12146



70rm 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Sui	rvey Shoreline (Photogram	~ Ø
Field No	Office No. T-12146	
	LOCALITY	
State	Puerto Rico	
General loca	lity East Coast	•
Locality	Punta Fajardo	
	1 961-64 1958-1964-	
	CHIEF OF PARTY vier, Chief of Field Party 708 Sobieralski, Tampa District Office	
	LIBRARY & ARCHIVES	
DATE	1 JUL 1968	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD T - 121/16

		The state of			
PROJECT NO. (II):					
PH-6106					
FIELD OFFICE (II):			CHIEF OF PARTY	r	
PUERTO RICO			M. L. OLIV	TER	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHA	RGE	
TAMPA, FLORIDA			V. RALPH S	OBIERALSK	I
INSTRUCTIONS DATED (II) (III):					
Field and office Amend. "	e - August 30, 19 - January 15, 1	61 .962 ×			
* Interior planimetro	y restricted to -	those fea	itures usefu	1 to	
breeze udaya sah	V C C . 3711				
METHOD OF COMPILATION (III):					
Kelsh plotter					
MANUSCRIPT SCALE (III): 1:5,000		STEREOSCO	PIC PLOTTING INS	TRUMENT SCA	ALE (III):
1:5,000			:3,000		
DATE RECEIVED IN WASHINGTON OFFICE (IV): DATE REP			RTED TO NAUTICA	L CHART BRA	ANCH (IV) :
222	MAY 2 5 1962				
APPLIED TO CHART NO.	68				
		DATE:		DATE REGIS	TERED (IV):
GEOGRAPHIC DATUM (III):			VERTICAL DATU	M (III) · MHW	
Promis Direc			MEANIXSEXXUEVEX		FOLLOWS:
Puerto Rico			Elevations shown a		
			Elevations shown a		
			i.e., mean low water	or or mean lowe.	r low water
REFERENCE STATION (III):					
CENTRAL FAJARDO	NORTH STACK (USG	s) 1941			
LAT.:	ONG.:	/	X ADJUSTED		
18°19'38.85" (1194.4m.)	65°38"52.98" (155	5.7m.)	- ONE CANADEO		
PLANE COORDINATES (IV):			STATE		ZONE
= 180,005.2 ft. x =	772,346.1 ft. /		Puerto Rico		Puerto Rico
ROMAN NUMERALS INDICATE WHETHER TO OR (IV) WASHINGTON OFFICE.					
WHEN ENTERING NAMES OF PERSONNEL	ON THIS RECORD GIVE TH	E SURNAME A	ND INITIALS, NOT	INITIALS ONL	.Y.

DESCRIPTIVE REPORT - DATA RECORD

M. L. Olivier		spotion percet available, ner were dates
MEAN HIGH WATER LOCATION (III) (STATE DATE AND Air photo compilation. Date of photography: Octo		shown on back of field photos. Field work probably done in Dec. 1961/Date & Report)
PROJECTION AND GRIDS RULED BY (IV): A.R. (W.O.)		April 1962
PROJECTION AND GRIDS CHECKED BY (IV): A.R. (W.O.)		April 1962
CONTROL PLOTTED BY (III): V. P. Cackowski		April 1962
CONTROL CHECKED BY (III): V. P. Cackowski	7	April 1962
R. E. Fuechsel (W.O.)	SION BY (III):	DATE March 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III): PI	I. I. Saperstein	May 1962
Co	ONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein		May 1962
SCRIBING BY (III): A. Shands		July 1966
W. H. Shearouse (Compolation)	on Manuscrip +)	May 1962 July 1964
REMARKS: "Limited field es	of Manuscrept) dit "by Ens. D. P. Van g His report.	Wedein 1964

