

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### **DESCRIPTIVE** REPORT

Type of Survey	SHORELINE
Field No.	Office No. T-12115
	LOCALITY
State	PUERTO RICO
General locality	FAST COAST
	AYA DE FAJARDO
195	- <del>- 19.61</del>

### CHIEF OF PARTY

M. L. Olivier, Chief of Field Party 708 V. R. Sobieralski, Tampa District Officer

### **LIBRARY & ARCHIVES**

1 JUL 1968

USCOMM-DC 5087

1.

### DESCRIPTIVE REPORT - DATA RECORD

T - 12145

PROJECT NO. (II):					
PH-6106					
FIELD OFFICE (II):			CHIEF OF PART	Y	
Puerto Rico			M. L. Olivi	er	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHA	RGE	
Tampa, Florida	1		V. Ralph Sc	bieralski	
INSTRUCTIONS DATED (II) (III):					
Field and Amendment " "  * Interior planimet photo hydro sop	ry restricted to th	5, 1962		+0	
METHOD OF COMPILATION (III):					
Kelsh Plotter					
MANUSCRIPT SCALE (III):		STEREOSCO	PIC PLOTTING INS	TRUMENT SCA	LE (III):
1:10,000		1:6,0	000		
DATE RECEIVED IN WASHINGTON OFF		DATE REPO	RTED TO NAUTICA	L CHART BRA	NCH (IV):
APRIL 13, 1968 JUL	7 1962				
APPLIED TO CHART NO.		DATE:		DATE REGIST	FERED (IV):
GEOGRAPHIC DATUM (III):			VERTICAL DATU	м (III) : MHW	
Puerto Rico  REFERENCE STATION (III):			Elevations shown a Elevations shown a i.e., mean low water	EXCEPT AS F as (25) refer to s as (5) refer to s	mean high water ounding datum
Central Fajardo No	orth Stack (USGS) 1	941			
18°19°38.85" (1194.4m)	65°38'52.98" (155	5.7 m)	ADJUSTED UNADJUSTED		
PLANE COORDINATES (IV):			STATE		ZONE
= 180,005.2 FT.	c= 772,346.1 FT.		Puerto Rico	1	Puerto Rico
ROMAN NUMERALS INDICATE WHETHER OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNE					
	THE WEGORD GIVE TH	L JURNAME A	NO INITIALS, NOT	INITIALS ONL	Υ.

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### **DESCRIPTIVE REPORT - DATA RECORD**

FIELD INSPECTION BY (II):		DATE: No field in-
M. L. Olivier		spection report ava
M. P. Oliater		able, nor were date
MEAN HIGH WATER LOCATION (III) (STATE	DATE AND METHOD OF LOCATION):	shown on back of
		field photos. Field
Air photo compilation		work probably done Dec. 1961
Date of Photography: Apri	1 1959, October 1901.	Dec. 1901
PROJECTION AND GRIDS RULED BY (IV):	•	DATE
A. R. (W.O.)		Apr. 1962
PROJECTION AND GRIDS CHECKED BY (IV)	:	DATE
A. R. (W.O.)		Apr. 1962
CONTROL PLOTTED BY (III):	<u> </u>	DATE
V. P. Cackowski		Apr. 1962
CONTROL CHECKED BY (III):		DATE
V. P. Cackowski		Apr. 1962
		DATE
RADIAL PLOT OR STEREOSCOPIC CONTRO		
R. E. Fuechsel (W.O.	)	Mar. 1962
STEREOSCOPIC INSTRUMENT COMPILATIO	N (III): PLANIMETRY	DATE
	I. I. Saperstein	June 1962
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
I. I. Saperstein		June 1962
SCRIBING BY (III):	DATE	
A-Santillan		July 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (		DATE
W. H. Shearouse (Con R.V. PATE (Smo	np.) ,	June 1962
R.V. PATE (Smo	04h)	July 1966

