12167

Diag. Cht. No. 904.

FORM C&G\$-504

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

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetrie)

Field No. Ph-5909 Office No. T-12167

LOCALITY

State Puerto Rico

General locality Isla De Viegues

Punta Locality Puerto Real to Puerto Conejo

19<u>59-</u>66

CHIEF OF PARTY

J.Bull, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE April 1968

USCOMM-DC 37022-P66

10101

DESCRIPTIVE REPORT - DATA RECORD

	T - 1216	7		
PROJECT NO. (11):			·	
PH-5909				_
FIELD OFFICE (11):		CHIEF OF PARTY		
PHOTOGRAMMETRIC OFFICE (III):	<u> </u>	OFFICER-IN-CHAR	GE	
Atlantic Marine Center		J. Bull, D	irector	
INSTRUCTIONS DATED (II) (III):	<u> </u>	<u> </u>		
November 12, 1965		•		
		•		
				<u></u>
METHOD OF COMPILATION (III):				
WILD B-8 and Kelsh	LSTEREOSC	OPIC PLOTTING INS	TRUMENT SCA	LE (III):
MANUSCRIPT SCALE (III):				
1:20,000		pantagraphed		
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATEREF	OR TED TO MAD TION	2 0111111 21111	
			DATE REGIST	repen (sv)
APPLIED TO CHART NO.	DATE:		DATE REGIS	IERED (IV).
	<u></u>			
GEOGRAPHIC DATUM (III):		VERTICAL DATU		FOLLOWS:
		Elevations shown	as (25) refer to	mean high water
		Elevations shown		
		i.e., mean low war	01 01 110001 10	
PUERTO RICO				
REFERENCE STATION (III):				-
Port Ferro Lighthouse 2 (USGS	3) 1938 - 4	41 -		
LAT.: LONG.:		X ADJUSTED	-	
18°05'53.479"(1644.1m) 65°25'26.392"	(776.0m)	UNADJUSTED		
PLANE COORDINATES (IV):		STATE		ZONE 1
v = 97,136.36 × = 850,507.84	1 -	PUERTO RI	co	PUERTO RICO
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE EI	NTERED BY (II)	FIELD PARTY, (III)	PHOTOGRAMM	ETRIC OFFICE,
OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIV	VE THE SURNAM	E AND INITIALS, NO	T INITIALS ON	LY,

FORM C&GS-1816

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

•	T-12167	
ELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	
Air photo compilation		
Photos.	April 20, 1959 and February 2	1 1064
Date of compilations	April 20, 1959 and February 2	1, 1904
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		Nov. 18, 1965
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
D C Yonnenan	•	Nov. 18, 1965
R. S. Kornspan	DATE	
	January 1966	
B. Barnes		
CONTROL CHECKED BY (III):		DATE
A. Rauck		January 1966
,		
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
•	No date	
Robert B. Kelly (WSC)	DIANIMETOV	DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):		January 1966
	J. Place and L. Neterer	DATE DATE
	CONTOURS	DATE
·	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
J. Place	V	January 1966
SCRIBING BY (III):		DATE
•		
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		February 1966
L. L. Graves		
REMARKS:	,	······································
Field Edit D.R. Rich	LT.19, USESSA April 19	766

FORM C&GS-181c

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

DESCRIPTIVE REPORT - DATA RECORD

T-12167

CAMERA (KIND OR SOURCE) (III):

"S" and "W" Cameras

	PHC	TOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
59-S-3967	Apr.20,1959	09:05	1:30,000	0.1 Above MLW
59 - S-3968	11 1	09:05	1:30,000	0.1 ,,
59-S-3969	11	09:05	1:30,000	0.1
59- S- 3970	tt	09:05	1:30,000	0.1 ''
59-S-3971	i tr	09:06	1:30,000	0.1 /
64-W-3493	Feb.21,1964	10:06	1:30,000	0.2 ,,
64-W-3494	11	10:06	1:30,000	0.2
64-W-3495	rr	10:06	1:30,000	0.2 ''
64-W-3496	l tt	10:07	1:30,000	0.2 ,
64-W-3497	tt .	10:07	1:30,000	0.2
64-W-3498	tt	10:08	1:30,000	0.2
.				
		TIDE (III)	Predicted	