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

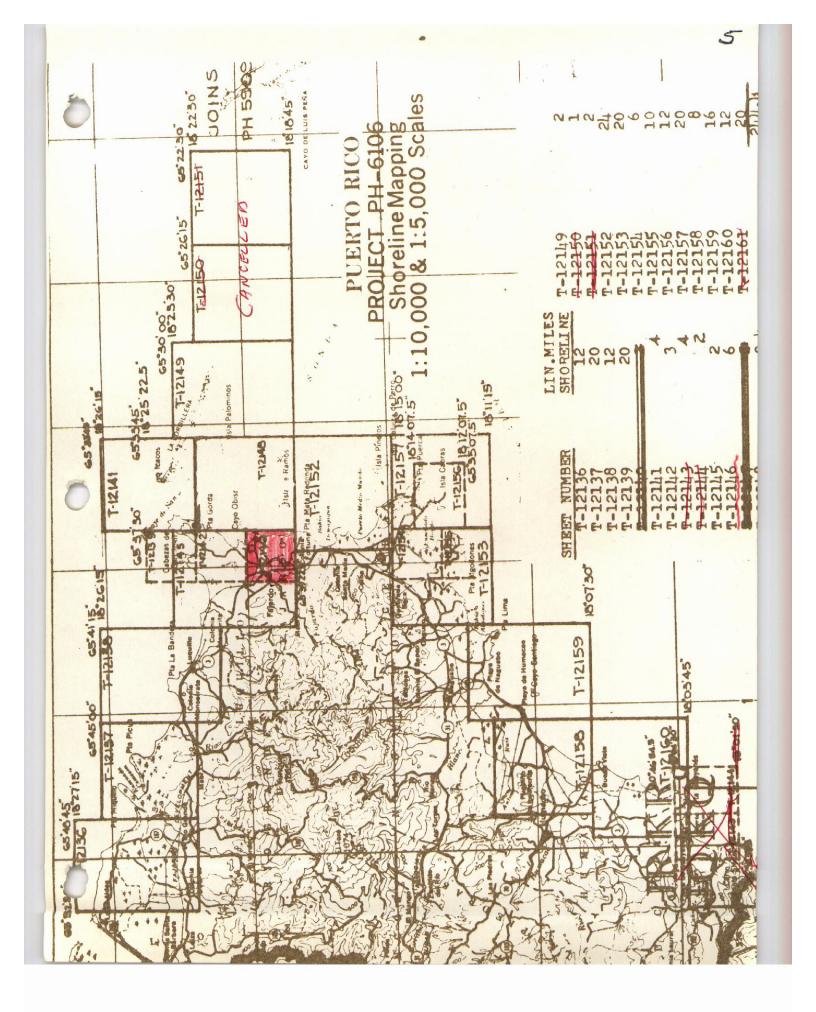
DESCRIPTIVE REPORT - DATA RECORD

AMERA (KIND OR SOURCE) (III):

Wild "W" camera

	PHO	TOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61-W-1722 61-W-1723 61-W-1724	Oct.26,1961	1545	1:15,000 Diapo	sitive 0.7
58-S-2810 58-S-2813 58-S-3062 thru 3065	1958	1112	1:10;000 (colo	r photos) " "

	Predicted	TIDE (III)				Diumal	
			•	RATIO OF RANGES	MEAN RANGE	RANGE	
REFERENCE STATION: San	Juan			-	1.1	1.3	
BORDINATE STATION: Bahi	1.0	1.1	1.4				
SUBORDINATE STATION:							
WASHINGTON OFFICE REVIEW BY TOTHE CONTENT M. M. SLANTSY					DATE: June 1967		
PROOF EDIT BY (IV):				DATE:			
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR (II):	3	RECOVERED:	IDENTIFIE	D: 1		
NUMBER OF BM(S) SEARCHED FOR (II):					D 1		
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABLISHED (····): 0					
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS ESTABLISH	HED (III): 1					
REMARKS:							



6.

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12146

Shoreline manuscript T-12146 is one of eight 1:5,000 scale maps in Ph-6106, Puerto Rico, which also contains sixteen 1:10,000 scale maps. The sketch on page 5 of this report shows the position of this manuscript 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 date: cancelled.

