FE263

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

Type of Survey Field Examination

Field No. RA-10-7-84

Registry No. FE-263

LOCALITY

State Alaska

General Locality Tongass Narrows

Sublocality Vicinity of Ketchikan

19 84

CHIEF OF PARTY
CDR J.P. Vandermuelen

LIBRARY & ARCHIVES

DATE March 7, 1985

*U.S. GOV. PRINTING OFFICE: 1967---756-980

Diagram No. 8102-3

Chts

17430
17428
17434
17420-NC

NOAA FORM 77-28 (11-72)

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

REGISTER NO.

FE-263

HYDROGRAPHIC TITLE SHEET

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

FIELD NO.

RA-10-7-84

State: Alaska

General locality: Tongass Narrows

Locality: Vicinity of Ketchikan

Scale: 1:10,000 Date of survey: Oct. 29, 1984

Instructions dated: Aug. 9, 1984 Project No.: OPR-0168-RA-84

Vessel: (2123)

Chief of party: CDR J. P. Vandermeulen, NOAA

Surveyed by: ENS J. Griffin, NOAA

Soundings taken by echo sounder, ~~hand lead, pole~~: Raytheon DSF 6000N

Graphic record scaled by: Survey Department

Graphic record checked by: Survey Department

~~Protracted by~~ Verified by: T.O. Jones Automated plot by: PMC Xynetics Plotter

~~Verification by~~ Evaluated by: C.R. Davies

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

REMARKS: This survey was conducted on a time available basis in conjunction with OPR-0168-RA-84. Marginal notes in black by Evaluator.

STANDARDS CK'D 3-8-85

C.LOY

AWOIS and SURF 11/85 RWD

NOAA FORM 77-28 SUPERSEDES FORM C&GS-537.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1978-665-010-1174

$\frac{12}{72}$

A. PROJECT ✓

This field examination was conducted on an opportunity basis in conjunction with project instructions OPR-0168-RA-84, Behm Canal, Alaska, dated, August 9, 1984 and Change 1, dated August 17, 1984.

B. AREA SURVEYED ✓

This examination was conducted within 200 meters of the submerged wreck PA in Ketchikan, Alaska, charted at latitude 55/20/15N, longitude 131/38/14W. The survey was conducted on October 29, 1984, and involved using sidescan sonar to disprove the submerged wreck.

See EVAL. Report Sec. VII

C. SOUNDING VESSEL ✓

Launch RA-3(2123) was used to collect all sounding and sidescan data.

D. SOUNDING EQUIPMENT AND CORRECTIONS TO ECHO SOUNDINGS ✓

Soundings were obtained using a DSF-6000 echo sounder and Klein sidescan sonar system. A bar check was taken and the following corrections were applied; TRA, velocity, settlement and squat, ANDIST and draft. See Corrections To Echo Sounding Report OPR-0168-RA-84 for details.

E. HYDROGRAPHIC SHEETS ✓

One final field sheet was prepared at 1:10,000 scale and is included in this report. Field records will be forwarded to N/MOP21 for verification and processing.

F. CONTROL STATIONS ✓

Horizontal control for this survey was from the following existing Third-order stations; HICK 1906, ISLE 2 and ~~STANDARD OIL PIER WEST LIGHT~~. Standard Oil Pier West Light was not used for control.

G. HYDROGRAPHIC POSITION CONTROL ✓

The Mini-Ranger III system was used for position control using the range-range method. Critical calibration was done using the static method to confirm baseline calibration correctors. For details see ELECTRONIC CONTROL REPORT OPR-0168- RA- 84.

H. SHORELINE ✓

Shoreline shown on the final field sheet is from chart 17430 and is for orientation only.

See EVAL Report Section II

I. CROSSLINES ✓

NONE

See Section III of EVAL Report

J. JUNCTIONS ✓

NONE

K. COMPARISON WITH PRIOR SURVEYS ✓

NONE

L.COMPARISON WITH THE CHART ✓

This survey was compared with chart 17~~34~~43 0 8th ED. Soundings agreed well, generally within 1 fathom. Sidescan was run at 400% coverage over the submerged wreck PA charted at latitude 58/20/15N, longitude 131/38/14W. No indication of the wreck was found in the search of a approximately 200m radius area of the charted position. The wreck originates from LNM 20/12/1983 (copy attached) ENM 20/83 and is shown on chart 17428. It is recommended that the wreck be deleted from chart 17428 and that it does not appear on chart 17430.

See EVAL Report Section VII

M.ADEQUACY OF SURVEY ✓

This survey is considered adequate to disprove the previously discussed submerged wreck.