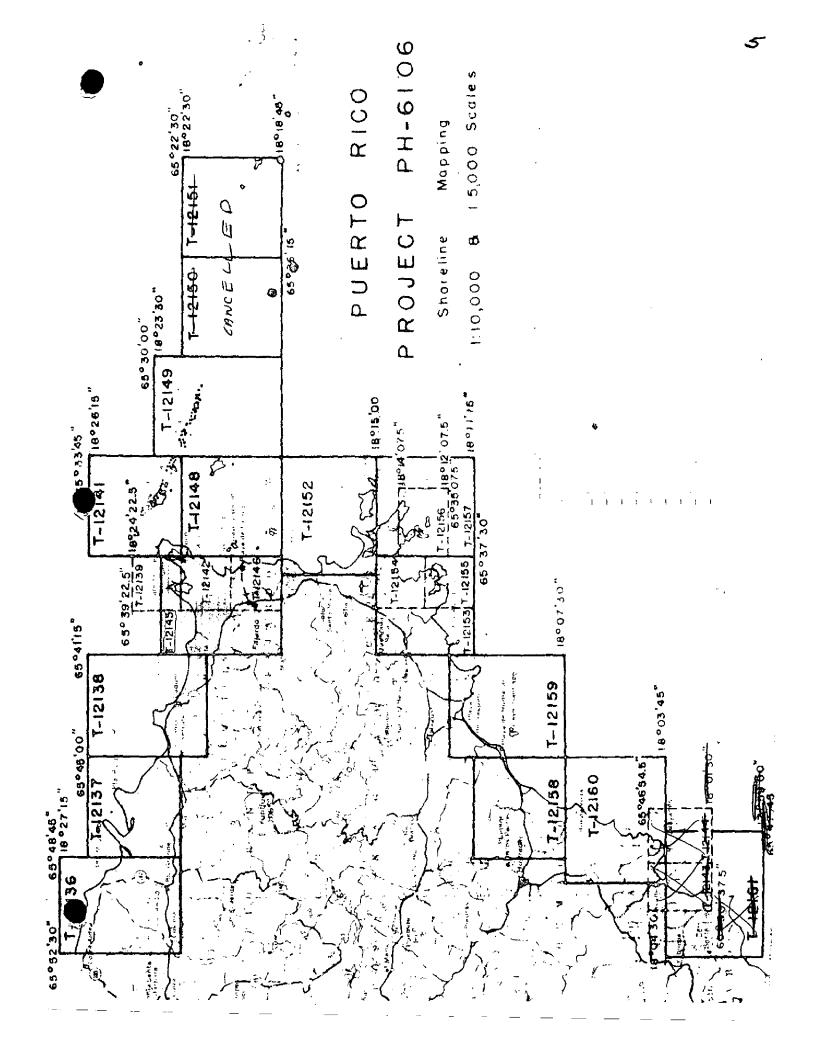
U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT - DATA RECORD

	F	HOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	S'	TAGE OF T	
598 389 5 598 389 6	4/18/59	10:48	1:30,000 Diap	sitives	0.0	ABOVE KI
595 <u>3</u> 9 46 595 <u>3</u> 9 48	n n	11:58 12:00	ti		0.1	• /
5983949 61W1722 thru 1725 61W1734 thru 1736	10/26/61	15:45 15:57	1:15,000 "		0.7	,,
(see data rec	ord on T-12139,	T-12142 and	T-12146 for cold	photos	)	
	Pred <u>i</u>	cted TIDE (II	1)			Dinr
				RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sa	n Juan				1.1	1.3
Bah	ia de Fajardo			1.0	1.1	1.4
UBORDINATE STATION:						
VASHINGTON STATES REVIEW	e fonter W.	M. 36	every	DATE:	ay 1	967
PROOF EDIT BY (IV):			Y	DATE:	<b>7</b>	
NUMBER OF TRIANGULATION S	STATIONS SEARCHED F	or (n): 6	RECOVERED:	IDENTIFIE 2	ED:	
NUMBER OF BM(S) SEARCHED	FOR (II):	1	RECOVERED:	IDENTIFIE	:D	
NUMBER OF RECOVERABLE PH	HOTO STATIONS ESTAB	LISHED (III): 0		<u></u>		
UMBER-OF TEMPORARY PHO	TO HYDRO STATIONS ES	STABLISHED (III):	5	<del>-</del>		

T-12145

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	June 1962	Superseded
Limited field edit applied	May 1966	Superseded
Manuscript complete	June 1966	Superseded
Some changes during final revi	lew May 1967	
	,	, 



## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12145

Shoreline manuscript T-12145 is one of sixteen 1:10,000 scale maps in Ph-6106, east coast of 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, and shows the areas of this 1:10,000 scale map which were compiled as 1:5,000 scale maps T-12139, T-12142, and T-12146; and then reduced to 1:10,000 scale for incorporation into T-12145. 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 data cancerted.