This is a stereo-instrument project in advance of hydrographic surveys of the area. Field inspection was done on 1:10,000 ratio prints of 1:30,000 panchromatic photographs made with the "S" camera April 18, 1959. 1:15,000 panchromatic photographs made with the "W" camera on October 26, 1961 were used for compilation. 1:10,000 color prints made in 1958 (no date) with the "S" camera, were furnished for reference during compilation. 1:10,000 color prints ("S" camera) made February 17, 1962 were used for reference during final review. 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 1:5,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. The map carries a "Date of Field Edit 1964". It is a "limited field edit done concurrent with hydrography". The field edit notes were on the cronaflex T sheets forwarded to the smooth plotting nautical chart sec tion of the Atlantic Marine Center. See page 16.

The compilation manuscript was a vinylite sheet 1 minute and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex for registry and record after final review.

2. AREAL FIELD INSPECTION

T-12139, T-12142, T-12146, and T-12152 through T-12157,
These shoreline sheets, are located on the eastern coast of Puerto Rico.
The area is undeveloped except for the village of Fajardo and the Roosevelt Roads Naval Resvervation.

Field inspection was performed on photographs 59-S-3940 through 59-S-3949 and 59-S-3915 through 59-S-3923. Some difficulty of interpretation of the apparent MHWL was encountered around mangrove areas.

Three housing areas within the naval station were not field inspected. It is believed that the 1961 photographs will cover these spots. Also a small marina in Ensenada Honda was left for the 1961 photographs. A new marina, under construction, on the south side of Cayo Obispo (a small island just east of Playa de Fajardo) was left for field edit.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control stations except four within the project limits were searched for. HOUSE, 1901; KID, 1941; MONTE, 1941; and NORTH, 1941 were not searched for because no descriptions were furnished. Only those stations as specified on the project diagram were photo-identified. One U. S. Geological Survey control station (CENTRAL FAJARDO, NORTH STACK, 1941) was recovered and photo-identified.

There were many triangulation stations that could not be recovered especially around the naval base. It is believed that much of this control was destroyed during construction of the base.

4. VERTICAL CONTROL

All tidal bench marks in the area were searched for. The one at Playa de Fajardo was recovered but the two in Ensenada Honda could not be found.

5. CONTOURS AND DRAINAGE.

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

The drainage patterns 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.

Swamp areas were designated as mangrove. There is considerable mangrove throughout the area.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected from a small boat and by walking along the shoreline.

The shoreline in places was visited at low water. The mean low water line is shown onethe photographs in green ink.

The foreshore is steep in some places and somewhat flat in other places.

Docks, piers, wharves, etc. arc adequately covered on the field inspection photographs.

One submerged cable was identified on the photographs.

S. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above MKH were noted. Coral is distinguishable on the photographs.

9. LANDMARKS AND AIDS

Landmarks and aids to navigation located by photogrammetric methods are shown on the contact prints. One landmark, a tower on Pineros Island, was identified on the field inspection photographs.

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

10. BOUNDARIES, MONUMENTS, AND LINES

Boundaries were excluded by the project instructions.

11. OTHER CONTROL

Existing objects suitable for photo hydro control were identified on the field inspection photographs. These are shown on the photographs by three digit numbers. Many of the landmarks and aids can be used for photo hydro control.

12. OTHER INTERIOR FEATURES

All buildings and roads have been classified in accordance with project instructions dated 30 August 1961.

13. GEOGRAPHIC NAMES

An investigation of geographic names was not required by the project instructions. It was noticed that the geographic names on the existing charts and quads of this area agree with one another and with the general opinion of the local people.

14. SPECIAL REPORTS AND SUPPLE ENTAL DATA

Contact photographs were forwarded to the Washington office by Letter of Transmittal No. PH-6106-3 dated 20 November 1961.

