7788

Diag. Cht. No. 8252-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. PA-1249 *Office No.* H-7788

LOCALITY

State S. E. ALASKA

General locality SITKA SOUND

Locality NAKWASINA SOUND & NAKWASINA PASSAGE

1949

CHIEF OF PARTY

J. C. Partington

LIBRARY & ARCHIVES

DATE Jan. 30, 1951

B-1870-1 (1)

7788

7788

Form 537
(Ed. June 1946)

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-7788

Field No. PA-12-49

State S. E. Alaska

General locality Sitka Sound

Locality Nakwasina Sound and ~~Nakwasina~~ Passage

Scale 1:10,000 Date of survey 9 June to 10 Sept. 1949

Instructions dated 5 August 1947

Vessel PATTON - Launch No. 92

Chief of party J. C. Partington

Surveyed by J. C. Partington & I. R. Rubottom

Soundings taken by fathometer, graphic recorder, hand lead, wire 808-A Depth Recorder
Hand lead and Wire (Bottom Samples)

Fathograms scaled by P. T. P.

Fathograms checked by C.M.H.

Protracted by Christine N. Hillman

Soundings penciled by Christine N Hillman

Soundings in fathoms ~~feet~~ at ~~MLW~~ MLLW

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 693019

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY NO. H-7788(PA-1249)

NAKWASINA SOUND AND NAKWASINA PASSAGE, S. E. ALASKA

SCALE 1:10,000 - DATE 1949

U.S.C.& G.S.S. PATTON, J. C. PARTINGTON, COMDG.

* * * * *

A. PROJECT:

This survey was accomplished under Instructions for Project CS-247, issued by The Director on 5 August 1947.

B. SURVEY LIMITS AND DATES:

This sheet covers all of Nakwasina Passage and the northern portion of Nakwasina Sound.

Junction was made on the south in Nakwasina Sound, with Sheet No. H-7787(1944)(PA-1149) and on the west at the junction of Nakwasina Passage and Olga Strait, with Sheet No. H-7674.(1948)

Field work was started on 9 June 1949 and was completed on 10 September 1949.

C. VESSEL AND EQUIPMENT:

All hydrography was done in Launch No. 92 operating from the PATTON. Soundings were taken with an 808-A recording fathometer (No. 51), supplemented by hand lead soundings on shoals and in kelp. Bottom samples were taken by wire with hand-sounding machine mounted on the launch, and in deeper portions by the PATTON using an electric, wire-sounding machine.

D. TIDE AND CURRENT STATIONS:

The records from the tide station at Sitka were used for the reduction of soundings for the entire area.

During the 1948 season four (4) current stations were occupied in Nakwasina Passage, using the Roberts Current Buoy. Refer to "Current Report" submitted by Comdr. G. E. Boothe at the end of the 1948 season.

E. SMOOTH SHEET:

The smooth sheet will be constructed and plotted by personnel of the Seattle Processing Office.

F. CONTROL STATIONS:

Second Order triangulation was extended through Nakwasina Passage and Nakwasina Souhd from 1948 work to a strong tie with 1947 stations in the southern part of Nakwasina Sound. The records, computations and a special report have been forwarded to the Washington Office.

Topographic stations were located by graphic control methods on aluminum mounted sheets Nos. T- 7130(PA-B-49) and T-7130 (PA-C-49); T- 7129 (PA-A-49) (To be destroyed) Desc. Report for G.C. Sheets attached to D.R. of H-7789(1949)

G. SHORELINE AND TOPOGRAPHY: (to be transferred from T-8484 & T-8821 (1949)

The shoreline and topography will be compiled from air photographs of the area which were field inspected by this party. Short sections of shoreline were rodded in at the various plane table setups. Delineation of the shoreline will be difficult because of overhanging trees over most of the area. Review, par. 1.

The low water line could not be established by hydrography in most places, except where there are numerous tide flats through Nakwasina Passage. In most other places, the shoreline is very abrupt and rocky with overhanging trees. Sounding lines were run as close to the beach as circumstances would permit.