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 the 1:30,000 panchromatic photographs made with the "S" camera on April 18, 1959. Diapositives from the 1:15,000 scale panchromatic photographs made with the "W" camera on October 26, 1961 were used for compiling the 1:5,000 maps T-12139, T-12142, and T-12146 which were then reduced. Diapositives from the 1:30,000 April 18, 1959 "S" photography were used to compile T-12145 west of longitude 65° 39°. Color prints at 1:10,000 flown in 1958 (no date) were furnished for reference during compilation. 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 1:10,000 scale were processed and furnished for hydro-support.

Field work preceding compilation consisted of control identification and field inspection. The map carries a "Date of Field Edit: 1964". The field edit notes were on the cronaflex "T" sheets, which are part of the hydrographic data. It was a "Limited field edit done concurrent with hydrography"; and there was no hydrography done west of longitude 65 38.65°.

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.

# FIELD INSPECTION REPORT -4-

### 2. AREAL FIELD INSPECTION

T-12139, T-12145, 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. WOODI AND COVER

Woodland cover has been classified in accordance with the requirements T 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. SHORETIME 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. are adequately covered on the field inspection photographs.

One submerged cable was identified on the photographs.

### 8. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above MHW 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 SUPPLEMENTAL 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. Olivier

### 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 ## 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:

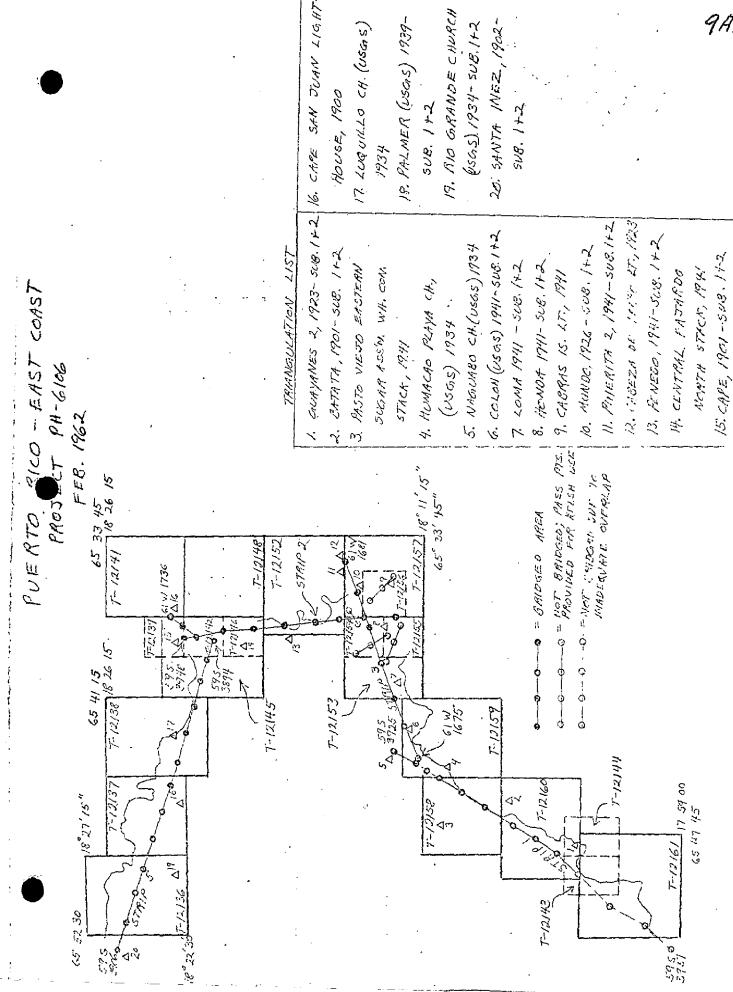
R. E. Fuechse

E. Frederal

Approved:

E. H. Rámey, Chief

Aerotriangulation Section



DESCRIPTIVE REPORT CONTROL RECORD

FORM C& 65-164 (3-64) USCOMM-DC 6659-P64

DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) N.A. 1927 - DATUM FORWARD SCALE FACTOR LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE SCALE OF MAP 1:10,000 05'252 876.0 555.6 005.2 346.1 055 161 779 199 773 180 772 Puerto Rico Puerto DATUM Rico PROJECT NO. PH-6106 SOURCE OF INFORMATION (MNDEX) GAPE 1901 PT SAN DIEGO 1902 (CAPE 1901) CENTRAL FAJARDO N. STACK 1941 (UGGS) CUEVA, 1900 12145 STATION MAP T-

9

4/13/62

R. R. Wagner

CHECKED BY

DATE

Cackowski

Ь.

V.

