 28, 1964, from Chief, Operations Division, serve as the authority for this survey. ✓

B. AREA SURVEYED

The area surveyed is a portion of Tongass Narrows from North of Guard Island and just North of Pt. Higgins, South to Rosa Reef light, South East Alaska. The approximate limits of the sheet are from Latitude $55^{\circ} 24.5'$ to $55^{\circ} 27.5'$ and from Longitude $131^{\circ} 46.5'$ to $131^{\circ} 53.5'$. The survey joins prior survey H-8716 (1:10,000) 1963 to the West, and H-8801 (1:10,000) 1964 to the South. Other prior surveys of the area include: H-5060 (1:20,000) 1930, H-3810 WD (1:40,000) 1915-16, H-3688 WD (1:15,000) 1914, H-3220 (1:10,000) 1910, H-5137 (1:5,000) 1931. The survey was accomplished between July 22, 1964 and August 1, 1964. ✓

C. SOUNDING VESSEL

Launch CS1191 was used to obtain all soundings for this survey. The color blue was used to identify the work. USC&GSS Patton was used only to obtain bottom samples in the deeper water. ✓

D. SOUNDING EQUIPMENT

All soundings were obtained with the Raytheon DE 723, No. 556, Portable depth recorder, and critical least depths were verified with the hand lead. Echo sounder corrections to the depths of seven fathoms were determined by bar checks. Correction for soundings at greater depths were determined by extending the bar check corrections curve with data ✓

obtained from temperature and salinity observations. These corrections are discussed in the special report on fathometer corrections.

E. SMOOTH SHEET

To date smooth sheet projection has not been made.
Projection hand-constructed and checked at Pac. Marine Center. ✓

F. CONTROL

Horizontal control for all hydrography was maintained by three point sextant fixes on shore signals. These signals were located by the following three methods: Previously established triangulation stations, the photo pass-point method, and sextant cuts. Signals DOL and CAT were located by sextant cuts. They were plotted and checked on cronaflex T-10596. No unusual or substandard situations were encountered throughout the survey. Photogrammetric manuscripts used for transfer of signals were from the following manuscripts: T-10590 and T-10596. ✓

G. SHORELINE

Shoreline details were obtained from the following advanced manuscripts: T-10590, T-10595, and T-10596. To date the shoreline has not been transferred to the smooth sheet. The low water line is defined by the soundings in some areas, but in others where the shore was very steep this was impossible.
Shoreline transferred from T-sheets mentioned. ✓

H. CROSSLINE

Approximately 90 percent of cross lines were run. All crossings were satisfactory. ✓

I. JUNCTIONS

Satisfactory junctions were made with H-8716 (1:10,000) 1963 to the west and with contemporary survey H-8801 (1:10,000) 1964 to the south

See Review
Par. 5
✓

J. COMPARISON WITH PRIOR SURVEYS

In general the survey compared favorably with prior surveys of the area, however, some changes were found after the development of pre-survey review items which are discussed below.

- orig. →
T-4628
(1931)
- 1. Files in this area were investigated none were found to remain. There is no evidence of sub-surface obstructions. The pier shown on the pre-survey should also be deleted. ✓
- 25-26 "5", 39 "9"
- 2. An overlay was run over this area. The shoal was visible. ✓
A least depth of 1¹ fathom below MLLW was determined by hand lead. (N. 55° 24.44' & W. 131° 47.95')

A discussion of unnumbered pre-survey review items follows:

- pos. 3-4 "h"
- 1. The 7 fathom shoal shown by the pre-survey review chart at Latitude 55° 24.68' N, Longitude 131° 47.84' W, was found and a shoaler depths of 5.8⁹ and 5.8⁸ fathoms were found approximately 100 meters S.W. ✓
- 208-209 "a"
- 2. The 22 fathom shoal located approximately at Latitude 55° 25.09' N, Longitude 131° 47.32' W, was developed. Least depth was 18⁹ fathoms. ✓
- 152-153 "a"
- 3. The 19 fathom shoal located approximately at Latitude 55° 25.33' N, Longitude 131° 47.95' W, was developed. Least depth was 14⁵ fathoms. ✓
- 61-62 "h"
- 4. The 10 fathom shoal approximately at Latitude 55° 25.11' N, Longitude 131° 48.45' W, was developed. A least depth of 8.8⁸ fathoms was found approximately 50 meters S.W. ✓
- 29-30 "h"
40-41 "e"
- 5. The 7 fathom shoal at approximately Latitude 55° 25.28' N, Longitude 131° 48.63' W, was developed; least depth was 6.2⁷ fathoms. ✓
- 20-21 "e"
- 6. The 7.50 fathom shoal approximately at Latitude 55° 25.23' N, Longitude 131° 48.85' W, was developed. Least depth was 7.2⁶ fathoms. ✓
- 43-44 "e"
- 7. The 12 fathom shoal approximately at Latitude 55° 25.50' N, Longitude 131° 49.16' W, was developed. Least depth was ~~N fathoms~~ 10⁴ Fm. ✓
- 134-135 "d"
- 8. The 12 fathom shoal approximately at Latitude 55° 25.65' N, Longitude 131° 49.50' W, was developed. No depth less than 12 fathoms was found. 11 fms at Ø 55° 25.70', λ 131° 49.55' ✓
- 9. The 31 fathom shoal approximately at Latitude 55° 26.50' N, Longitude 131° 50.60' W, was developed. There were no soundings less than 30 fathoms within 100 meters of this item. Three 30 fm soundings less than 150m away. ✓
- H-3688-WD
vol. 1, p. 14
- 10. The 6.25 fathom shoal, taken from Wire Drag Survey H-3688 in approximately Latitude 55° 24.80' N, Longitude 131° 47.90' W; a copy of WD H-3688, and the pre-survey review were compared and it is believed that this sounding is ✓

misplotted. A ¹⁸ 7.8 fathom sounding was found 150 meters SW ^{1/4} ✓
 pos. 24-25"E" (closer inshore). A complete development of this area
 104-105"E" was not made. (See last paragraph, - addendum, PMC operations office)
Plotting corrected on W.D. sheet, New position falls in present comparable depth.
 Other comparisons are listed below:

1. A 9 fathom sounding taken from chart 8094, located approximately at Latitude 55° 25.32' N, Longitude 131° 48.75' W, was found. A 7.5 fathom sounding approximately 35 meters South was the least depth. ✓
 41-42"E"
2. A rock at Latitude 55° 24.708' N, Longitude 131° 48.47' W, bares 1.2' above MLLW. (Must have wrong G.P.)
3. Two rocks at Latitude 55° 24.85' N, Longitude 131° 48.25' W, bare 1.6' and 3.6' respectively above MLLW. (2) (3) (4) ✓
 5-6 "a" (red)
4. A rock at Latitude 55° 25.08' N, Longitude 131° 48.73' W, bares 0.4' above MLLW. (1) from print of boat sheet, - Bp. # 66260. ✓
5. A rock at Latitude 55° 25.13' N, Longitude 131° 49.12' W, bares 1.9' above MLLW. (2) ✓
 78 "c" / 67-68 "d"
6. A rock at Latitude 55° 26.87' N, Longitude 131° 49.28' W, bares 2.2' at MLLW. (3) from copy of BS. - Bp. # 66260 ✓
7. Two rocks at Latitude 55° 26.75' N, Longitude 131° 49.30' W, bare 2.2' and 1.2' at MLLW respectively. (3) (2) from Bp. # 66260 ✓
8. The reefs and rock at Latitude 55° 26.27' N, Longitude 131° 48.74' W, all bare 5.2' at MLLW. (5) (all do not) ✓
9. A rock awash in the same fouled area is awash 0.8' below MLLW. (Pond Reef) (0) ✓
 1 "a" (red)