H. SOUNDINGS:

Soundings were taken with an 808-A type recording fathometer (No. 51), operated on the fathom scale. Hand lead soundings were taken in critical areas, on shoals and in kelp. Wire soundings were taken for obtaining bottom samples.

Velocity corrections to fathometer soundings were computed from serial temperature and salinity observations made in deep water in Nakwasina Sound.

I. CONTROL OF HYDROGRAPHY:

The hydrography was controlled by three point sextant fixes on signals ashore. No unusual or substandard methods were used for this purpose.

J. ADEQUACY OF SURVEY:

The survey is adequate and complete and should supersede previous surveys of the area. The junctions with surveys enumerated in "B" are good.

K. CROSSLINES:

The cross lines of this sheet, exclusive of development, constitute 10% of the total miles of sounding lines. The crossings are good.

L. COMPARISON WITH PREVIOUS SURVEYS: See Review, par. 5.

The previous survey of this area was made as follows: (1) Nakwasina Sound, 1897, at a scale of 1:20,000, Sheet H-2302; (2) Nakwasina Passage, narrow portion, 1896, at a scale of 1:5,000, Sheet H-2290; (3) Nakwasina Passage to Olga Strait, 1896, at a scale of 1:20,000, Sheet H-2287.

The sounding lines were widely spaced and only a limited development was made. The new survey is much more detailed and complete. In general the depths agree with previous surveys, b ut in most shoal areas, lesser depths were found.

Discrepancies:

1. Sheet H-2302 shows an isolated sounding of 31 fathoms in Latitude 57° 13'.3, Longitude 135° 22'.85. This sound ing is undoubtedly erroneous. A series of closely spaced sounding lines was run over the area and no indication of any shoaling whatsoever is evident on the fathogram.

2. Sheet H-2287 shows an isolated sounding of 11 fathoms in Latitude 57° 14'.68, Longitude 135° 29'.85. It is believed that this sounding is erroneous. A series of closely spaced lines was run over the area and no indication of any shoaling is evident on the fathogram.

Review, par. 5

M. COMPARISON WITH CHART NO. 8281:

The comparisons drawn in "L" are applicable when comparison is made between the new survey and the latest edition of Chart No. 8281.

N. DANGERS AND SHOALS:

There are no dangers except in the proximity of the shoreline or near small islets, except through Nakwasina Passage where extensive tidal flats abound. The passage should not be negotiated except by small boats, then at low water when the outer limits of the tidal flats are discernible, or with special local knowledge.

Shoals in Nakwasina Sound:

1. A 3-9/10 fathom shoal south of Allan Point in Latitude 57° 14'.15, Longitude 135° 23'.50.

2. A 9-~~2~~1/10 fathom shoal NE of Allan Point, in Latitude 57° 14'.87, Longitude 135° 22'.50

Shoals in Nakwasina Passage:

1. A 4~~5~~1 fathom shoal in channel north of Allan Point, in Latitude 57° 14'.84, Longitude 135° 23'.54.

2. A rock with least depth of 6/10 fathom in mid-channel south of Limit Island in Latitude 57° 15'.22, Longitude 135° 28'.22.

3. A rock with least depth of 6/10 fathom SE of triangulation station EDDIE 1948, in Latitude 57° 15'.23, Longitude 135° 29'.30. KM-7-51

4. A 7-2/10 fathom shoal NE of Halleck Point, in Latitude 57° 14'.23, Longitude 135° 30'.50.

5. A 5-6/10 fathom shoal NE of Halleck Point, in Latitude 57° 14'.08, Longitude 135° 30.62'.

6. A 3-7/10 fathom shoal NE of Halleck Point, in Latitude 57° 14'.04, Longitude 135° 30'.74.

O. COAST PILOT:

Coast Pilot information furnished in letter to Director dated 7 November 1949.

P. AIDS TO NAVIGATION:

There are no aids to navigation within the limits of this survey.

Q. LANDMARKS FOR CHARTS:

See "Air Photo Inspection Report".

R. GEOGRAPHIC NAMES:

There are no new names or changes in charted names of geographic features.

