12160

Original



U. S, DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE	
Field No. Office No. T-12160	······
LOCALITY	
State PUERTO RICO	
General locality EAST COAST	.,
Locality RIO HUMACAO TO PLAYA DE GUAYAN	ES
1959-1962	
CHIEF OF PARTY	
M. L. Olivier, Photo Party 708 V.Ralph Sobieralski, Tampa District Of:	fice
LIBRARY & ARCHIVES	

: 1 JUL 1968

USCOMM-DC 508

DESCRIPTIVE REPORT - DATA RECORD

T-12160

Project No. (II): PH-6106

Quadrangle Name (IV):

Field Office (II): Puerto Rico

Chief of Party: M. L. Olivier

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: V. R. Sobieralski

Instructions dated (II) (III): Field & Office: Aug. 30, 1961

Copy filed in Division of Photogrammetry (IV)

AMENDMENT: Field & Office - Jan 15, 1962 *

* Interior planimetry restricted to those features useful to photo hydro support.

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

APRIL 13, 1968

Date:

Date registered (IV):

Publication Scale (IV):

Applied to Chart No.

Publication date (IV):

Geographic Datum (III): Puerto Rico

Mexican and wat except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Vertical Datum (III): MHW

Reference Station (III):

GUAYANES 2, 1923

Lat.: 18°03'48.111(1479.1 m) Long.: 65°48'22.554(663.3 m)

Adjusted DESCRIPTION OF THE PROPERTY OF

Plane Coordinates (IV):

State: Puerto Rico

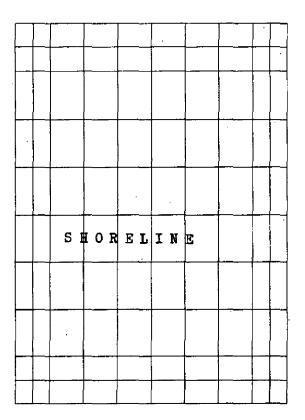
Zone: 1

83,898.29

x= 717,803.44

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel
(Show name within area)
(II) (III)
Inapplicable

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): M. L. Olivier

Date: Oct. 1961

Planetable contouring by (II):

Inapplicable

Date:

Completion Surveys by (II): G.F.Wirth

Date: Sept. 1962

Mean High Water Location (III) (State date and method of location):

Field Inspection Oct. 1961

Projection and Grids ruled by (IV): A. R. (W.O.)

Date: Nov. 1961

Projection and Grids checked by (IV): A.R. (W.O.)

Date: 17

Control plotted by (III): V. P. Cackowski

Date: Dec. 1961

Control checked by (III): I. I. Saperstein

Date: Dec. 1961

FRANCESCOSE Stereoscopic

Control extension by (III): Washington Office

Date: Nov. 1961

Planimetry

R. J. Pate

Date: Dec. 1961

Stereoscopic Instrument compilation (III):

XXXXXXXXXXX

Date:

Manuscript delineated by (III): R. J. Pate

Date: Dec. 1961

of compilation
Photogrammetric Office Review by (III): M. M. Slavney

Date: Dec. 1961

Elevations on Manuscript

checked by (II) (III):

Inapplicable

Date:

DESCRIPTIVE REPORT - DATA RECORD

Wild "S" Camera (kind or source) (III):

		PHOTOGRAPHS (III)	
Number	Date	Time	Scale
59-S-3931	Apr. 18, 1959	11:25	1:30,000
n n 3932	11 11 11	11:26	11
" 3933	11 11 11	. 11	11
" 3934	11 11 / 11	11:27	II .
62.5(6)224-225	Fab 15 1962	0945-0946	1:10000
" 239 - 241		0952 -0953	
9750 -975	1 11 6 11	1615	
11 119766-976		1622	41

Stage of Tide

Tidal BM nearby gives 0.4 ft. for M.H.W. so tide seems negligible

Nearest sub-ordinate station is at Bahia Mulas, Isla de Vieques, about 21 miles away. See "Stage of Tide" above.

