12168

Diag. Cht. No. 904.

FORM C&GS-504

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

DESCRIPTIVE REPORT
Type of Survey Shoreline (Photogrammetric
Field No. Ph-5909 Office No. T-12168
LOCALITY
State Puerto Rico
General locality Isla De Vieques
Locality Ensenada Honda
19 <u>59</u> <u>-</u> 66
CHIEF OF PARTY
J. Bull, Director, Atlantic Marine

LIBRARY & ARCHIVES

April 1968

USCOMM-DC 37022-P66

89707

FORM	C&GS-	18 la

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

DESCRIPTIVE REPORT - DATA RECORD

PROJECT NO. (II):			
PH-5909		. <u></u>	
FIELD OFFICE (II):		CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	
Atlantic Marine Center		J. Bull, Dire	ector
INSTRUCTIONS DATED (II) (III):			
November 12, 1965			
1000201		·	
METHOD OF COMPILATION (III):	·		
Wild B-8			
MANUSCRIPT SCALE (III):	į.	OPIC PLOTTING INSTRU	
1:20,000	1	0 pantagraphed	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REP	ORTED TO NAUTICAL CH	IAKI BKANCH NV/:
,		 	TE REGISTERED (IV):
APPLIED TO CHART NO.	DATE:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	IE REGISTERED (IV):
		VERTICAL DATUM (III	1.
GEOGRAPHIC DATUM (III):		MEXIX X X X X X X X X X X X X X X X X X X	CEPT AS FOLLOWS: MHW
Puerto Rico		Elevations shown as (2	5) refer to mean high water
106110 1100		i.e., mean low water or	refer to sounding datum mean lower low water
The station (III)			
REFERENCE STATION (III):			
EAST END, 1900 LONG.:		T	
18° 08' 11.263(346.3m) 65° 16' 21.014	4 (617.7m)'	X ADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
x = 111,345.15 /7. x = 903,027.74 f	t.	Puerto Rico	Zone 1
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE EN	NTERED BY (II)	FIELD PARTY, (III) PHO	TOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIV			

.... · ::*

U\$COMM-DC 16276B-P61

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY FORM C&GS-1816 **DESCRIPTIVE REPORT - DATA RECORD** T-12168 DATE: FIELD INSPECTION BY (II): None MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography April 20, 1959 and February 21, 1964 PROJECTION AND GRIDS RULED BY (IV): November 1965 A. E. Roundtree PROJECTION AND GRIDS CHECKED BY (IV): November 1965 R. S. Kornspan DATE CONTROL PLOTTED BY (III): January 1966 B. H. Barnes DATE CONTROL CHECKED BY (III): January 1966 A. C. Rauck DATE RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): No Date Robert B. Kelly (WSC) DATE STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY January 1966 L. O. Neterer DATE CONTOURS Inapplicable DATE MANUSCRIPT DELINEATED BY (III): January 1966 LT. D. L. Des Jardins DATE SCRIBING BY (III): DATE PHOTOGRAMMETRIC OFFICE REVIEW BY (III): January 1966 L. L. Graves REMARKS: April 1966 Field Edit: D. R. Rich, LTjg, USESSA

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

DESCRIPTIVE REPORT - DATA RECORD

T-12168

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CAMERA (KIND OR SOURCE) (III):