S, SILTED AREAS:

The area enclosed within the 50 fathom curve in Nakwasina Sound is heavily silted. There is a layer of soft mud and ooze over most of the area approximately 8 to 10 feet in thickness. Through Nakwasina Passage the area enclosed by the 10 fathom curve is heavily silted.

Z. TABULATION OF APPLICABLE DATA:

The following listed Special Reports are pertinent to this survey and report:

1. Air Photo Inspection Report.

2. Descriptive Reports to Accompany Topographic Sheet T-7130 (PA-B-49) and T-7130 (PA-C-49). (Attached to D.R. of H-7789 (1949) (G. C. sheets destroyed)

3. Temperature and Salinity Observations. Filed with H-7787

4. Triangulation Report.

Applicable Data Attached to this Report:

1. Table of Statistics.
2. Tide Note.
3. List of Signals.
4. Table of Velocity Corrections.

Submitted by

Ira R. Rubottom
LCDR USC&GS
USC&GSS PATTON

Approved and Forwarded:

J. C. Partington
CDR USC&GS
Cmdg., USC&GSS PATTON

H 7788
Pa 1249
Nakwasina Passage and Nakwasina Sound.

Processing Office Notes.

Smooth Sheet.
The projection was ruled by hand on Whatman paper. Triangulation stations are from the field computations of Boothe 1948 and Partington 1949. Shoreline is to come from Photo Proj. Ph 49, sheets T 8475, T 8484, T 8821 and possibly T 8819, (1949) when available.
All important soundings have been emphasized and pointed out with arrows.

Subplan.
The narrowest part of Nakwasina Passage was blown up four times to scale 1/ 2,500 so that the channel can be shown adequately. On the subplan, at ϕ 57°14'56" λ 135°25'~~03~~ 4" the crossing of lines 99-98 k and 71-72 c is not satisfactory.* Soundings were shown to the margin of the box but were not extended to the position when the position fell without the box. * Pos. 71C adjusted to bring about adequate crossing

Name.
We note on the bottom line of Page 3 of this report the use of the name Limit Island which does not appear on the chart. It apparently applies to the islet at ϕ 57 15.3 λ 135 28.3. The authority is not known.

Edgar E. Smith
Cart. Engr.

1/20/51

LIST OF HYDROGRAPHIC SIGNALS

SHEET H- 7788(PA-1249)

NAKWASINA PASSAGE & Nakwasina Soumd, S. E. ALASKA

Hydrographic Name	Source
Abe	PA-C-49
Able	PA-B-49
Aid	Tri. Sta. AID 1896
Akwa	Tri. Sta. AKWA 1949
All	Tri. Sta. ALLEC 1949
Alp	Tri. Sta. ALPHA 1948
Axe	PA-B-49
Bag	PA-C-49
Bart	PA-C-49
Box	PA-B-49
Cam	PA-C-49
Can	Tri. Sta. CANT 2 1948
Cat	PA-B-49
Cur	Tri. Sta. CURSA 1948
Daw	PA-C-49
Del	Tri. Sta. DELTA 1948
Dix	PA-B-49
Dub	PA-B-49
Dye	Tri. Sta. DYE 2 1948
Ear	PA-C-49
Edd	Tri. Sta. EDDIE 1948
End	PA-B-49
Fab	Tri. Sta. FABIA 1948
Far	PA-C-49
Gal	PA-C-49
Gin	PA-B-49
Gle	Tri. Sta. GLEAM 1949
Hag	Tri. Sta. HAGEN 1949
Ham	Tri. Sta. BAHAM 1948
Hat	PA-C-49
Her	PA-B-49
Ida	PA-C-49
Ide	Tri. Sta. IDEAL 1949
Ivy	PA-B-49
Jan	Tri. Sta. JANAR 1949
Jug	PA-B-49
Kel	Tri. Sta. YOKEL 1949
Ken	PA-C-49
Kit	Tri. Sta. KITAL 1949
Lan	Tri. Sta. ALLAN 1949
Lax	PA-C-49
Lec	Tri. Sta. ALLEC 1949
Lep	Tri. Sta. LEPUS 1949
Liz	PA-B-49
Log	PA-A-49
Mal	PA-C-49
Med	Tri. Sta. MEDIA 1949
Mum	PA-B-49
Ned	PA-C-49
Nip	PA-B-49
Nof	Tri. Sta. RANOF 1949
Nox	Tri. Sta. NOXON 1949
Oak	PA-C-49
Olga	Tri. Sta. OLGA 1896
One	Tri. Sta. OZONE 1949
Pad	PA-C-49
Par	PA-B-49
Pass	Tri. Sta. PASS 1949
Pile	Tri. Sta. Pile 1949
Pos	Tri. Sta. POSER 1949
Pug	PA-B-49
Quo	PA-C-49
Qui	Tri. Sta. QUIET 1949
Ree	Tri. Sta. Neva Pt. Reef Light 1948
Red	PA-B-49
Sage	Tri. Sta. SAGE 1949
Sal	PA-B-49
Sax	Tri. Sta. SAXON 1949
Sina	Tri. Sta. SINA 1949
Tree	PA-B-49
Try	PA-B-49
Tuf	Tri. Sta. TUFFY 1949
Unc	Tri. Sta. UNCLE 1949
Vel	Tri. Sta. VELMA 1949
Vex	PA-B-49
Wax	Tri. Sta. WAXEN 1949
Yel	PA-B-49
Zig	PA-B-49
Zin	Tri. Sta. ZINDA 1949

