FE 126 WIRE DRAG

Diagram No. 8102-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

(HIDROGRAPHIC)
Type of Survey Wire Drag
Field No
Office No. FE-126WD
LOCALITY
State Southeast Alaska
General Locality Dixon Entrance
LocalitySurf Point
•••••
1954
CHIEF OF PARTY J. Bowie
LIBRARY & ARCHIVES
DATE

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.5 1954WD

FENO.5 1954 FE-126

Diag. Cht. No. 8102-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. SPECIAL Office NoF.E.No.5,1954
Wire Brag

LOCALITY

State SOUTHEAST ALASKA

General locality DIXON ENTRANCE

Locality SURF POINT

194 54

CHIEF OF PARTY

J. Bowie

LIBRARY & ARCHIVES

DATE AUG 3 0 1954

B-1870-1 (1)

Review

REPORT. SPECIAL SURVEY. S. E. ALASKA.

SURF POINT DIXON ENTRANCE.

- This survey was executed in accordance with Instructions 22/MEK, S-2-HO dated 10 September 1953 and 22/MEK, S-2-HO dated 18 December 1953.
- The purpose of the survey was to determine the least depth in the vicinity of the charted sunken rock, latitude 54 - 41.1', longitude 132 -09.7, and to prove or disprove the existence of a reported rock 200 meters south of this position, and to provide additional hydrography in this vicinity.
- Control was furnished by recovery of triangulation station SURF 1908-21; hydrographic stations EDGE, HEM, and DUB (Survey T-3826) (signal DUB was erroneously called DUD and was so recorded in the record books); hydrographic / station BET, (Survey H-3042). Stations from T-3826 were pricked through from a tracing of H-4160. The geographic position of BET was furnished by the Washington Office.
- Hydrography was executed using 808 type fathometers in launches 98 and 134. An east west system of lines, maximum spacing 100 meters, was run between meridians 132 - 07.7' and 132 - 10.2' from parallel 54 - 40.8' northward to 200 to 300 meters south of the beach line. An additional system of closely spaced lines was run in a north and south direction over the charted sunken rock and the reported rock. The shoalest depth found in the vicinity of the reported rock was 8.4 fathoms. The charted 7 fathom sounding near latitude 54 - 41.3', longitude 132 - 08.1' was verified by a 7 fathom sounding 130 meters southwest of the charted sounding.
- The charted sunken rock and the reported uncharted rock were disproved by wire drag. The first days dragging was with an effective depth' of 31 feet. The second days dragging was with an effective depth of 37 and P3 38 feet. The charted and reported position of the rock were both cleared with an effective depth of 38 feet. An adequate overlap was made with previous wire drag surveys (4-4159 WD, 1920) Rep. Rk. cleared by eff. depth of 31ft.

In the dragging 20 July the strip, positions 1 - 12 were run with the current, and when the drag was reversed to start back the current had increased so that very little headway could be made and it was necessary to discontinue dragging.

In the dragging 26 July the strip, positions 1 - 12 were run near slack current. In returning to the ship the drag was reversed and towed back over the same area. No recording was made of this run.

Tides from a portable tide gage at Tah Bay were used to reduce the 6. sounding and dragging to M.L.L.W. Letter 36-rjb dated 11 August 1953 advised that the tides at Minnie Bay and Tah Bay were practically identical and either could be used without time or heighth correction. The Tah Bay gage was in operation and in view of this letter it was not considered necessary to install a gage at Minnie Bay.

When the marigram was removed from Tah Bay gage 21 September it indicated that the intake was partially plugged. This was cleared. The following comparison was made with predicted tides and Tah Bay record to determine if this partial plugging had affected the record for 20 September.

		Tide table		Tah Bay		
		time	height	time	height	
9/19	L	22:12	1.4	22:15	1.6	
9/20	H	04:04	12.0	04:00	11.8	
· / ~ •	L	10:26	-0.5	10:28	-0.4	
	H	16:52	12.5	16:35	12.4	
	Τ.	23:04	1.1	23:10	1.2	

From this comparison it was concluded that the gage was not affected during the time surveys were in progress.

