

T-12143

ORIGINAL

T-12143

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

Type of Survey ..... Shoreline  
Job No. .... PH-6904 ..... Map No. T-12143 .....  
Classification No. .... Edition No. .... 1 .....  
Field Edited Map

### LOCALITY

State .. Puerto Rico .....  
General Locality ..... South Coast .....  
Locality ..... Caño de Santiago .....  
.....

1970 TO 1976

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72) <span style="float: right;">U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.</span>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. <u>X 12143</u> MAP EDITION NO. <u>1</u> MAP CLASS <u>Final</u> 6904 JOB PH. _____			
DESCRIPTIVE REPORT - DATA RECORD							
PHOTOGRAMMETRIC OFFICE  Coastal Mapping Division Norfolk, Va. OFFICER-IN-CHARGE  Jeffrey G. Carlen, Cdr.		LAST PRECEDING MAP EDITION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           TYPE OF SURVEY  <input type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </td> <td style="width: 50%;">           JOB PH. _____            MAP CLASS _____            SURVEY DATES:            19__ TO 19__         </td> </tr> </table>				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__						
I. INSTRUCTIONS DATED							
1. OFFICE			2. FIELD				
Compilation Oct. 16, 1970			April 7, 1969 January 23, 1970 January 31, 1972 November 16, 1972				
II. DATUMS							
1. HORIZONTAL: <input type="checkbox"/> 1927 NORTH AMERICAN			OTHER (Specify) Puerto Rico				
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL			OTHER (Specify)				
3. MAP PROJECTION  Polyconic			4. GRID(S) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE Puerto Rico</td> <td style="width: 50%;">ZONE 1</td> </tr> </table>			STATE Puerto Rico	ZONE 1
STATE Puerto Rico	ZONE 1						
5. SCALE 1:5,000			STATE ZONE				
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME		DATE			
1. AEROTRIANGULATION METHOD: Analytic		BY R. Kelly LANDMARKS AND AIDS BY R. Kelly		Sep 1970 Sep 1970			
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat		PLOTTED BY P. Dempsey CHECKED BY P. Dempsey		Oct 1970 Oct 1976			
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:7,500		PLANIMETRY BY B. Barge CHECKED BY L. Graves CONTOURS BY NA CHECKED BY NA		Jun 1971 Jun 1971			
4. MANUSCRIPT DELINEATION  METHOD: Smooth drafted SCALE: 1:5,000		PLANIMETRY BY J. Byrd CHECKED BY F. Margiotta CONTOURS BY NA CHECKED BY NA HYDRO SUPPORT DATA BY J. Byrd CHECKED BY F. Margiotta		Jul 1974 Jul 1974			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		BY F. Margiotta		Jul 1974			
6. APPLICATION OF FIELD EDIT DATA		BY D. Butler CHECKED BY F. Margiotta		Aug 1976 Sep 1976			
7. COMPILATION SECTION REVIEW		BY F. Margiotta		Sep 1976			
8. FINAL REVIEW		BY A. L. Shands		Oct. 1977			
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY A. L. Shands		Dec 1977			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY J.B. Phillips		Jan. 1978			
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY R.T. Catbr		Mar 1978			

NOAA FORM 76-36B  
(3-72)T-12143  
COMPILATION SOURCESU. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 "E"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Atlantic MERIDIAN 60th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70E(C) 5980-5984	2/27/70	12:32	1:15,000	0.2 ft. above MLW	

REMARKS

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The MHWL was compiled from the above listed photographs.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

None compiled.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	T-12144	T-12161	T-12161

REMARKS

T-12161 is 1:10,000 scale.

T-12143

## HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Wilson	Feb 1970
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. V. Hull	Jun 1976
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None W. V. Hull None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W. V. Hull
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
70E(C) 5981 & 5983			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	

## 7. SUPPLEMENTAL MAPS AND PLANS

Engineering drawings for site plan Yabucoa Harbor.

## 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

Field Edit ozalid 2 forms 76-40  
Field Edit REport  
Computer Readout



T-12143

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	May 1974	Class III manuscript		1/2/75 12/2/75
Field edit applied. Compilation complete.	Aug 1976	Class I manuscript	9/22/76	
Final Review	Oct 1977	Final	12/30/77	

