12225

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline

Job No. PH-6206 Map No. T-12225

Classification No. Edition No.
Field Edited

LOCALITY

State Alaska

General Locality Keku Strait

Locality Point Barrie

19 61 TO 1970

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-593

12225

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR

TO REGISTRATION



DESCRIPTIVE REPORT - DATA RECORD T-12225			
DJECT NO. (III):			· · · · · · · · · · · · · · · · · · ·
PH - 6206			
TELD OFFICE (II):		CHIEF OF PARTY	
None			
HOTOGRAMMETRIC OFFICE (III):		OF FICER-IN-CHARGE	
Atlantic Marine Center		Alfred C. Holmes,	Director, AM
ISTRUCTIONS DATED (II) (III):			<u> </u>
OFFICE SUPPLEMENT III De OFFICE " IV Ap	ecember 19, 19 oril 14, 1970		
ETHOD OF COMPILATION (III):			
Wild B-8 Stereo Plotter		OPIC PLOTTING INSTRUMENT 5	CALE (III)
IANUSCRIPT SCALE (III):			
1:10,000 1:20,000 Pantographed to 1:10,000 TE RECEIVED IN WASHINGTON OFFICE (IV): DATE REPORTED TO NAUTICAL CHART BRANCH (IV):			
DATE RECEIVED IN WASHINGTON OFFICE (IV):			
PPLIED TO CHART NO.	DATE:		STERED (IV):
N.A.		MEAN 'ALCH WATER	S FOLLOWS: to meen high water o ecunding datum
END, 1927			
AT.: 6 ^O 26 [†] 11.102 ^{††} (343.4M) Long: 133 ^O 39 [‡] 09.	501" (162.8M)	XXADJUSTED UNADJUSTED	
LANE COORDINATES (IV):		STATE	ZONE
(= X =		Alaska	1.
MAN NUMERALS INDICATE WHETHER THE ITEM IS TO E DR (IV) WASHINGTON OFFICE.			

DESCRIPTIVE REPORT - DATA RECORD

T-12225

FIELD INSPECTION BY (II): DATE: None MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation: Date of Photography: Aug. 5, 1970 PROJECTION AND GRIDS RULED BY (IV): DATE J. Dempsey - Coradomat April 10, 1970 PROJECTION AND GRIDS CHECKED BY (IV): E. Homick Coradomat April 10, 1970 CONTROL PLOTTED BY (III): Aerotriangulation - Coradomat - Dempsey April 10, 1970 Triangulation (CATH, 1915 Only) B. Wilson June 30, 1970 CONTROL CHECKED BY (III): DATE Aerotriangulation - E. Homick April 10, 1970 Triangulation - F.P. Margiotta June 30, 1970 RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE Robert E. Fisher Feb. 19, 1970 DATE June 24, 1970 PLANIMETRY L.O. Neterer STEREOSCOPIC INSTRUMENT COMPILATION (III): Reviewed: A.L. Shands & A.C. Rauck June 24, 1970 CONTOURS DATE Inapplicable MANUSCRIPT DELINEATED BY (III): DATE B. Wilson July 7, 1970 SCRIBING BY (III): F. Margiotta 5/15/72 PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE " R.J. Pate July 13, 1970 REMARKS:

DESCRIPTIVE REPORT - DATA RECORD T-12225

ERA (KIND OR SOURCE) (III):

Wild RC-8 "E"

	, PH	OTOGRAPHS (III)		
NUMBER	DATE .,	TIME	SCALE	STAGE OF TIDE
69 -E-(c)-954 thru 956	Aug. 5, 69	12:02	1:40,000	4.5 ft. above MLLW
61-W-9526 thru 9528	July 16, 61	10:25	1:20,000	0.2 ft. below MLLW
61-W-9530 thru 9536	17	10:33	n	At MLLW
· ·				
		T WAR (111)		D

