

12139

Original

12139

12139

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (<i>Photogrammetric</i>)
Field No.	Office No. T-12139
LOCALITY	
State	PUERTO RICO
General locality	EAST COAST
Locality	BAHIA LAS CABEZAS
1958 - 1961	
CHIEF OF PARTY	
M. L. Olivier, Chief of Field Party 708	
V. R. Sobieralski, Tampa District Officer	
LIBRARY & ARCHIVES	
DATE	1 JUL 1968

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 12139

PROJECT NO. (II): PH-6106		
FIELD OFFICE (II): Puerto Rico		CHIEF OF PARTY M. L. Olivier
PHOTOGRAMMETRIC OFFICE (III): Tampa, Florida		OFFICER-IN-CHARGE V. Ralph Sobieralski
INSTRUCTIONS DATED (II) (III): August 30, 1961 Amendment January 15, 1962 * * Interior features restricted to those features useful to photo hydro support. etc		
METHOD OF COMPILATION (III): Kelsh		
MANUSCRIPT SCALE (III): 1:5,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:3,000
DATE RECEIVED IN WASHINGTON OFFICE (IV): APRIL 13, 1968 MAY 25 1962		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): Puerto Rico		VERTICAL DATUM (III): MEAN SEA LEVEL AS FOLLOWS: MHW 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
REFERENCE STATION (III): POINT SAN DIEGO 1902 (CAPE 1901)		
LAT.: 18°22'55.805(1715.7 m)	LONG.: 65°38'39.532"(1160.4 m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y = 199,876.04 FT. X = 773,555.60 FT.		STATE Puerto Rico
		ZONE P.R. Lambert
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.		

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III): M. I. Olivier		DATE: Nov. 1961 *
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Date of Photography: Oct. 1961 Air photo compilation		
PROJECTION AND GRIDS RULED BY (IV): A.R. (W.O.)		DATE Apr. 1962
PROJECTION AND GRIDS CHECKED BY (IV): A.R. (W.O.)		DATE Apr. 1962
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE Apr. 1962
CONTROL CHECKED BY (III): R. E. Smith		DATE Apr. 1962
RASTER PLOTTER STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office		DATE Mar. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. E. Smith	DATE May 1962
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): R. E. Smith		DATE May 1962
SCRIBING BY (III): R. E. Smith		DATE June 1964
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse (Compilation Manuscript) R. E. Smith Final		DATE May 1962 June 1964
REMARKS: * Date approximate, [redacted] taken from Control Station Identification Card. see page 7 & 7A		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Single lens Wild "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
61-W-1735	10/26/61	15:58	1:15,000 Dia-	0.6 ABOVE MLN
" " 1736	"	15:59	" positives	" " "
58-S-2817	Oct 31 1958	11:12	1:10,000 color	
" " 2818	no date furnished	11:13	" print	
	10/31/58			

PREDICTED TIDE (III)

		RATIO OF RANGES	MEAN RANGE	Diurnal SPRING RANGE
REFERENCE STATION:	San Juan		1.1	1.3
SUBORDINATE STATION:	Bahia de Fajardo	1.0	1.1	1.4
SUBORDINATE STATION:				
Atlantic Marine Center WASHINGTON OFFICE REVIEW BY (IV):		DATE: JUNE 1967		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	1	RECOVERED: 1	IDENTIFIED: 1	
NUMBER OF BM(S) SEARCHED FOR (II):	None	RECOVERED:	IDENTIFIED	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0				

REMARKS:

No field edit noted

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12139

Shoreline manuscript T-12139 is one of eight 1:5,000 scale maps in Ph-6106 (21042) 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 maps T-12150, T-12151 and T-12161 of this project are in a "~~postponed~~" status until some future ~~date~~. *cancelled.*

WUS

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 flown with the "S" camera on April 18, 1959. 1:15,000 diapositives, 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 used for reference. 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 from the 1961 "W" photography and provided for photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. Some incidental field edit was done during the 1964 hydrography; none was submitted for this map. The western limits of hydrography was longitude $65^{\circ} 38.65'$.

The compilation manuscript was a vinylite sheet one minute, 52.5 seconds in latitude, and one minute 52.5 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT - 7 -

2. AREAL FIELD INSPECTION

T-12139, T-12142, 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 Reservation.

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 on the 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
Michael L. Olivier

2. AREAL FIELD INSPECTION

T-12139, T-12142, 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 Reservation.