TIDE (m) Predicted			
		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Galveston, Texas San	Juan, Puerto Rio	20		
IBORDINATE STATION: Bahia De Mulas, Isla De Vie	eques	.73	.8	1.0
subordinate station: Puerto Ferro, Isla De Viequ	ues	.60	.6	Diurna 0.8
"Atlantic Marine (Centerio): M.M. S	VEY	DATE:	an. 1	947
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	: D :	
NUMBER OF BM(S) SEARCHED FOR (II): None	IDENTIFIE	D		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III)	· None			<u></u>

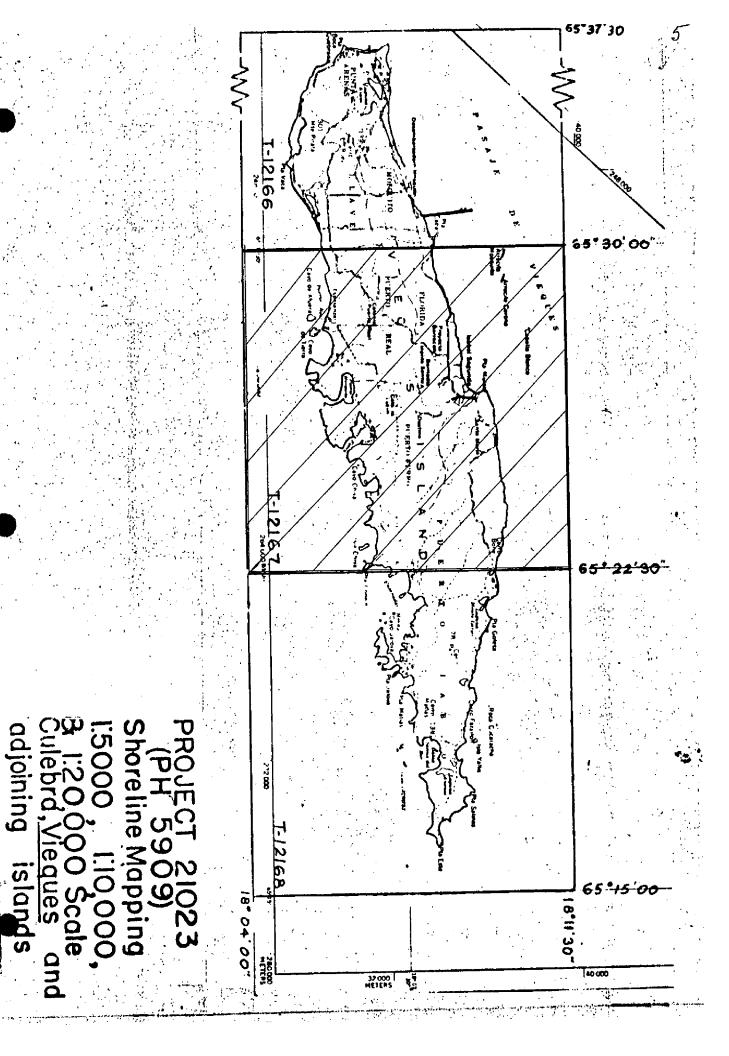
REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

Along Shore Area for Hydro	February 1966	Superseded
Field Edit Applied Manuscript Complete	June 1966	Supersades
Sime additions i revisions during finel remew	VAN. 1967	
	Agricultural Control of the Control	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12167

Shore line manuscript T-12167 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