Submitted
5 December 1961
Michael L. Clivier
Chical Fhat Park

FORM C&GS-164 (3-64) USCOMM-DC 6659-P64		io (U.S. DE PARTMENT OF COMMERCE COAST AND GEODFT SURVEY
MAP T- 121/16 PROJECT NO.	9-на	IPTIVE REP	DESCRIPTIVE REPORT CONTROL RECORD SCALE OF MAP 1:5,000 SCALE	SCALE FACTOR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)
CENTRAL FAJARDO N. STACK 1941 (USGS)		Puerto Rico	180 005.2	(BACK)
BARRANCAS 2 1923		Puerto Rico		Wet Pressed
			((y	
		11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
COMPUTED BY V. P. Cackowski	рате 4/3/62		CHECKED BY	DATE

COMPILATION REPORT T-12146

PHOTOGRAMMETRIC PLOT REPORT

The stereo bridge was run in the Washington Office using 1:30,000 diapositives (see report for T-12157). A sub-bridge was run in this office, dropping pass points from the 1959 1:30,000 diapositives to control the 1961 1:15,000 diapositives. The 1:15,000 diapositives were then used in compiling the 1:5,000 manuscripts. (T-12146 and T-12142, south half.)

It will be noted that pass point no. 247401 (Radio Tower WMDD) identified by the field inspector on contact print 59-S-3947 was dropped on the 1:30,000 bridge (strip 2), and a note added to the IBM readout tape "This is a sketched position". Careful study of the 1:30,000 photographs failed to show the tower. However, when the 1:15,000 diapositives were used, the tower could be seen and was dropped. A difference of 7.5 meters in position from the Washington Office location was observed.

31. DELINEATION

The Kelsh plotter was used. The field inspection was generally adequate and no difficulty was encountered in the delineation of the shoreline.

The interior detail has been omitted in accordance with amendment to instructions dated January 15, 1962.

The color photographs were used as an aid in delineating coral, rocks, shoal and shallow areas.

Delineation has been carried east of the neat line to make use of the 1961 photographs.

32. CONTROL

The density and placement of bridge points was adequate. (See item Photogrammetric Plot Report).

33. SUPPLEMENTAL DATA

None.

34. CONTROL AND DRAINAGE

Inapplicable.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline and alongshore pass points compiled.	May 1962	Superseded.
Manuscript Complete	July 1966	Superseded
Some revisions in final Review	June 1967	

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water and low-water lines were delineated according to the field inspection which was adequate. All piers, sea walls and rocks that could be seen were shown. Shallow and shoal areas were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

Numerous coral reefs have been shown and are delineated accordingly. Other offshore areas have been outlined with a dashed line but are questionable. These areas should be investigated by the hydrographic party.

37. LANDMARKS AND AIDS

There are no aids. Two landmarks have been located and form 567 submitted with this report. Radio Tower (WMDD) is not of landmark value according to the field inspector and was shown merely as a topographic feature.

38. CONTROL FOR FUTURE SURVEYS

One photo-hydro station was located and is listed under item 49.

Shoreline pass points have been located by the Kelsh plotter for photo-hydro support.

39. JUNCTIONS

Junctions have been made with T-12142 to the north; T-12148 (1:10,000) to the east; T-12152 (1:10,000) to the south. This sheet is the southeast part of T-12145 (1:10,000).

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. SHORELINE CHANGE

It may be of interest to note that triangulation station BARRANCAS 2, 1923 now plots 100 meters offshore from Punta Fajardo. This emphasizes the erosion that has occurred at this point of land.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangles FAJARDO and CAYO ICACOS, scale 1:20,000, edition of 1958. The comparison is favorable except that Punta Fajardo has eroded, and a new marina is under construction on Cayo Obispo.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 917, 1:40,000, edition of May 6, 1930, revised October 12, 1959, and chart 921, 1:10,000, edition of December 1930, corrected to April 14, 1952. The major discrepancy seems to be in the horseshoe curve of Rio Fajardo, which appears on the chart about 40 meters north of its present position. The differences mentioned under item 46 are also applicable to the charts.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Cartographer (Photo)

APPROVED AND FORWARDED

V/Ralph Sobieralski Tampa District Officer

48. GEOGRAPHIC NAME LIST

Names were taken from the final name sheets prepared by the Washington Office on USGS quadrangles FAJARDO and CAYO ICACOS, scale 1:20,000, edition of 1958.