VELOCITY CORRECTIONS

U.S.C.& G.S. SHIP PATTON

J. C. PARTINGTON, COMMANDING

LOCALITY: NAKWASINA SOUND & PASSAGE, S. E. ALASKA

HYDROGRAPHIC SURVEYS NOS. PA-1149 and PA-1249

FOR USE BETWEEN 2 June and 24 June 1949

LAUNCH NO. 92

TABLE OF FATHOMETER CORRECTIONS

0.0	Fms.				to	5.0	Fms.
-0.1	"	from	5.1	Fms.	"	10.0	"
-0.2	"	"	10.1	"	"	15.0	"
-0.3	"	"	15.1	"	"	19.0	"
-0.4	"	"	19.1	"	"	23.0	"
-0.5	"	"	23.1	"	"	28.0	"
-0.6	"	"	28.1	"	"	32.0	"
-0.8	"	"	32.5	"	"	40.0	"
-1.0	"	"	40.5	"	"	48.0	"
-1.2	"	"	48.5	"	"	56.0	"
-1.4	"	"	56.5	"	"	64.0	"
-1.6	"	"	64.5	"	"	72.0	"
-1.8	"	"	72.5	"	"	80.0	"
-2.0	"	"	80.5	"	"	Above	

STATISTICS FOR HYDROGRAPHIC SURVEY H-7788 (PA-1249)

U. S. C. & G. S. S. PATTON - PROJECT CS-247

Date 1949	Day Letter	Vol. No.	Hand Lead & Wire Soundings	Positions	Statute Miles Of soundings
9 June	a	1	--	114	22.3
10 June	b	1	--	199	26.8
11 June	A(Ship)	1	10	10	Bottom Spec.
14 June	c	2	--	241	32.9
15 June	d	2 & 3	2	230	32.2
16 June	e	3	3	246	35.9
17 June	f	4	43	165	18.9
21 June	g	4 & 5	5	251	31.3
22 June	h	5	--	243	29.0
23 June	j	5 & 6	--	167	24.4
24 June	k	6	43	229	13.8
10 Sept.	l	6	13	13	Bottom Spec.
		Totals:	119	2095	267.5

Area: 6.4 square statute miles

H 7788
Pa 1249

Nakwasina Passage and Nakwasina Sound.

List of geographic names
penciled on smooth sheet.

Nakwasina Passage

Nakwasina Sound

Olga Strait

Baranof Island

Halleck Island

Allan Point

The name Limit Island is mentioned in the last line of Page 3 of the Descriptive Report for this hydrographic sheet, applying to the islet at ϕ 57° 15'.3 λ 135° 28'.3.

