12159

ののこのこ

Form	504
------	-----

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	SHORELINE	
	Office No	T-121 59
· <u>·</u>	LOCALITY	
State	PUERTO RICO	P441***********************************
General locality	BAST COAST	
Locality	PUNTA LIMA TO	
	PLAYA DE HUMAC	AO
19	58 - 19.62	
	CHIEF OF PARTY , Photo Party 708 eralski, Tampa Dis	trict Office
LI	BRARY & ARCHIVES	3
DATE	. 1 JUL 1968	

USCOMM-DC 5087

トのトの



DESCRIPTIVE REPORT - DATA RECORD T _12159

	-121)		the state of the s	
Ph-6106 (21042)				
FIELD OFFICE (II):		CHIEF OF PARTY		
Puerto Rico		M. L. Oli	vier	
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAP	RGE	
Tampa, Florida		V. Ralph	Sobierals	d
INSTRUCTIONS DATED (II) (III):				
Field and Office - I	Aug. 30,	1961		
Amendment: Field and Office	Jan. 15,	1962 *		
* Interior planimetry restricted to those featur	res useful	to photo hyde	ro support	
			56	-0
		No. 1		
METHOD OF COMPILATION (III):				
Kelsh plotter			v	
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCO	1:6,000	TRUMENT SCA	LE (III):
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	ORTED TO NAUTICA	L CHART BRA	NCH (IV)
APRIL 13, 1968	5,,,,	KIED TO MAGITICA	L CHART BRA	NCH (IV):
APPLIED TO CHART NO.	DATE:		DATE REGIST	TERED (IV):
				ENED
GEOGRAPHIC DATUM (III):		VERTICAL DATUM	MHW : (III)	
		HEAWGEAGASI		FOLLOWS:
Puerto Rico		Elevations shown a		
		Elevations shown a		
		i.e., mean low wate	or or mean lower	· low water
REFERENCE STATION (III):				
LIMA 3, 1941				
LAT.: LONG.:	1			
18°10°57.657" (1772.5m.) 65°41°41.829 (122	29.3m.)	ADJUSTED UNADJUSTED		
PLANE COORDINATES (IV):		STATE		ZONE
	/	STATE		ZONE
= 127,367.52 Ft. ×= 756,291.39 Ft.		Puerto Rico		Lambert
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTER OR (IV) WASHINGTON OFFICE.				
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE	HE SURNAME	AND INITIALS, NOT	INITIALS ONL	Υ.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:	
M. L. Olivier		Oct	. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE Air photo compilatio Date of photograph			
PROJECTION AND GRIDS RULED BY (IV):		DATE	
A. Riley			Nov. 1963
PROJECTION AND GRIDS CHECKED BY (IV):		DATE	
D.K.H. (W.O.)			Nov. 1961
CONTROL PLOTTED BY (III):		DATE	
I. I. Saperstein			Feb. 1962
CONTROL CHECKED BY (III):	#40 as 9	DATE	
I. I. Saperstein			Feb. 196
TADIAL PLOTOR STEREOSCOPIC CONTROL EXT	FUSION BY (III)	DATE	W - 20/2
Washington Office		DATE	Nov. 1961 Jan. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):		DATE	
and the second s	I. I. Saperstein		Feb. 1962
	CONTOURS Inapplicable	DATE	
MANUSCRIPT DELINEATED BY (III): I. I. S		DATE	Feb. 1962
" Reviewed by: M. M.		DATE	Mar. 1963
Reviewed by: W. H. Sheard	ouse	DATE	May 1962 May 1962
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE	
W . H. Shearouse			May 1962

DESCRIPTIVE REPORT - DATA RECORD

AMERA (KIND OR SOURCE) (HI):

Wild "S" and "W"

	F	HOTOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
58-S-2615 thru 2626 59-S-3926, 3927 61-W-1675, 1676	1958 4-18-59 10-26-61	1227 to 1229 1123 1500, 1501	1:10,000 Diapositives 1:30,000 "	(COLOR PHOTOS)
		TIDE (III)	4-2	
		TIDE (III)		

REFERENCE STATION: *No subordinate station in this area, but tidal bench mark gives a range of 0.4 ft. so tide is considered negligible

SUBORDINATE STATION:

Atlantic Marine Center

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

M.M. Slavney Feb. 1968 PROOF EDIT BY (IV): DATE: RECOVERED: IDENTIFIED: NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 9** 9** 3** RECOVERED: IDENTIFIED NUMBER OF BM(S) SEARCHED FOR (II): 3 1 1