* ARREGIFE CORONA CARRILLO

* ARRECIFE MATA CABALLOS

*ARRECIFE RONGADOR

> BAHIA DE FAJARDO

* CAYO-AHOGADO

*CAYO OBISPO

* GAYO ZANGUDO

PLAYA DE FAJARDO

PUERTO RICO

> PUNTA FAJARDO

≠RIO FAJARDO

* On a "dog-ear" extension of T-12146 (NOW part

Names approved
May 29, 1968

Jerank W. fickets

49. NOTES FOR THE HYDROGRAPHER

One photo-hydro station was located:

108 (SE gable P.O.)

Several offshore areas have been outlined with a dashed line and are questionable. Their true nature could not be determined in the office and should be investigated by the hydrographic party.

The coral areas were identified but not delimited by the field inspector. Limits shown are from study of Kelsh models and color photographs, when available. The coral limits do not necessarily define the low-water line; this has been left for investigation by the hydrographer.

HOTOGRAMMETRIC REVIEW BRANCH

OF COMMERCE U.S. DEPARTM OF COMMERC COAST AND GEODETIC SURVEY

NOWITH PATTING APPLANDMARKS FOR CHARTS

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be not deleted from) the charts indicated. Tampa, Florida

STRIKE OUT TWO

TO BE CHARTED

charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

I. I. Saperstein

							V Pale	T Polch Coblemited	and other	5	Chief of Party.
#####					POSITION			МЕТНОБ		TRAI	TRAHS
	PUBRETO RICO		TY	LATTTUDE:	LONG	LONGITUDE +		LOCATION	DATE OF	() 34	CHARTS
CHARTING	DESCRIPTION	SIGNAL NAME	•	# D.M.METERS	•	" D. P. METERS	DATUM	BURVEY No.	LOCATION	OHSHI	
•	ALTO TANKS OF THE PARTY OF THE		,	28.85	BE 39	52.98	Poerto	Pherito Irlang.	*Nov.	H	21.6
∤, U	(usos) 1941				ĺ		0077		1861	H.	18
	South Stack		10		85 38	52.09		Photo	•	H	91.7
	nt = 231 (245)			1153		1553		1.1216		M	280 ×
	*Date taken from submission date on	ate on									
	form Eld by Pield navio										

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. USCOMMEDC 27126

* TABULATE SECONDS AND METERS

14.