Reference Station: Subordinate Station:

Subordinate Station:

Atlantic Marine Center Washington Office Review by (IV):

n. n. Slavney

Final Drafting by (IV): J. Honick (Tampa District Office) Final Drafting Regiewed by: W. H. Shearouse (Tampa) Drafting verified for reproduction by (IV):

Ratio of Mean | Spring Ranges Range

Date: 7400ch 1968

Date: Nov. 1962 Nov. 1962

Date:

Date:

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III): 7.6 Linear St. Miles

Smoretnes conecciones a contrata de la contrata del contrata del contrata de la contrata del contrata del contrata de la contrata del contrata dela

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II): 2*

Number of BMs searched for (II): 0

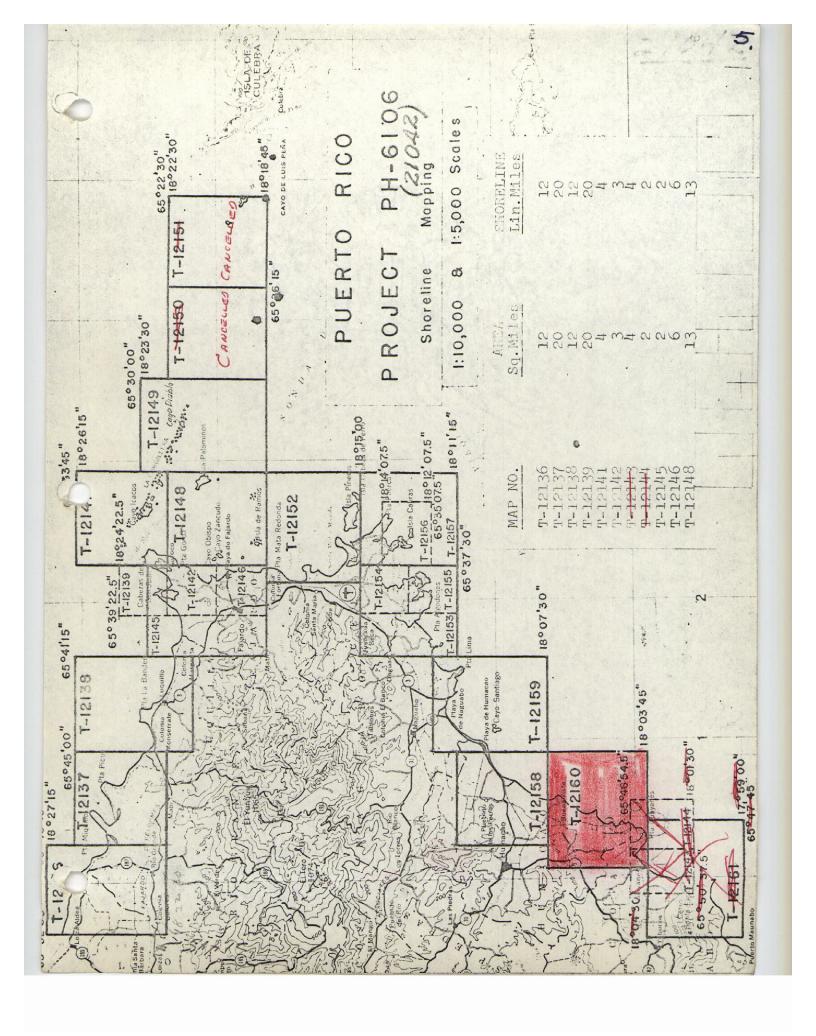
Number of Recoverable Photo Stations established (III): 1 Number of Temporary Photo Hydro Stations established (III): 0 Recovered: 2*

Recovered:

Identified: 2 Identified:

Remarks: * A third station that falls in T-12161 which joins this map on the south, was searched for and recovered.

Field edited by G.F. Wirth - Sept. 1962



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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12160

Shoreline manuscript T-12160 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 five maps of this project, now cancelled; 1:5,000 scale maps T-12143 and T-12144, and 1:10,000 scale maps T-12150, T-12151, and T-12161.

The delineation of T-12160 was carried about 15" (seconds) south of its prescribed southern border with T-121h3, T-121h4 and T-12161 to provide shoreline control in the area offshore Playa de Guayanes. This seemed desirable during compilation and is retained on this map for registry in view of the cancellation of the three maps south of T-12160. 1962 color photographs, 1:10,000 scale, were used for some revisions and additions south of latitude 18° 05' during final review. Photographs were 62-S(c)-22h thru 229, 239 thru 241, 9750, 9751, 9766 and 9767.

This is a stereo instrument project in advance of hydrographic surveys of the area. Field work preceding compilation consisted of control identification on contact prints and field inspection on 1:10,000 ratio prints of the 1:30,000 scale April 18, 1959 "S" panchromatic photographs. The stereo bridge was run in the Washington Office. Compilation was by Kelsh Plotter using diapositives of the April 18, 1959 photographs. Ratio prints at 1:10,000 scale were processed and furnished for hydrographic support.

The manuscript was field edited in September 1962 in conjunction with hydro-support. The field edit was done on a cronaflex "T" sheet, which was to be returned to the ship. An ozalid print was made from the field edit "T" sheet and the field editor's notes were underscoped in red; this print was used in final review.