It should be noted that all shoal depths mentioned for comparisons are as per the boat sheet. Heights of rocks above MLLW are correct as per tide reducers entered in the sounding volumes. All tide reducers are in fathoms. Depths are all preliminary and subject to change somewhat after final corrections are applied. There are many overlays of specific area supplementing the main sounding lines. This was due somewhat to the very irregular bottom which was present throughout major portions of the sheet. Changes in ink are smooth sheet values. ✓

K. COMPARISON WITH THE CHART

This survey was compared with chart 8094, 1 September 1952; Revised 27 March 1961, and corrected thru Notices to Mariners 2 November 1963. There was general agreement with this chart, however, some discrepancies were found. These are noted in the previous section (J.) of this report. ✓

L. ADEQUACY OF SURVEY

The survey is complete and adequate to supersede prior surveys for charting. ✓

M. AIDS TO NAVIGATION

All official aids to navigation in the area were compared with data in the latest Light List and with the largest scale chart of the area. The location of Pond Reef Light Buoy and the non-floating aids were plotted, angles (sextant) labeled, and the results forwarded to the Coast Guard authorities. ✓

N. STATISTICS

Number of Positions (Launch 1191)	1123
Number of Positions (Skiff)	6
Number of Bottom Samples (SHIP PATTON)	16
Nautical Miles of Sounding Line	137.0
Area in Square Nautical Miles	4.6
Temperature & Salinity Observations	1
Photogrammetric Field Edit (Nautical Miles)	11.3

O. MISCELLANEOUS

Soundings recorded in conjunction with bottom samples should not be plotted. In most cases these soundings were obtained under adverse conditions and are unreliable. ✓

Magnetic stations were observed at GIN, 1909-14, and ROCK, 1964. ✓

P. RECOMMENDATIONS

^{additional} No ~~other~~ field work is recommended in this area except ⁱⁿ the vicinity of the peak mentioned in the addendum, last paragraph. ✓

Q. REFERENCES TO REPORTS

The following reports are necessary for a complete evaluation and understanding of the records.


Seasons Report, 1964
Fathometer Corrections Report
Field Edit Report
Geographic Names Report
Letter & Chart to USCG

Forwarded 10/26/64
Forwarded
Forwarded 10/27/64
Forwarded 10/21/64
Forwarded 10/2/64

TIDE NOTE

To accompany Hydrographic Survey H-8800 (PA-10-3-64)

The standard tide gage at Ketchikan, Alaska (Latitude $55^{\circ} 20' 00''$ N, and Longitude $131^{\circ} 37' 31''$ W) was used to obtain the tide reducers used on this sheet (H-8800). Time meridian 120° W was used. The plane of reference (MLLW) corresponds to a height of 6.3' on the tide staff. No corrections in time or height were applied to the observed tides. Hourly heights were furnished by the Washington Office.



ABSTRACT

CORRECTIONS TO ECHO SOUNDINGS

LAUNCH 1191

Fathometer 556

To be used: for all days

on Hydrographic Survey: PA-10-1-61
PA-10-3-61

Correction (fms)	To Depth (fms)
+ 0.2	3.0
0.3	7.0
0.4	15.0
0.5	28.0
0.6	42.0
0.7	60.2
0.8	82.0
0.9	100.4
+ 1.0	114.0

LIST OF STATIONS ON H-8800 (PA-10-3-64)

Name used in Hydrographic Survey	Origin of Station
And	Guard Island Light House, 1930
Babe	Babe, 1909
Box	T-10590
Cat	Vol. 5, Page 2
Dol	Vol. 5, Page 2
Gin	Gin, 1909-14
Mud	T-10596
Nel	Channel Island Light, 1951
Pup	Pup, 1930
Rat	T-10596
Rosa	Rosa Reef Light, 1951
Run	Run, 1914
Sim	Sim, 1909-1951
Sur	Survey, 1930
Tot	T-10596
Val	Val 2, 1914

NOTES TO ACCOMPANY H-8800

E. SMOOTH SHEET

The smooth sheet was hand constructed and checked by personnel of the Hydro. Processing Branch, PMC. The shoreline was transferred from blue-line prints of Advanced Manuscripts listed under paragraph "G" of the report.