See EVAL Report section VII

N.AIDS TO NAVIGATION ✓

NONE

See EVAL Report Section VII

O.STATISTICS ✓

There were 2 mi. of sounding and sidescan lines.

P.MISCELLANEOUS ✓

NONE

Q.RECOMMENDATIONS ✓

NONE

See EVAL Report Section VII

R.AUTOMATED DATA PROCESSING ✓

Data was collected with a Hydroplot system using program RK-112 dated 4/23/84.

S.REFERNCE TO OTHER REPORTS ✓

The following reports contain information related to this survey;

Echo Sounding Report	OPR-0168-RA-84
Electronic Control Report	OPR-0168-RA-84
Horizontal Control Report	OPR-0168-RA-84

Respectfully Submitted

Stanley R. Iwamoto
LT, NOAA

APPROVAL SHEET

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY

RA-10-7-84

FE-XXX

In producing this sheet, standard procedures were observed in accordance with the Hydrographic Manual, PMC OPORDER, and the Instruction Manual for Automated Hydrographic Surveys. The data was examined daily during the execution of the survey.

The boatsheet and the accompanying records have been examined by me, are considered complete and adequate for charting purposes, and are approved.

John P. Vandermeulen
Commander, NOAA
Commanding Officer

MASTER STATION LIST
OPR-0168-RA-84
BEHM NARROWS, ALASKA
KECTHIKAN, ALASKA

RA-10-7-84

FINAL VERSION

200 4 55 20 42117 131 41 14417 250 0005 000000
/ISLE 2 NGS LISTING

201 3 55 19 51286 131 37 59035 250 0001 000000
/HICK 1906 NGS LISTING

~~203 4 55 20 04096 131 37 38719 139 0005 000000~~
~~/STANDARD OIL PIER W LT~~ FIXED AIDS

AIDS ESTABLISHED, DISCONTINUED, OR CHANGED (cont.)

ALASKA - SOUTHEAST - GULF OF ESQUIBEL - KARHEEN PASSAGE - Aid Changed

The Chapin Island Range (LLPG 224) has been realigned on the center of the channel. The Rear Range Daybeacon now bears 306 degrees true from the Front Range Daybeacon.

Charts: 17404, 17403, 17400
U.S. Coast Pilot 8, 15th (1982) Ed., pg 128

ALASKA - SOUTHEAST - SITKA SOUND - KRESTOF SOUND - Buoys Deployed

The National Guard has placed 4 white mooring buoys in the following positions:

57°11'14"N, 135°33'00"W
57°10'00"N, 135°36'00"W
57°10'40"N, 135°36'43"W
57°11'41"N, 135°35'55"W

These buoys are scheduled to remain on station until approximately 17 April 1983.

ALASKA - SOUTHEAST - THOMAS BASIN - Possible Hazard to Navigation

A 20 foot boat burned and sank in position approximate 55°20'15"N, 131°38'14"W in 15 fathoms of water. The boat was burned to the water line in the stern and had extensive damage to the hull.

Charts: 17430, 17428
U.S. Coast Pilot 8, 15th (1982) Ed., pg 61

III. ADVANCE NOTICE OF CHANGES TO AIDS TO NAVIGATION:

IV. PROPOSED CHANGES TO AIDS TO NAVIGATION:

Periodically the Coast Guard evaluates its system of Aids to Navigation to determine whether the conditions for which the aids were established have been changed. When changes occur, the feasibility of improving, relocating, replacing, or discontinuing the aids is considered. In this regard, the Coast Guard is evaluating changes in aids to navigation. Comments are requested, and should be addressed to Commander (oan), Seventeenth Coast Guard District, P.O. Box 3-5000, Juneau, AK 99802.