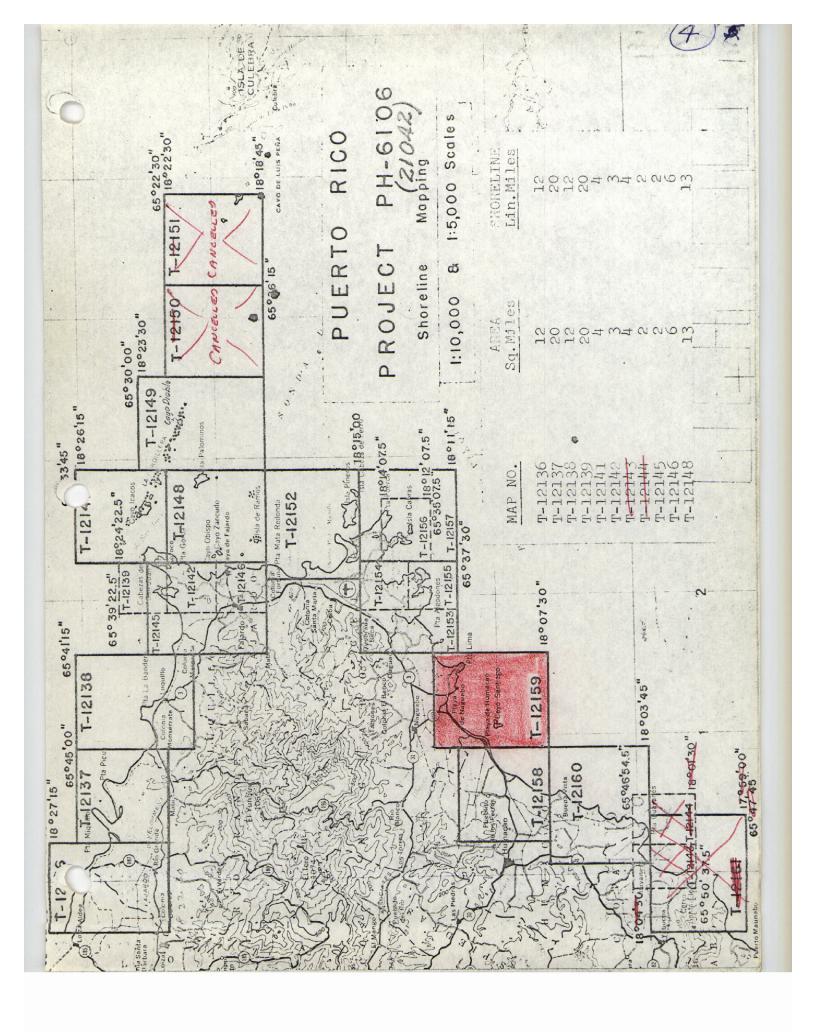
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

**Including one station north of project. There are ten stations shown, one SAM 1901, is on a restricted island and was not searched for.



5

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12159

Shoreline manuscript T-12159 is one of sixteen 1:10,000 scale maps in Ph-6106 Puerto Rico, which also contains eight 1:5,000 scale maps. The sketch on page 5 of this report shows the position of this map in the project. It is noted that 1:5,000 scale maps T-12143 and T-12144, and 1:10,000 scale maps T-12150, T-12151, and T-12161 of this project are in a postponed status until some future time? cancelled.

This is a stereo instrument project in advance of hydrographic surveys of the area. Compilation was by Kelsh Plotter using 1:30,000 diapositives of the April 18, 1959 "S" photography and October 26, 1961 "W" photography. Color photographs of 1958 gave some coverage and were used as an aid to compilation; they were not available for final review. The stereo bridge was run in the Washington Office. Ratio prints at 1:10,000 scale were processed from the 1959 and 1961 photographs and furnished for hydro support.

Field work preceding compilation consisted of control identification for the stereo bridge on contact prints, with most of the field inspection on the 1:10,000 ratio prints of the 1959 "S" photographs. Field inspection for the eastern part of the map was done on contact prints of the 1961 "W" photographs. The manuscript was field edited in September 1962 in conjunction with hydro support.

The compilation manuscript was a vinylite sheet 4 minutes and 45 seconds in latitude, and 3 minutes and 45 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.

PIEID INSPECTION REPORT Project Ph-6106 Maps T-12158 thru T-12161



2. AREAL FIRLD INSPECTION

These chereline cheets are located on the southeasterly side of Puorto Rico. The area is rural except for two beach resorts. The chereline area is very undeveloped.

Piold inspection was performed on photographs 59-S-3925 through 59-S-3937. The photographs contained some clouds but were otherwise of good quality. No difficulty was encountered in the interpretation in the field. Some shoroline areas around the mouths of streams had changed since photography. Those changes are shown on the photographe in violet ink.

A large amount of rainfall foll during field inspection making it very difficult to peach some of the interior features. Some of the marsh and awamp areas may have to be clarified by the field editor.

3. HORIZONTAL CONTROL

All Coast and Goodstic Survey control stations except one were searched for. No attempt was made to recover SAN, 1901 because this station is located on an island used as a brooding ground for menkeys. Nebedy is allowed on the island. One might possibly obtain permission to visit the island if contact is made with the Laboratory of Perinatal Physiology, Post Office Box 5095, San Juan, Puerto Rico.

Only those stations as specified on the project diagram were photo-identified. To meet this requirement some United States Geological Survey control was used. The following U. S. G. S. control stations were recovered and photo-identified: HUMACAO PLAYA CHURCH, 1934; CCLON, 1941; and NAGUABO CHURCH, 1934.

The following Coast and Geodetic Survey control stations were searched for but not recovered: YEGUAS, 1901; BARBACCA, 1901; LIMA 3, 1941; and RON RCIG LARGE RED STK., 1901.

4. VERTICAL CONTROL

All tidal bench marks in the area were searched for but only one was recovered.

5. CONTROL AND DRAINAGE

Contours were not a part of the work requirements for this project.

Drainage is mostly perennial and can be distinguished on the photographs.

6. WOODLAND COVER

Woodland cover has been classified in accordance with the requirements for topographic maps. Wooded areas are adequately covered by the field inspection photographs. Most of the swamp areas were designated as mangrovo.

7. SHORELINE AND ALCNGSHORE FEATURES

The mean high water line was inspected by walking along the beach and by examination from strategic points.

The shoreline, in places, was visited at low water. The distance from the mean low water line to the mean high water line was given at these points.

The foreshore is steep in some areas and flat in other areas.

Docks, wharves, piors, etc. are covered on the photographs.

There are no submarino cables.

8. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above water and the time and date have been noted on the photographs. Other heights of rocks were determined from shore. There are a few areas where it appears on the photographs that the water is breaking over an underwater growth or submerged rocks. These places will require investigation by the hydrographic party.

9. LANDMARKS AND AIDS

Landmarks and aids to navigation located by photogrammetric methods are shown on the contact prints. All others were located previously by triangulation and have not been disturbed.

Quite a few landmarks were selected, and since all were not inspected from seaward, the hydrographic party may need to delete those not thought to be of landmark value. All heights of new landmarks to be charted were determined. Heights of existing landmarks were determined and vorified where possible.

All landmarks and aids to be charted and deleted are adequately covered by Form 567.

10. BOUNDARIES, MONUMENTS, AND LINES

Boundaries were excluded by the project instructions.

11. OTHER CONTROL

Existing objects that are suitable for photo hydro control were identified on the field inspection photographs. These are shown on the photographs by three digit numbers beginning with 100. Not many objects were selected because of the scarcity of such. Many of the landmarks and aids will be suitable for photo hydro control.



12. OTHER INTERIOR FEATURES

All buildings and roads have been classified in accordance with project instructions dated 30 August 1961. It will be noted by looking at the photographs covering sugar cane areas that many open spaces appear to be roads. Only those open spaces that seemed permanent and well traveled were classified as roads.

Clearances were determined for the following bridges and are listed: (See photo 59-S-3927 for names of rivers)

Bridge	Hor. Clearance	Vert. Clearance		Date
<u>Bridge</u> Rio Santiago	17.3 ft.	4.7 ft.	10:25 AST	1 0- 6-61
Rio Blanco	26.9 ft.	5.1 ft.	10:30 AST	10-6-61
Rie Anton Ruiz	26.9 ft.	5.2 ft.	10:43 AST	10-6-61
Boca Prieta	18.9 ft.	5 .5 f t.	10:50 AST	10-6-61

13. GEOGRAPHIC NAMES

An investigation of geographic names was not required by the project instructions. Some discrepancies in the names of rivers were found. The names of rivers are shown correctly on the photographs.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Contact photographs and horizontal control data was forwarded to the Washington Office 3 October 1961.

Submitted 24 October 1961

Michael L. Olivier Chief, Photo Party 708



PHOTOGRAMMETRIC PLOT REPORT PUERTO RICO, EAST COAST PROJECT PH-6106 March, 1962

21. Area Covered:

T-12146;

T-12136 through T-12139; T-12141 through T-12148; T-12152 through T-12161.

22. Method:

Five stereoplanigraph bridges were run in order to provide pass points for Kelsh compilation of the project.

Strip #4 was adjusted on a linear basis. All other strips were adjusted on a least-squares basis on the IBM 650 computer. Satisfactory adjustments were obtained for all strips in the project.

23. Adequacy of Control:

The horizontal control provided complied with project instructions, and was adequate. The following control failed to hold in bridging:

 Δ PINERITA 2, 1941-SUB.PT. 2. This station had been designated as a poor image pt. at the time of bridging, and may safely be disregarded due to the proximity of other control that held in bridging.

24. Supplemental Data:

None

25. Photography:

The photography was adequate for the needs of aerotriangulation.

Submitted by:

R. E. Fuechsel

reclisal

Approved:

E. H. Rámey, Chief

Aerotriangulation Section

19. RID GRANDE CHUPCH 16. CAPE SAN JUAN 219.HT 18. PALMER (USOS) 1939-20. SANTA INEZ, 1902-(siss) 1934-508.142 17. LUQUILLO CH. (USGS) HOUSE, 1900 5UB. 1+2 543. 1+2 1934 1. GURYANES 2, 1923-548.142 11. FineRITE 2, 1941-508.1+2 G. COLCH (USAS) 1941-548.172 5. NAGUARO CH. (USGS) 1934 10. MONER, 1926 - 508. 1+2 2. CATATA, 1901-5UE. 1+2 7. LOMA 1941 - SUE. 142 8. HONOR 1941-568. 17-2. 3. PASTO VIETO ERSTERN 5454R 455W. WH. COM. 9. CREPAS 15. LT. 1941 4. HUMACAO PLAYA CH., PROSPET PH-6166 TRIMINGULATION 4861 (5551) STACK, 1941 FEB. 1962 D = NOT BRIDGED; PASS PTS. · = BRIDGED AREA PUERTO ST6112 7-12152 1-12/41 61 4 1736 7-12139 7-12/38 18 26 15 65 41 15 7-12153 18,27,15"



12. CHEKZA BE FERSO LT. 1923

13. FENEDO, 1941-548. 142

15. CHFE, 1901-548.142

MORTH STHOK, 1941

14. CENTRAL FATARDO

17 59 00





DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12159 PROJECT NO.	NO. PH-6106	SCALE	OF MAP 1:10,000 SCALE	FACTOR
STATION	SOURCE OF INFORMATION (INDEX)	ратим	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE FOI	N.A. 1927 - DATUM DISTANCE FROM GRID-OR PROJECTION LINE IN METERS ($I FL = 3048006 \text{ moter}$) FORWARD (DACK)
ALTURA, 1941		Puerto Rico	133 681.83 753 874.14	
LINEA, 1941	-	Puerto Rico	127 972.36	
LIMA 3, 1941		Puerto Rico	367	
BAHIA, 1941		Puerto Rico		
HAWACAGBEESTOWOHOUSE		Puerto Rico		
PUNTA, 1941	:	Puerto Rico	.	
NAGUABO CHURCH (USGS)		Purrto Rico	NORTH OF MAP LIMITS	
coron (usas), 1941		Fuerto Rico	133 428.40	
HUMACAO PLAYACHURCH (USGS), 1934		Puerto Rico		
SAN, 1901		Puerto Rico		(Field inspection report states "Island could not be visited"
			no form 526)	
сомрутер ву М. М. Slavney	DATE 12/19/61		CHECKED 3Y I. I. Saperstein 12,	12/19/61

(iz)H.