	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)													M - 2388 - 12
SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK) F													2/9/66
1:20,000	DATUM	77	77	77	77	3) (2	5) /	2) (7 7 7	7 7	<u>0</u> € 7 € 7	₹ 7 /	<u> </u>	J.S.P.
MAP.	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	(1130.45	(1121.3)	(1199.3)	(1301.4)	(1133.3	(200.5)	(1053.4)	(328.7)	1 4 4	(952.0	(335.	(1175	CHECKED BY
SCALE OF MAP	DISTANCE FRO OR PROJECTION FORWARD	714.1	723.3	645.3 1633.0	660.9 462.8	711.3	1644.10	791.2	1515.9	ا د اه	892.6	1509.1	669.0	CHE
:T NO. PH-5909	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	18 ⁰ 09¹ 23.229" 65 ⁰ 23¹ 41.838"	18 ⁰ 08¹ 23.526" 65 ⁰ 29¹ 06.311"	18 ⁰ 061 20.989" 65 ⁰ 291 55.543"	18° 05' 21.497" 65° 27' 15.740"	18 ⁰ 09' 23.137" 65 ⁰ 26' 38.992"	18° 05' 53.479" 65° 25' 26.392"	18 ^o 10' 25.736" 65 ^o 28' 04.462"	18 07' 49,308" 65 26' 29.267"	08' 22.7	18 ⁰ 07' 29.034" 65 ⁰ 29' 22.680"	18 ⁰ 07¹ 49.087" 65 ⁰ 29¹ 57.333"	18 ⁰ 091 21 760" 65 ⁰ 261 00.626"	2/3/66
PROJECT NO	DATUM	P.R.	:	*	- 	=		:	£	ŧ.	=	ŧ	:	
	SOURCE OF INFORMATION (INDEX)	G.P. pg.176	G.P. pg.178	G.P. pg.177	G.P. pg.177	G.P.)pg.38	G.P.	G.P.	G.P. pg.52	G.P.	G.P. pg.177	G.P.	ьρгю	es Jardins
. MAP T. 12167	STATION	COMPANA (USGS) 1938 - 41	PORT MULAS NO, 3 (USGS) 1938 - 41	PEREZ (USGS) 1938 - 41	POINT NEGRO(USGS)	PORT MULAS LIGHT- HOUSE(POINT MULAS	1900 LIGHTHOUSE NO.2 ' (USGS)Port Ferro	<	MIDDLE 1901	DESTINO (USGS) 1938 - 41	SONADORA (USGS) 1938 - 41	PORT MULAS NO.1 (USGS) 1938 - 41	LE BRUN, STACK 1900	1 FT. = .3048006 MELER L. Des

N.A. 1927 - DATUM

BISTANCE
FROM GRID OR PROJECTION LINE
FROM GRID OR PROJECTION LINE
IN METERS M · 2388 - 12 (BACK) FORWARD SCALE FACTOR (BACK) DATE FORWARD DATUM SCALE OF MAP 1:20,000 (692.5)(652.3)OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY ... FORWARD 1152.1 1111.5 MAP T. 12167 PROJECT NO. PH-5909 LONGITUDE OR x-COORDINATE LATITUDE OR U-COORDINATE 18⁰ 07¹ 37,476¹¹ 65⁰ 27¹ 37,811¹¹ DATE DATUM P. R. SOURCE OF INFORMATION (INDEX) pg.176 G.P. SUMMIT 2 (USGS) 1938 - 41 1 FT.=.3048006 METER STATION COMPUTED BY:...



COMPILATION REPORT . T-12167

Aerotriangulation report is submitted with T-12166.

31. DELINEATION

The Kelsh and Wild B-8 plotters were used.

There was no field inspection.

Color photography was used for a comparison of alongshore areas and as an aid to delineate rocks and other offshore features. Reefs in the northwest section of the sheet were compiled graphically from color photography as there was no photo coverage with panchromatic photography of this area.

32. CONTROL

See Aerotriangulation Report submitted with T-12166.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

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

36. OFFSHORE DETAILS

See items 31 and 49.

37. LANDMARKS AND AIDS

- 3 Aids to Navigation have been submitted on Form 567.
- 1 Landmark has been submitted on Form 567.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-12166 to the west and T-12168 to the east. The Caribbean Sea is to the south and Pasaje De Vieques is to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS 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 940, Pasaje De Vieques and Radas Roads, scale 1:25,000 and Chart 904, Virgin Passage and Sonda De Vieques, scale 1:100,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None.