I. JUNCTIONS

Junctions with H-8716 (1:10,000) 1963, on the northwest and H-8801 (1:10,000) 1964, to the south are found in agreement. Depth curves are in agreement at junctions.

Junction with H-8801 will be discussed in review of that survey.

J. COMPARISON WITH PRIOR SURVEYS

Changes to smooth sheet values from boat sheet values have been made in ink in the report.

The smooth sheet has been compared with H-5137 (1:15,000) 1931, H-5060 (1:20,000) 1930 and H-3220 (1:10,000) 1910. The agreement with prior surveys is, in general, very good. Several of the depth curves have been adjusted on H-8800 to take advantage of additional soundings shown on H-3220 where line spacing on H-8800 was wide and did not give a full picture of the bottom.

The charted 6 1/4 fathom sounding at Latitude 55° 24.88', Longitude 131° 47.86' was not developed enough to either prove or disprove. The sounding falls in an area where depths are from 17 to 24 fathoms but the line spacing is about 70 or 80 meters, too far apart to disprove the existence of a pinnacle rock. It is recommended that this area be more closely developed to eliminate the possibility of a pinnacle. *Corrected position of peak falls among 9 Fathoms. Misploated on H-3688 W.D.*

Not necessary because of new position of 38

Examined and Approved

William M. Martin
Superv. Carto. Tech.

William M. Martin
Contents Noted and Forwarded

Approved and Forwarded

Harold J. Seaborg
Harold J. Seaborg
Captain, USESSA
Director, Pacific Marine Center

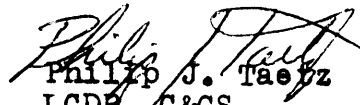
Norman S. Taylor
Norman S. Taylor
Commander, USESSA
Operations Officer, PMC

APPROVAL SHEET

PA-10-3-64 (H-8808)

Hydrography on this sheet was closely inspected by me at the end of each days work. The survey is considered complete and adequate. No additional field work is recommended. All field records have been examined for completeness.

This approval applies only to the boat sheet and those records obtained at the time of the survey.


Philip J. Taetz
LCDR, C&GS
Comdg., Ship PATTON

TIDE NOTE FOR HYDROGRAPHIC SHEET

4/27/65

Seattle Regional Office

~~Nautical Chart Division~~

Plane of reference approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET H-8800

Locality: Revillagigedo Island, (Tongass Narrows), Alaska

Chief of Party: P. J. Taetz

Plane of reference is mean lower low water

Tide Station Used (Form C&GS-681):

Ketchikan, Alaska

Height of Mean High Water above Plane of Reference is as follows: 14.4 Ft.

Remarks

J. M. Symons

Chief, Tides and Currents Branch

GEOGRAPHIC NAMES PENCILED ON H-8800

CLARENCE STRAIT

GRAVINA ISLAND

GUARD ISLANDS

INSIDE PASSAGE

POND REEF

POINT HIGGINS

REVILLAGIGEDO ISLAND

ROSA REEF

ROCK POINT

TONGASS NARROWS

VALLENAR POINT

VALLENAR ROCK

WHIPPLE CREEK

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-8800 (PA-10-3-64)

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET	1	Bp. 66260 Not forward to Wash. Office at time of registration	1 received 2-7-70
DESCRIPTIVE REPORT	1	OVERLAYS	0

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES	3 fathograms				1	
CAHIERS	1					
VOLUMES		6				
BOXES						

T-SHEET PRINTS (List) T-10590 ; T-10595 ; T-10596

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				45 1138
POSITIONS CHECKED		649	5	
POSITIONS REVISED		44	0	
DEPTH SOUNDINGS REVISED		92	0	
DEPTH SOUNDINGS ERRONEOUSLY SPACED		63	0	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0	0	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		5	2	
JUNCTIONS		18	3	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		9	1	
SPECIAL ADJUSTMENTS		0	0	
ALL OTHER WORK		124	85	
TOTALS		156	91	
PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE		
VERIFICATION BY <u>Cornelius A. J. Parant</u>	Sept 1 1965	April 7 1966		
REVIEW BY <u>S. Rose</u>	July 25, 1966	Aug. 18, 1966		

Inspected by Dale E. Westbrooke 31 hrs.