COMPILATION REPORT T-12159

PHOTOGRAMMETRIC PLOT REPORT

The stereo bridges were run in the Washington Office.

31. DELINEATION

The Kelsh plotter was used. The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs. Delineation was accomplished in two parts at different times. The delineation from approximate Longitude 65°41'15" westward was done in December 1961 from April 1959 "S" photographs, showing interior details in addition to shoreline. The details eastward of Longitude 65°41'15" were compiled in February 1962 from October 1961 "W" photographs.

The color photography was used as an aid for locating rocks, underwater features and shallow areas. The flight was offshore and missed the shoreline areas in the center of the manuscript.

Numerous shoreline pass points have been dropped as an aid to the photo-hydro party.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and low water line were delineated according to the field inspection, which was adequate. Several piers and rock ledges have been shown.

(13.)

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshere area for hydro	Dec. 1961 Feb. 1962	Superseded
Alongshore area revised from field edit. Manuscript complete	Nov. 1962	Superseded
FINAL REVIEW	FEB. AL8	

36. OFFSHORE DETAILS

The only offshore details are rocks and some mangrove.

37. LANDMARKS AND AIDS

Five landmarks and one aid to navigation have been reported on Form 567 and were submitted to the Washington Office December 29, 1961.

38. CONTROL FOR FUTURE SURVEYS

No marked topographic stations were established, but two natural objects were located by the Kelsh plotter and listed under item 49.

39. JUNCTIONS

Junctions have been made with T-12158 to the west; T-12153 to the east. No contemporary survey to the north or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS NACUABO quadrangle, scale 1:20,000, edition of 1957. The comparison is favorable.

Comparison has been made with C&GS topographic survey Nos. T-6876b and T-6882, scale 1:4,800; dated 1941 and planetable survey T-2540, scale 1:20,000, dated 1901. All surveys appear to be in fairly good agreement.



47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 923, scale 1:20,000, edition of August 3, 1929, revised August 18, 1958 and Chart 940, scale 1:25,000, edition of May 2, 1949, revised April 13, 1959. Both charts and manuscript are in agreement.

See item 49 concerning wreck southeast of Playade Humacao.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Cartographer (Photo)

APPROVED AND FORWARDED

Tampa District Officer

(16) 20 to.

FORM 182 (3-61)	50	P	ното	GRAMMETRIC OFF		Ų.	S. DEPARTMENT COAST AND GEO	
1. PROJECTION GRIDS MMS	N AND	2 TITLE			lobel Unclass	ified	3. MANUSCRIPT NUMBERS MMS	4. MANUSCRIP
CONTROL		ZONTAL CONTROL IGHER ACCURACY MMS	STATIO	NS OF THIRD-ORDER	THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX MARKS 9. PLOTTING OF SEXTANT 10. PHOTOGRAMMETRIC PLOT REPORT XX NEER LINE 14. ROCKS, SHOALS, ETC. 15. BRIDGES XX 18. OTHER ALONGSHORE PHYSICAL PEATURES MMS 21. NATURAL GROUND COVER MMS 23. STEREOSCOPIC INSTRUMENT CONTOURS XX 25. SPOT ELEVATIONS XX 36. JUNCTIONS MMS DISCREPANCY OVERLAY XX 37. DESCRIPTIVE REPORT XX 39. FORMS MMS SIGNATURE OF SUPERVISOR, BEVIEW SECTION OR UNIT TULLICATE A. WALLELLY A. WALLELY A. WALLE			
STATIONS	7. PHOT	O HYDRO STATIONS	1	NCH MARKS	FIXES	SEXTANT	PLOT REF	AMMETRIC
	17. DETA	MMS	<u> </u>					
ALONGSHORE	12. ѕноя	eline MS	13. LO	W-WATER LINE		S, ETC.		
(Nautical Chart Data)		TO NAVIGATION	_	17. LANDMARKS MMS		18. OTHE FEAT	URES	PHYSICAL
		er alongshore cu	ILTURA	L FEATURES				
	20. WATE	R FEATURES			21. NATURAL GRO	UND COVE	R	
	l I	ims			MMS			
PHYSICAL	22. PLAN	ETABLE CONTOUR	ABLE CONTOURS 23. STEREOSCOPIC INSTRUMENT CONTOURS XX RS IN GENERAL 25. SPOT ELEVATIONS					
PHYSICAL FEATURES	XX			XX				
	22. PLANETABLE CONTOURS XX XX 24. CONTOURS IN GENERAL 25. SPOT ELEVATIONS							
		XX			XX			
	26. OTHE	R PHYSICAL FEAT	JRES					
	27. ROAD	os .		28. BUILDINGS		29. RAIL	ROADS	
CULTURAL		MMS		MMS		MMS		
FEATURES	l .	R CULTURAL FEAT	TURES			_		
	31. BOUN	DARY LINES			32. PUBLIC LAND	LINES		
BOUNDARIES		XX			x	X		
	33. GEOG	RAPHIC NAMES				34. JUNC	TIONS	
- MISCEL- - LANEOUS		MMS				MMS	3	
i			SCRIPT	36. DISCREPANCY O	VERLAY	37. DESC	RIPTIVE REPOR	Т
		MMS		XX		MMS		
		d inspection pho MMS Jre of reviewer			MMS	PERVISOR	"REVIEW SECTIO	ON OR UNIT
40. FIELD COM	PLETION	ADDITIONS AND CO	RRECT	ONS TO THE MANUSC cript. The manuscrip	RIPT Additions and	Racure	ns furnished by	the field com-
SIGNATURE OF	·		toin	ten	SIGNATURE OF SU	PERVISOR		
	- J **		USE RE	VERSE SIDE FOR REM			TU 9C ON	M-DC 25353-P61