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

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

-7-

2. AREAL FIELD INSPECTION

These shoreline sheets are located on the southeasterly side of Puerto Rico. The area is rural except for two beach resorts. The shoreline area is very undeveloped.

Field 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 shoreline areas around the mouths of streams had changed since photography. These changes are shown on the photographs in violet ink.

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

3. HORIZONTAL CONTROL

All Coast and Geodetic 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 breeding ground for monkeys. Nobody 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; COLON, 1941; and NAGUABO CHURCH, 1934.

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

A. 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 mangrove.

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, piers, etc. are covered on the photographs.

There are no submarine 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 verified 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)

<u>Bridge</u>	Hor. Clearance	Vert. Clearance	Time	Date
Rio Santiago	17.3 ft.	4.7 ft.	10:25 AST	10-6-61
Rio Blanco	26.9 ft.	5.1 ft.	10:30 AST	10-6-61
Rio Anton Ruiz	26.9 ft.	5.2 ft.	10:43 AST	10-6-61
Boca Prietā	18.9 ft.	5.5 ft.	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:

A 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

Fuederal

Approved:

E. H. Rámey, Chief

Aerotriangulation Section

1. ONUAYAMES 2, 1923-308.1+2 16. CAPE SAN JUAN 219.47 19. AIO GRANDE CHURCH 18. PALMER (USOAS) 1939-20. SANTA INEZ, 1922-17 LUQUILLO CH. (USG. S.) (8605) 1934-5UB. 142 HOUSE, 1900 SUE. 1+2 548. 1+2 12. CHERZH OR FLOTO LT., 1923 11. PHERITA 2, 1941-500.172 6. COLON (USGS) 1941-508.1+2 13. FENECO, 1941-508. 142 5. WIGUIRO CH. (USBS) 1934 10. MUNIOC, 1926 - 5UB. 1+2 2. CATATA, 1901-548. 142 15. CAFE, 1901-508. 1+2 7. LCMA 1941 - 5UB. 142 8. FENDA 1941- 548. 172 3. ABSTO VIETO EASTERN SUGAR ASSIN WAY, COM. ACATH STACK, 1941 9. CABRAS 15. 2T., 1941 14. CENTRAL FATHROD 4. HUMACAO PLAYA CH., PROSECT PH-6166 (USGS) 1934 STACK, 19.41 FEB. 1962 - NOT BRIDGED; PASS PTS. PROVIDED FOR KPLSH USE = NOT EKIDGED BUF 10 INADERVATIE OVERSLAP PUERTO, - = BRIDGEO AREA 7-12/48 576112 7-12152 7-12/41 151 V 1736 7-12139 65 41 15 7-12/38 18 26 15 7-12153 1-12159 50 595 2725 T-12160 17 59 00 ,8,51,12, 4 es 47 45 ν₁₉)

MAP T- 12169 PROJECT NO.	-Hd	SCA SCA	6106 scale of MAP 1:10.000	
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	TUDE OR Y COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 PL = 3048005 moter)
BATATA, 1901	라 또	Puerto Rico	103 669.45 729 829.69	FORWARD (BACK)
GUAYANES 2, 1923		Puerto		
0		Rico Puerto Rico	717 803.44 833 475 (IN T-12161,	61, TO THE SOUTH)
YABUCOA (USGS) 1944			710 992	
	*			
				10
OMPUTED BY M. M. Slavney	DATE 12/19/61	CH	снескер ву I. I. Saperstein	рате 12/19/61

COMPILATION REPORT

PHOTOGRAMMETRIC PLOT REPORT

Stereo bridge was run in the Washington Office, pages 8:9.

31. DELINEATION

The Kelsh Plotter was used. The field inspection was generally adequate, and no difficulty was encountered in the interpretation of the photographs with the exception of the areas mentioned in Item 36.

Numerous shoreline pass points have been dropped as an aid to the photohydro party.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Perennial and some intermittent streams and main ditches were shown.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline, low-water line and alongshore details were delineated in accordance with characteristic areas shown by the field inspection, which was generally adequate.

36. OFFSHORE DETAILS

Rocks and rocky areas lie offshore from Morro de Humacao south to Playa de Guayanes. Some were noted by the field inspector, others that were positively seen on the plotter are shown. Some areas are noted for investigation by the hydrographer.

37. LANDMARKS AND AIDS

No non-floating aids was located and a form 567 is submitted. One landmark, TOWER (on Cayo Batata) is submitted for "deletion" on Form 567.

Ink changes by day 1-3-62.

38. CONTROL FOR FUTURE SURVEYS

One (1) photo-hydro station was identified by the field inspector and located by the compiler. It is listed under Item 49.