L. L. Graves Cartographic Tech.

Approved and Forwarded:

. Bull, CAPT, USESSA

Director, Atlantic Marine Center

```
48. GEOGRAPHIC NAME LIST
```

*** ARRECIFE CORONA

*** ARRECIFE MOSQUITO

BAHIA CORCHO

BAHIA DE LA CHIVA

BAHIA DE MULAS

BAHIA TAPON

BAJO COMANDANTE

** BAJO MERAIL

*** CABALLO BLANCO

CABELLOS COLORADOS

* CARIBBEAN SEA

CAYO CHIVA

CAYO DE TIERRA

CAYO REAL

* CERRO BONE

CERRO CARACAS

* CERRO COMACHO

CERRO PLAYVELA

** ENSENADA CLAQUE

ENSENADA SUN BAY

ESPERANZA-

ISABEL SEGUNDA

ISLA CHIVA

ISLA DE VIEQUES'

LAGUNA YANUEL

Hills or Mountains Feature not delineated - name not used PLAYA GRANDE '

PUERTO FERRO

PUERTO MOSQUITO

PUERTO REAL

PUNTA CAMPANILLA

PUNTA CONEJO

PUNTA MARTINEAU

PUNTA MULAS

PUNTA NEGRA

QUEBRADA COFI

* QUEBRADA COFRESI "

QUEBRADA HUECA

QUEBRADA LA MINA

QUEBRADA LA PERLA

QUEBRADA MARUNGUEY

QUEBRADA URBANO

* SONDA DE VIEQUES

- * NOT ON GEOGRAPHIC NAME LIST BUT ON GEOGRAPHIC NAME SHEET
- ** ON GEOGRAPHIC NAME LIST BUT NOT ON GEOGRAPHIC NAME SHEET ON CHART QUAD. (On Chart 940)

*** Beyond limits of Photographic coverage

GEOGRAPHIC NAMES FINAL NAMES LIST

PH-5909 T-12167

*Arrecife Corona

*Arrecife Mosquito

Bahia Corcho

Bahia de la Chiva

Bahia de Mulas

Bahia Tapon

On Chart 940, not on graphic Name Quad. (Feature is a reef and is delineated at Bajo Merail 18009.1 65029.451 and name is used)

-----Bajo Comandante

Barriada Monte Santo

Caballo Blanco

Cabellos Cororados

Not found on ----- Campo Silo Geographic Name Quad.

CARIBBEAN SEA (on Geographic Name Sheet) Cayo Chiva

Cayo de Tierra

Cayo Real

** Cerro Caracas

** Cerro Martinea

** Cerro Playuela

** Cerro Sonadora

** Colonia Lujan (Pol. Subd.)

** Colonia Puerto Real (Pol. Subd.)

** Destino (Village)

On Chart 940 not in ----- Ensenada Claque Geographic Name Quad., name is used.

Ensenada Sun Bay

Esperanza

Isabel Segunda

Isla Chiva

Isla de Vieques

Laguna Yanuel

** Moscou (Village)

Playa Grande

** Proyecto Barracon (Pol. Subd.)

Puerto Ferro

Puerto Mosquito

Puerto Real Punta Cabellos Colorados (On Chart 904, not on Punta Campanilla

Geographic Name Quad., point is not prominent, so name was not used.)

Punta Conejo

Punta Martineau

Punta Mulas

Punta Negra

Quebrada Cofi Quebrada Cofresi (On Geographic Name Quad) name used. Quebrada Hueca

Quebrada La Mina

Quebrada La Perla

Quebrada Marunguey

** Quebrada Pilon (Outside delineation limits.)

Quebrada Urbano

Santa Maria

Sonda De Vieques (On Geographic Name Sheet and nautical chart)

Approved by:

a. J. Wraight

Chief Geographer

Prepared by:

Frank Pickett

Cartographic Technician

* Beyond limits of photographic coverage

** Feature not delineated

T-1216

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.