Prédicted TIDE (III)				Diur
		RATIO OF RANGES	MEAN RANGE	RÄNGE
REFERENCE STATION: Ketchikan, Alaska			13.0	15.4
SUBORDINATE STATION: Monte Carlo Island			10.3	12.5
SUBORDINATE STATION:			· · · · · · · · · · · · · · · · · · ·	``
Atlantic Marine Center **Atlantic Marine Center **Atlantic Marine Center **C.H. Bishop	<u> </u>	DATE: May 19	973	<u> </u>
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2	RECOVERED:	IDENTIFIE 2	D:	
NUMBER OF BM(S) SEARCHED FOR ((1)):	RECOVERED: None	None	D	i.
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None	 		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	None			
REMARKS:			· · · · · · · · · · · · · · · · · · ·	

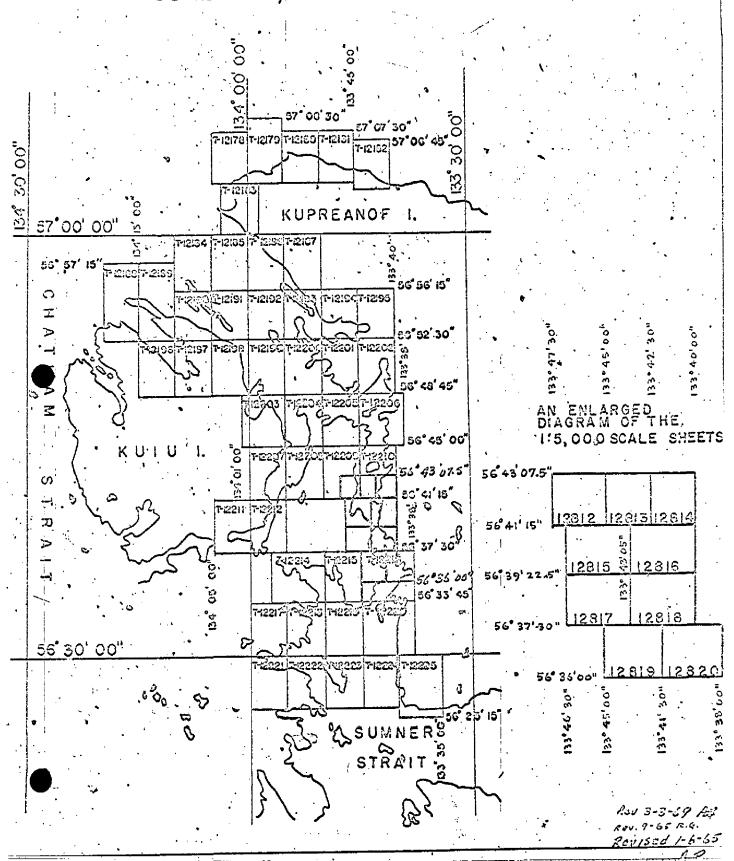
USCOMM-DC 86393C-P66

T-12225

COMPILATION RECORD		REMARKS
Compilation Complete Pending Field Edit	J uly 7, 1970	Superseded
Field Edit Applied	July 1971	Superseded
Final Review	May 1973	

a Symile of

Ph-6206 KEKU STRAITS, ALASKA SCALE 1:10,000



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12225

This 1:10,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12225 in the project.

There was noffield work before compilation, except the identification of horizontal control for aerotriangulation. Compilation was by Wild B-8 methods with control based on a stereoplanigraph bridge using color photographs taken in August, 1969. Panchromatic photographs taken in July 1961 at low water were used to compile graphically the mean lower low water line, rocks, and reefs. Stable transparent copies of the map manuscript, ozalids, and specially prepared photographs were furnished for transfer of shoreline to the boat sheet, location of photo-hydro signals, and field edit.

Field edit was done in 1970. After application of field edit data to the map, it was as scribed and reproduced on cronaflex.

Final review was done at the Atlantic Marine Center in May, 1973.

The compilation manuscript was a vinylite sheet 4 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

FIELD INSPECTION REPORT

JOB PH-6206

T-12225

There was no field inspection prior to compilation.