39. JUNCTIONS

Junctions have been made with T-12158 to the north and T-12161 to the south. T-12161 has not been compiled but our diapositive coverage enabled us to delineate the north 20 seconds of latitude for T-12161, which is shown on the border of T-12160. There are no contemporary surveys to the east or west.

LO. HORIZONTAL AND VERTICAL ACCURACY

No statement.

L6. COMPARISON WITH EXISTING MAPS

None available at this time.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 918 scale 1:10,000 edition of Apr. 14, 1938 revised Feb. 6 1961; and with chart 923 scale 1:20,000, edition of Aug. 3 1929 revised Aug. 18, 1958.

Comparison with chart 918 reveals shoreline changes from Punta Icacos south to Rio Guayanes. Some near the mouth of Rio Guayanes seem to be changes that can be ascribed to time, but differences in the position of rocky bluff shoreline seem to be differences in the surveys. Some small rocks, just offshore on chart 918 were not noted by the field inspector and under the plotter they appeared contiguous to the shore.

Comparison with chart 923 is generally favorable, there have been some changes at the mouth of Rio Humacao.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

For R. J. Pate Carto-photo Aid

APPROVED AND FORWARDED:

william a Rasure for V. Ralph Sobieralski Tampa District Officer COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	December 1961	superseded
Alongshore area revised from		
field edit	November 1962	Superseded
Manuscript complete	November 1962	superseded
Some revision & additions from 1962 "S" color photographs during Final Review	March 1968	

June 3, 1968

GEOGRAPHIC NAMES FINAL NAME SHEET PH-6106 (Puerto Rico) T-12160

Caballo Blanco

· Cayo Batata

Carribean Sea Mar Caribe * Seo below

Morro de Humacao

Punta Candalero

Punta Fraile

Punta Icacos

Rio Humacao

Part of T-1216| shown on this sheet:

Cano Santiago

Playa de Guayanes

Punta Guayanes

Rio del Ingenio

Rio Guayanes \$ 7-12160

Approved by:

A. Foseph Wraight

Chief Geographer

Prepared by:

Frank W. Pickett

Cartographic Technician

* Note: the last GNB Decision - 1944 - Was "Carribean Sea". Mar Caribe is used on nautical aborts 56B

49. NOTES FOR THE HYDROGRAPHER

One photo-hydro station (number 104) was established.

Several offshore areas have been shown as questionable. The existance of rocks in these areas could not be positively ascertained from the photographs and will have to be investigated by the hydrographer.

The range from the Puerto Yabucoa daybeacons was not ascertained because no "point on range" was identified by the field inspector. The azimuth of this range will have to be determined by the hydro party.

U.S. DEPART

NT OF COMMERCE CODETIC SURVEY COAST AND

NONFLOATING AIDS GECKERIGHMANKES FOR CHARTS Photogrammetric Review Branch

STRIKE OUT TWO

TREEDECKEE TO BE CHARTED

December 28 1961

Tampa District Office

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

M. M. Slavnoy

The positions given have been checked after listing by

							13.	:1111am A. Rasure	Sastire	C	Chief of Party.
STATE	STEP OF STEO	İ			POSITION			METHOD	1		ТЯАНЭ
	nam office		3	LATTUDE #	LONG	LONGITUDE		LOCATION	DATE	0 B CH	CHARTS
CHARTING	DESCRIPTION	BIGNAL	, (A	" D.M.METEBS	, ,	" D.P. METERS	DATUM	BURVEY No.	LOCATION		
j	EAST COAST	J. Br	.								
	EDERTO YABICOA	a A							,		•
DAYBEACOR	RANGS REAR		18 03	1418 16.12	65 h9	900 32.85	P.R.	Photo 1-12160	0et. 1961	M	20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0
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DAYBACON	RANGE FROME M	2	18 03	1289	65 1,9	801 27.24	•	15121-1	Þ	×	P 42
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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

COAST AND

Photogrammetric Review Branch

NONFIGORITMG ALDS OR LANDMARKS FOR CHARTS

TOBERENISTERS STRIKE OUT TWO TO BE DELETED

Tampa District Office

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

The positions given have been checked after listing by

B. E. Slaves

į							Y.B	V.R.Schlerelahl	Maki	S	ief of	Chief of Party.
STATE	FUSATO RICO				POSITION			METHOD		THAI	TAAHS	
			TA.	LATITUDE	LONG	LONGITUDE +		LOCATION	DATE	HD 32		CHARTS
CHARTING	DESCRIPTION	BIGNAL		D.M. METERS	•	" D.P. METERS	DATUM	SURVEY No.	LOCATION	OHSHI	H3440	
										-		
TOTION	Tour on Cayo Batata (Gone)	j	18 07.1		65 16.		G.	P.R. 9-19160	Oct.	-	0.0	906
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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.