COMPUTED BY

DATE

### COMPILATION REPORT

### T-12145

### PHOTOGRAMMETRIC PLOT REPORT

The stereo bridge was run in the Washington Office. The Photogrammetric Plot Report is bound in the report for T-12157. See also the report for T-12146. See page 9.

### 31. DELINEATION

The manuscript was compiled using the 1:5,000 scale manuscripts (T-12139, T-12142 and T-12146) reduced to 1:10,000 and transferred to this sheet. Areas not covered by the above mentioned sheets were compiled from the April 1959, 1:30,000 diapositives on the Kelsh Plotter. These areas are: from Longitude 65°39'11" westward and the shoreline around Cabezas de San Juan.

The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs.

(see reports for T-12139, T-12142 and T-12146)

### 32. CONTROL

The density and placement of bridge points were adequate.

### 33. SUPPLEMENTAL DATA

None.

### 34. CONTOURS AND DRAINAGE

Inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water and low-water lines were delineated according to the field inspection, which was adequate. Shallow and shoal areas were delineated from office interpretation of the photographs. The color photographs were used as an aid in delineating coral and shallow areas.

### 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

Three (3) landmarks have been located and form 567 has previously been submitted on May 8 and May 10, 1962. One aid has been shown east of sheet limits (on T-12111) and form 567 is 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

Five (5) photo-hydro stations were located and are 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-12152 to the south; T-12141 and T-12148 to the east; T-12138 to the west, not compiled. No sheet to the north.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

### 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle FAJARDO and CAYO ICACOS, scale 1:20,000 edition of 1958. (see reports for T-12139, T-12142 and T-12146.)

### 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 September 6, 1958.

Major changes between the manuscript and chart 921 ate at Playa de Fajardo, Punta Fajardo, Rio Fajardo and the cove at Latitude 18 22 Longitude 65 37 30 (see reports for T-12139, T-12142 and T-12146.)

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

### ITEMS TO BE CARRIED FORWARD

None.

Junes Joseph ( I. I. Saperstein Cartographer (photo)

Approved and Forwarded:

V./Ral/oh Sobieralski

Tampa District Officer

GEOGRAPHIC NAMES FINAL REVIEW LIST PH-6106 T-12145 (Shoreline)

ZATLANTIC OCEAN

BAHIA DE FAJARDO BAHIA LAS CABEZAS

>CABEZA CHIQUITA

LAGUNA AGUAS PRIETAS
LAGUNA GRANDE

PASAJE DE SAN JUAN
PLAYA DE FAJARDO
PLAYA SARDINERA
PUNTA BATERIA

PUNTA FAJARDO

> PUNTA GORDA

RIO FAJARDO RIO JUAN MARTIN

Names from FINAL NAME SHEET (#6 of 7) on FAJARDO, P.R. quad. from Rt. No. 3614.

Note: Chart 921 (1:10,000, June 1966) shows a "BAJO DEL RIO" at latitude 18° 19.9°, longitude 65° 37.5°, but it is not on the Geographic Name Quad. The name was not ordered by the Drafting Section and is not on T-12145.

M.M. Slavney Final Review

Names approved
May 29, 1968

Janle W. fickett

### 49. NOTES FOR THE HYDROGRAPHER

Five (5) photo-hydro stations were located:

105 (N.E. corner Green roof pav.)

106 (Center of green roof house)

107 (N. gable)

108 (S.E. gable P.O.)

109 (Peak of white roofed house.) Use with caution, point could not be identified on the 1961 photographs being furnished for hydro support; see Item 31 of report for T-12142.

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

The Loran Antenna at Cabo San Juan for which a form 567 was submitted by the field party was not identified on the photographs in the field.

Several tall poles or structures were seen on the photographs but it could not be determined which is the antenna. It is requested that this landmark be located or identified on the photographs.

It will be noted that a form 567 for DELETION, was submitted by the field party for LORAN TOWER at Cabo San Juan shown on charts 917 and 921. This is probably a different tower than the antenna mentioned above.