Aerotriangulation Report PH-6206 Keku Strait, Alaska

February 19, 1970

21. Area Covered

This project covers areas in the vicinity of Keku Strait - Kuiu Island, Alaska. T-sheets covered are as follows:

T-12203 thru T-12225 all T-sheets are at 1:10,000 scale

22. Method

Five strips were bridged to provide horizontal positions of pass points needed for compilation. Strip #12 was bridged in two parts, 12a and 12b, because of open water. Strip #14 was not bridged due to satisfactory pass point coverage from Strips 13, 15 and 16.

Strip #11 was bridged on the C-5. Strips 12a, 12b, 13, 15 and 16 were bridged on the C-8. All were adjusted by electronic computer.

Strip #11 used seven control points and a tie point in a third degree adjustment.

Strip #12a used a first degree adjustment with two control points. One tie point was available for a check.

Strip #12b' used a third degree adjustment with five control points.

Strip #13 used three control points in a second degree adjustment.

Strips 15 and 16 used four control points in third degree adjustments.

All pass points, except one in Strip #16, were drilled.

Corresponding tie point values were averaged.

This project was tied through common control stations with the 1966 project in this area.

23. Adequacy of Control

Horizontal control was adequate in all strips. However station "SPIT 1927" and its subpoint appearing in both Strip #11 of this project and in Strip #1 of the adjacent "Sumner Strait" project had residual errors on the order of 15 feet in X. These errors were similar in direction and magnitude for both points and in both strips. The reason for not obtaining a better check with these points is not known.

Many control stations in this project were recovered in 1965 and pricked on 1964, 1:20,000 scale photography. The 1970 bridge was run with new 1:40,000 scale photography, therefore, much of the old control was not visible in these bridges. All 1969 identified control used in this project was targeted.

The RMS errors in fit to control for the 1969 identified control, (except "SPIT 1927") and including the 1965 identified control "ALL 1927" and "CEN 1927" were 2.5 feet in X and 1.2 feet in Y. The maximum errors were 6.8 feet in X and 3.3 feet in Y.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

25. Photography

Photography was satisfactory with regards to coverage, overlap and definition.

Submitted by,

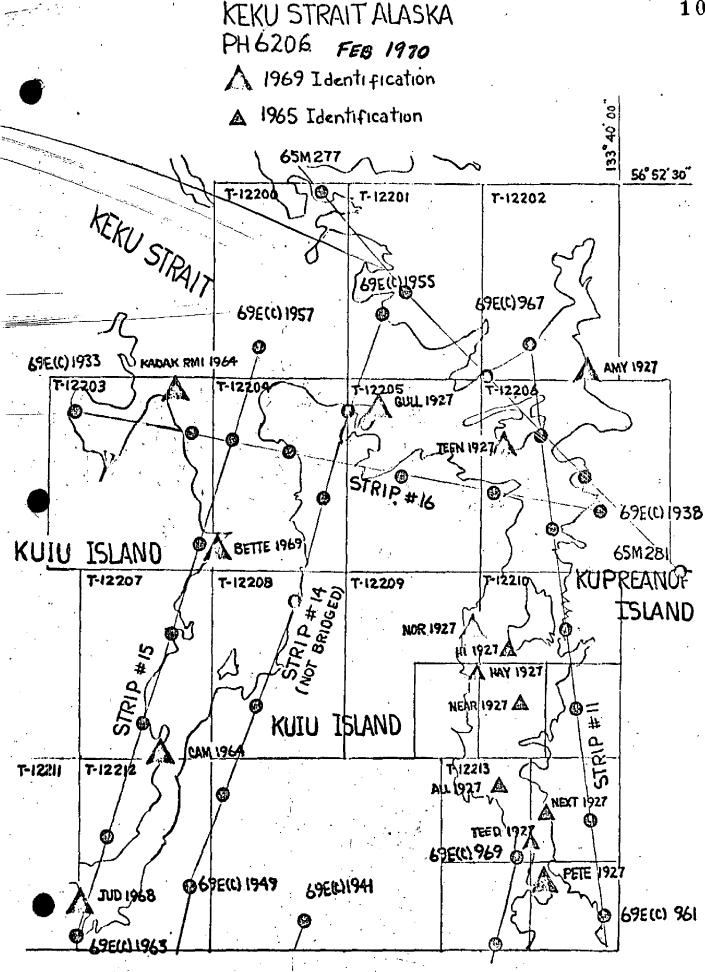
Robert E. Fisher Cartographer (Photo)