"S" and "W" Cameras

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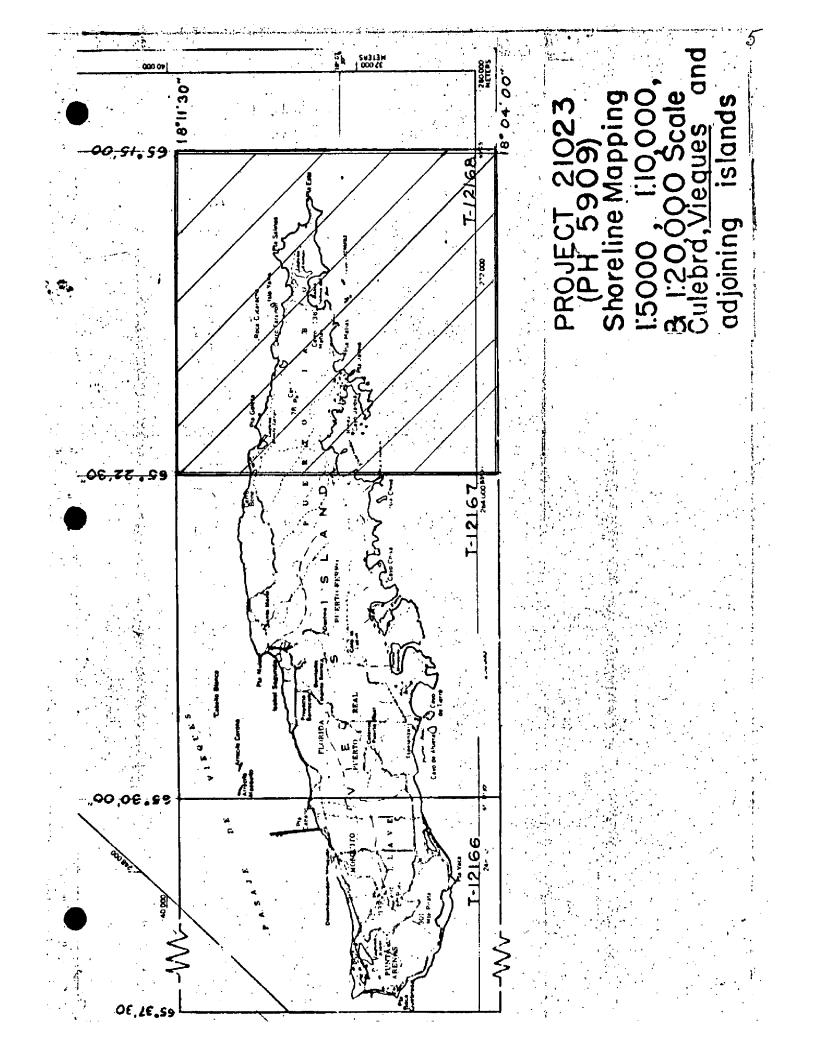
	7700700		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Galveston, Texas San Jua	n, Puerto Rico			
BORDINATE STATION:	Bahia de Mulas, Isla de V	ieques	.73	.8	1.0
SUBORDINATE STATION:	<u>Puerto Ferro, Isla De Vie</u>	eques	.60	.6	Diurnal
.Atlantic Marine			DATE:	N. 19	67
PROOF EDIT BY (IV):			DATE:		·
NUMBER OF TRIANGULAT	ION STATIONS SEARCHED FOR (11):	RECOVERED:	IDENTIFIE	D:	
NUMBER OF BM(S) SEARCH	HED FOR (II):	RECOVERED:	IDENTIFIE	D _	
NUMBER OF RECOVERABL	E PHOTO STATIONS ESTABLISHED (III):	None			

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

COMPILATION RECORD	COMPLETION DATE	REMARKS
#. ALONGSHORE AREA FOR HYDRO	February 1966	Superseded
Field Edit Applied Manuscript Complete	July 1966	Superse deg
shoreline revised during	Dec 1966	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12168

Shoreline manuscript T-12168 is one of three 1:20,000 scale manuscripts of the Vieques Island part of Ph-5909, which also contains 8 maps of Culebra Island and adjoining islands. The sketch on page 5 of this report shows the position of this manuscript in this part of the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. Two strips of 1:30,000 scale panchromatic photographs the southern one taken in 1959 with "S" camera, and the northern flight taken in 1964 with the "W" camera. 1962 color photographs at 1:10,000 scale provided added information along the shoreline.

The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:20,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification only. The manuscript was field edited in conjunction with photo-hydro support.

The compilation manuscript was a vinylite sheet 7 minutes, 30 seconds in latitude, and 7 minutes 30 seconds in longitude. The smooth manuscript is on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