1716

OFFICE OF HYDROGRAPHY AND OCEANOGRAPHY
MARINE CHART DIVISION
HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8800

FIELD NO. PA-10-3-64

Alaska -- Southeast Alaska -- Tongass Narrows

SURVEYED: July 22, 1964, through August 1, 1964

SCALE: 1:10,000

PROJECT NO.: OPR-424

SOUNDINGS: Raytheon 723
Depth Recorder
Leadline

CONTROL: Sextant fixes on
shore signals

Chief of Party.....	P. J. Taetz
Surveyed by.....	D. R. Tibbit
Protracted by.....	C. R. Lehman
Soundings Plotted by.....	C. R. Lehman
Verified and Inked by.....	C. A. Pauw
Reviewed by.....	S. Rose
.....	Date: August 18, 1966
Inspected by.....	D. E. Westbrook

1. Description of the Area

This survey covers a portion of Tongass Narrows from Rosa Reef to Point Higgins. Both shores are bounded by ledge broken in places by short stretches of gravel beach. The bottom is irregular and many islets, rocks, and reefs abound particularly near the shore. Two important features, Rosa Reef and Pond Reef, are marked by aids to navigation.

The bottom over most of the survey area is composed of mud, pebbles, sand, and broken shale.

2. Control and Shoreline

The source of the control is adequately described in the Descriptive Report. The shoreline originates with advance photogrammetric manuscripts T-10590, 10595, and 10596, dated 1956-63, which were not reviewed as of this date.

3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves were adequately delineated. A few dashed curves were drawn to emphasize certain important bottom features.
- C. The development of the bottom configuration and investigation of least depths are considered adequate.

4. Condition of the Survey

The field plotting, sounding records, the Descriptive Report, and Pacific Marine Center verification are adequate and conform to the requirements of the Hydrographic Manual, except that the following verification deficiencies were found:

- A. The junction with H-8716 (1963) was inked but the depth curves were not made identical in the junctional area.
- B. The 2-fm. curve, a standard depth curve, was not drawn and inked.
- C. The Pond Reef Lighted Buoy was not inked with the lighted buoy symbol.

5. Junctions

An adequate junction was affected with H-8716 (1963) on the west. The junction with H-8801 (1964) on the south will be discussed in the review of that survey.

No contemporary survey junctions with the present survey on the north, but present survey soundings are in harmony with charted depths in this area.

6. Comparison with Prior Surveys

A.	H-1512''b''	(1881)	1:291,200
	H-1512''c''	(1881)	1:200,000
	H-1621''a''	(1882)	1:20,000
	H-1622	(1883)	1:80,000
	H-1649''b''	(1885)	1:80,000
	H-1651''a''	(1885)	1:20,000
	H-3220	(1910)	1:10,000
	H-5060	(1930)	1:20,000
	H-5137	(1931)	1:5,000

Taken together, these surveys comprise the prior sounding coverage of the area of the present survey. The first six surveys listed above are reconnaissance surveys with widely-spaced soundings and weak control. The last three surveys are more modern, and provide good coverage of the present survey area. A comparison with the present survey reveals very little change in the bottom. However, the present survey is more complete overall and provides lesser depths on several shoals.

Attention is directed to the following:

(1) On H-1651"a" (1885), a 36-fathom sounding is shown 825 meters northeast of Guard Island. The sounding is also presently charted on Chart 8094. This depth is not supported by H-5060 (1930), nor by the present survey, and is considered discredited.