FORM 182 (3-61)	PHOTOGRAMMETRIC OFFICE REVIEW U.S. DEPARTMENT OF COMMERCIAN COAST AND GEODETIC SURVEY						
1. PROJECTION GRIDS	ļ	T- 121 4a Classification label 1	unclassified	3. MANUSCRIPT NUMBERS MMS	4. MANUSCRIPT SIZE MMS		
	5. HORIZONTAL CONTROL OR HIGHER ACCURACY	STATIONS OF THIRD-ORDER		HORIZONTAL STATIONS (ACCURACY (TOPOGRAPHIC			
CONTROL STATIONS	7. PHOTO HYDRO STATION	IS 8. BENCH MARKS	9. PLOTTING OF S	EXTANT 10. PHOTOGR			
	MMS	XX	XX	xx			
	MMS	,	•				
AL OUSSUADE	12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOAL	S, ETC. 15. BRIDGES			
ALONGSHORE AREAS	MMS	MMS	MMS	XX			
(Nautical Chart Data)	16. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE FEATURES MMS	PHYSICAL		
	19. OTHER ALONGSHORE C	ULTURAL FEATURES					
	20. WATER FEATURES		21. NATURAL GROU	JND COVER			
Buyara	MMS	•	MMS				
PHYSICAL	22. PLANETABLE CONTOU	RS	23. STEREOSCOPIC	INSTRUMENT CONTOUR	5		
	24. CONTOURS IN GENERAL	-	25. SPOT ELEVATION		•		
	XX		XX		•		
	26. OTHER PHYSICAL FEATURES						
	27. ROADS	28. BUILDINGS		29. RAILROADS			
CULTURAL FEATURES	MMS.	MMS		MMS			
	30. OTHER CULTURAL FEA	TURES					
	31. BOUNDARY LINES		32. PUBLIC LAND I	-INES			
BOUNDARIES	XX		XX				
	33. GEOGRAPHIC NAMES	,	-	34. JUNCTIONS			
MISCEL- LANEOUS	MMS			MMS			
	35, LEGIBILITY OF THE MAN	USCRIPT 36. DISCREPANCY O	VERLAY 37. DESCRIPTIVE REPORT MMS		т		
	38. FIELD INSPECTION PHO	DT OGRAPHS	39. FORMS	MMS			
A piet a com	M. M. Slavne	M.Slasny	William A. H	PERVISOR, REVIEW SECTION Q - Casus	۷		
o. FIELD COM pletion sur	vey have been applied to the	ORRECTIONS TO THE MANUSCRIP e manuscript. The manuscrip	RIPT-Additions and of is now complete ex	corrections furnished by	the field com- on reverse side.		
SIGNATURE OF	I.I.Saperste	saperolen -	M.M.S.	ney ~			
•		USE REVERSE SIDE FOR REM	<u> </u>	'''	M-DC 28353-P61		

FIELD EDIT NOTES OPR 423-1962 USC&GS 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 DUN to ABE. Rock height revisions in the following areas: HUG, GEO, and WIG. Photos - 5953927, 3926, and 61W1676.

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

T-12155 - Rock height revision in area of CUT. 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

Seoget Truth

George F. Wirth

LT, C&GS

Forwarded Approved:

Edmund L. Jones

CAPT. C&GS

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Comdg., Ship EXPLORER

REVIEW REPORT T-12160 SHORELINE March 1968

61. GENERAL STATEMENT:

See Summary accompanying the Descriptive Report (page 6).

An ozalid Comparison Print (pages 23 thru 26) showing the differences noted in Items 62 through 65, is included with the original copy of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey 4323; 1:20,000; 1927 Registered Survey 2540; 1:20,000; 1901

Differences with T-12160 are on the Comparison Print in blue.

- 1. The islands at latitude 18° $0l_4.8^{\dagger}$, off Punta Fraile, see page **24**, and at latitude 18° $0l_4.22^{\dagger}$, off Punta Icacos, see page **25**.
- 2. Shoreline changes of up to 70 meters at Punta Fraile and Punta Icacos, pages **24** and **25**.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

PUNTA GUAYANES, P.R.; U.S.G.S. quad; 1:20,000; 1943, revised 1960.

The quadrangle differences are on the Comparison Print in brown.