'Photogrammetry

MAP T. 12168		PROJEC	PROJECT NO. PH-5909	SCALE OF MAP	MAP 1:20,000	0,000	SCALE FACTOR	JR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	<u> </u>	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
East End, 1900,r.,1923	G.P. pg.29	PR	18 08' 11.263" 65 16' 21.014"	346.3	(1498.3)			
Fossil Cliff 1900, r., 1923	G.P. pg.51	ŧ-	18 08' 48.985" 65 ⁰ 17' 39.619"	1505.9 1164.6	(538.7)			
Ensenada (USGS) 1938 - 41	G.P. pg.176	E	18 ⁰ 07' 00,326" 65 ⁰ 20' 43,583"	10.0	(1834.6)			
Port Diablo(USGS 1938 - 41) G.P. pg.176	=	18 ⁰ 08¹ 58.396" 65 ⁰ 19¹ 35.481"	1795.3	(049.3)	, ,		
Matias (USGS) 1938 - 41	G.P. pg.177	<u></u> =	18 ⁰ 08¹ 00,643" 65 ⁰ 19¹ 03,653"	19.8	(1824.8)	1 1		
GOLETA 3 (USGS)1938-41	G.P. pg.176	-	09	938.4	(906.2)	17		
PALOMA (USGS) 1938 - 41	G.P. pg.176	±	18 08' 32.343" 65 20' 51.358"	994.3	(850.3)	17		
FLAG 1141 (USGS) 1938 - 41	G.P. Pg.178	ŧ	18 ⁰ 081 33,84" 65 ⁰ 171 55,09"	1040.3	(804.3)	17		
		•	And the second s					
1 FT.=.3048006 WETER COMPUTED BY:.D.s.L.s. DesJardins	esJardin	<u> </u>	DATE 2/4/66	CHEC	CHECKED BY: Barnes.	rnes	DATE 2-3-66	M-2388-12

COMPILATION REPORT T-12168

Aerotriangulation Report is submitted with T-12166.

31. DELINEATION

The Wild B-8 instrument was used.

There was no field inspection.

Photography was satisfactory.

32. CONTROL

See Aerotriangulation Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

There was no shoreline inspection. Shoreline and alongshore details were compiled by office interpretation of the photography. No low water line was shown.

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

One Aid to Navigation has been submitted on Form 567. There are no Landmarks.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory junction was made with T-12167 to the west. The Caribbean Sea is to the south and Sonda De Vieques to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangles, ISLAND OF VIEQUES, PUERTO RICO; scale 1:50,000 and Topographic Map of the Island of Vieques, Puerto Rico; scale 1:30,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 904, VIRGIN PASSAGE and SONDA DE VIEQUES, sclae 1:100,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

L. L. Graves

L L Graves

Cartographic Technician

Approved and Forwarded:

J. Bul// CAPT, USESSA

Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

BAHIA FANDUCA

BAHIA ICACOS

BAHIA JALOVA

BAHIA PLAYA BLANCA

BAHIA SALINA DEL SUR

BAHIA SALINAS - Not on Geographic Name Quad (A.M.S.), on Washington Office Name List, on Geol. Survey Quad. of island, and on

BAHIA YOYE Chart 904. USED

** CANO HONDO

CARIBBEAN SEA

CAYO JALOVA

CAYO JALOVITA

*** CERRO FARALLON

*** CERRO INDIO

*** CERRO MATIAS JALOBRE

ENSENADA HONDA

ISLA DE VIEQUES

ISLA YALLIS

LAGUNA ALGODONES

LAGUNA ANONES

LAGUNA MATIAS

LAGUNA MONTE LARGO

LAGUNA YANUEL

LAGUNA PUERTO DIABLO

PENASCO FOSIL

* PUERTO DIABLO

PUERTO NEGRO

PUNTA BRIGADIER

PUNTA CARENERO

PUNTO CONEJO

PUNTA ESTE

PUNTA GATO

PUNTA GOLETA

PUNTA ICACOS

PUNTA JALOVA

PUNTA MATIAS

PUNTA SALINAS

ROCA ALCATRAZ

ROCA CUCARACHA

SONDA DE VIEQUES

* ON GEOGRAPHIC NAME SHEET BUT NOT ON GEOGRAPHIC NAME LIST, USED

*** ON GEOGRAPHIC NAME LIST TAKEN FROM CHART 904, not on Geographic *** Feature (Hill or Mountain) not delineated, name not used. Name Quad. Usep

GEOGRAPHIC NAMES FINAL NAMES LIST

PH-5909 T-12168

Bahia Fanduca

Bahia Icacos

Bahia Jalova

Bahia Playa Blanca

Bahia Salina del Sur

Bahia Salinas - Not on Geographic Name Quad.(A.M.S.); on Washington Office Name List, on Bahia Yoye Geol. Survey Quad., on Chart 904