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.

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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.

8.

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.

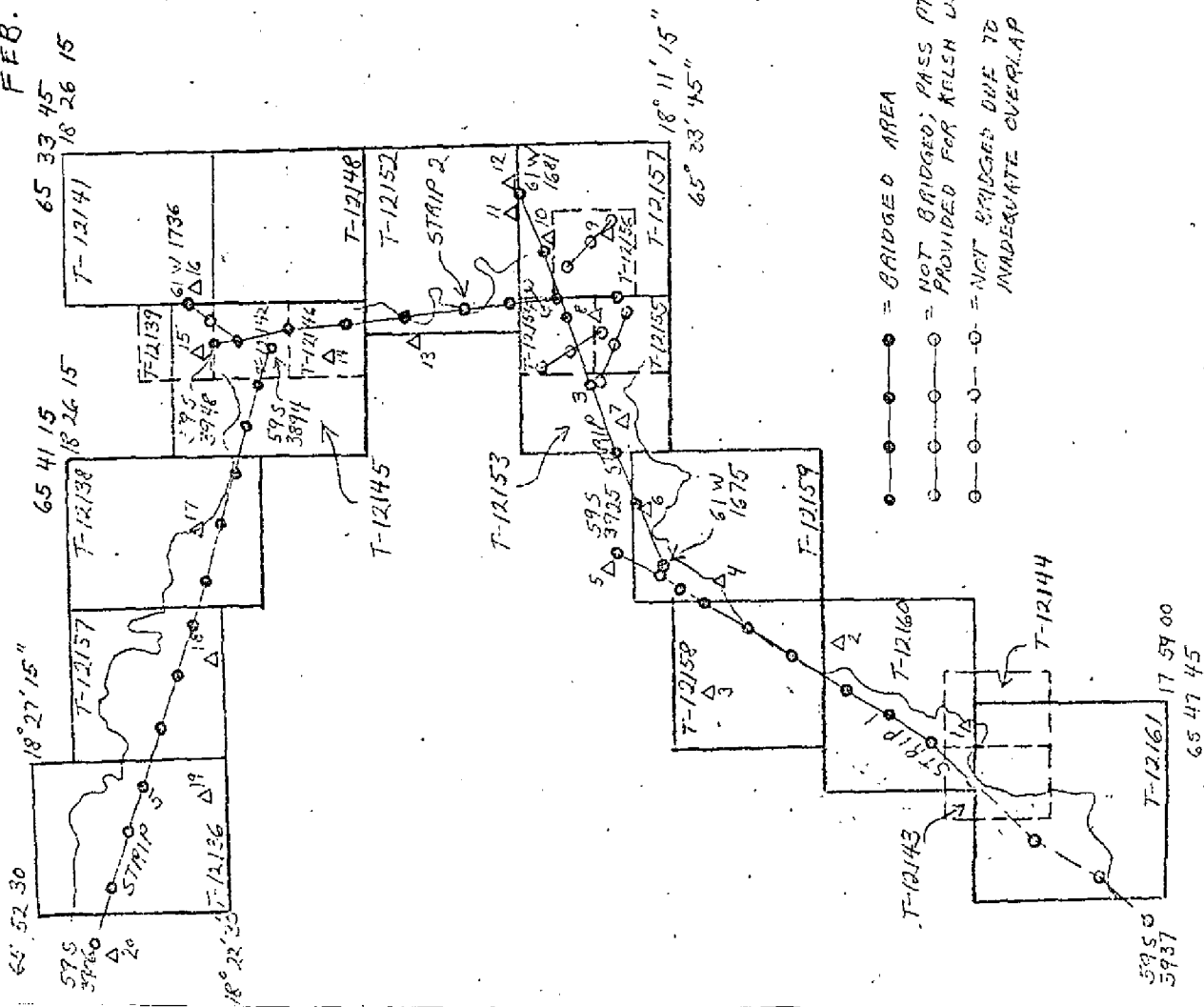
Submitted by:

R. E. Fuechsel
R. E. Fuechsel

Approved:

E. H. Ramey
E. H. Ramey, Chief
Aerotriangulation Section

PUERTO RICO - EAST COAST PROJECT PH-6106 FEB. 1962



TRIANGULATION LIST

1. GUAYANES 2, 1923-SUB. 1+2
2. BATATA, 1901-SUB. 1+2
3. PASTO VIEJO EASTERN SUGAR ASSN. WA. COM. STACK, 1941
4. HUMACAO PLAYA CH. (USGS) 1934
5. NAGUABO CH. (USGS) 1934
6. COLON (USGS) 1941-SUB. 1+2
7. LOMA 1941-SUB. 1+2
8. HENDIA 1941-SUB. 1+2
9. CABRAS IS. LT., 1941
10. MUNDO, 1926-SUB. 1+2
11. PINERITA 2, 1941-SUB. 1+2
12. CAJON DE PEREZ LT., 1923
13. PENEDO, 1941-SUB. 1+2
14. CENTRAL FAJARDO NORTH STACK, 1941
15. CAPE, 1901-SUB. 1+2
16. CAPE SAN JUAN LIGHT HOUSE, 1900
17. LUQUILLO CH. (USGS) 1934
18. PALMER (USGS) 1939-SUB. 1+2
19. RIO GRANDE CHURCH (USGS) 1934-SUB. 1+2
20. SANTA INEZ, 1902-SUB. 1+2

COMPILATION REPORT

T-12139

PHOTOGRAMMETRIC PLOT REPORT

See pages 8 & 8A.
The stereotriangulation bridge was run in the Washington Office. The report is included with T-12157 Descriptive Report.

31. DELINEATION

The Kelsh Plotter was used. Only the shoreline and offshore details were shown.

32. CONTROL

See item Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

598-3948
Shoreline inspection was done on 1959 ratio photographs. Compilation was done from 1961 photos. The inspection was fair and with office interpretation it is believed that the shoreline meets the required accuracy. No low water line was shown.

Color photographs 58-S-2817 and 2818 were used to assist in interpreting coral ledge along eastern limits.

36. OFFSHORE DETAILS

Where a fairly sharp line could be seen on the photographs the coral symbol was shown. In most of the area, the breakers prevented this, hence a dashed line was shown and labeled approximate limits of coral.

37. LANDMARK AND AIDS

None.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Shoreline and alongshore pass points compiled	May 1962	Superseded
Compilation complete, no additions	June 1966	Superseded
No field edit Some revisions in final review	June 1967	

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

This map comprises the northeast portion of 1:10,000 scale map T-12145. It joins T-12142 (1:5,000 scale to the south and T-12141 (1:10,000 scale) to the east. There is no survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle FAJARDO, PUERTO RICO, 1:20,000 scale, revised in 1958. The limits of coral do not agree, but the exact limits could not be determined from the photographs. The shoreline is in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 917, scale 1:40,000 edition of May 1930 revised Oct. 1959 and chart 921 scale 1:10,000, edition of Dec. 1930 and corrected to Sept. 1958. Same differences as stated under Item 46, appear here.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. E. Smith
R. E. Smith
Carto-photo aid

APPROVED AND FORWARDED:

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

GEOGRAPHIC NAMES
FINAL REVIEW LIST
Ph-6106
T-12139 (Shoreline)

✓ ATLANTIC OCEAN

✓ BAHIA LAS CABEZAS

✓ CABEZA CHIQUITA

✓ LAGUNA AGUAS PRIETAS

✓ LAGUNA GRANDE

✓ PASAJE DE SAN JUAN

Names from FINAL NAME SHEET (#6 of 7) on FAJARDO, P.R. quadrangle
by the Geographic Names Section.

M. M. Slavney
M. M. Slavney
Final Review

*Names approved
May 28, 1968*

*A. J. Wright
Frank W. Fickett*

49. NOTES FOR THE HYDROGRAPHER

No marked topographic stations were established. Limits of coral reefs should be verified by the hydro 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.

FORM 182
(3-61)