7. It is noted that Mr. Howell begins his letter of 21 August 1953 with the statement that he was searching for a sunken wreck. If his position is good, it is possible he may have found the wreck and mistaken it for an uncharted rock. If so the wreck has since then either settled to the bottom or has been carried out of the area by the currents.

- 8. There are strong currents, estimated about 4 knots, in this area with heavy tide rips. With a heavy southwesterly swell the rips might give the appearance of breakers.
- 9. From the results of this investigation there are no rocks in the dragged area that are a menace to navigation.

The charted sunken rock and reported sunken rock do not exist and should be deleted from all charts. (See TP 3 of Review)

- 10. The data forwarded consists of;
 - 2 volume Sounding record
 - 1 volume Wire drag record
 - 3 fathograms
 - 1 sheet tide reducers
 - l overlay showing area wire dragged
 - 2 boat sheets (the soundings and positions on the boat sheets are field plot using predicted tides)

Respectfully submitted,

E. F. Hicke, Jr., Comdr. C&GS

Records and report approved and forwarded.

John Bowie,

Comdr. C&GS.

Comdg. Ship HODGSON

REPORT. SPECIAL SURVEY. S. E. ALASKA.

DIXON ENTRANCE. SUHF POINT

- 1. This survey was executed in accordance with Instructions 22/MEK, S-2-HO dated 10 September 1953 and 22/MEK, S-2-HO dated 18 December 1953.
- The purpose of the survey was to determine the least depth in the vicinity of the charted sunken rock, latitude 54 41.1, longitude 152 09.7, and to prove or disprove the existence of a reported rock 200 meters south of this position, and to provide additional hydrography in this vicinity.
- Control was furnished by recovery of triangulation station SURF 1908-21; hydrographic stations EDGE, HEM, and DUB (Survey T-3826) (signal DUB was erroneously called DUD and was so recorded in the record books); hydrographic station BET, (Survey H-3042). Stations from T-3826 were pricked through from a tracing of H-4160. The geographic position of BET was furnished by the Washington Office.
- 4. Hydrography was executed using 808 type fathometers in launches 98 and 134. An east west system of lines, maximum spacing 100 meters, was run between meridians 132 07.7° and 132 10.2° from parallel 54 40.8° northward to 200 to 300 meters south of the beach line. An additional system of closely spaced lines was run in a north and south direction over the charted sunken rock and the reported rock. The shoalest depth found in the vicinity of the reported rock was 8.4 fathoms. The charted 7 fathom sounding near latitude 54 41.3°, longitude 132 08.1° was verified by a 7 fathom sounding 130 meters southwest of the charted sounding.
- 5. The charted sunken rock and the reported uncharted rock were disproved by wire drag. The first days dragging was with an effective depth of 31 feet. The second days dragging was with an effective depth of 37 and 38 feet. The charted and reported position of the rock were both cleared with an effective depth of 38 feet. An adequate overlap was made with previous wire drag surveys.

In the dragging 20 July the strip, positions 1 - 12 were run with the current, and when the drag was reversed to start back the current had increased so that very little headway could be made and it was necessary

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From this comparison it was concluded that the gage was not affected during the time surveys were in progress.

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- 8. There are strong currents, estimated about 4 knots, in this area with heavy tide rips. With a heavy southwesterly swell the rips might give the appearance of breakers.
- 9. From the results of this investigation there are no rocks in the dragged area that are a menace to navigation.

The charted sunken rock and reported sunken rock do not exist and should be deleted from all charts.

- 10. The data forwarded consists of;
 - 2 volume Sounding record
 - 1 volume Wire drag record
 - 3 fathograms
 - 1 sheet tide reducers
 - l overlay showing area wire dragged
 - 2 boat sheets (the soundings and positions on the boat sheets are field plot using predicted tides)

Respectfully submitted,

E. F. Hicks, Jr., Comdr. C&GS

Records and report approved and forwarded.