1. The differences in position, to about 80 meters, appear due to a datum shift. The quadrangle details fall south of the positions on T-12160, see pages 23 thru 26/

2. The quadrangle gives the highest point on Cayo Batata as 12 meters. The elevation, 12 feet, on the original compilation of T-12160 was not changed or noted by the field editor.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET EX-10-1-62 (H-8637); 1:10,000; 1962

The boat sheet did not show any shoreline changes; but did show rocks and other details that are on the Comparison Print in green, see pages 23 thru 25.

A careful examination was made of the 1959 photographs, 59-S-3931 through 3934 and transparencies of the 1962 1:10,000 photographs 62-S(c)-224 through 229, 239 through 241, 9750, 9751, 9766 and 9767,... to office identify the rocks and other details shown on the Comparison Print. In some places, the rock has been classified differently on T-12160, see pages 23 and 16. Several rocks on the boat sheet could not be identified on the photographs. No reference was made to these details by the field editor.

There is no contemporary hydrographic survey southeast of EX-10-1-62.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 918; 1:10,000; 4th Edition; Jan. 31, 1966 Chart 923; 1:20,000; 3rd Edition; May 9, 1966 Chart 904; 1:100,000;12th Edition; June 19, 1967

No Comparison was made between latitudes 18° 02.5' and 18° 06.6'. This area is covered only by Chart 904, and the scale precludes detailed comparison.

The other chart differences with T-12160 are shown on the Comparison Print, pages 23 through 26, in red. Also on this Comparison Print are notes pertaining to these differences:

- 1. The elevation, (12), on Cayo Batata on T-12160 given as 10 feet on Chart 923. No note was made by the field editor, and the original T-12160 elevation was from the inspection. It is noted that the USGS quadrangle gives the islands topcelevation of 12 meters, see Item 63.
- 2. Three rocks awash on the chart near Cayo Batata, see page 23, are not visible on the photographs and are not noted on the boat sheet.
- 3. The Comparison Print, pages 23through 26, show rocks on the chart not visible on the photographs, some rocks on T-12160 not on the chart, and in some cases what appear to be differing positions of shoreline, rocks, and islets.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements, and the National Standards of Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