GEOGRAPHIC NAMES FINAL NAME SHEET

> PH-6106 (Puerto Rico) T-12159

Bahia Algodones

Bahia Lima

Boca Prieta

Corribean Sea" - Caribbean Sea Mar Caribe- Jaf X See

Cayo Santiago

* Hucares

Pasaje de Vieques

Playa de Humacao

Playa de Naguabo

Puerto de Humacao

Puerto Naguabo

Punta Lima

Punta Santiago

Rio Anton Ruiz

Rio Blanco

Rio Santiago

* San Luis

* Feature not delineated, name not used.

Approved by:

A. J. Wraight Chief Geographer

Prepared by

Frank W. Pickett Cartographic Technician

XX HOTE : The lost BEN decision was Corribean

Sea" (1944) . Mar Caribe is used

on noutical Charts SEB

49. NOTES FOR THE HYDROGRAPHER

No marked topographic stations were established but two natural objects were identified by the field inspector; they were located with the Kelsh plotter and are listed on Form 567 as landmarks.

OIL TANK Topo Stations; 3 other landmarks
SCHOOL HOUSE (S. Corner) are triangulation stations.

The field inspector furnished elevations for some of the numerous rocks he identified. The elevations of these rocks were shown substantially the same as the field inspector indicated, there being practically no tide. (Tidal bench marks in the area show 0.4 ft. of tide). The elevations of the rocks were verified as far as possible by the Kelsh plotter. See item 8 of Field Inspection Report.

No indication of the submerged wreck between the pier at Playa de Humacao and Cayo Santiago was given by the field inspector, nor could it be seen under the plotter. This wreck should be investigated by the hydro party.

Questionable offshore areas on the photographs which could not be interpreted by the Kelsh plotter have been outlined by a dashed line to be investigated by the hydrographer. U.S. DEPARTMENT OF COMMERCE ETIC SURVEY COAST AND G

Form 567 (10-15-58

MENNINGAGERIGE AND MARKS FOR CHARTS STRIKE OUT TWO TO BE CHARTED MARKET SERVICES

December 21, 19 61

Temps District Office

I recommend that the following objects which have (naturated) been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by charted on (tetratation) the charts indicated. 59-59-58-58-58

į		,						V. H	alph Sol	V. Kalph Sobieralski		niej	Cate of rarry.
STATE	(State state) Cate Can In				<u>.</u>	POSITION		,	METHOD			THAND	
	read the tent			LATITUDE *	*2	LONG	LONGITUDE #		LOCATION		13 BEC	энон	CHARTS
CHARTING	DESCRIPTION	BIGNAL	•	D. R.	D.M. METERS	•	D. P. METERS	DATUM	#URVEY No.	LOCATION			
SPIEC	hes 1/2(1/5)		101	97	133.1	3	31.5%	Fresto Hice	Paristy.	100	И	i	723 M. 917
	(Mineces Mays Chareh(CC) 11961)		1					-je					
STATE OF THE PARTY	Mr 29(52)		13 3	01	17.00	65 LA	126.5		•		M		
	(Hanney Custon Bours east gable	<u>.</u>											
SPTR.	br 66 (122)		82	21.5	70.EB	3	283.2		Teling Telizione	7	H		
	(Regrado Chereb (USC) 31936)												
	Trust at Flare de Benacae		92	88	57.61 1771	E &	1175	•	1-12159	5	K		=
	NG 45(47)												
SCHOOL S	School bream at Plata de Bareche		18	200	10.03	65 12	13.Co	•		•	H		
	bt= 19(52)												
										,	ļ	<u> </u>	
												 	
				+							\downarrow	\pm	
										:	•		
	-		_	_	-		_	_	_		_	_	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating sids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

USCOMM. DC 27126

U.S. DEPARTMENT OF COMMERCE ETIC SURVEY COAST AND G

Form 567

NONFLOATING AIDS GRAKANIBMARKS FOR CHARTS

TO BE CHARTED XXXXXXXXXXX

STRIKE OUT TWO

December 21. 19 61

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

Tames District Office

The positions given have been checked after listing by

							V. Kal	V. Kalen Colarator	raler!	٥	niej oj	Chief of Farty.	
TATA					POSITION			METHOD			TRANS		
	Car Carc		1	LATITUDE:	LONG	LONGITUDE #		LOCATION	DATE	0 2 EN		CHARTS	
CHARTING	DESCRIPTION	BIGNAL	•	D. M. METERS	•	D. P. MEYENS	DATUM	BURVEY No.					
3 6	POSED DO BURGOS										<u> </u>		
LICHT	BOGS PRISTS		18 10	12.95 390	43 SS	25.36 75.36	ei ei	Toto FI S-12159	Figure Flot Oct. z	· M	20	723 911 938 911	
		,						<i>1</i> b					
											-		.#
											 		
											-		_
											_		
													
													(2
													م ه.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

USCOMM-DC 27126

15h

FUELD EDIT NOTES OPR 423-1962 USCEGS Ship EXPLORER

All field edit notes have been delineated on the mylar T-Sheets. In general, the only discrepancies found were differences in the delineation of the mean high water line along sand beaches. These discrepancies were resolved with distance measurements from the hydrographic signals to the mean high water line. The azimuth used was a perpendicular line from the mean high water line to the respective signal. Each T-Sheet is discussed separately below with a listing of the necessary photos.