John Bowie, Comdr. C&GS. Comdg. Ship HODGSON

TIDE NOTE FOR HYDROGRAPHIC SHEET

Navi zivov z z viyor agosphy zaod z zopograpiny:

16 September 1954

Division of Charts:

R. H. Carstens

Plane of reference approved in 3 volumes of sounding records xxxxx and wire drag records for

XHXDRQGBAPHIG XHEET

F. E. No. 5 1954

Locality Dixon Entrance, Southeast Alaska

Chief of Party: J. Bowie in 1954
Plane of reference is mean lower low water, reading
3.2 ft. on tide staff at Tah Bay
14.2 ft. below B. M. 1 (1909)

Height of mean high water above plane of reference is 11.9 feet.

Condition of records satisfactory except as noted below:

E.C. Mc Kay.
Tides Branch

Chief, Division of Tides and Currents.

J. S. GOVERNMENT PRINTING OFFICE . 756675

Survey No. F. E. No.	フ ェソ 54 ノ	- John	(evious	/5 NOS	Joen did	Ma	Guide	McHall	jų į
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E.No. 5.1954

Records accompanying survey:		
Boat sheets; sounding vols; w	ire drag	g vols;
bomb vols; graphic recorder rolls		and I shoot (Aid)
special reports, etc. 1 Overlay showing the are with fallograms) with tide reducers: 1 report(special survey);	ea wire d	ragged; I sheet verez
The following statistics will be submitted wit rapher's report on the sheet:	th the d	cartog-
Number of positions on sheet		230
Number of positions checked		
Number of positions revised		0
Number of soundings revised (refers to depth only)		
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		0.
Topographic details	Time	
Junctions	Time	/.
Verification of soundings from graphic record	Time	/
Verification by Surjeshoud Total time	1.6	Date /0/29/54
Reviewed by Swileskuid Time	22	Date /0/19/54 Date /2/3/54

Review of Field Examination No. 5, 1954

1. Authority

This combined wire-drag and hydrographic field examination was accomplished in compliance with Instructions 22/MEK,S-2-HO dated 10 September 1953 and 22/MEK,S-2-HO dated 18 December 1953.

2. Purpose

The purpose of the field examination was as follows:

- a. To determine the least depth in the vicinity of the sunken rock which is shown on Chart 8145, dated June 21, 1954, in lat. 54°41.1', long. 132°09.7', and which originates with H-4159 WD (1920) as a 47 ft. grounding.
- b. To prove or disprove the existence of the reported sunken rock which is shown on Chart 8145, dated June 21, 1954, about 200 meters south of the sunken rock mentioned in paragraph (a) above and which originates with Chart Letter 806 (1953).
- c. To provide additional hydrography in the vicinity of the rocks mentioned in paragraphs (a) and (b) above.

3. Results

The results of the field examination are as follows:

- a. The vicinity of the sunken rock mentioned in paragraph (2a) above was wire-dragged to an effective depth of 37 ft. without the wire-drag hanging or grounding. However, a least depth of 8.4 fms was obtained about 75 meters west of the charted rock after close development of the area by means of the fathometer.
- b. The vicinity of the sunken rock mentioned in paragraph (2b) above was wire-dragged to an effective depth of 31 ft. without the wire-drag hanging or grounding. However, a least depth of 9 fms. was found about 100 meters north of the charted location of the reported sunken rock after close development of the area by means of the fathometer. The sunken rock is considered disproved in its reported position.

c. Hydrography was accomplished in the area as outlined in paragraph (4) of the Descriptive Report.

d. The effective depths determined by the present wiredrag operations are in harmony with the present depths.

4. Comparison with Prior Surveys

A. Hydrography

H-3042 (1909), 1:20,000 H-4160 (1920), 1:20,000

A comparison between the prior surveys and the hydrography of the field examination reveals only minor differences of 1-2 fms. in depths. The field examination, however, more closely develops the common area. Two soundings were carried forward to the present survey from H-4160.

With the addition of the 2 soundings from the prior survey, the field examination is adequate to supersede the prior surveys within the common area.

B. Wire-drag

H-4159 WD (1920), 1:20,000

Effective drag depths on the prior survey are in harmony with the hydrography on the present field examination within the common area.