PHOTOGRAMMETRIC OFFICE REVIEW OF
T. 12139

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

COMPILATION

1. PROJECTION AND GRIDS WHS		2. TITLE WHS		3. MANUSCRIPT NUMBERS WHS		4. MANUSCRIPT SIZE WHS		
		1a Classification label <u>unclassified</u>						
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX				
	7. PHOTO HYDRO STATIONS XX		8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT W. O.	
	11. DETAIL POINTS IIS							
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. WHS		15. BRIDGES XX	
	16. AIDS TO NAVIGATION XX		17. LANDMARKS XX		18. OTHER ALONGSHORE PHYSICAL FEATURES WHS			
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS							
PHYSICAL FEATURES	20. WATER FEATURES WHS			21. NATURAL GROUND COVER XX				
	22. PLANETABLE CONTOURS XX			23. STEREOSCOPIC INSTRUMENT CONTOURS XX				
	24. CONTOURS IN GENERAL XX			25. SPOT ELEVATIONS XX				
	26. OTHER PHYSICAL FEATURES XX							
CULTURAL FEATURES	27. ROADS XX		28. BUILDINGS XX		29. RAILROADS XX			
	30. OTHER CULTURAL FEATURES XX							
BOUNDARIES	31. BOUNDARY LINES XX			32. PUBLIC LAND LINES XX				
MISCELLANEOUS	33. GEOGRAPHIC NAMES WHS			34. JUNCTIONS WHS				
	35. LEGIBILITY OF THE MANUSCRIPT WHS		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT WHS			
	38. FIELD INSPECTION PHOTOGRAPHS WHS			39. FORMS WHS				
	SIGNATURE OF REVIEWER <i>William H. Shearouse</i> William H. Shearouse			SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Milton M. Slavney</i> Milton M. Slavney				
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.								
SIGNATURE OF COMPILER <i>No. F.E. submitted for this map</i>			SIGNATURE OF SUPERVISOR <i>M. M. Slavney</i>					

USE REVERSE SIDE FOR REMARKS

USC OMM-DC 25353-P61

TIDE COMPUTATION

PROJECT NO. Ph- 6106 T- 12/39

Time and date of exposure 1554 Oct 26, 1961 Reference station SAN JUAN
 Date of field inspection 1554 Oct 26, 1961 Subordinate station Bahia de Fajardo

Diurnal 1.95
 Mean range 1.7
 Ratio of ranges 1.0

	Time		Height feet	Height x Ratio of ranges	Time h. m.	Time h. m.
	h.	m.				
High tide	10	44	2.0	2.0	10 53	17 21
Low tide	17	20	0.5	0.5	0 09	0 11
Duration of rise or fall	6	36	1.5	1.5	10 44	17 20

	h.	m.			feet	Photo. No.
Time H. T. or L. T.	17	20	Ht. H. T. or L. T.	Feature bares	0.6	61-W-1735
Required time	15	54	Tabular correction	Stage of tide above MLW		
Interval	1	26	Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.	Feature bares		
Required time			Tabular correction	Stage of tide above MLW		
Interval			Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.	Feature bares		
Required time			Tabular correction	Stage of tide above MLW		
Interval			Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.	Feature bares		
Required time			Tabular correction	Stage of tide above MLW		
Interval			Stage of tide above MLW	Feature above MLW		
Time H. T. or L. T.			Ht. H. T. or L. T.	Feature bares		
Required time			Tabular correction	Stage of tide above MLW		
Interval			Stage of tide above MLW	Feature above MLW		

Computed by R.E. Smith Checked by 11 Sapientia

FIELD EDIT REPORT
T-12139

No field edit was done for T-12139.

REVIEW REPORT T-12139
SHORELINE
AUGUST 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey 4205, 1:20,000, 1921 Puerto Rico Datum.

The shoreline and offshore details from No. 4205 are on the Comparison Print in blue.

The 4x enlargement required for comparison reveals shoreline differences to 50 meters, which isn't surprising. It is noted that 4205 shows none of the rocky islets offshore at latitude $18^{\circ} 23.3'$, longitude $65^{\circ} 37.55'$; and showed no shoreline for Laguna Grande, in the southeast portion of T-12139.

This map supersedes the previously registered surveys for nautical chart constructions.

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 4x enlargement required reveals shoreline differences to 45 meters, with some areas in fair agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS.

Boatsheet EX-10-1-64(H-8814), 1:10,000, 1964 western limits are at longitude $65^{\circ} 38.66'$.

The boatsheet notes are on the Comparison Print in green.

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 921 western limits are at longitude $65^{\circ} 38.37'$ and the chart details are on the Comparison Print in red. Chart 917, at 1:40,000, would require an 8x enlargement which precludes a valid comparison.

Chart 921 shows four islets near lat. $18^{\circ} 23.3'$, long. $65^{\circ} 37.55'$ that are not on T-12139. There was little inspection and no field edit in this area and the delineation is from careful examination of all the available photographs.

NOTES TO VERIFIER
T-12139 Project Ph-6106 (21042)
BOAT SHEET No. EX-10-1-64

There are some small rock islands and a ledge shown at latitude 18° 23.3', longitude 65° 37.55' that are not on the boatsheet.