FORM 182 (3-51)		HOTOGRAMMETRIC OFF T- 121	ICE REVIEW	U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY		
<u> </u>	50.	1. 1510	10 Com	polation Manuscript		
GRIDS	WHS WHS		Unclassifie	d WHS WHS		
CONTROL	5. HORIZONTAL CONTROL OR HIGHER ACCURACY WHS	STATIONS OF THIRD-ORDER	THIRD-ORDER A	HORIZONTAL STATIONS OF LESS THAN ACCURACY (TOPOGRAPHIC STATIONS)		
STATIONS	7. PHOTO HYDRO STATION	S 8. BENCH MARKS	9. PLOTTING OF S	EXTANT 10. PHOTOGRAMMETRIC		
	WHS	WHS	XX	w.o.		
	RES					
	12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOAL	S, ETC. 15. BRIDGES		
ALONGSHORE AREAS	WHS	WES	WHS	xx		
(Navtical	16. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES		
Chart Data)	XX	WHS		WHS		
	19. OTHER ALONGSHORE CULTURAL FEATURES					
	WHS 20. WATER FEATURES 21. NATURAL GROUND COVER					
	20. WATER FEATURES		21. NATURAL GRO	UND COVER		
PHYSICAL	XX		XX			
FEATURES	22. PLANETABLE CONTOUR	₹\$	23. STEREOSCOPIC INSTRUMENT CONTOURS			
	XX		25. SPOT ELEVATIONS			
	24. CONTOURS IN GENERAL	•	XX	ons		
	XX 26. OTHER PHYSICAL FEAT	URES				
	XX					
	27. ROADS	28. BUILDINGS		29. RAILROADS		
CULTURAL FEATURES	XX	WHS		WES		
, LAVORES	30. OTHER CULTURAL FEATURES					
	WHS					
BOUNDARIES	31. BOUNDARY LINES		32. PUBLIC LAND	INES		
	XX		XX			
MISCEL-	33. GEOGRAPHIC NAMES WHS			34. JUNCTIONS WHS		
LANEOUS		JSCRIPT 36. DISCREPANCY OF	WHS VERLAY 37. DESCRIPTIVE REPORT			
	WHS	XX		WHS		
	38. FIELD INSPECTION PHO	TOGRAPHS	39. FORMS WHS			
ŕ	SIGNATURE OF REVIEWER WILLIAM H. Shearon	nous		ERVISOR REVIEW SECTION OR UNIT		
40. FIELD COMP pletion surv	PLETION ADDITIONS AND CO	RRECTIONS TO THE MANUSC	RIPT · Additions and	corrections furnished by the field com- recept as noted in remarks on reverse side.		
SIGNATURE OF	COMPILER March	during Fruit	SIGNATURE OF SUE	ERYSOR ANN M		
		USE REVERSE SIDE FOR REM	·	115C DMM-DC 25353-P61		

TIDE CC UTATION

PROJECT NO. Ph. 6/06 T. 12/46

Mean range

DIUNIVA! 1.9

Date of field inspection

Subordinate station __ Bahla_de_Fajarde

	Time		Height	Height x Ratio
	h. m.	1,-	. feet	of ranges
High tide	hh 01	High tide	2.0	
Low tide	17 20 1	Low tide	0.5	
Duration of rise or fall	6 36 4	Range of tide		1.5 0

	F	Time		
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High tide at Ref. Sta.	10	53 "		Ľò
Time difference	1	09,	\	Tin
Corrected time at Subordinate station	0	##		S

		Δ	i	
Time	Ë.	31,	11 1	20
Ţ	ė	17	١	17
	!	Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station
			$\overline{}$	
		1	_	

	h. m.		feet		feet	Photo. No.
Time Hellor L. T. Required time Interval	17 20 15 45 1 357	Ht. Haller L. T. Tabular correction Stage of tide above MLW	0.5 -	Feature bares Stage of tide above MLW Feature above MLW		61W 1723
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW	!	
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
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Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by 1/2aperstein __ Checked by F

FIELD EDIT REPORT T-12146

No field edit report was submitted as such. The Item "SHORELINE INSPECTION", on page 2 of Descriptive Report for "Control and Shoreline" for OPR 423, 1964, which is a part of the hydrographic records states: "A limited field edit was carried on concurrently with hydrography for each boat sheet. What field edit notes were made were placed on the cronaflex T sheets and marked on appropriate photos in green ink. T sheets and accompanying photographs were sent to the Washington Office on September 15, 1964."

"All offshore detail shown on the T- sheet was verified or deleted by the hydrographic party."

This completed the Item.

M. M. Slavney Final Review

REVIEW REPORT T-12146 SHORELINE AUGUST 1967

61. GENERAL STATEMENT:

See Summary accompanying Descriptive Report (page 6).

An ozalid Comparison Print showing the differences noted in Items 62, 63, 64, and 65 is enclosed with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey 2478; 1:10,000; 1900 Registered Survey 2538; 1:20,000; 1901

The shoreline from these surveys is on the Comparison Print in blue.

There are shoreline differences to 100 meters; the largest change is at Punta Fajardo. The discrepancy in position of Rio Fajardo is shown, as are the old piers at Playa de Fajardo.