5. Comparison with Chart 8145 (Latest print date 6-1/54) (Hand corrected to Nov. 26, 1954)

Charted depths originate principally with the previously mentioned hydrographic surveys supplemented by a clearance depth from the present wire-drag field examination. The present effective wire-drag depths do not conflict with the charted depths

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

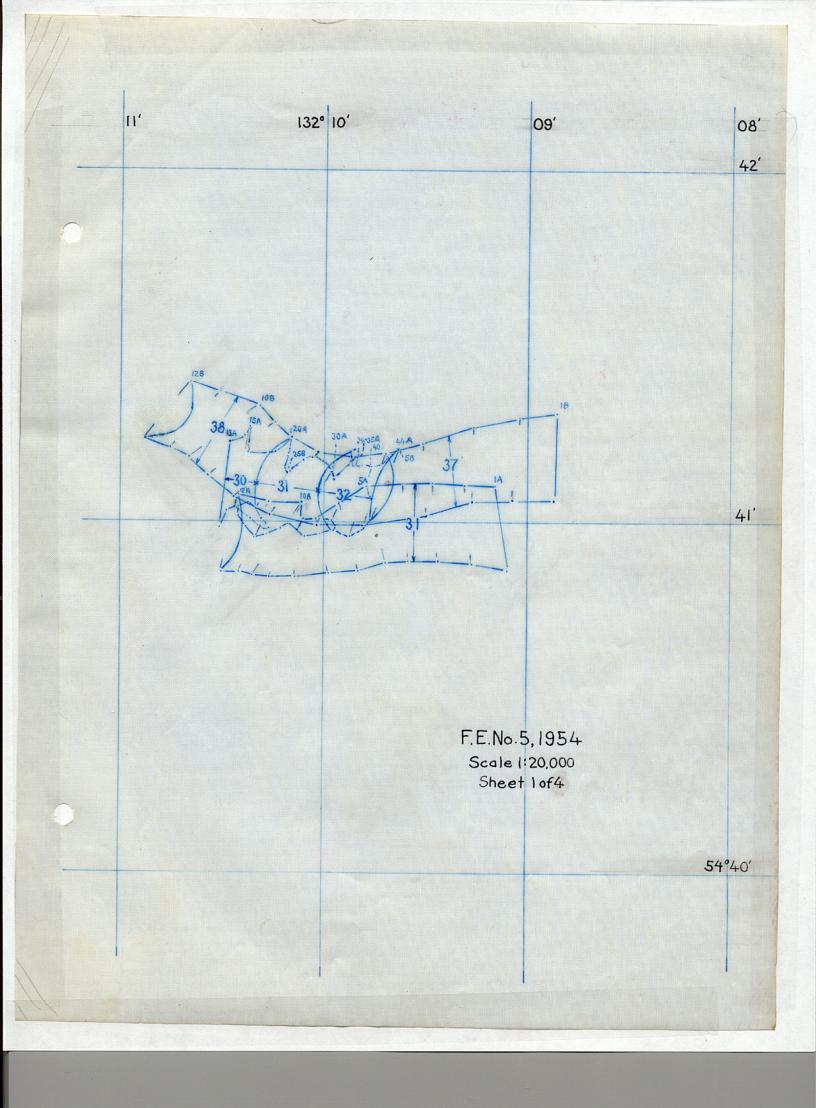
6. Miscellaneous

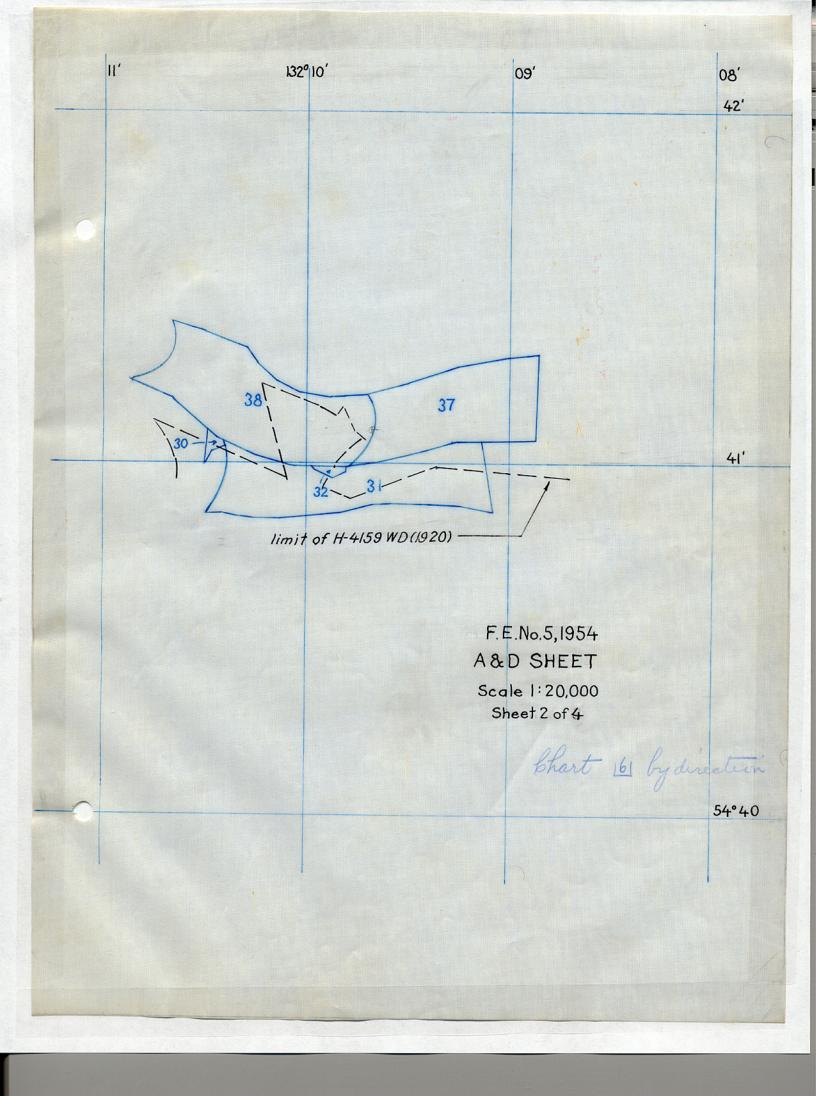
The wire-drag and hydrographic field examination are plotted on the attached 4 sheets.

The Descriptive Report and attached correspondence adequately cover all other matters pertaining to this examination. No further discussion is considered necessary

