12224

NOAA FORM 76-35

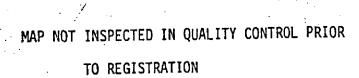
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of SurveySHORELINE Job No. PH-6206 Classification No. FIELD EDITED	
LOCALIT	-γ
State ALASKA General Locality KEKU S TROUBI	STRAIT JE ISLAND
19 61 TO Alfred C. Holmes, Direct	
REGISTRY IN A	

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

12224





	DESCRIPTIVE REPO	ORT - DATA - 12224					
DJECT NO. (III):							
PH-6206							
FIELD OFFICE (II):			CHIEF OF PARTY	•	-		
NONE	•						
PHOTOGRAMMETRIC OFFICE (III):			OF FICER-IN-CHAI	RGE			
ATLANTIC MARINE CENT	ER, Norfolk, VA		Alfred C.	Holmes, 1	Director		
Office Supplement II	I, December 19,	1967					
Office Supplement I	V, April 14, 1970	ס					
					•		
METHOD OF COMPILATION (III):							
Wild B-8 Stereoplott	er and graphic		DIG DI GTTING ING	TRUMENT SCA	E hove		
MANUSCRIPT SCALE (III):		STEREOSCO	PIC PLOTTING INS	STRUMENT SCA	LE (1117:		
1:10,000		1:20,000	O Pantograph	ned to 1:	10,000		
TE RECEIVED IN WASHINGTON OFF	CE (IV):	DATE REPO	ORTED TO NAUTICA	AL CHART BRAI	NCH (IV):		
APPLIED TO CHART NO.		DATE:		DATE REGIST	ERED (IV):		
				Sest.	4. 1925		
GEOGRAPHIC DATUM (III):			VERTHAL PATHMUN:				
NA 1927			Elevations shown	L EXCEPT AS P as (25) refer to s	· · · · · · · · · · · · · · · · · · ·		
			Elevations shown	as (5) refer to so	ounding datum		
			i.e., ana 3∞=∞:	≽⊈≏ mean lower	low water		
REFERENCE STATION (;;;):	·						
TROUBLE, 1927							
LAT.:	LONG.:		X ADJUSTED				
56 ⁰ 2 7 [†] 50,426"(1559.7M)	133041'03.454"(5	59.1M)	UNADJUSTED				
PLANE COORDINATES (IV):	<u>.</u>		STATE	1	ZONE		
Y=1,691,396.39 ft.	c=2,682,0 7 9.62 ft	•	Alaska	1			
MAN NUMERALS INDICATE WHETHER OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNE							

DESCRIPTIVE REPORT - DATA RECORD

, DESCR	T-12224	
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	, 1969	
PROJECTION AND GRIDS RULED BY (IV):		DATE
J. Dempsey		April 10, 1970
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
E. Homick		April 10, 1970
CONTROL PLOTTED BY (III):		DATE
Coradomat		June 4, 1970
CONTROL CHECKED BY (III):		DATE
Coradomat		June 4, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
Robert E. Fisher		Feb. 19, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L.O. Neterer, Jr. Reviewed By: A. Shands	June 24, 1970 June 24, 1970
	CONTOURS	DATE
j	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
B. Wilson		July 16, 1970
SCRIBING BY (III):		[
F. Margiotta		May 8, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	·	DATE
L.L. Graves		July 24, 1970
REMARKS:		,

DESCRIPTIVE REPORT - DATA RECORD

T-12224

ERA (KIND OR SOURCE) (III):

Wild RC-8 "E" & W

	NUMBER	ST	AGE OF TH	DE .			
	61W-9523 thru 9525	July 16, 61	10:25	1:20,000	0.2 ft	. below	MLLW
	61 W- 9532 thru 9536	July 16, 61	10:32	1:20,000	0.0 ft	at MI	'TM
*	69 E(c)- 954 thru 956	Aug. 5, 69	12:02	1:40,000	4.5 ft	. above	MLLW
	•						
	·						į
	=						
		Pred	icted Tide (III)		· · · · · · · · · · · · · · · · · · ·	iurnal	
					RATIO OF RANGES	MEAN RANGE	RANGE
	REFERENCE STATION: Ketch	ikan, Alaska				13.0	15.4
	SUBORDINATE STATION: Monte	Carlo Island				10.3	12.5
	SUBORDINATE STATION:					•	,
	Atlantic Marine Cente		DATE: April	1973	· · 		
	PROOF EDIT BY (IV):		DATE:				
	NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR	1	RECOVERED:	IDENTIFIE None	_	
	NUMBER OF BM(\$) SEARCHED FOR	a (n) :	None	RECOVERED: None	IDENTIFIE None		

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

*These centers are on T-12225

Q.