&GS FORM 1002	PHOTO	GRAMMET	RIC OFFICE REVIEW	OAST AND GEODETIC SURVEY
	PROT		10363	•
PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LLG	LLG		LLG	LLG
CONTROL STATIONS	 			
HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF 6	RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
LLG	COUNTRY	(Topographi	c atations) XX	XX.
BENCH MARKS	9, PLOTTING OF	SEXTANT	10. PHOTOGRAMMETRIC	II. DETAIL POINTS
XX	XX		Bridge (WSC)	хх
LONGSHORE AREAS (Nautice	l Chart Data)			125
12. SHORELINE	13. LOW-WATER L	INE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LLG	XX	•	LLG	XX
6. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LLĞ	LLG		LLG	LLG
HYSICAL FEATURES				22. PLANETABLE CONTOUR
O. WATER FEATURES		II. NATURAL	GROUND COVER	22, PLANETABLE CONTOUR
LLG			LLG	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS I	N GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	XX		XX	LLG
CULTURAL FEATURES			100	30. OTHER CULTURAL
27. ROADS	28. BUILDINGS		29. RAILROADS	FEATURES
LLG	LLG		XX	LLG
BOUNDARIES			32, PUBLIC LAND LINES	
31. BOUNDARY LINES XX			XX	
MISCELLANEOUS 33, GEOGRAPHIC NAMES		34. JUNCTIO	NS	35. LEGIBILITY OF THE
			LLG	LLG
LLG	37. DESCRIPTIV	F REPORT	38. FIELD INSPECTION	39. FORMS
36. DISCREPANCY OVERLAY			PHOTOGRAPHS LLG	LLG
XX	LLG		SUPERVISOR, REVIEW SECTION	
40. REVIEWER	,		i	
LLG			ACR	
41. REMARKS (See attached at FIELD COMPLETION ADDITI	ONS AND CORRECT	IONS TO THE	MANUSCRIPT	
42. Additions and correction	ns furnished by the	field compler item 43.	etion survey have been applied	to the manuscript. The manu-
COMPILER			SUPERVISOR	
LLG			i ACR	
		<u> </u>		

ΞĹ.

USCOMM-DC 16282-P61

NONFLOATING AIDS ORXIXAMINARRES FOR CHARTS

STRIKE OUT TWO **RCREPERETRY** TO BE CHARTED KK KK KEVISED

Atlantic Marine Center

October 20

大きない からからない かんしん I recommend that the following objects which have (housewest) been inspected from seaward to determine their value as landmarks be charted on (description) the charts indicated

The positions given have been checked after listing by

L. L. Grave

		يچن ر			POSITION	-		METHOD		TRA TRAI		
	PUERTO RICO		5	LATTUBE	LONGI	LONGTUDE		LOCATION	Ž Š	12 200 12 200 12 200	CHANTS	
CHARTING	pficalition	BIGNAL	•	D. M. M. TERS	•	D. P. METEDES	DATUM	BURVEY No.	LOCATION	HEN		
Sewer Ex-	iht		180091	11.84	650261	39.60 Puerto	Puerto Rico.	Sextant	ADE. 66	×	940 904	
1964			,								•	
Esperanza			180051	42.97 1321	65°28'	18.70° 550	z	Photo T-12167	11	X	940 904	
1964								,				ert in d
The state of the s	Punta Coneio Light 1964	37	180081	37.89	650221	34.49	ı,	Photo T-12167	11	×	940	
		140	·				·•			,		
											7.	
	· · · · · · · · · · · · · · · · · · ·											
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,										
												1
			,									
										·		

USCOMMENC 16234P6 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. Positions of charted The data should be landmarks and nonfloating alds to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the chares of the area and not by individual field survey sheets. Information under each column heading should be given. * TABULATE SECONDS AND METERS

のでは、100mmに対象に対象を対象を表現を表現している。 100mmに対象を対象というでは、100mmに対象となるとは、100mmに対象とは、100mmに対象とは、100mmに対象というに対象に対象というに対象と