Cano Hondo — (On Chart 904, not on Geographic Name ** Caribbean Sea Quad.), Vaen

Cayo Jalovita

- * Cerro Farallon
- * Cerro Indio
 - * Cerro Matias Jalobre
 - * Cerro Palomas

Ensenada Honda

Isla De Vieques

- Isla Yallis

Laguna Algodones

Laguna Angnes

Laguna Matias

- Laguna Monte Largo

Laguna Puerto Diablo

* * Puerto Diablo

Puerto Negro

Punta Brigadier

** Punta Canejo
Punta Carenero

Punta Este

Punta Gato

Punta Goleta

Punta Icacos

Punta Jalova

Punta Matias

Punta Salinas

Roca Alcatraz

Roca Cucaracha

Sonda De Vieques

Approved by:

A. J. Wraight

Chief Geographer

Prepared by:

Frank Pickett

Cartographic Technician

*Feature (Hill or Mountain) not delineated, name not used.

* * ON THE GEO. NAME AMS, QUAD. , USED

49. NOTES FOR THE HYDROGRAPHER

Features believed to be of landmark value have been shown, however their navigational value should be verified.

Rocks, shoals and other offshore features have been shown from office interpretation and should be verified.

Due to the time and date difference in photography, many shoreline points which appear on the 1964 photographs do not appear on the 1959 photos and vice-versa.

	;		RIC OFFICE REVIEW WWW T-12168	·
PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LLG	LLG		LLG	LLG
ONTROL STATIONS				
HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A LLG	TIONS OF CCURACY	6. RECOVERAS OF LESS TH (Topographic	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY station XX	7. PHOTO HYDRO STATIONS
BENCH MARKS	9. PLOTTING	FSEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
XX	XX		Bridge (WSC)	Kelsh
LONGSHORE AREAS (Nautical	Chart Data)			
SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LLG	XX	,	LLG	XX
AIDS TO NAVIGATION	17. LANDMARK	(5	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LLG	хх		LLG	LLG
HYSICAL FEATURES	<u>.</u>	•		
, WATER FEATURES	 	21. NATURAL	GROUND COVER	22. PLANETABLE CONTOU
LLG			LLG	XX
3, STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOUR	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	ХХ		xx	LLG
ULTURAL FEATURES	28. BUILDING		29. RAILROADS	30. OTHER CULTURAL
7. ROADS		•		FEATURES
LLG	XX	•	XX	LLG
OUNDARIES			132. PUBLIC LAND LINES	
			XX	<u> </u>
XX NSCELLANEOUS		<u> </u>		
3. GEOGRAPHIC NAMES		34. JUNCTION	IS	35. LEGIBILITY OF THE
LLG			LLG	LLG
6. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION	39, FORMS
χχ	LLG		XX	LLG
		<u> </u>	ISUPERVISOR, REVIEW SECT	TION OR UNIT
O. REVIEWER			i	
LLG			ACR	
11. REMARKS (See attached she	eet)		MANUSCOIDT	<u> </u>
FIELD COMPLETION ADDITION Additions and correction	s fumished by	he field comple	tion survey have been applied	d to the manuscript. The man
	ccept as noted u	nder item 43.	SUPERVISOR	· · · ·
COMPILER			i i	
LLG	•		ACR	
G. REMARKS	·			
			•	
	•			•
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CAGS FORM SGT

THE STATE OF THE PARTIE OF COMMERCE COAST AND GEODETIC SURVEY NONFLOATING AIDS ORXEMINABRES FOR CHARTS

STRIKE OUT TWO

TO BE CHARTED TO BE REVISED TO BE DELETED

"Atlantic Marine Center

October 12, 19 66

全意見る

I recommend that the following objects which have (hardward) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

Graves

L. L. The positions given have been checked after listing by

STATE

Center CHARTS 940 904 Marine MENORE CHART Atlantic MARSOR CHART Apr. 66 A Charles ا د د . £ -12168 SCATION SURVEY Photo Director Puert Rico DATUM Bull, D.P. METONS 06.33186 LONGITUDE . 7 650161 POSTION 14.47 445 LATTICOE . 180081 BIGNAL ١, .) DESCRIPTION ESTE LIGHT . . N S PUERTO PUNTA CHARTING Light

The Art of the second of the second

USCOMMEDC 16234-P61 Positions of charted The data should be This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. landmarks and nonflosting side to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. * TABULATE SECONDS AND METERS

FIELD EDIT REPORT

T-12168

The field edit report is included with the Descriptive Report for T-12166.