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H- H-7788

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.

2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.

3. All reference to survey sheets mentioned in the descriptive report include the registry number and year.

4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering.

5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.

6. All positions verified instrumentally were check marked in the sounding records.

7. All critical soundings are clear and legible and are a little larger than the adjacent soundings.

8. The metal protractor has been checked within the last three months.

9. The protracting and plotting of all bad crossings were verified.

10. All detached positions locating critical soundings, rocks or buoys were verified.

11. The boat sheet was compared with the smooth sheet.

12. The spacing of soundings as recorded in the records was closely followed.

13. The bottom characteristics were shown on outstanding shoals.

14. The reduction and plotting of doubtful soundings were checked.

15. The transfer of contemporary topographic information was carefully examined.

16. All junctions were transferred and overlapping curves made identical.

17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.

18. The depth curves have been inspected before inking.

19. All triangulation stations and transfer of topographic and hydrographic signals were checked.

20. Heights of rocks were checked against range of tide.

21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.

22. Unnecessary pencil notes have been removed.

23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.

24. The low water line and delineation of shoal areas have been properly shown.

25. Degree and minutes values and symbols have been checked.

26. Questionable soundings have been checked on the fathograms.

27. Source of shoreline and signals (when not given in report).

28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.

29. All aids located, with those on contemporary topographic sheets, have been shown on survey.

30. Depth curves were satisfactory except as follows:

31. Sounding line crossings were satisfactory except as follows:

32. Junctions with contemporary surveys were satisfactory except as follows:

33. Condition of sounding records was satisfactory except as follows:

34. The protracting was satisfactory except as follows:

35. The field plotting of soundings was satisfactory except as follows:

36. Notes to reviewer:

Verified by Date

7788

TIDE NOTE

Type of Gage: Standard Automatic

Location: Sitka, Baranof Island, S. E. Alaska
Lat. 57° 02.9'; Long. 135° 20.3'

Plane of Reference: Mean Lower Low Water

The gage was operated and maintained by personnel of the Sitka Magnetic Observatory. The hourly heights of the tide were furnished by the Washington Office.

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

1 March 1951

~~Division of Hydrography and Topography:~~

Division of Charts: R. H. Carstens

Plane of reference approved in 6
volumes of sounding records for

HYDROGRAPHIC SHEET 7788

Locality Nakwasina Sound, Southeast Alaska

Chief of Party: J. C. Partington in 1949
Plane of reference is mean lower low water, reading
5.0 ft. on tide staff at Sitka
13.1 ft. below B. M. 8 (1924)

Height of mean high water above plane of reference is 9.1 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Chief, ~~Division~~ Section of Tides ~~and Currents.~~

U. S. GOVERNMENT PRINTING OFFICE 756675

GEOGRAPHIC NAMES

Survey No. H-7788

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Southeastern Alaska			(for title)							1
Sitka Sound			(" ")							2
										3
Baranof Island									USGB	4
Halleck Island										5
Olga Strait										6
Narrwasina Passage									USGB	7
Narrwasina Sound									USGB	8
Allan Point										9
Limit Island										10
Bart Island										11
										12
				Names underlined in red are approved. 3-1-51 L Heck						13
										14
										15
										16
										17
Sitka		(location of tide gage)							USGB	18
										19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7788..

Records accompanying survey:

Boat sheets ..1..; sounding vols. .6...; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 1 env.;

special reports, etc. ..Smooth Sheet.....

.....

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

Number of positions on sheet		.....
Number of positions checked		.....
Number of positions revised		.....
Number of soundings revised (refers to depth only)		.....
Number of soundings erroneously spaced		.....
Number of signals erroneously plotted or transferred		.....
Topographic details	Time	.....
Junctions	Time	.....
Verification of soundings from graphic record	Time	.....

Verification by J C Chambers (Norfolk ..... Total time 176.. Date 6/30/53...