C&GS FORM

U.S. DEPARTMENT OF COMMERCE COAST AND GEG IC SURVEY

MOMERO MENDE MORE LANDIMARKS FOR CHARTS TO BE CHARTED

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated. TO BE DECEMEN

L. Graves

October 12, 19 66

Atlantic Marine Center

The positions given have been checked after listing by

STATE

STRIKE OUT TWO

J. Bull, Director, Atlantic Marine Center 940 THAMS REGINE Apr. 66 LOCATION DATE r-12167 LOCATION AND SURVEY NO. ase Puerto Photo Rico DATUM 15.31 D. P. METER LONGITUDE # 650281 POSITION D.M. METERS 05.43 167 LATITUDE# 90 ENE 0 T 1180 20.19 BIGNAL 0 4,25150 Loca (220 ABOUT NOSL DESCRIPTION PUERTO RICO HOCK WIVV RADIO TOWER 19 CHARTING

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. Positions of charted The data should be 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

USCOMM-DC 16284-PS1

16

FIELD EDIT REPORT

T-12167

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

REVIEW REPORT T-12167 SHORELINE January 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

A Comparison Print (ozalid) showing the differences noted in Items 62, 64 and 65 is enclosed with the original of this see below report. The flight lines of the color photography are shown on this print in brown.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registry No. 2587; 1;10,000; 1902; Puerto Rican Datum

" 2635; 1:10,000; 1903; " " "

" 2636; 1:10,000; 1903; " " "

" 2804; 1:20,000; 1906; " " "

" 2871; 1:20,000; 1907; " "

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

- (a) Surveys 2635 and 2636, the north coast of Isla De Vieques from Punta Mulas to the east limits of this map, have the shoreline about 100 meters north of its position on this map. The old surveys have two triangulation stations used on T-12167 in the same position, which seems to preclude datum discrepancies. It is noted that Chart 904 has this shoreline in agreement with T-12167 but uses the position of the foul limits from 2635 and 2636.
- (b) Surveys 2587, 2804 and 2871 show minor shoreline differences. The largest being the delineation of Isla Chiva (Lat. 18°06°.6, long. 65°23°) on 2871; and the mangrove areas of Bahia Tapon (lat. 18°06°.8, long 65°24°.5) and Puerto Ferro (lat. 18°06°.8, long. 65°25°.6)
- (c) Surveys 2635, 2636 and 2871 show numerous foul areas not noted by the field editor, they are not on the Comparison Print because they coincide with many of the sunken rocks from Charts 904 and 940; see Item 65, paragraph (a) and (d).
- (d) Survey 2871 shows two rocks awash at latitude 18°05*.4, longitude 65°26*.7; these are probably the same rocks

compiled just to the north on this manuscript. The field editor noted the one rock awash and no mention is made of any further offshore. The discrepancies in the mangrove shoreline in Puerto Ferro at longitude 66°25°.5, on the south coast, are not surprising.

Color photographs used were 62-S-619 thru 626, 62-S-647 thru 666, and 62-S-9989 thru 0000.

T-12167 supersedes these registered surveys for nautical chart construction. Please note the hydrographic data in in paragraphs (c) and (d).

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

Agreement is quite good. There are differences in the shoreline of the north coast west of Isabel Segunda of 35 meters; and on the south coast in the mangrove coastline of Bahia Tarpon of 70 meters.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS ASOE

NOTE: REFER TO ADDENOUM ON PAGE 22

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

- (a) This hydrographic survey is for the north coast of the island; there is no contemporary survey for the south coast.
- (b) The boat sheet shoreline was from T-12167 Advance. Compilation. Rocks on the boat sheet coincide with those on the compilation.
- (c) It is noted that the Boat Sheet showed few soundings inside the 6 ft. area and, therefore, no check was provided for much of the reef delineation on T-12167.
- (d) A "rock awash" on T-12167 at latitude 18009.75, longitude 66022.93, is not on the boat sheet; it was corroborated by the field edit.
- (e) A "rock awash" at latitude 18°09.8, longitude 66°23.23, on the boat sheet was from the Advance Manuscript of T-12167. The field editor noted it "no rock here", therefore, it is not shown on the final manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 940; 1:25,000; 3rd Edition July 25, 1966, corrected to Notice to Mariners No. 40 of October 1, 1966.