T-12146 supersedes the previous registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

FAJARDO, P.R. quad.: U.S.G.S.: 1:20,000: 1958

The quadrangle shoreline is on the Comparison Print in purple.

Shoreline differences to 50 meters are shown.

The quadrangle shows a pier at latitude 18° 201.2, longitude 65° 371.88 that does not exist on this survey.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Boat Sheet EX-5-1-64 (H-8813); 1:5,000; 1964

Notes pertaining to details from the boat sheet are on the Comparison Print in grean.

a. The boat sheet shows two wrecks that do not appear on this map. One sunken, at latitude 18° 20°.32, longitude 65° 37°.85; another that baras at latitude 18° 20°.18, longitude 65° 30°.77. It is noted that T-12146 shows a wreck, alongside a pier, about 50 meters SSW of this wreck. The wreck on T-12146 was from field inspection and is visible on photographs 59-S-3946, 61-W-1723 and 1724, and color photographs 62-S-487 and 488.

- b. One object labelled post; at latitude 18° 20'.01, longitude 65° 30'.11; and an unlabelled 2.5 mm circle presumed to be a post or pile, at latitude 18° 20'.1, longitude 65° 30'.1h, are not visible on the photographs, and were not noted by the field inspector or during the "limited field edit".
- c. It is noted that 1962 color photographs 62-S-486 and 487 show some work dreding, sheet piling or ?, at the mouth of Rio Fajardo. However, no mention is made in the field edit and/or boat sheet. The boat sheet carries the note "mud flat too shoal to sound" directly over the area. Office interpretation is too inconclusive to justify any delineation, particularly after the 1964 hydrographer makes no mention of anything in the area.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 921; 1:10,000; 8th Edition; June 27, 1966

Chart 921 southern limits are, latitude 180 18.95. Chart 917 (1:40,000 5/16/66) would ordinarily be used; however, its scale requires an 8x enlargement; it was therefore not used.

Chart details conflicting with this map are shown on the Comparison Print in red.

- a. There are some shoreline differences to 35 meters, the largest along the coast from latitude 18° 18'.95 to 18° 19'.35.
- b. The chart shows the two wrecks noted in Item 64, paragraph (a).
- c. A wreck that bares partially is shown at latitude 18° 20°.33, longitude 65° 37°.95 on the chart, that is not on this map. It is not visible on the photographs, was not noted by the field inspector or the field edit; nor is it on Boat Sheet EX-5-1-64.
- d. The two posts (?) noted in Item 64, paragraph (b) are on Chart 921, one as "sign", and the other an unlabelled circle.
- e. The chart shows a number of rocks awash near latitude 18° 20', longitude 65° 37'.55 to the shoreline, that are not on T-12146; and Boat Sheet EX-5-1-64 makes no note of them.
- f. The chart shows an area just offshore at latitude 18° 20'.4 "Being Filled" which is not on T-12146. It was not noted by the field inspector or field edit; and it is not on Boat Sheet EX-5-1-64.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

M. M. Slavney

Approved by:

U. Bull, RADM, USESSA

Director, Atlantic Marine Center

Chief, Cartographic Branch

Photogrammetric

Chief, Chart Division

Ralph Sobieralski JUN 1 9 1968 Chief, Photogrammetry Division

Chief, Operations Division

NOTES TO VERIFIER T-12146 Project PH-6106 BOAT SHEET NO. EX-5-1-64 (H-8813)

Please note the discrepancies listed in Item 64, paragraphs (a), (b), and (c) which is not a discrepancy between the boat sheet and T-12146, but something which does appear on photographs 62-S-486 and 487 at the mouth of Rio Fajardo. Also see Item 65, paragraphs (a) through (f) of the Descriptive Report from T-12146, and the Comparison Print included with the "original" of this report.

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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.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	Adequately Applied REMARKS & Field
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(25663)			Drawing No. 19
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25650)			Drawing No. 2.5
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FORM CAGS-8352 SUPERSEDES ALL EDITIONS OF FORM CAGS-975

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