Reviewed by ..... Time 35 hrs. Date 23 Sept. 1952

Preliminary Verification - W. Werling - Time {41 hrs - Jan. 52 / 50 hrs Aug - 52

Stirni 11 - hrs

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7788 FIELD NO. PA-1249

S. E. Alaska, Sitka Sound, Nakwasina Sound and Passage

Project No. CS-247

Surveyed in June - September 1949 Scale 1:10,000

Soundings:

808 Fathometer
Hand lead
Wire

Control:

Sextant fixes on shore signals

Chief of Party - J. C. Partington
Surveyed by - J. C. Partington and I. R. Rubottom
Protracted by - C. N. Hillman
Soundings plotted by - C. N. Hillman
Preliminary Verification by - W. Werline
Verified and inked by -
Reviewed by - T. A. Dinsmore, 23 September 1952
Inspected by - R. H. Carstens

Ver. See Rev. of T-8821

1. Shoreline and Signals

The application of shoreline has been deferred pending complete verification and inking of the smooth sheet. The short sections of inked shoreline originate with graphic control survey sheets PA-B and C (1949) which will be destroyed subsequent to the preliminary verification and review of the surveys in this area.

The signals also originate with the above-mentioned graphic control surveys.

2. Sounding Line Crossings

Depths at sounding line crossings are in very good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. The low-water curve was determined where practicable.

Except for irregularities inshore and adjacent to the islets, the bottom is relatively smooth. The deeper areas of Nakwasina Passage and Sound are heavily silted. As much as 8 to 10 ft. of soft mud and ooze covers some areas.

4. Junctions with Contemporary Surveys

The present survey will junction adequately with H-7674 (1948) on the west and with H-7787 (1949) on the southeast in Nakwasina Sound. The transfer of junctional soundings will be made when these surveys are completely verified and inked.

5. Comparison with Prior Surveys

H-2287 (1896) 1:20,000
H-2290 (1896) 1:5,000
H-2302 (1897) 1:20,000

These prior surveys taken together cover the area of the present survey. A comparison between the prior and present depths indicates that no appreciable changes in bottom have taken place. Prior depths in the deeper areas are generally slightly greater than present depths but such differences are usually found when comparing lead line and fathometer soundings in extremely soft bottom. The present survey obtained many shoal depths not revealed by the sparse development on the old surveys.

Specific mention is made of the following discrepancies:

(1) The 11-fm. sounding charted in lat. 57° 14.66', long. 135° 29.84', from H-2287 falls in 16-fm. depths on the present survey. Closely spaced sounding lines on the present survey clearly indicates smooth bottom with no shoal indications. The prior sounding is probably 5 fms. in error and should be disregarded.

(2) The 23-fm. sounding charted in lat. 57° 13.66', long. 135° 22.48', from H-2302 should be disregarded. Falling in present depths of 30 fms., the prior sounding was plotted out of position. In its corrected position about 100 meters southeastward, the prior sounding falls in comparable depths on the present survey.

(3) The 31-fm. sounding charted in lat. 57° 13.32', long. 135° 22.85', from H-2302 falls in 50 to 51-fm. depths on the present survey. Closely spaced sounding lines on the present survey clearly indicates smooth bottom. The prior sounding is considered to be 20 fms. in error and should be disregarded.

(4) The 12-fm. sounding charted in lat. 57° 13.93', long. 135° 23.45', from H-2302 falls in depths of 20-30 fms. on the present survey. The prior sounding which falls on a steep slope is considered to be out of position and should actually fall about 80 meters westward where comparable depths were obtained on the present survey. The prior sounding should be disregarded.

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

6. Comparison with Chart 8281 (Latest print date 3/5/51)

A. Hydrography

Charted hydrography originates principally with the previously discussed surveys supplemented by a few critical soundings from the present survey prior to verification and review.

The charted information is entirely superseded by the present survey.

B. Aids to Navigation

No aids to navigation are charted within the limits of the present survey. The only dangers to navigation in the area lie close inshore, near small islets and in Nakwasina Passage where extensive tidal flats abound. The passage should not be navigated except by small boats at low water when the outer limits of the tidal flats are visible.