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

The Comparison Print shows the areas in which the two charts were used. Chart 940 eastern limits are at 65°26†20"; from which line chart 904 was used. Chart 904, at much smaller scale, covers the entire island.

- (a) The shoreline of Chart 940 is in good agreement with T-12167. The sunken rocks on the chart were not verified by the field editor or the hydro party, and may have been carried over from the old registered surveys. Please see paragraph (c) of Item 62 of this report. Many of the sunken rocks fall within area delineated as "reefs" from the color photographs.
- (b) Esperanza Wharf Light, 1964 (privately maintained) latitude 18°05'.7, longitude 65°28'.3 is about 20 meters north of its position on Chart 940.
- (c) Chart 904 is the only coverage east of 62°26'20". Its scale, 1:100,000, requires a 5% enlargement for comparison with T-12167; consequently, apparent shifts of 100 meters along the south coast are not as serious as they appear.
- (d) The comparison print shows numerous submerged rocks from Chart 904 that were not visible on the photographs and were not noted by the field edit. Many of these fall within the reefs delineated from the color photographs.
- (e) The name "Punta Cabellos Colorados" on Chart 904 was not shown on the Geographic Name List. Which point the name refers to is doubtful, and the area is named Cabellos Colorados.
- (f) Chart 904 shows two "rocks awash" at latitude 18°05.4 longitude 65°26'.7; these are discussed in Item 62, paragraph (d).

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy test 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

M. M. Slavney

Approved by:

Chief, Gertegraphic Branch

John Joyc

Marine

Chief, Operations Division

12-07-67

NOTES TO VERIFIER T-12167 Project 21023(Ph-5909) BOAT SHEET No. WH-20-1-66A

Note Items 62, 64 and 65 of the Descriptive Report for T-12167; and the Comparison Print for discrepancies between T-12167 and Boat Sheet WH-20-1-66A, the registered surveys, and nautical charts 904 and 940.

64. Addendum

Reefs were compiled from office interpreted color photography. The symbols represent the offshore limit of the features visible on the photography. The information was compiled to assist the hydrographer.

In some areas soundings plotted on contemporary hydrographic survey H-8880 are located inshore from the outer limits of the reefs as delineated on the subject photogrammetric survey.

As requested by the Hydrographic Data Branch, the reef symbols are retained on the photogrammetrie Survey as Originally Compiled to assist in applying an approximate Mew Line to the hydro graphic survey for use on nautical Chorts.

A. H. Blankenbolm 8/25/69

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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
9/7	8/30/67	John P. Wein	Fall Part Before After Verification Review Inspection Signed Via
		0	Drawing No. Critical correction only
940	12/18/65	ERIC FREY	Full Part Before After Verification Review Inspection Signed Via
	15-17-07-07	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Drawing No. swised shouline on north via H-888
			Full Part Bettere After Verification Review Inspection Signed Via 940
917	12/20/69	Enc Try	Drawing No. swissel shouline on both sides of inland
			the the age (P. II. and od)
904	1/6/70	Esse Trey	Part Batere After Verification Review Inspection Signed Viaq17
			pottle store only partially aged.
940	1/31/74	R.a. Lillia	Full Part Before After Verification Review Inspection Signed Via Drawing Not 12 K Field Inspection
			Drawing Not 12 & Field Inspection
<u> </u>	42/0/=4/	PILLINON	Adequately Applied - Entl Part Defore After Verification Review Inspection Signed Via
<u>917</u> (25663)	18114	Lichard Neuto	Drawing No. 19 & Field Inspection
,00000			Adequately Applied - and Field-
904	11 5 74	R. Neito	Full Parg Bester After Verification Review Inspection Signed Via
(25650)			Drawing No. 25
	· · · · · · · · · · · · · · · · · · ·		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
-			Drawing No.
<u>-</u>			