T-12224

1-12224									
COMPILATION RECORD	COMPLETION DATE	REMARKS							
Compilation Complete Pending Field Edit	July 16, 1970	Superseded							
Field Edit Applied	July 1971	Superseded							
Final Review	April 1973	·							

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12224

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-12224 in the project.

There was no field work prior to compilation.

Compilation was by Wild B-8 plotter, using color photography taken in August, 1969. Low-water photographs taken in 1961 were used to compile graphically rocks, reefs, and kelp limits. Control was based on a stereoplanigraph bridge. 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 October, 1970 by the Ship DAVIDSON, After application of field edit data to the map, it was scribed and reproduced on cronaflex.

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

The compilation manuscript was a vinylite sheet 3 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

PH-6206

T-12224

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:

at a market of

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,

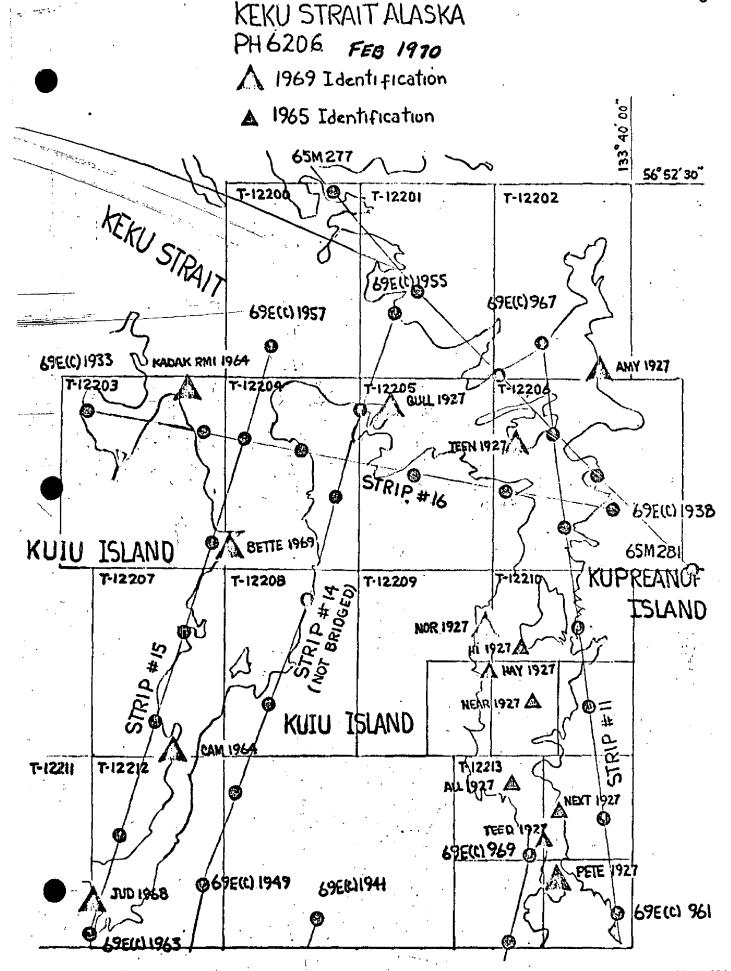
Robert E. Fisher (Cartographer (Photo)