7. Condition of Survey

a. The sounding records are complete; the Descriptive Report covers all matters of importance.

b. The preliminary inspection and verification of the survey sheet indicates that the smooth plotting was well done.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions. Coverage of the area for bottom characteristics was unusually complete.

9. Additional Field Work

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

H. R. Edmonston
Chief, Nautical Chart Branch

Examined and approved:

H. Arnold Karo
Chief, Division of Charts

L. S. Hubbard
Chief, Section of Hydrography

Earl O. Heaton
Chief, Division of Coastal Surveys

B-1590-3

Preliminary Verification

TH-7788

Instructions

1. Inspect junctions for agreement of hydrography, and curves

2. Verify the following:

3.7 fm	lat. 57°14.03'	long. 135°30.75'	✓
5.6	14.07'	30.65'	✓
*	14.75	31.0	✓
8.6	14.81	30.68 – spacing or scanning interval?	✓
(2) 2.4	14.8	30.33	✓
4.3	14.75	30.37	✓
12.5	14.82	29.96 12.3 - 18 J	✓
0.6 (MISREAD)	14.78	29.20 – offshore from 2-fm at 79h?	✓
7.2	14.23	30.50 15 K	✓
*	15.02	30.02 – also, extend 3-fm curve here	✓
0.6	15.23	29.3 – also, " 1-fm " "	✓
0.8	15.25	29.16 – detached pos. 228g in error? No	✓
0.5	15.20	29.10 – detached from reef? Yes	✓
–	15.17	29.0 – reef? T Sheets in Portland being compiled – See Boat Sheet	
0.6	15.21	28.2	✓
–	15.34	28.34 Description ⊙ Gal See G.C. PA-CWP Desc. Rept.	✓
*	15.30	28.35	✓
–	14.9	26 – all channel depths in passage from 1 to 5 fms (insert)	✓
0.8	14'56"	25'55" (insert) detached shoal or displaced?	
4.9	14.85	23.57'	✓
*	14.53	23.26	✓
6.1	14.57	23.07	✓
*	15.0	22.7	✓
9½ (also 9⅜)	14.77	22.5 148-149 ⊙ 150-151 ⊙	✓
*	14.98	21.82	✓
9.6	14.57	21.17	✓
3.4	14.74	20.80	✓
*	14.53	23.77	✓
3.9	14.15	23.5	✓
9.7	14.02	23.40 107 - 108 ⊙	✓
*	15.07	22.9 - 18 ⊙ day	✓

(over)

36, 38	52-53 m	14.15'	22.97'	← OK possible 5-fm errors in scanning
9.1		14.36	21.6	✓
10.2		14.~~5~~18	21.88	—(drop 0.2 for curve) ✓
1.7		14.34	~~21.15 — on turn 15-16?~~	check bottoming 52-53f ✓
12.1		14.27	21.37	✓
—		14.1	21.6 — ~~235-236e~~	✓
—		14.~~4~~25	21.2 — Description ⊙ Mum	See O.R.
3.9		14.45	21.15	✓
9.6		14.57	21.17 (again?)	✓
6.6		13.81	23.5	✓
4.8		13.98	22.10 (- spacing 220-221d Steep Slope irregular timing increased)	✓
10.9		13.12	23.60	✓
—		12.48	24.25 — Sdgs 100-101b appear to be	✓
			See Vol ~~to a~~ for ~~off~~ shore. 100-101b	

Same line

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7788

Preliminary Review 23 Sept. 1952

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3 May 51	8252	Forrest H Bell	partial application for shoal soundings Before ~~After~~ Verification and Review
Febr. 51	8281		added a few critical sdgs. Before ~~After~~ Verification and Review
12/11/52	8281	SA McGann	~~Before~~ After Preliminary Verification and Review ~~Partially applied~~ Completely applied ?
Mar 59	8281 Recon	CR Wellman	~~Before~~ After Preliminary Verification and Review
8-19-60	8252	Geo M Boggs	~~Before~~ After Verification and Review Completely appd Rec 8281 Recons
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			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.