REVIEW REPORT T-12168 SHORELINE January 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

A Comparison Print (ozalid) showing the differences referred to in Items 62, 64 and 65 is enclosed with the original x of this Report. The flight lines of the color photographs are shown on the Comparison Print in brown.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Reg. No. 2636; 1:10,000; 1903 Puerto Rican Datum
" 2871; 1:20,000; 1907 " " "

The Comparison Print shows areas of this map covered by these Registered Surveys.

- (a) There are differences of up to 80 meters, at Punta Goleta, latitude 18009.5, longitude 65021.4.
- (b) The major differences with Reg. No. 2871 are:

The size and shape of Isla Yallis, at latitude 18°09'.0, longitude 65°18'.55.

The small islet in Bahia Salina Del Sur at latitude 18°08°.17, longitude 65°18°.34, is shown as a small peninsula on the 1907 survey.

The islet, Cayo Jalovita, at latitude 18007'1., longitude 65°21'.3, is now only a "rock awash".

The position of Punta Conejo, latitude 18°06'.62 longitude 65°22.5 is about 30 meters east of the 1907 position.

There are differences in the size and shape of the small island Roca Alcatraz, latitude 18°07'.5, longitude 65°18'.1; and the island a half mile west of it.

(c) There are some changes in the "fast" shoreline of Isla de Vieques which are not excessive; and some understandable 100 meter changes in the mangrove shoreline bordering of Ensenada Honda on the south coast.

T-12168 supersedes the listed prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Island of Vieques; U.S.G.S.; 1:30,000; 1943 revised 1949.

The comparison is generally good.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS NOTE: SEE

Boat Sheet WH-20-1-66A; 1:20,000, 1966

" " " " " " " " " " " "

The area covered by these boat sheets, and along the north coast of the island, is shown on the Comparison Print.

The Comparison Print shows some bare rocks, rocks awash, submerged rocks and ledges that are not on the boat sheet. They are on T-12168, having been noted by the field editor.

There are no contemporary hydro surveys of the south coast or of the east tip of the island.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 904; 1:100,000; 11th Edition December 28, 1964.

The chart differences are shown on the Comparison Print in red:

A now non-existent island at latitude 18°09'.15, longitude 65°18'.35.

A rock awash at latitude 18°07°.25, longitude 65° 21°.6; and four near latitude 18°08°, longitude 65°16°.2 were not visible on the photographs and were not noted by the field edit.

Many of the submerged rocks from chart 904 fall within the reefs shown on T-12168.

Differences in the shoreline may very well be due to the 5X enlargement needed to bring the chart to the scale of T-12168.

Color photographs 62-S-609 thru 620, and 62-S-666 thru 682 were used for reef, rocks, etc. delineation and, also for study during the final comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests were run in the field. The map meets the National Standards of Map Accuracy and Bureau requirements.

Approved by:

Reviewed by:

J. Bull, RADM

Director, Atlantic Marine Center

Approved by:

Cartographic Branch

Chief, Photogrammetry Division

12-07-67

Chief, Operations Division

NOTES TO VERIFIER T-12168 Project 21023(Ph-5909) BOAT SHEET NO. WH-20-1-66 A&B

Please note Items 62, 64 and 65 of the Descriptive Report for T-12168 and the Comparison Print for discrepancies between T-12168 and the registered surveys, boat sheets, and the existing nautical chart.

64. ADDENDUM

Reefs were compiled from office interpreted color photography. The symbols represent the off-shore limits of the features visible on the photography. The information was compiled to assist the hydrographer.

In some areas soundings plottedon contemporory hydrographic survey H-8880 are 10cated inshere from the outer limits of the reefs as delineated on the subject photogrammetric survey.

As requested by the Hydrographic Data Bronch, the reef symbols are retained on the photogrammetric survey as originally compiled to assist the in applying an approximate mean tow-water line to the hydrographic survey for use on nautical charts.

S. B. Blandenbolm 8/25/69 ÷

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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-	_	ᆂ	-1		٠.

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
904	1/4/70	Em Frey	Fall Part Basse After Verification Review Inspection Signed Via
,- ,	<u> </u>	8	Drawing No. north where fully aged via H-8880
			south shore only partially appl.
904	115 74	R. Naito	Foll Part Betora After Verification Review Inspection Signed Via
25650)			Drawing No. 25 and Field
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