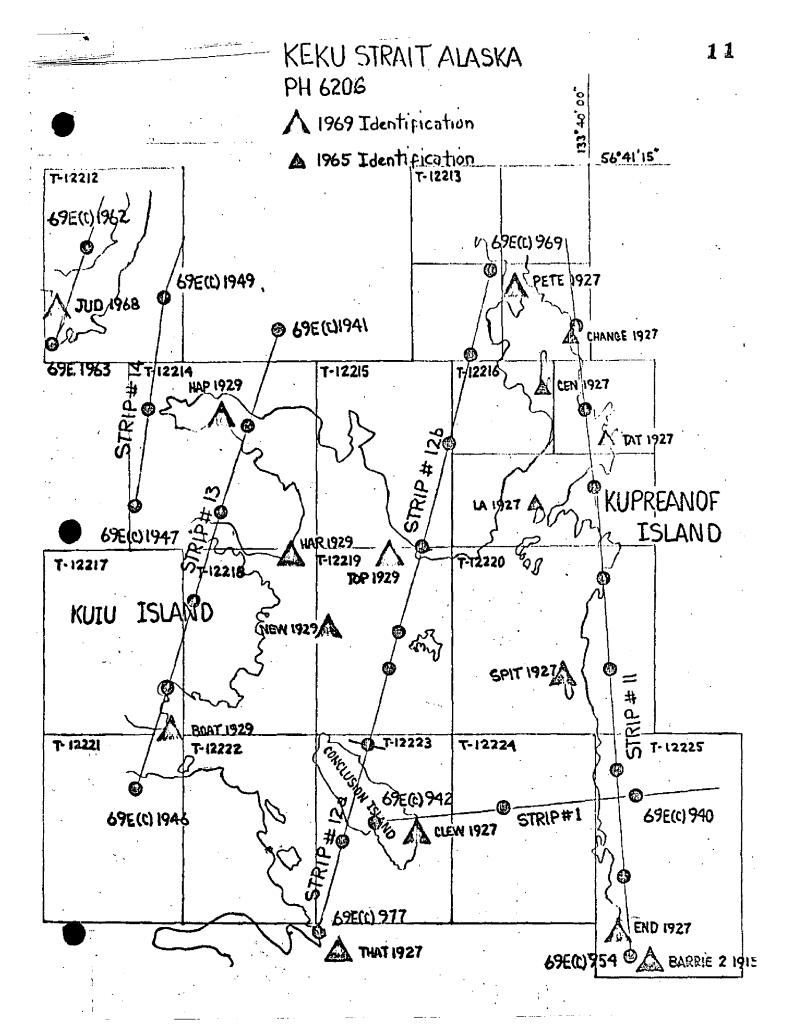
Approved and forwarded,

Henry P. Eichert

Chief, Aerotriangulation

Section





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

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

DESCRIPTIVE REPORT CONTROL RECORD

	TUM ROJECTION LINE 006 meter) (BACK)	(296.1)	(968; 33)		į			,								i 2
SCALE FACTOR None	N.A. 1927 - DATUM DISTANCE FROM GRED OR PROJECTION LINE IN METERS (I Ft. = 3048006 metor) FORWARD (BACK)		59.1									* * * * * * * * * * * * * * * * * * *			DATE	6/27/70
SCALE OF MAP 1:10,000 SCALE	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	56 ⁰ 27¹ 50,426"	133 ⁰ 41' 03,454"					5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5								C.H. Bishop
SCAL	DATUM									_			1			1970
PROJECT NO. PH-6206	SOURCE OF INFORMATION (INDEX)	Vol. 2, pg.	363								· · · · · · · · · · · · · · · · · · ·					June 27,
MAP T- 12224 PROJE	STATION		TROUBLE 1927												COMPUTED BY	b. Wilson

COMPILATION REPORT

T-12224

31. DELINEATION

The Wild B-8 plotter was used, supplemented with graphic compilation of foreshore detail from photos at mean lower low water.

There was no field inspection prior to compilation.

Loss of definition and defects, causing confusion with photographic detail resulted from the many times enlargement from the 1:40,000 scale negatives.

There was no photo coverage west of 133°43'30".

32. CONTROL

See Aerotriangulation Report, dated Feb. 19, 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

There is no drainage within the limits of this manuscript.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line was delineated from office interpretation of photographs taken in 1969. The foreshore details, mean lower low water line, and rocks awash were compiled graphically from 1961 photography taken at low water. There was more penetration of the water on the 1969 photos, the higher tide and "fuzziness", not withstanding, than on the 1961 photos, so both were considered in delineation of the foul limits.

36. OFFSHORE DETAILS

The foul area south of the neat line was not covered by the 1961 photos.

Numerous rocks, small islands foul, reef and ledge areas were delineated as under item 35.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-12223 to the west, T-12220 to the north, and T-12225 to the east. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. COMPARISON WITH PREVIOUS BUREAU SURVEYS

A comparison was made with previous bureau survey Reg. No. 4330, South End of Keku Strait, Date Sept 1 - Oct 15, 1927, scale 1:20,000.

42 through 45. Are inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle PETERSBURG (B-6), ALASKA, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was 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 CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Charles HBukop

For B. Wilson Cartographic Technician July 16, 1970

Approved for forwarding:

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

Approved:

RADM, NOAA

Director, Atlantic Marine Center

August 28, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206

T-12224

Keku Strait Kupreanof Island Meadow Island

Trouble Island

Approved by:

A. Joseph Wraight Chief Geographer Prepared by:

Frank W. Pickett

Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

None

.