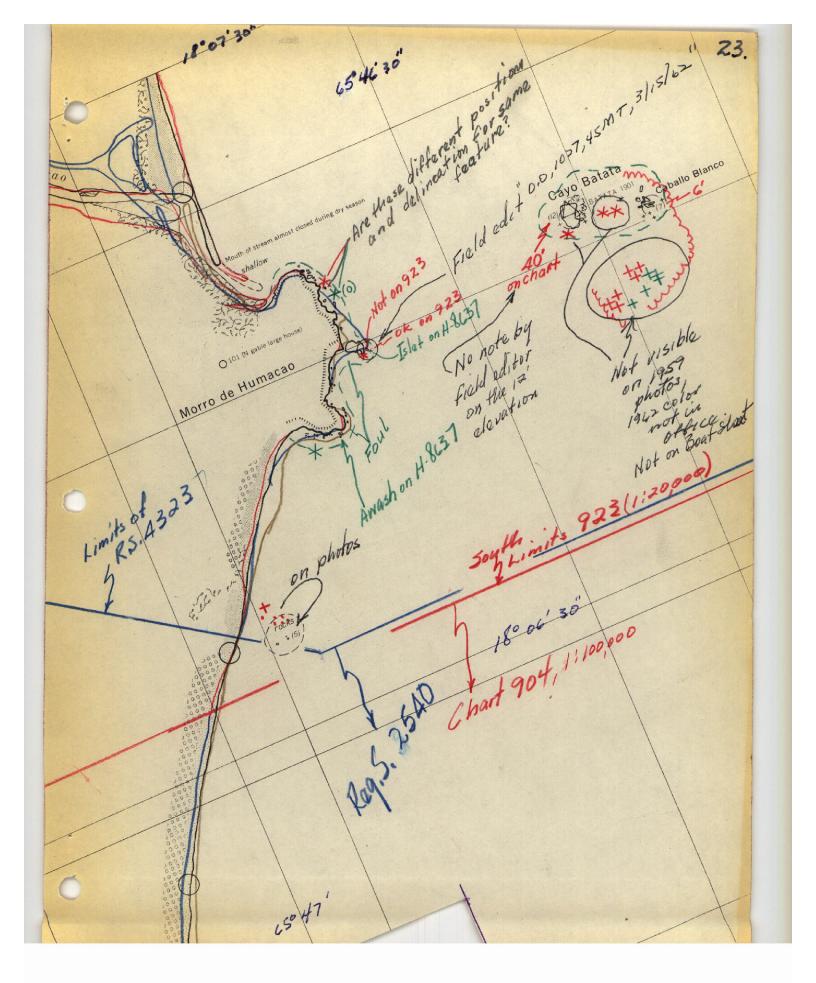
Cartographer

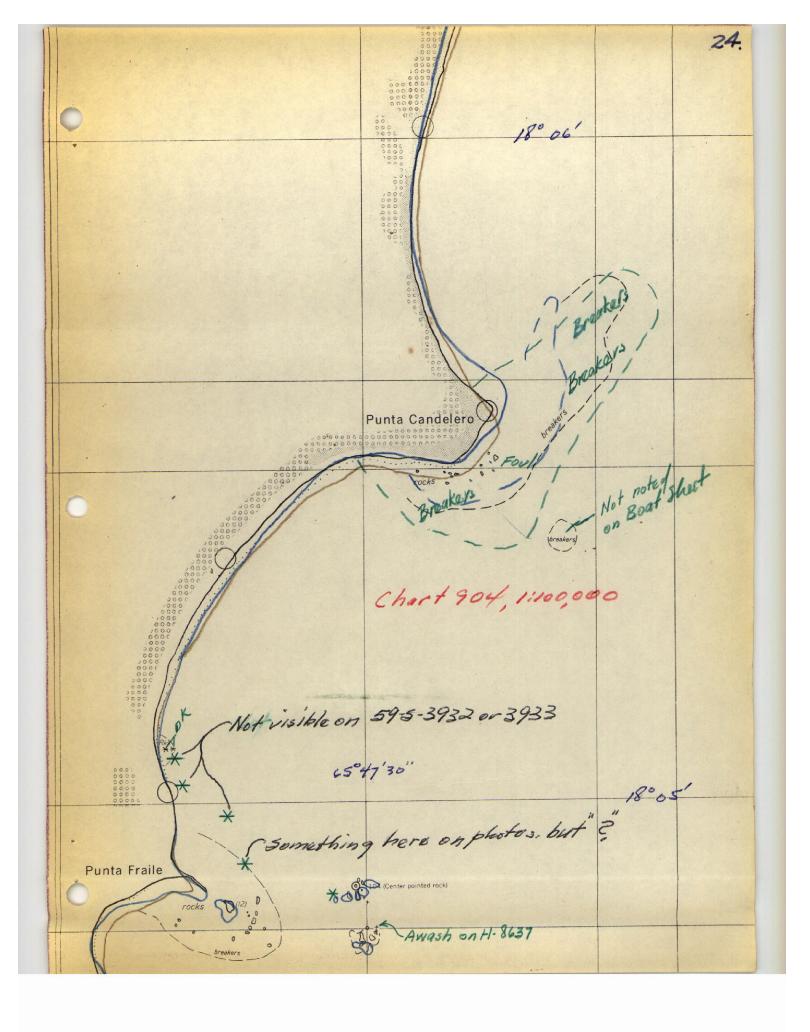
Approved by:

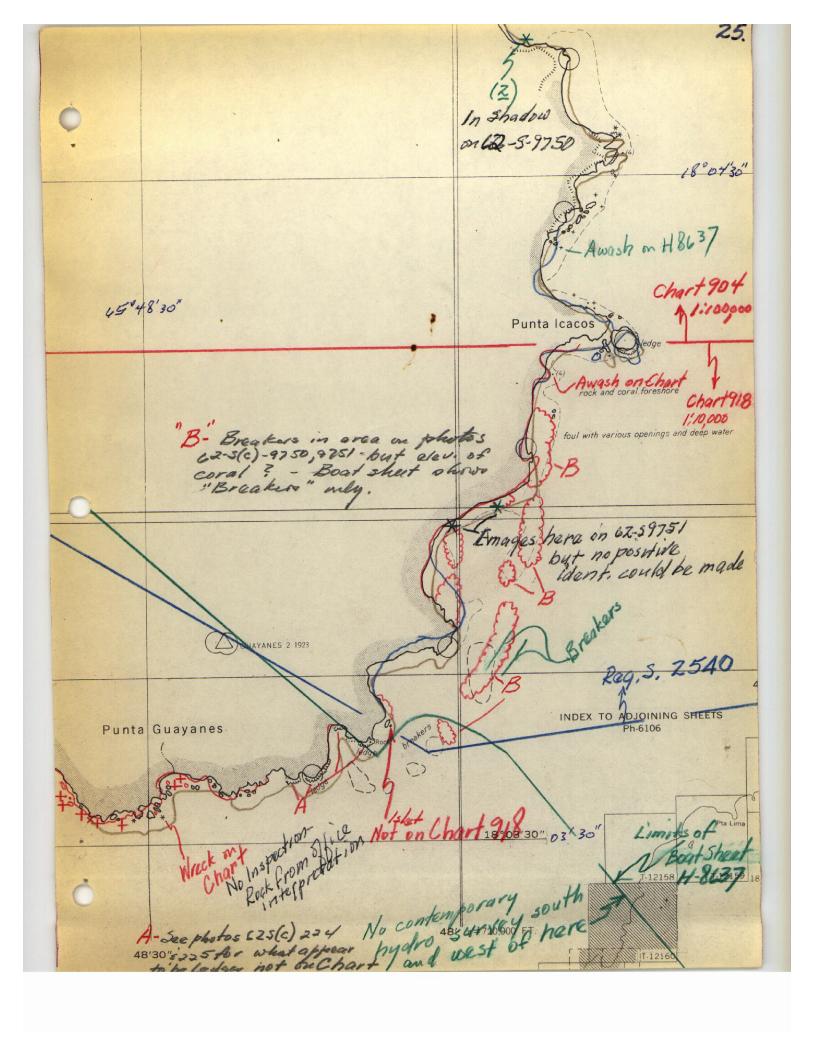
J. Bull, RADM, USESSA Director, Atlantic Marine Center