FORM 182 50	•	P	ното	GRAMMETRIC OFF T-12145	_	u.: OMPILA!	S. DEPARTMENT COAST AND GEO PTON	OF COMMERCE
1. PROJECTION GRIDS	N AND	2 TITLE	4a	Classification label			3. MANUSCRIPT NUMBERS WHS	4. MANUSCRIPT SIZE WHS
CONTROL		ZONTAL CONTROL IGHER ACCURACY WHS	STATIO	NS OF THIRD-ORDER	6. RECOVERABLE THIRD-ORDER		TAL STATIONS ( Y (TOPOGRAPHIC	
STATIONS	7. PHOTO HYDRO STATIONS 8. BENCH MARKS WHS WHS			9. PLOTTING OF STATES	SEXTANT	10. PHOTOGR PLOT REF Washingto	PORT	
	11. DET	WHS						
ALONGSHORE AREAS	12. SHOR	ELINE	13. LO WH	W-WATER LINE S	14. ROCKS, SHOAL	S, ETC.	15. BRIDGES	
(Nautical Chart Data)	16. AIDS WHS	TO NAVIGATION		17. LANDMARKS		18. OTHE FEAT WHS	R ALONGSHORE URES	PHYSICAL
	19. OTHE	ER ALONGSHORE CU	ILTURA	L FEATURES		<u> </u>		
	20. WATE	ER FEATURES			21. NATURAL GRO	UND COVE	R	
PHYSICAL FEATURES	122 PLANETABLE CONTOUR				23. STEREOSCOPIC INSTRUMENT CONTOURS		S	
	24. CONT	OURS IN GENERAL		<del></del>	25. SPOT ELEVATI	ONS		
	26. OTHE	ER PHYSICAL FEAT	JRES			<u>-</u>		
CULTURAL FEATURES	27. ROAD	os		28. BUILDINGS WHS		29. RAIL	ROADS	
FEATURES	30, OTHE	R CULTURAL FEAT	TURES					
BOUNDARIES	31. BOUNDARY LINES				32. PUBLIC LAND LINES			
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES WHS				34. JUNCTIONS WHS			
	35.LEGIB WHS	35.LEGIBILITY OF THE MANUSCRIPT 36. DISCREPANCY ON WHS			OVERLAY 37. DESCRIPTIVE REPORT WHS		т	
	WHS	D INSPECTION PHO		[	39. FORMS WHS			
40. FIELD COM	Willia PLETION	m H. Shearous	RRECT	IONS TO THE MANUSCI	SIGNATURE OF SU William A. RIPT-Additions and	correction	ns furnished by	the field com-
pletion sur	COMPLE		manus	cript. The manuscrip	signature of sui	PERVISOR		on reverse side.
	<u></u>	<del></del>			<u> </u>			

TIDE CONTATION

# PROJECT NO. Ph. 6106 T. 12145

Time and date of exposure 1048 Upril 18,1959

Mean range

Date of field inspection

High tide Low tide

Subordinate station Ballia . Il Fajando

Ę. Low tide at Ref. Sta. Corrected time at Time difference

Time 14 40 н. п Time High tide at Ref. Sta. Corrected time at Time difference Height x Ratio of ranges 1: Height feet Range of tide High tide Low tide 27 0432 Ë E 7ime 01 Duration of rise or fall

Subordinate statio	
25 40	
Subordinate station	

	h. m.		feet		feet	Photo. No.	
Time <del>H. T. er</del> L. T. Required time Interval	18 01	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.00	Feature bares Stage of tide above MLW Feature above MLW		5983895	
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 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 Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW. Feature above MLW			r -
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			<i>l</i>

M-2617-12

11 Saferskin Checked by WH Shoor out. Computed by \_\_\_\_

# FIELD EDIT REPORT

No field edit report was received as such. The Item "SHORELINE INSPECTION" on page 2 of the Descriptive Report for "CONTROL and SHORELINE of 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.

It is noted that the hydrographic survey did not cover theserea of the north portion of the map west from 65° 38.65° to 65° 41.25°.

M. M. Slavney Final Review

### REVIEW REPORT T-12145 SHORELINE May, 1967

### 61. GENERAL STATEMENT:

See Summary accompanying this Descriptive Report. (page 6)

An ozalid Comparison Print showing the differences noted in Items 62 through 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 Registered Survey 4205; 1:20,000; 1921

Details from these surveys are on the Comparison Print in blue.

The largest shoreline discrepancy, about 100 meters, is at Punta Fajardo. There are discrepancies of up to 50 meters along the north coast.

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

### 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

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

The quadrangle details are on the Comparison Print in purple. The largest difference is in the shoreline at Punta Fajardo, of about 50 meters. The quadrangle pier arrangement at Playa de Fajardo is superseded.

### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

EX 5-1-64 (H-8813); 1:5,000; 1964 EX 10-1-64 (H-8814); 1:10,000; 1964

Notes pertaining to the boat sheets are on the ComparisonPrint in green.