1	FORM C&GS-1002			Ü.	S. DEPARTMENT OF COMMERCE					
PHOTOGRAMMETRIC OFFICE REVIEW										
				12224	:					
	1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE					
	LLG	LLG		LLG	LLG					
1	CONTROL STATIONS	£								
1	5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER AS	TIONS OF CCURACY	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS					
١	LLG		(Topographic	XX	XX					
·	8, BENCH MARKS	9. PLOTTING	FSEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS					
	XX	FIXES XX		RSC	LLG					
ł	ALONGSHORE AREAS (Nautical	Chart Data)	· · · · · · · · · · · · · · · · · · ·	<u> </u>						
	12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES					
	LLG	LLG		LLG	l xx					
1	16. AIDS TO NAVIGATION	17. LANDMARK	<u> </u>	18. OTHER ALONGSHORE						
1	TO MOS TO MATTERIA		-	PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES					
	XX	ХХ		LLG	XX					
ŀ	PHYSICAL FEATURES 20. WATER FEATURES		21. NATURAL C	ROUND COVER	22. PLANETABLE CONTOURS					
١			ZII II AI GNAG		22. FERRETABLE CONTOURS					
	XX			XX	XX					
	23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES					
	ХХ	XX		XX	LAT/G					
	CULTURAL FEATURES 27. ROADS	28. BUILDINGS		29. RAILROADS	I 26 OTHER OIL TURN					
	XX	XX		XX	30. OTHER CULTURAL FEATURES XX					
	XX	λλ.		^^	^^					
	BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES						
	XX			XX						
ŀ	MISCELLANEOUS		 							
İ	33. GEOGRAPHIC NAMES		34. JUNCTIONS	; · · · · · · · · · · · · · · · · · · ·	35. LEGIBILITY OF THE					
	LLG			LLG	LLG					
Ì	36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS					
	IIC	77.0			TIC					
	LLG 40. REVIEWER	LLG		XX SUPERVISOR, REVIEW SECTION	LLG NOR UNIT					
	L.L. Graves			Albert C. Rauck,	Jr.					
-	41. REMARKS (See attached sheet	<i>t</i>)	···········	1	· · · · · · · · · · · · · · · · · · ·					
١	FIELD COMPLETION ADDITION		IONS TO THE M	ANUSCRIP T						
	42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.									
	COMPILER			SUPERVISOR	· · · · · · · · · · · · · · · · · · ·					
	Field Edit: B. Wils	son July	22, 1971	Albert C. Rauck,	Jr.					
ŀ	43. REMARKS	. <u> </u>		, , , , , , , , , , , , , , , , , , , ,						
	Field Edit Applied	From: Fi	eld Ædit	Ozalid and Photo 6	9 -E-(c) - 955					
	- -									
1										

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 T-12209 T-12210	(TP-00205) (TP-00206) (TP-00209)	· •
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-12224 Southeast Alaska Keku Strait - Point Barrie

The field edit was performed by LCdr. F.T. Smith from a small boat.

METHOD

The field edit ozalids and field photographs 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 in October 1970. The 69 E photographs were difficult to use in the field because of the large size and poor resolution. Reference was made to PA-10-65 for the location of some offshore reefs, rocks and foul areas. Notes were made on the ozalid concerning the field edit information and cross referenced to the photograph 69 E 955.

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

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

~
TP-00205
TP-00206
TP-00207
•
* .

Inspection of the work was made.

Ray E. Moses CDR. NOAA

Commanding Officer NOAA Ship DAVIDSON

REVIEW REPORT T-12224

SHORELINE

April 27, 1973

61. GENERAL STATEMENT

See Summary which is page 6 of this Descriptive Report.

It was very difficult to identify rocks and small reefs in several large kelp areas on this map because of floating debris lodged in the kelp. The fact that numerous rocks awash and small reefs were not verified by the field editor or shown on the hydrographic surveys, and a study of all the photographs covering the map area, led to the decision that the images on the photographs which were previously mapped as rocks or reefs were actually kelp. Therefore, these features were removed from Map T-12224.

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-12224 were shown in blue on the comparison print.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Quadrangle PETERS-BURG (B-6), ALASKA, scale 1:63,360, dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

North of Lat. 56°27'15" a comparison was made with a copy of the boat sheet for H-9160 (DA-10-6-70), scale 1:10,000, dated 1970, and south of Lat. 56°27'15", with a verified copy of the smooth sheet for H-8861 (PA-10-1-65), scale 1:10,000, dated 1965. Several rocks and small reefs in kelp areas not mapped on the hydrographic surveys were removed from T-12224. See Item 61. Differences between the hydrographic surveys and T-12224 were shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, scale 1:217,828, 16th edition, dated 7 November 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. Brshop

Charles H. Bishop Cartographer

Approved for forwarding:

Melvin J. Umbach, 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

675.000 FT. 43	3'00"	42'30"	/33° 42'00" x=2,680,000 FT.	41′30″
		So the state of th	COMPARISON PRINT Purple = H-9160 Blue = T-4330	
0	Kelp /			
+				
				v
*			T-1222 4	