		"4", red	55°26′18.2″N 132°20′15.0″W
★17426	11Ed. 4/21/79	LAST NM 36/82	(28/83 CG17) 37/83
	Delete	Light	55°22.2′N 132°12.3′W
★17427	4Ed. 7/7/79	NEW EDITION	(NOS) 42/79
★17427	4Ed. 7/7/79	LAST NM 42/79	(BP108454) 1/80
	Delete	Depths 9 fathoms	54°43′29″N 130°27′19″W
		15 fathoms	54°37′08″N 130°48′42″W
	Substitute	Depths ¾ fathoms for 43 fathoms	54°42′19″N 130°29′15″W
		1¼ fathoms for 34 fathoms	54°42′05″N 130°29′35″W
	Add	Submerged rock	54°43′28″N 130°27′22″W
		Depths 2½ fathoms	54°37′11″N 130°48′41″W
17427	4Ed. 7/7/79	LAST NM 1/80	(Can CH 3992 Ed 1978) 34/80
	Change	Visibility (range) of light to 5M	54°37.4′N 130°45.5′W
	Add	Depths 50 fathoms	54°36.1′N 130°29.2′W
		98 fathoms	54°38.6′N 130°45.3′W
★17427	4Ed. 7/7/79	LAST NM 34/80	(14/83 CG17) 21/83
	Add	Depth 2½ fathoms	55°07′17″N 130°42′33″W
		Dangerous rock awash	55°07′41″N 130°36′55″W
★17428	5Ed. 2/25/84	NEW EDITION	(NOS) 16/84
T 17428	5Ed. 2/25/84 (Temp'y)		(12, 41/81 CG17) 16/84
	Add	Buoy "8" Fl R 4sec	55°21′24.3″N 131°42′00.4″W
★17430	8Ed. 2/19/83	NEW EDITION	(NOS) 18/83
T 17430	8Ed. 2/19/83 (Temp'y)		(NOS; 12, 41/81 CG17) 18/83
	Add	Buoy "8" Fl R 4sec	55°21′24.3″N 131°42′00.4″W
★17430	8Ed. 2/19/83	LAST NM 18/83	(12/83 CG17) 20/83
	Add	Wreck (PA)	55°20′15″N 131°38′14″W
17430	8Ed. 2/19/83	LAST NM 20/83	(15/83 CG17) 21/83
	Change	Color of buoy to red and green bands (topmost band red)	55°18′07.5″N 131°34′33.5″W

(continued on next page)

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NOAA Ship RAINIER S221
1801 Fairview Avenue East
Seattle, Washington 98102-3767

December 3, 1984

TO: N/OMS12 - Chief, Tides and Water Levels Branch

FROM: S221 - John P. Vandermeulen

SUBJECT: Request for Approved Tide Data

Please provide the Nautical Chart Branch (N/MOP21), Pacific Marine Center, the following tide data:

1) Approved Tide Note (Form 712)
2) Approved Hourly Heights for Days of Hydrography
3) Hourly Heights on Magnetic Tape

These data are required for the processing of hydrographic survey:

Registry No. FE-XXX
Project Instructions: OPR-0168-RA-84
Location: Ketchikan Harbor

The final Progress Sketch and Abstract of Times of Hydrography/ Shoreline Verification (check one):

[X] are included with this request.

[ ] have been forwarded with the final tide record package for this survey mailed on / / .

[ ] are included with this request. The final tide record package for this survey will be forwarded at the end of this month.

Tide data are required within 90 days of receipt of this request. If this schedule cannot be met, please advise the Chief of the Hydrographic Section, N/MOP211, telephone FTS 392-6853.

FIELD TIDE NOTE
RA-10-7-84

Field tide reduction of soundings was based on predicted tides at Ketchikan, Alaska (945-0460). The primary gage at Ketchikan, Alaska was in operation during this survey.

DATE: 12/19/84

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Pacific
FE 263
OPR: 0168

Hydrographic Sheet: R/A 10-07-84

Locality: Ketchikan Harbor

Time Period: October 29-30, 1984

Tide Station Used: 945-0460 Ketchikan, AK

Plane of Reference (Mean Lower Low Water): 6.23 ft

Height of Mean High Water Above Plane of Reference: 14.5 ft

Remarks: Recommended zoning:

Zone Direct

James R. Hubbard
Chief, Tidal Datums Section

NOAA FORM 76-155
(11-72)

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

GEOGRAPHIC NAMES

SURVEY NUMBER
FE- 263
RA-10-7-84

* Name on Survey	A ON CHART NO. 17430 Pmed.	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	K U.S. LIGHT LIST	
KETCHIKAN	X									1
PENNOCK ISLAND	X									2
RADENBOUGH COVE	X									3
REVILLAGIGEDO ISLAND	X									4
THOMAS BASIN	X									5
TONGASS NARROWS	X									6
										7
										8
										9
										10
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										12
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										25

NOAA FORM 76-155 SUPERSEDES C&GS 197

HYDROGRAPHIC SURVEY STATISTICS

FE-263

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET	1	SMOOTH OVERLAYS: POS., ARC, EXCESS	1
DESCRIPTIVE REPORT	1	FIELD SHEETS AND OTHER OVERLAYS	1

DESCRIPTION	DEPTH/POS RECORDS	HORIZ. CONT. RECORDS	SONAR-GRAMS	PRINTOUTS	ABSTRACTS/ SOURCE DOCUMENTS	
ACCORDIAN FILES	1		1			
ENVELOPES						
VOLUMES						
CAHIERS						
BOXES						