(a) Two wrecks, one sunken (lat. 18° 20.32°, long. 65° 37.85°) and one that bares (lat. 18° 20.18°, long. 65° 30.77°) are on EX 5-1-64 but not on T-12145. They were not noted by the field—man, and are not visible on the photographs. It is noted that T-12145 shows a wreck, alongside a pier, about 50 meters SSW of the "wreck that bares"; this wreck is 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) A "concrete post" at lat. 18° 20.01, long. 65° 30.11; and an unlabelled 2.5 mm circle, shown on the Chart 921 as a sign, at lat. 18° 20.1, long. 65° 30.14, are not on this map. They are not visible on the photographs, and were not noted by the field inspector or the field editor.
- (c) Color photographs 62-S-486 and 487 show something going on (dredging, sheet piling, or ?) at the mouth of Rio Fajardo. However, no mention is made by the field inspection or edit and/or the 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 noting the area, particularly in view of the boat sheet note.
- (d) The area west from lat. 18° 23.2, long. 65° 37.5° that is labelled "Mud flats" on boat sheet EX 10-1-64, is characterized by breakers on the photographs, and was labelled "Co" by the field inspector on photograph 59-S-3948.
- (e) A "wire mesh sea breaker" is shown enclosing a small off-shore area at lat. 18° 21.55°, long. 65° 37.55° on the boat sheet. It is not visible on the photographs and was not noted by the field inspector or editor.

### 65. COMPARISON WITH NAUTICAL CHARTS:

Chart 921; 1:10,000; 8th Edition; June 27, 1966 Chart 917; 1:40,000; 6th Edition; May 16, 1966 Chart 904; 1:100,000; 12th Edition; June 19, 1967

Chart details conflicting with T-12145 areaon the Comparison Print in red.

- (a) Chart 921 shows the two wrecks noted in paragraph (a) of Item 64.
- (b) The chart shows a wreck that bares particually at lat. 18° 20.33°, long. 65° 37.95° that is not on this map. It is not visible on the photographs, was not noted by the field inspector and/or editor, and is not on the boat sheet.
- (c) The "Posts" noted in paragraph (b) of Item 64 are on the chart.
- (d) The chart shows ten "rocks awash" scattered off Punta Fajardo, near lat. 18° 20', long. 65° 37.55' that are not on T-12145. They are not visible on the photographs, not noted by the field parties; and about half of these may be the "specks" on boat sheet EX 5-1-64, but the other half are not on the boat sheet.

- (e) The breakwater (?) at lat. 18° 21.55¹, long. 65° 37.55¹, is called a "wire mesh sea breaker" on boat sheet EX 5-1-6¼, and is discussed in paragraph (e) of Item 6¼. It is noted that the pier and jetty on T-121¼5 are from field notes made by the field editor on 1:10,000 ratio hydro support photograph 61-W-1725.
- (f) The "pile" at lat. 18° 22.05', long. 65° 37.5' is on the boat sheet as "conc anchor buoy post bares 2' mlu". It is not visible on the photographs and was not noted by the field inspector or editor.
- (g) The area shown as mud flats on the boat sheet, see paragraph (d) Item 64, is on the chart as an area of sunken rocks.
- (h) The chart shows an area just offshore at lat. 18° 20.4° "Being filled" which is not noted on T-12145. No note was made by the field man, and there is none on the boat sheet.
- (i) The chart shows some islets at lat. 18° 23.3', long. 65° 37.55' that are not on this map. This area was compiled at 1:5,000 scale on T-12139 and it is believed to be properly delineated on T-12139 and T-12145. There was no field edit in the area and little field inspection but the various black and white, and color photographs were carefully examined.
- (j) The Comparison Print shows shoreline discrepancies of up to 40 meters.

### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

No accuracy tests were run in the field. The map complies with the project instructions, meets the Bureau requirements, and the National Standards for Map Accuracy.

Reviewed by:

M. W. Slavney

M. M. Slavney

Approved by:

For Bill, Stank, USESSA

Director, Atlantic Marine Center

Approved by:
Chief, Photogrammetric Branch

Chief Nautical Chart Division

Chief, Photogrammetry Section

# NOTES TO VERIFIER T-12145 Project Ph-6106 BOAT SHEETS EX5-1-64(H-8813) and EX10-1-64(H-8814)

Please note Items  $t\mu$  and 65 of the Final Review and The Comparison Print enclosed with the original 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.

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FORM CAGS-8382 SUPERSEDES ALL EDITIONS OF FORM CAGS-975

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