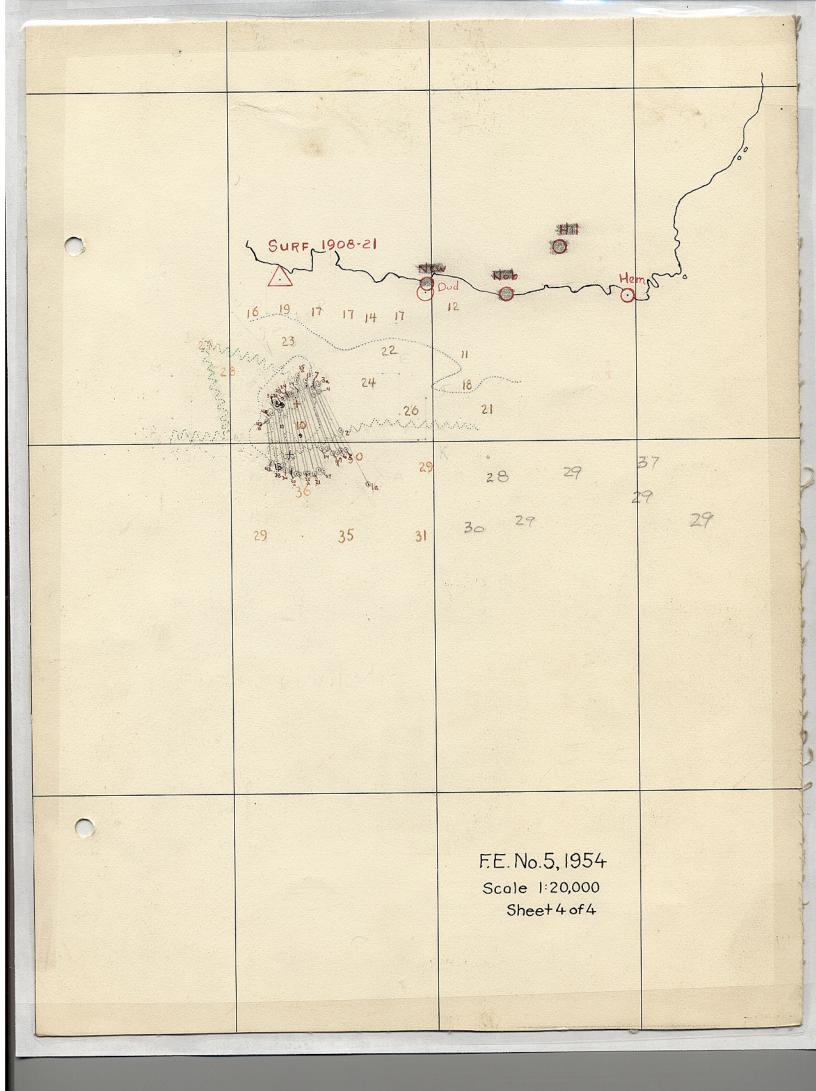
I. M. Zeskind 12/3/54

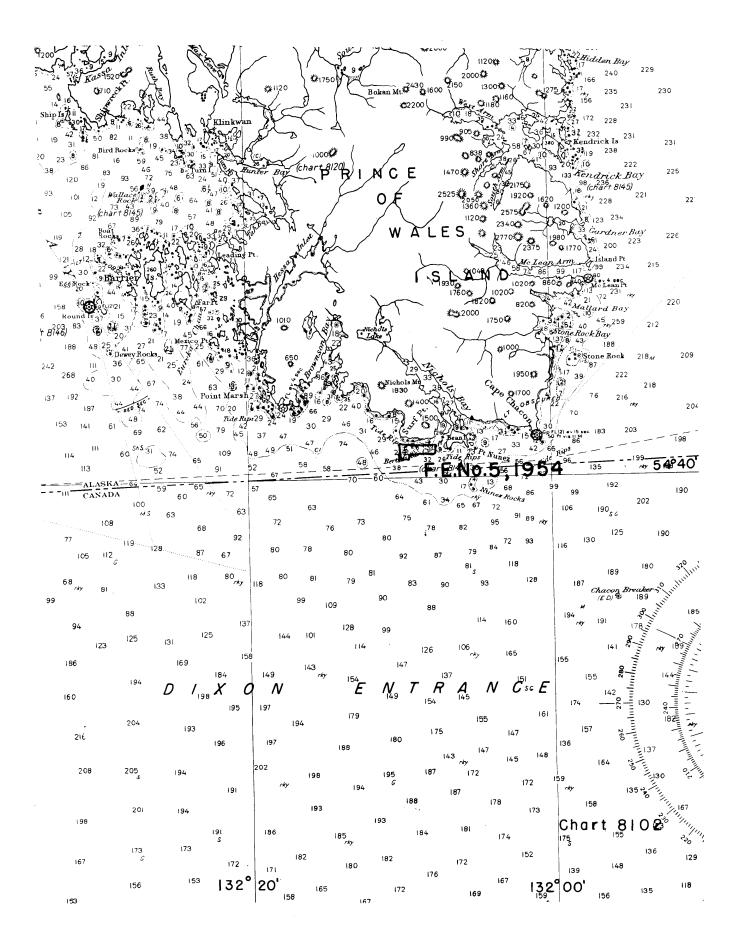
Inspected by - R. H. Carstens





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30 29		30 29	29	
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	The state of the s	Soundings in orange from H-4160 (1920)		
		F.E.No.5 Scale 1:2		
		Sheet 3	of 4	
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				0.30
		4		





NAUTICAL CHARTS BRANCH

SURVEY NO. <u>F.E.No.5</u>, 1954

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/13/55	8102	JWalker,	Waiting for complete application Ir Ch 8145
9/30/55	8145	W.W Borgayne Meleolo	Before After Verification and Review Completely applied
5 Sept 57	8102	meliots	Before After Verification and Review Furu Chart 8/45
	·		Before After Verification and Review
			Before After Verification and Review
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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.