SHORELINE DATA

SHORELINE MAPS(List):

PHOTOBATHYMETRIC MAPS(List):

NOTES TO THE HYDROGRAPHER(List):

SPECIAL REPORTS(List):

NAUTICAL CHARTS(List): 17430 - 8th Edition

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS		
	VERIFICATION	*EVALUATION*	*TOTALS*
POSITIONS ON SHEET			39
POSITIONS REVISED	1		
SOUNDINGS REVISED	7		
CONTROL STATIONS REVISED	0		
	TIME-HOURS		
	VERIFICATION	*EVALUATION*	*TOTALS*
PRE-PROCESSING EXAMINATION			
VERIFICATION OF CONTROL	2		2
VERIFICATION OF POSITIONS			
VERIFICATION OF SOUNDINGS	7		7
VERIFICATION OF JUNCTIONS			
APPLICATION OF PHOTOBATHYMETRY			
SHORELINE APPLICATION/VERIFICATION			
COMPILATION OF SMOOTH SHEET	3		3
COMPARISON WITH PRIOR SURVEYS AND CHARTS		7.5	
EVALUATION OF SIDESCAN SONAR RECORDS	2	1	3
EVALUATION OF WIRE DRAGS AND SWEEPS			
EVALUATION REPORT		3	
OTHER	2	7.5	
Digitization			
TOTALS	16	19	35

Pre-processing Examination by	*Beginning Date*	*Ending Date*
Verification of Field Data by T.O. Jones	~~Verification~~ Begin 1/3/85	*Ending Date* 1/24/85
Verification Check by J. L. Stringham, J.S. Green	*Time(Hours)* 8	*Ending Date* 2/5/85
Evaluation and Analysis by C.R. Davies	~~Verification~~ 1/29/85	*Ending Date* 2/6/85
Inspected by D. Hill	*Time(Hours)* 1	*Ending Date* 2-11-85

NOAA FORM 61-29
(12-71)

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

REFERENCE NO.
PMC-85-22

LETTER TRANSMITTING DATA

DATA AS LISTED BELOW WERE FORWARDED TO YOU BY *(Check)*:

☐ ORDINARY MAIL ☐ AIR MAIL

☒ REGISTERED MAIL ☐ EXPRESS

☐ GBL *(Give number)* _____

TO:

ATTN: N/CG243
NATIONAL OCEAN SERVICE
NOAA
ROCKVILLE, MD 20852

DATE FORWARDED
2/27 - Pkgs A & C
2/28 - Pkgs B & D

NUMBER OF PACKAGES
three four

NOTE: A separate transmittal letter is to be used for each type of data, as tidal data, seismology, geomagnetism, etc. State the number of packages and include an executed copy of the transmittal letter in each package. In addition the original and one copy of the letter should be sent under separate cover. The copy will be returned as a receipt. This form should not be used for correspondence or transmitting accounting documents.

OPR-0168-RA-84, Field RA-10-7-84
FE-263
Alaska, Tongass Narrows Vicinity of Ketchikan

Pkg A: R-175-159-406

✓1 Mylar Smooth Sheet
✓1 Descriptive Report
✓1 Title Sheet

Pkg D: R-175-159-407

✓1 Smooth Position/Sounding Printout/ Tide Printout

Pkg B: R-175-159-408

✓1 Mylar Boat sheet
✓1 Preliminary Position Overlay - Paper
✓1 Preliminary Sounding Overlay - Paper
✓3 Preliminary Excess Overlay - Paper

Pkg C: R-175-159-413

✓1 Accordian file - Smooth Position Sounding Printout/Tide Printout

FROM: *(Signature)* David W. Yeager
David W. Yeager, Chief, Nautical Chart Branch

Return receipted copy to:

NOAA, NOS, N/MOP21
7600 Sand Point Way NE
BIN C15700, Bldg. 3
Seattle, WA 98115-0070

RECEIVED THE ABOVE
(Name, Division, Date)
Dwayne S. Clark
March 7, 1985
N/CG243

NOAA FORM 61-29 SUPERSEDES FORM C&GS 413 WHICH MAY BE USED.