(2) Survey H-3220 (1910) shows a depth of 22 fathoms about 650 meters east of Guard Island. This sounding is the result of an error in the records. The correct depth is 32 fathoms, which is in close agreement with the present survey. Two bottom characteristics from H-3220 were brought forward to the present survey.

With the addition of the bottom characteristics noted above, the present survey adequately supersedes the above prior survey within the common area.

B.	H-3810 WD	(1915-16)	1:40,000
	<u>H-3688 WD</u>	<u>(1914)</u>	<u>1:15,000</u>

The effective depths of these wire-drag surveys do not conflict with the depths on the present survey. No soundings from these wire-drag surveys were carried forward to the present survey.

H-3688 WD (1914) shows a 38-ft. sounding cleared by 40-ft. at Lat. $55^{\circ}24.88'$, Long. $131^{\circ}47.86'$. The position of this sounding falling in present depths of 24 fms. is probably in error. Holding the original angles but rearranging the signals, places the 38-ft. depth about 330 meters to the southward near a 5.9-fm. sounding on the present survey. The 38-ft. sounding should be disregarded. One bottom characteristic from H-3688 has been brought forward to supplement the present survey.

7. Comparison with Chart 8094, 12th Edition, March 1, 1965A. Hydrography

The charted hydrography originates with the previously-mentioned prior surveys which need no further consideration, supplemented by soundings from the boat sheet of the present survey.

Because the charted soundings reflect the results shown on the boat sheet of the present survey, there remain several small differences between the final survey soundings and those charted, particularly on shoals. The charted soundings, in these instances, should be revised by the chart compiler. In addition, the elevations of important rocks and the geographic name "Totem Bight" should be added to the chart.

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

B. Aids to Navigation

The one floating aid and two fixed aids shown on the present survey are in substantial agreement with their charted positions, and adequately mark the features intended.

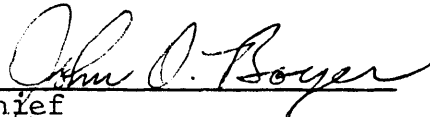
8. Compliance with Instructions


This survey adequately complies with the Project Instructions.