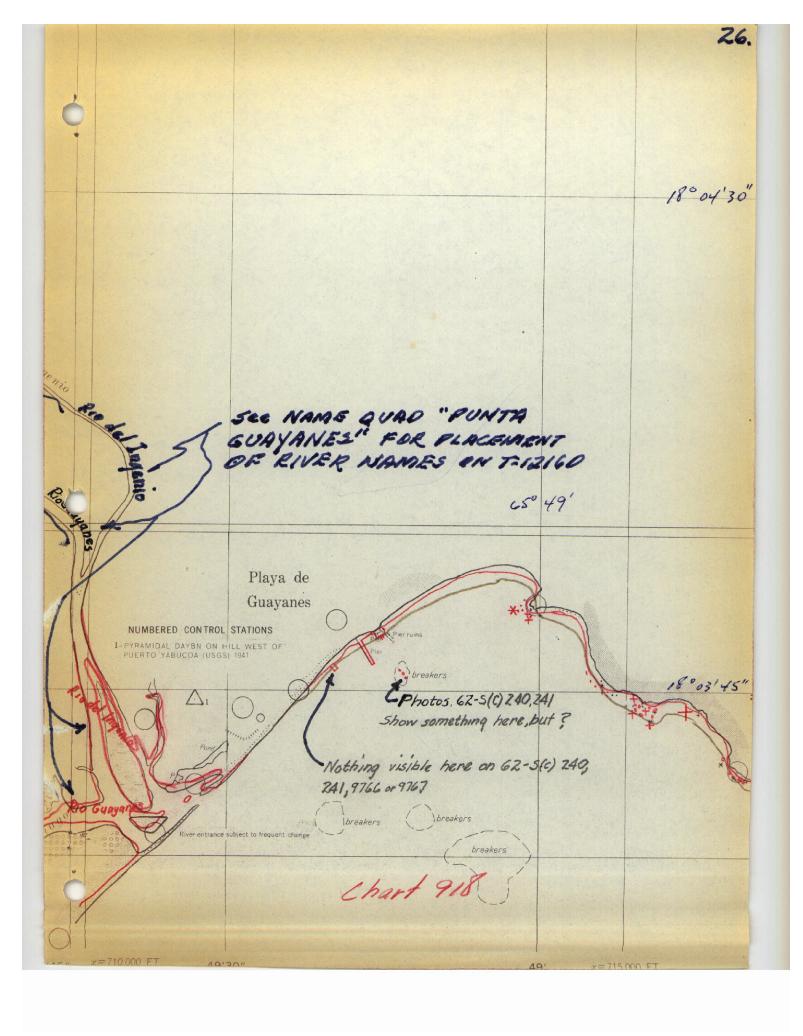
Approved by:

Nautical Chart Division,









NOTES TO VERIFIER T-12160, Project Ph-6106 BOAT SHEET EX10-1-62

Please note Items 63, 64, and 65 of the final review report and the Comparison Print (pages 23 thru 26) for rock, shoreline, and other notes.

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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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	11/2/23	T. Sherman	Full Rast Bofore After Verification Review Inspection Signed Via
	777		Drawing No. Adequately applied
923	8/14/74	D. A. Clements	Full Part Refore After Verification Review Inspection Signed Via
			Drawing No. Adequately Applia.
918	8/14/24	DA Claments	Full Part Before After Verification Review Inspection Signed Via
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63