☆ U.S. G.P.O. 1981-564-008/1048

PACIFIC MARINE CENTER

EVALUATION REPORT

REGISTRY NO: FE-263 FIELD NO: RA-10-7-84

Alaska, Tongass Narrows, Vicinity of Ketchikan

SURVEYED: October 29, 1984

SCALE: 1:10,000 PROJECT NO: OPR-0168-RA-84

SOUNDINGS: Raytheon DSF 6000N CONTROL: Motorola Mini-Ranger III Range/Range

Chief of Party.....CDR J. P. Vandermeulen

Surveyed by.....ENS J. Griffin

Automated Plot by.....PMC Xynetics Plotter

Verified by.....T. O. Jones

Evaluated by.....C. R. Davies

I. INTRODUCTION

FE-263 is a field examination conducted by the NOAA Ship RAINIER in accordance with the following:

Project Instructions for OPR-0168-RA-84, dated August 9, 1984
Change No. 1, dated August 17, 1984

This side scan sonar investigation was conducted in Tongass Narrows offshore of Ketchikan, Alaska to locate a submerged wreck, that had been reported through Local Notice to Mariners 12 of 1983, dated March 22, 1983, at approximate latitude 55°20'15"N, longitude 131°38'14"W.

Predicted tides based on the Ketchikan, Alaska gage (945-0460) with time and range adjustments were utilized during shipboard processing. Tide correctors used for the reduction of the final soundings are computed from approved hourly heights from the primary tide gage in Ketchikan, Alaska.

Electronic correctors were revised during office processing to reflect the final baseline correctors for the appropriate mini-ranger unit and console used during hydrographic operations. The projection parameters were also revised to center the hydrography on the smooth sheet and to change the projection to polyconic.

II. CONTROL AND SHORELINE

Hydrographic control and positioning are adequately discussed in the hydrographer's Descriptive Report paragraphs F and G, and Horizontal and Electronic Control Reports for OPR-0168-RA-84.

The smooth sheet was plotted using published positions based on the North American Datum of 1927.

Shoreline is not shown on FE-263, in accordance with N/CG letter dated February 16, 1984, entitled "Reduction of Marine Center Hydrographic Survey Processing Backlog".

A comparison between charted shoreline and FE-263 hydrography was made, and no conflicts exist between the two.

III. HYDROGRAPHY

Crossline soundings are in excellent agreement. Hydrography acquired in conjunction with the side scan sonar investigation is of limited extent and is not adequate to determine the bottom configuration and least depths.

IV. CONDITION OF SURVEY

Hydrographic records and reports are adequate and conform to the requirements of the Hydrographic Manual with the exceptions found in the Preprocessing Report dated January 24, 1985 and the following:

> Coverage of 400 percent, by the side scan sonar was not accomplished for disproval of the wreck. (Project Instructions 7.12.2.2)

V. JUNCTIONS

FE-263 is not bordered by any contemporary surveys. Depths on this survey are in harmony with charted depths in the junction area.

VI. COMPARISON WITH PRIOR SURVEYS

FE-263 was not compared to any prior surveys.

VII. COMPARISON WITH CHART

Chart 17430, 8th Edition, February 19, 1983
Chart 17428, 5th Edition, February 25, 1983

a) Hydrography - Soundings from FE-263 compare within one fathom of the charted soundings.

Originating with LNM 12 of 1983 the wreck has been added to chart 17428 as a non-dangerous sunken wreck. It does not yet appear on chart 17430. The charted position of the wreck on chart 17428 is not qualified with a PA label even though the position is reported as approximate.

The side scan sonar investigation of the sunken wreck provided 200 percent coverage of the search area. The project instructions require 400 percent coverage for disproval, see paragraph 4.12.2.2. The existence of the wreck, therefore, has not been disproven.

Although the disproval of the submerged wreck at latitude 55°20'15"N, longitude 131°38'14"W was not accomplished, considering the depth of water, 12 to 16 fathoms and the size of the vessel, 20 feet in length, burned to the waterline, it is recommended that the wreck not be charted. See attached note to chart compiler. JW 1/C624/1

b) Controlling Depths - There are no controlling depths within the limits of FE-263.

c) Aids to Navigation - There is one fixed aid and no floating aids to navigation within the limits of FE-263. The one fixed aid, Standard Oil Pier West Light, was neither located or used for control during the field examination. This aid adequately serves its intended purpose.

The geographic name shown on the smooth sheet originates from this chart.

VIII. COMPLIANCE WITH INSTRUCTIONS

No specific Project Instructions exist for the field examination; however except as noted in the Preprocessing Report, dated January 24, 1985 and Section IV, Condition of Survey, FE-263 adequately complies with the Project Instruction for OPR-0168-RA-84.

IX. ADDITIONAL FIELD WORK

FE-263 is an inadequate field examination, as it did not accomplish the intended purpose. However, additional hydrographic field work is not recommended at this time.

Respectfully submitted,

Charles R. Davies

Charles R. Davies
Cartographer
February 6, 1985

This survey has been examined by me and it meets the Charting and Geodetic Services survey standards and requirements for use in nautical charting except as noted in the Evaluation Report. The survey is recommended for approval.