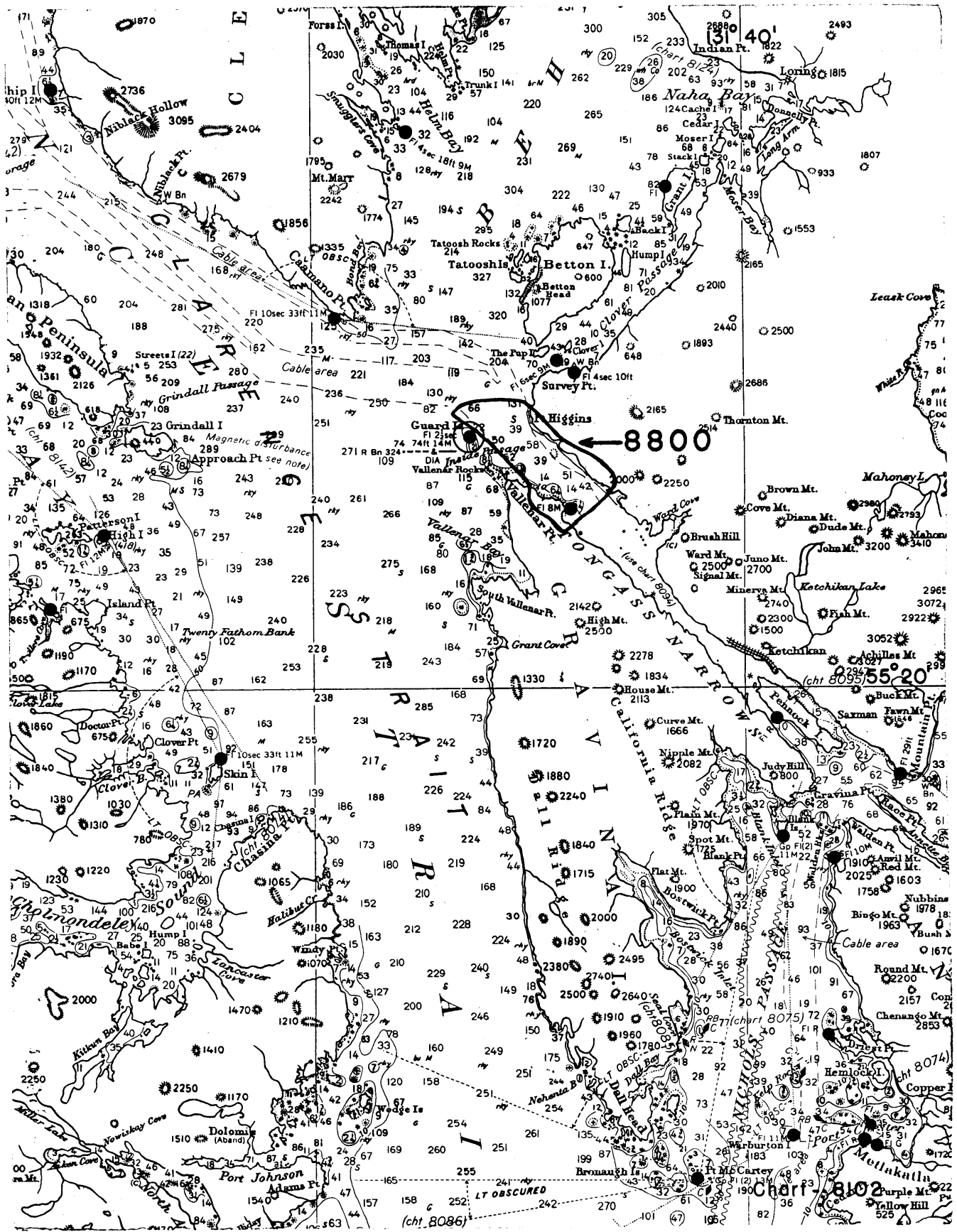
9. Additional Field Work

This is an excellent basic survey, and no additional field work is recommended.

Examined and Approved:


Chief
Marine Chart Division


Associate Director
Office of Hydrography
and Oceanography



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8800

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
 2. In "Remarks" column cross out words that do not apply.
 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
8079	1/10/67	C.B. Samuel	Full Part Before After Verification Review Inspection Signed Via Drawing No.
8083	12/17/66	J. M. McM	Full Part Before After Verification Review Inspection Signed Via Drawing No. 2
8080	5/67	Clarence Misfeldt	Full Part Before After Verification Review ^{before} Inspection, Signed Via Drawing No.
8094	8/28/67	C.B. Samuel	Full Part Before After Verification Review Inspection Signed Via Drawing No.
8102	3/24/69	Oscar Chapman	Full Part Before After Verification, Review, Inspection Signed Via Drawing No. Thru Cht 8080 Dwg #1
8083 17434	12/10/71	J. A. Graham	Full Part Before After Verification Review Inspection Signed Via Drawing No. #3 App'd misc. additional information after V&R and final inspection
8080	1-31-72	C.S. Forbes	Full Part Before After Verification Review Inspection Signed Via Drawing No. Thru 8083. App'd hydro changes
8079 17422	10-30-72	L.A. BACH	Full Part Before After Verification Review Inspection Signed Via Drawing No. A Thru cht 8080 Dwg #2
8102 17420	6/2/73	E. FREY	Full Part Before After Verification Review Inspection Signed Via Drawing No. Examined via cht 8079, no corrections. Hold full application till app'd to large scale cht.
8080 17428	4/15/74	E. Frey	Full Part Before After Verification Review Inspection Signed Via Drawing No. Full part applied
8079 17422	4/16/74	E. Frey	Part Full app'd after inspection via cht 8080
8102 17420	4/16/74	E. Frey	Part Full app'd after inspection via cht 8079