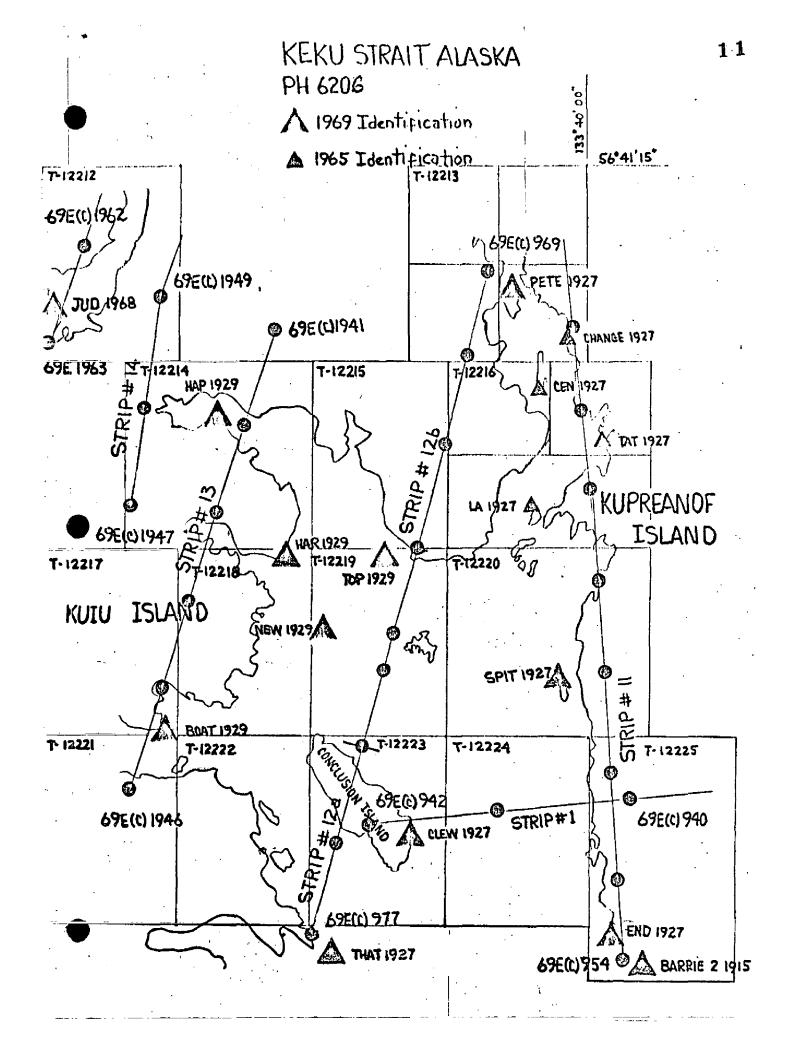
Approved and forwarded,

Henry P./Eichert

Chief, Aerotriangulation

Section





U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

FORM C&GS-164 (4-68) USCOMM-DC 50318-P68;

DESCRIPTIVE REPORT CONTROL RECORD

MAP T. 12225 PROJECT NO.	T NO. PH-6206	SCA	SCALE OF MAP 1:10,000 SCALE	SCALE FACTOR None	1
STATION	SOURCE OF INFORMATION (INDEX)	DATUM		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)	ON LINE
	Vol. 2 Pg. 368	N.A.	560 261 11,102"	(1512	
END, 1927		132/	133 ⁰ 39' 09,501"	162.8	
	Vol. 1 pg. 203	;	251	1102.4 (753.5)	
BARRIE, 2, 1915		F	133 ⁰ 38¹ 01.268"	21.7 (1006.7)	7)
	Vol. 1 Pg. 212	£	\sim 1 $^{\circ}$	322,5 (1533,3)	3)
CATH, 1915			133 ^o 35' 45,360"	777.3 (250.8)	
COMPUTED BY	DATE	}	£		
B. Wilson		0,		July 2, 1970	12

COMPILATION REPORT

T=12225

31. DELINEATION

The Wild B-8 plotter was used.