Dennis Hill

Dennis Hill
Chief, Hydrographic Section

ATTACHMENT TO DESCRIPTIVE REPORT FOR FE-263

I have reviewed the smooth sheet, accompanying data, and reports of this hydrographic survey. Except as noted in the Evaluation Report, the hydrographic survey meets or exceeds Charting and Geodetic Services (C&GS) standards, complies with instructions, and is accurately and completely represented by the smooth sheet and digital data file for use in nautical charting.

Dennis Hill 2-11-85

FOR Chief, Nautical Chart Branch (Date)

CLEARANCE: SIGNATURE AND DATE:

N/MOP2:LWMordock Lawrence W. Mordock 2/14/85

After review of the smooth sheet and accompanying reports, I hereby certify this survey is accurate, complete, and meets appropriate standards with only the exceptions as noted above. The above recommendations are forwarded with my concurrence.

Robert L. Sandgit 2-14-85

Director, Pacific Marine Center (Date)

11/15/85

NOTE TO CHART COMPILER:

A copy of section K of the Preprocessing Examination for this survey, prepared by Maureen R. Kenny on January 21, 1985, is included below to support the statement in the Evaluation Report that only 200% side scan sonar coverage was obtained.

K. Side Scan Sonar -

The tuning of the side scan sonar was excellent. A side scan sonar overlay showing the area covered by side scan operations should have been submitted (Project Instructions, section 7.12.3.1).

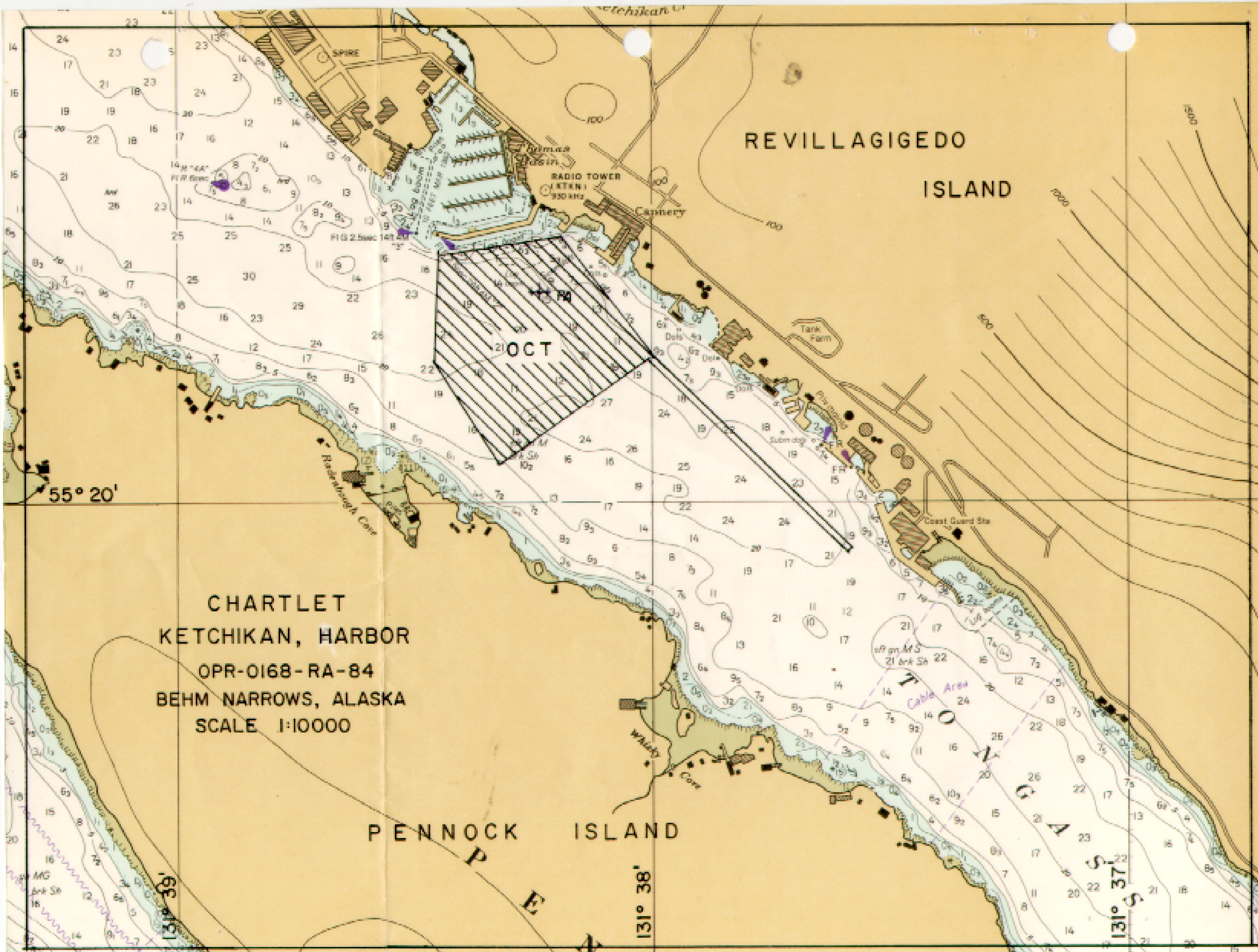
The Descriptive Report states that side scan was run at 400% coverage over the submerged wreck (PA). Review of the data shows east-west and north-south line spacing to be 100m with the 100-m range scale on the side scan being used. While optimum fish height above the bottom is 10 to 20% of the range scale (10 to 20m), actual towing heights ranged from 5 to 45m (fish height was most often 20-35m). Given the uneven bottom terrain and short lines these towing heights are understandable. However, when the fish is towed at a height of 30m with a maximum slant range of 100m (the range scale), the maximum bottom coverage on either side of the fish is 95m. When the fish is towed at 5-m height the effective scanning range is only 49m. (See Side Scan Sonar Draft Manual, Table 24. This value is computed using the main-beam configuration of the system). Therefore, north-south or east-west lines with 100-m spacing and 100-m range scale using the actual tow heights only represents 100% coverage. Total coverage for the field examination is only 200%. To obtain 400% coverage the lines should have been split or a reduced line spacing scheme run originally.