T-12160 - Mean high water line revision in area of "BED" appears necessary. Rock height revisions necessary in the following areas: HER, LOG, FOX, AND DIX.

Photos - 5953933, and 3932.

T-12158 - Mean high water line revision along entire beach line appears necessary.

Photos - 5953931, 3930, 3929, and 3928.

T-12159 (2 copies) - Mean high water line revision in area of DUM to ABI. Rock height revisions in the following areas: HUG, GEO, and WIG. Photos - 5983927, 3926, and 61W1676.

T-12153 - Rock height revision in area of JIM. Photos - 61W1678 and 1679.

T-12155 - Rock height revision in area of GUT. Photos - 61W1559 and 61W1560.

T-12156 - Rock height revisions in the following areas: EVA (2), KEN, and CRY.

Photos - 61W1584 and 1585.

T-12154 - Pier revision at OIL. Photos - None

T-12157 - None

All T-Sheets, since they contain final locations of hydrographic signals, must be returned to this command as soon as possible as they are needed to plot hydrographic smooth sheets.

Respectfully submitted: 10 September 1962

Kledel T. Wirth

LT, C&GS

Forwarded Approved:

Lamind L. Jones

CAPT, C&GS

Comdg., Ship EXPLORER

REVIEW REPORT T-12159 SHORELINE February 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this report.

An ozalid Comparison Print (pages 20 through 23), which shows the differences noted in Items 62 through 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey 6876b; 1:4,800; Dec. 1941 Registered Survey 6881; 1:4,800; Dec. 1941 Registered Survey 6882; 1:4,800; Dec. 1941 Registered Survey 4323; 1:20,000; Feb. 24, 1927

Differences with this survey are shown on the Comparison Print in blue, as are the limits of surveys 6876b, 6881, and 6882, and where 4323 was used.

Shoreline differences with the 1:4,800, 1941 surveys are minor, the largest about 15 meters in Bahia Lima. The pier and boathouse at latitude 18 11.1', longitude 65° 41.83' are new since 1941; otherwise these surveys are in good agreement with T-12159.

Survey 4323 shows shoreline differences to 50 meters; the most serious are:

- 1.0 The shape and extent of the point at lat. 18° 11.08, long. 65 42.50 (page 21).
- 2. The shoreline of Cayo Santiago and the islet southwest of Cayo Santiago on 4323 are correct on T-12159.
- 3. The shoreline at latitude 18° 11.3', longitude 65° 42.7'; and at Playa de Humacao(pages 2/23).

This survey supersedes the previous registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

NAGUOBO, P.R.: U.S.G.S. quad; 1:20,000; 1943, revised 1957.

The quadrangle is in fair agreement, the largest differences in shoreline are about 40 meters are at Punta Santiago, at Cayo Santiago, and at the mouths of the rivers. The quadrangle details are on the Comparison Print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET EX 10-1-62 (H-8637); 1:10,000; 1962 BOAT SHEET EX 10-2-62A,B,&C(H-8638); 1:10,000; 1962

The boat sheets made no shoreline changes, but did add some rocks, change others rock classifications, added some "foul areas" etc.; all of which are shown on the Comparison Print of green.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 923; 1:20,000; 3rd edition, May 9, 1966 Chart 940; 1:25,000; 6th edition, July 25, 1966

These are some shoreline differences to 40 meters, some additional rocks and rock discrepancies, rock ledges, and river changes; all of which are shown in red on the Comparison Print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements and the National Standards of Map Accuracy. The only accuracy tests were measurements to the shoreline during field edit.

Reviewed by:

m. m. Diavne

Approved by:

J. Bull, RADM, USESSA

Director, Atlantic Marine Center

Approved by:

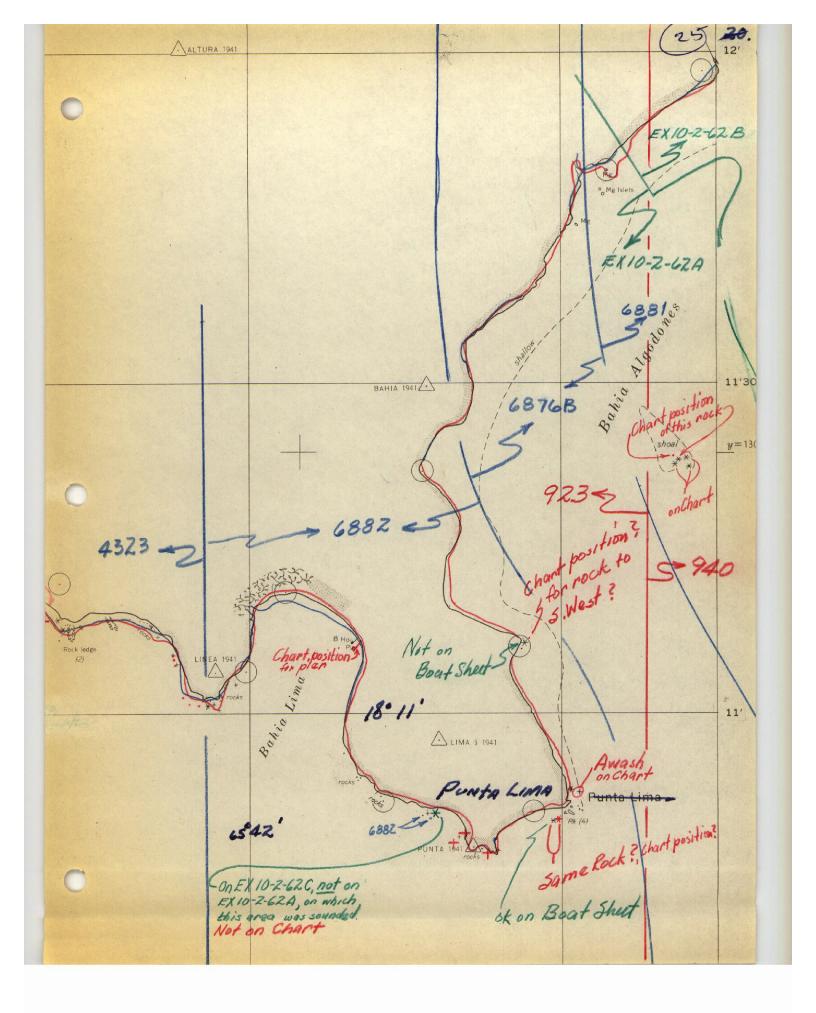
Chief, Photogrammetric Branch Ass

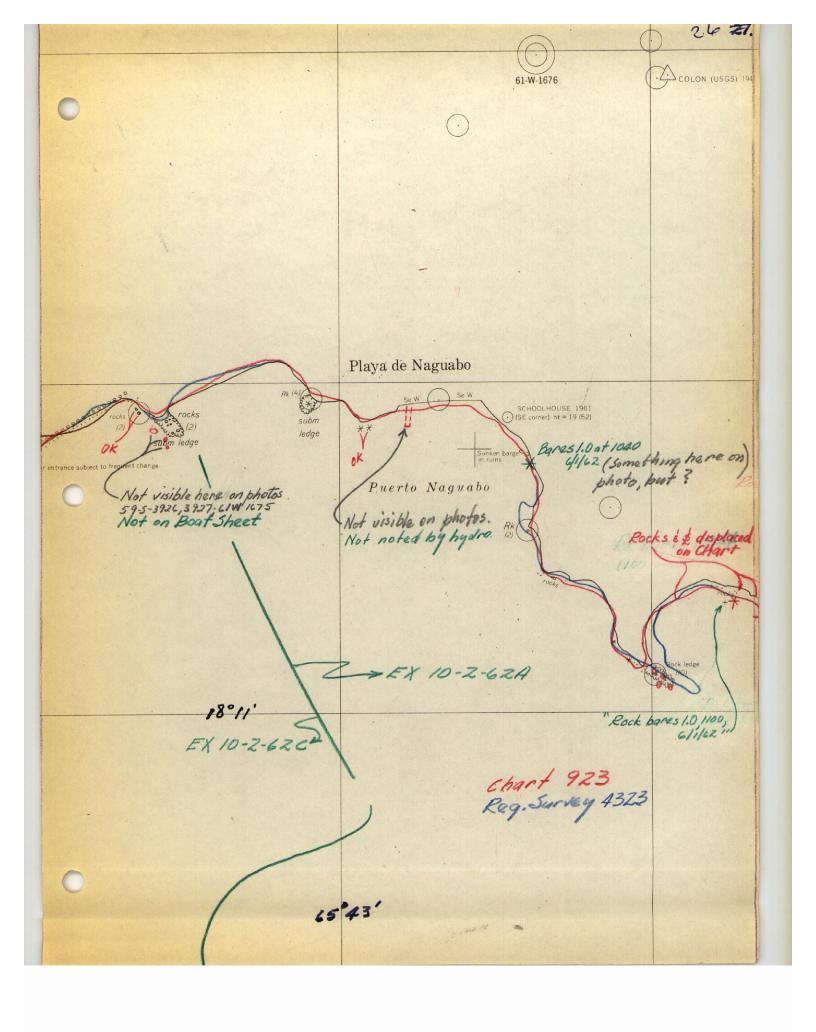
Chief, Photogrammetry Division

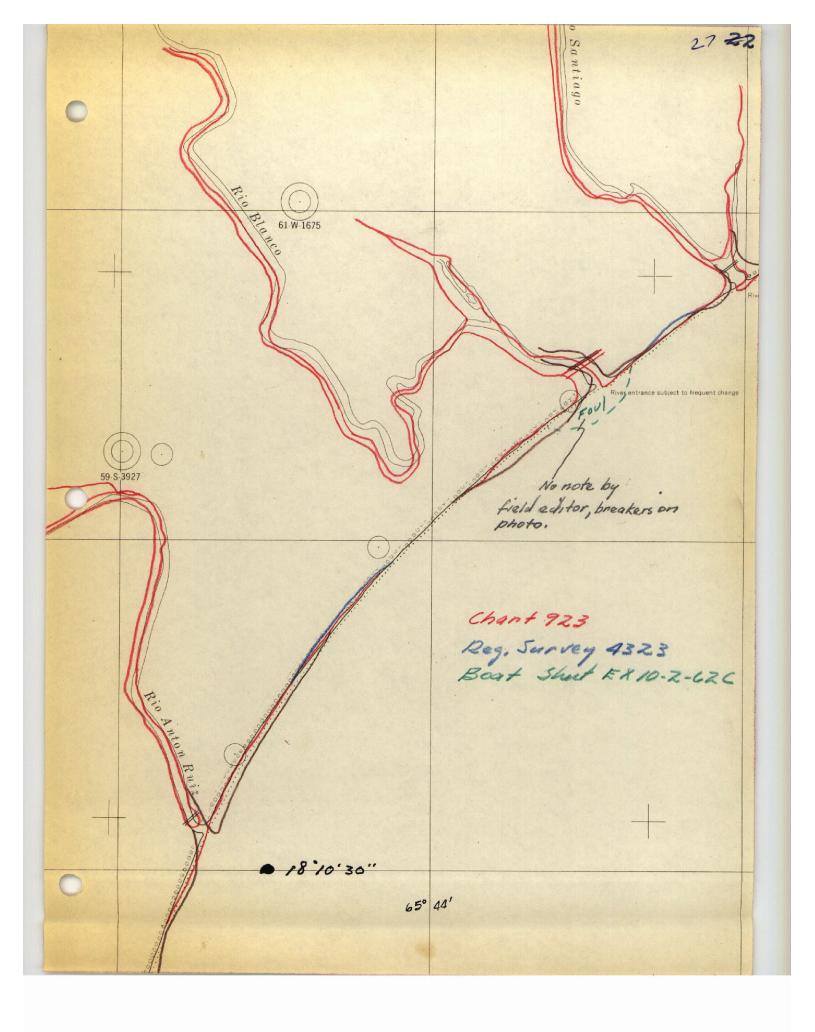
. 1968

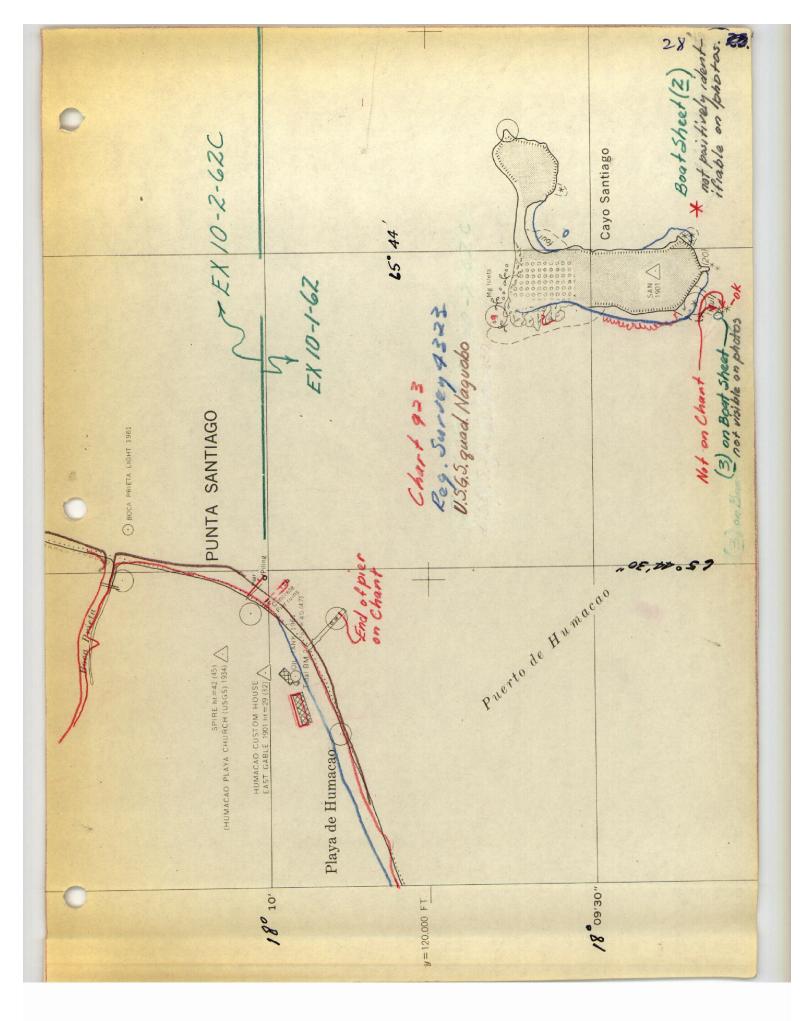
NOTES TO VERIFIER T-12159, Project PH-6106 BOAT SHEETS EX-10-1-62 and EX-10-2-62A,B, and C

Please note Items 62, 64, and 65, and the Comparison Print (pages 20 through 23) of the Descriptive Report.









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
923	1/1/73	J. Sherman	Full Part Believe After Verification Review Inspection Signed Via
<u>-</u>	1.7		Drawing No. Ad equotily appld
940	7/14/74		Full Part Before After Verification Review Inspection Signed Via
			Drawing No. adequately apply
940	1/21/21	Judel Kort	Full Part-Before After Verification Review Inspection Signed Via
	7/66/14	10 24001 400 1	Drawing No. 940 12 , A DEQUARELY APPLO
0.7	ababa	Pille 1 h. to	Adequately Applied & field
917 (25163)	<u> 114 [] [] </u>	Richard Naito	Full Part Before After Verification Review Inspection Signed Via Drawing No. 19
			Adequately Applied 2 field
922	<u>9 24</u> 74	Gush Korl	Eull Part Before After Verification Review Inspection Signed Via Drawing No. 12
201	.J. 1. 1		Adequately Appld and Field
.904 (25650)	115174	R. Naite	Prost Practice After Verification Review Inspection Signed Via Drawing No. 2-5
. 50007			
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	·		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		- 10 1	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	-		
			257
			
			<u> </u>