There was no field inspection prior to compilation.

The "61W" photos (centers not located) were excellent for foreshore detail, but the ratios were of very poor scale. The tremendous enlargement of the color "E" photos produced very poor definition on the ratio prints.

32. CONTROL

See the Aerotriangulation Report dated Feb. 19, 1970.

The two identified stations were very difficult to see in the B-8, although paneled. Here again, the contact scale being so small and the enlargement so great resulted in increased difficulty.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from office interpretation of the photos.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line was delineated from office interpretation of the photos.

The approximate mean lower low water line, ledges and rocks were taken from the "61W" photos. The foul line was applied considering also the higher tide "E" photos which seemed to have greater penetration of the water despite the loss of definition in the ratios.

36. OFFSHORE DETAILS

One rock awash, very clear on the "61W's" is covered and too nondistinct on the "E's" to locate with sufficient accuracy. It was referred to the citor.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-122200to the north and T-12224 to the west. There are no contemporary surveys to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41 through 45. Not used.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle PETERSBURG (B-5), ALASKA, scale 1:63,360, dated 1949, with minor revisions 1963. Extensive ledges along the southern part of the manuscript do not appear on the quadrangle.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 8201, scale 1:217,828, 15th Edition, Nov. 15, 1969 (Corrected thru Notice to Mariners 46/69).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted,

Charles H. Bishop

for B. Wilson Cartographic Technician July 8, 1970

Approved for forwarding:

Melvin J. Umback, CDR, NOAA Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes

RADM, NOAA

Director, Atlantic Marine Center

August 28, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206

T-12225

Barrie Island

Keku Strait

Kupreanof Island

Kushricakin Creek

Point Barrie

Summer Strait

Approved by:

A. Joseph Wrazght Chief Geographer

Prepared by:

F.W. Pickett (byaj. W)

Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

None other than those on the Field Edit Ozalid.

PHOTOGRAMMETRIC OFFICE REVIEW T- 12225 1. PROJECTION AND GRIDS RJP	MERCE				
1. PROJECTION AND GRIDS RJP	PHOTOGRAMMETRIC OFFICE REVIEW				
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FEATURES					
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BOUNDARIES					
31. BOUNDARY LINES XX XX XX					
MISCELLANEOUS 33. GEOGRAPHIC NAMES 34. JUNCTIONS 35. LEGIBILITY OF THE	E				
RJP RJP					
1					
36. DISCREPANCY OVERLAY 37. DESCRIPTIVE REPORT 38. FIELD INSPECTION 39. FORMS PHOTOGRAPHS					
RJP RJP XX XX					
40. REVIEWER SUPERVISOR, REVIEW SECTION OR UNIT					
R.J. Pate July 13, 1970 A.C. Rauck, Jr.					
41. REMARKS (See attached sheet)					
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT					
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The man script is now complete except as noted under item 43.	anu-				
COMPILER					
B. Wilson July 22, 1971 A.C. Rauck, Jr.					
43. REMARKS					
Field Edit Applied From: Work of Oct. 1970 on 1 ozalid and Photo 69-E-955.					

FIELD EDIT REPORT Keku Strait Southeast Alaska OPR-448

June - October 1970

INTRODUCTION

Field edit reports are attached for the following maps:

T-12205 T-12206	(TP-00205) (TP-00206)	
T-12209	(TP-00209)	~ ₽}
T-12210	•	
T-12216		
T-12220		
T-12224		
T-12225	•	

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets:

> DA-10-4-70 DA-10-5-70 DA-10-6-70 DA-10-7-70

and then transferred to the T-sheets and ozalids for comparison.