The Evaluation Report recommends that the wreck should not have been charted. However, it was reported in Notice to Mariners and is charted on chart 17428. The Hydrographic Surveys Branch considers the charted wreck not disproven by the present survey.

The dangerous wreck symbol presently charted on chart 17428, 5th Ed., Feb. 25, 1984, should be revised to a nondangerous wreck. A nondangerous wreck symbol should also be added to the next edition of chart 17430 at the reported position.

Dale E. Westbrook

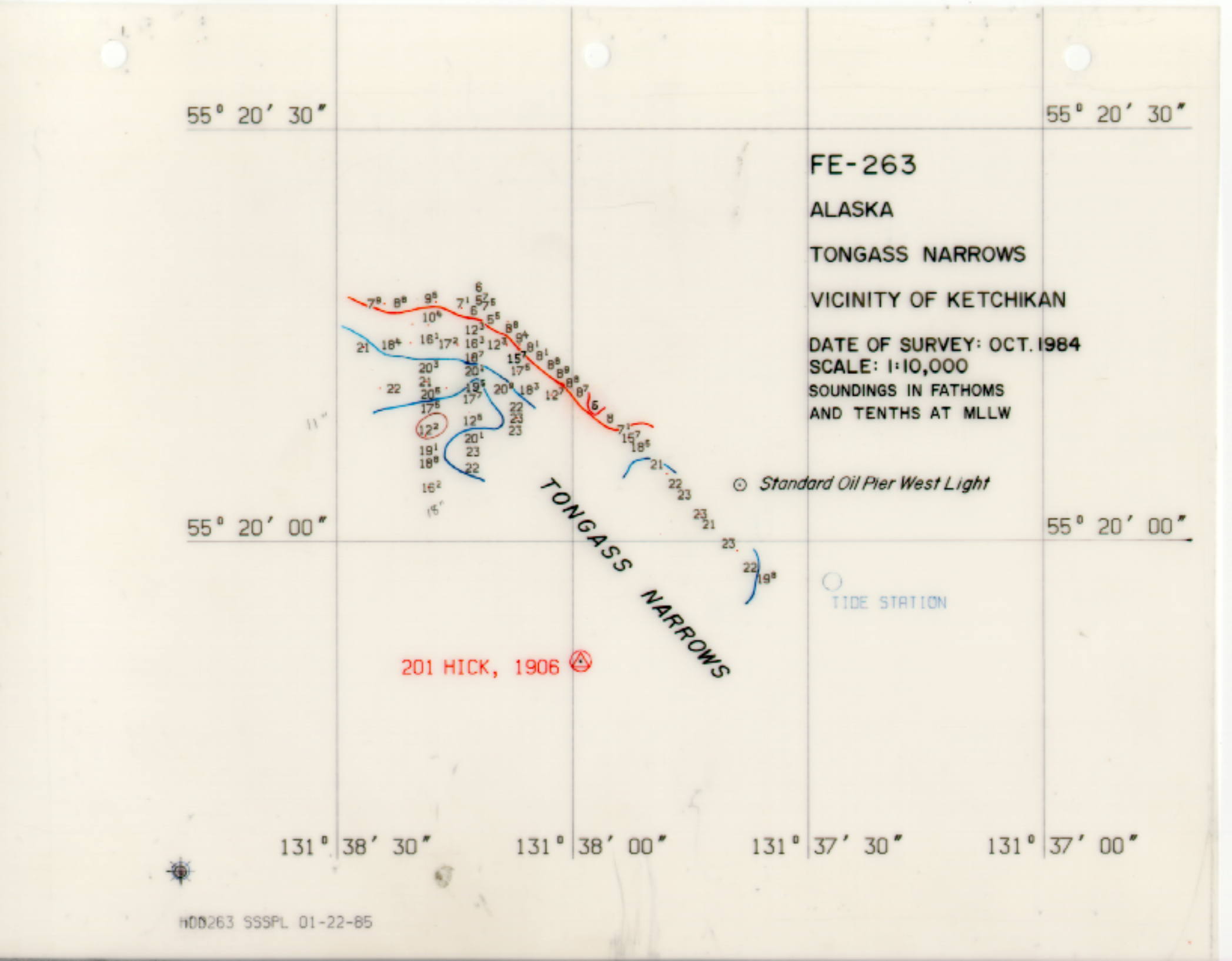
Dale E. Westbrook
N/CG24x1


REVILLAGIGEDO
ISLAND
RADIO TOWER
(KTKN)
930 kHz
Cannery
SPIRE
Tank Farm
Coast Guard Sta
OCT
CHARTLET
KETCHIKAN, HARBOR
OPR-0168-RA-84
BEHM NARROWS, ALASKA
SCALE 1:10000
PENNOCK ISLAND
TONGASS
PEN
Cable Area
Whisky Cove
55° 20'
131° 39'
131° 38'
131° 37'

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
CHARTING AND GEODETIC SERVICES — RADM JOHN D. BOSSLER, DIRECTOR

HYDROGRAPHIC FIELD EXAMINATION FE263
ALASKA, TONGASS NARROWS
VICINITY OF KETCHIKAN

FIELD SHEET: RA-10-7-84		PROJECT: OPR-0168	
DATUM: HOR. SNDG.	NORTH AMERICAN DATUM OF 1927 MEAN LOWER LOW WATER		
PROJECTION	POLYCONIC	CENTRAL LONGITUDE 131° 38′ 00″ W	
SCALE	1:10000	SOUNDINGS IN FATHOMS AND TENTHS	
SURVEYED BY	NOAA SHIP RAINIER CDR. J. P. VANDERMEULEN CMDG.		OCT 1984
PROCESSED BY	NAUTICAL CHART BRANCH, PACIFIC MARINE CENTER		