Notes have been made in red on the field photographs and have been cross referenced on the Field Edit Ozalids by photograph number. All times are based on 105° West meridian. Individual reports by manuscripts are attached.

TIDE NOTES

The following tide stations were used for hydrography in the Keku Strait area:

Pup Island High Island Eagle Island Monte Carlo Island

Manuscripts T-12201 and T-12202 were inspected. Since no field edit was requested by the compilers the inspection was to check the manuscript in general. The manuscripts agreed quite well with the field inspection.

FIELD EDIT REPORT MAP T-12225 Southeast Alaska Keku Strait - Point Barrie

The investigation was done by LCdr. F.T. Smith. Field work was performed from a small boat.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. All verification was done by visual observations. The specific items in question were visited for verification. Field work was performed the first week of October 1970. The 69 E photos were difficult to use due to rainy weather and rough seas. Hydrography on the northwest portion was performed in 1970. MHW line is difficult to delineate due to lack of ground control and the poor resolution on the 69 E photographs. Hydrography was performed on the southern part in 1965 and the Patton sheet PA 10-1-65 was used to obtain least depths on some offshore rocks and reefs.

Notes have been made on the field edit ozalid given the desired information. The DAVIDSON will be working in this area in 1971 if additional information is desired.

ADEQUACY OF COMPILATION

The compilation of the map appears to be adequate.

RECOMMENDATIONS

It is recommended that the manuscript be revised in accordance with the notes on the ozalid and photographs and that the map be accepted as an advance manuscript.

Respectfully submitted,

F.T.Smith

.....

LCdr. NOAA

APPROVAL SHEET FOR FIELD EDIT

The field edit of the following manuscripts was accomplished under my supervision:

T-12205	TP-00205
T-12206	TP-00206
T-12209	TP-00207
T-12210	
T-12216	
T-12220	. ,
T-12224	••
T-12225	

Inspection of the work was made.

Ray E. Moses CDR. NOAA

Commanding Officer NOAA Ship DAVIDSON

REVIEW REPORT T-12225

SHORELINE

May 2, 1973

61. GENERAL STATEMENT

See Summary, which is page 6 of this descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey No. 4330, scale 1:20,000, dated Sept. 1 - Oct. 15, 1927. Differences between this survey and T-12225 were shown in blue on the comparison print.

T-12225 supersedes all previous surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Quadrangle PETERSBURG (B-5), ALASKA, scale 1:63,360, dated 1953. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Survey H-8861 (PA-10-1-65), scale 1:10,000, dated 1965, and with Survey H-9160, (DA-10-6-70) scale 1:10,000, dated 1970. Significant differences between these surveys and T-12225 were shown in purple on the comparison print.

The base map for shoreline on the hydrographic surveys apparently was a copy of the Preliminary Manuscript compiled around 1965, and it was assumed by the final reviewer that most of the ledges and reefs also came from the same source. A copy of the Preliminary Manuscript was not available at the time of final review.

In much of the area around Point Barrie, no soundings were taken to prove or disprove ledges and reefs and many were unverified by the field editor. Field edit in the area was done at a 6 foot or higher stage of tide above mean lower low water. Each reef, rock, and ledge was reviewed. Some of these unverified features were removed from the manuscript on the assumption that they were kelpothers were retained - according to their appearance on the photographs and the judgment of the final reviewer.

Photographs used mainly were 1:10,000 ratio prints of the 1961 panchromatic photographs taken at mean lower low water, predicted at Monte Carlo Island. Contact color photographs taken in 1970 at a 6 foot predicted tide were also helpful; they had good penetration.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, scale 1:217,828, 16th edition, dated November 7, 1970. The scale was too small for an adequate comparison. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with job instructions and meets the requirements of the National Standards for Map Accuracy.

Reviewed by:

Charles H.Bishop

Charles H. Bishop Cartographer

Approved for forwarding:

Melvin J. Umback, CDR, NOAA

Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes

RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