APPROVED BY	RADM R. L. SANDQUIST Robt L. Sandquist DIRECTOR, PACIFIC MARINE CENTER		2-14-85


55° 20′ 30″
55° 20′ 30″
FE-263
ALASKA
TONGASS NARROWS
VICINITY OF KETCHIKAN
DATE OF SURVEY: OCT. 1984
SCALE: 1:10,000
SOUNDINGS IN FATHOMS
AND TENTHS AT MLLW
Standard Oil Pier West Light
55° 20′ 00″
55° 20′ 00″
TONGASS NARROWS
TIDE STATION
201 HICK, 1906
131° 38′ 30″
131° 38′ 00″
131° 37′ 30″
131° 37′ 00″
H00263 SSSPL 01-22-85

DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Ocean Survey
Washington, D.C.

Hydrographic Index No. 110K

A 5324

NOAA FORM 75-96
(10-83)

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

MARINE CHART BRANCH

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. FE-263

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
17430	4/3/89	R. A. Lillis	(Full) ~~Part Before~~ (After) Marine Center Approval Signed Via
			Drawing No. 12
17428	1-26-95	Thom J. Frui	Full ~~Part Before~~ After ~~Marine Center Approval Signed Via~~
			Drawing No. 7 2/2/94 DC
17434	3-4-95	E. I. Bodoninac	Full ~~Part Before~~ After Marine Center Approval Signed Via
	3-4-95	D. Harpine	Drawing No. 19
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
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			Full Part Before After Marine Center Approval Signed Via
			Drawing No.
			Full Part Before After Marine Center Approval Signed Via
			Drawing No.

SUPERSEDES C&GS FORM 8352 WHICH MAY BE USED.