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		9-29-76	Aid for charts

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

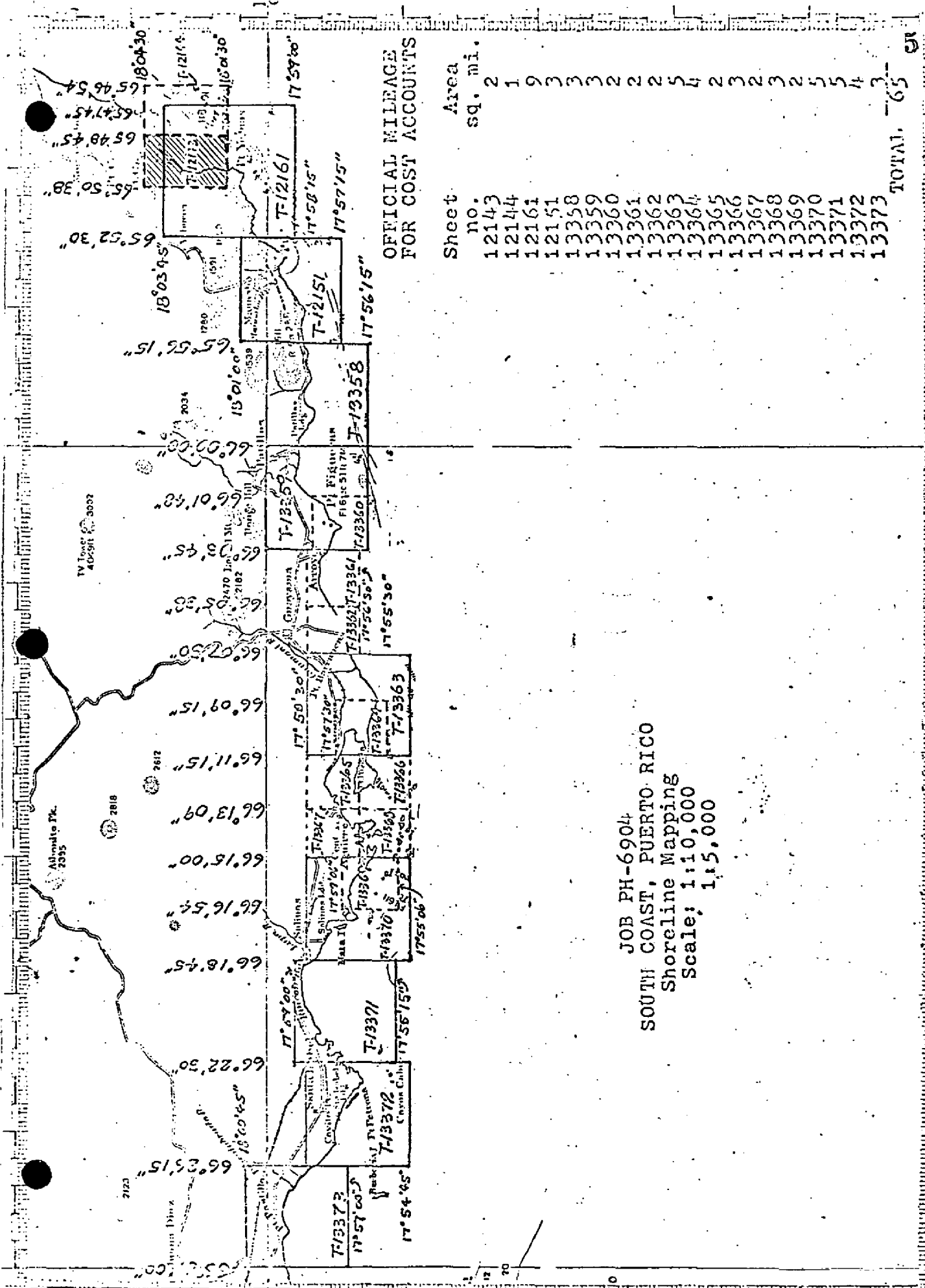
## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



# OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	2
12144	1
12161	3
12151	3
13358	3
13359	2
13360	2
13361	2
13362	2
13363	2
13364	2
13365	2
13366	2
13367	2
13368	2
13369	2
13370	2
13371	2
13372	2
13373	2
<b>TOTAL</b>	<b>65</b>



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORTS

T-12143, T-12144, T-12151, T-12161 and  
T-13358 thru T-13362

The maps included in this summary cover the eastern portion of project PH-6904. They are all standard shoreline maps which were prepared to provide shoreline in support of hydrographic operations and nautical chart construction. These maps cover the south coast of Puerto Rico from Punta Icacos westward to Punta Barrancas.

Photographs of the area were flown in March, 1970. Glare covers most of the water area. The black and white ratio photographs made from color contact prints are dark and the resolution is not good. Delineation of offshore and alongshore area details was made difficult by these factors.

No clarification of details was made prior to compilation. Precompilation field work was limited to the recovery and identification of horizontal control necessary for bridging.

Compilation was done at the Atlantic Marine Center by instrument and graphic methods. The Wild B-8 stereoplotter was used.

These maps were field edited in March and April, 1976. The edit items were applied to the maps at the Atlantic Marine Center in August and September, 1976.

Final review was performed at the Atlantic Marine Center in October and November, 1977. The original base manuscripts were forwarded to the Washington Science Center for reproduction and final registration.



## FIELD INSPECTION

T-12143

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the bridging.

Aerotriangulation Report  
PH-6904  
South Coast of Puerto Rico  
September 1970

21. Area Covered

This report covers the Southern Coast of Puerto Rico, consisting of (9) 1:10,000 scale T-sheets, 12151, 12161, 13358, 13359, 13363, 13370 thru 13373 and (11) 1:5,000 scale T-sheets, 12143, 12144, 13360 thru 13362 and 13364 thru 13369.

22. Method

Two strips 1:40,000 and one strip of 1:5,000 scale color photography were bridged by analytical methods to provide horizontal control points for compilation and shoreline points for ordering 1:10,000 and 1:5,000 scale ratio prints. The attached sketch of the strips bridged shows the placement of horizontal control points used in the strip adjustments. A list of closures to control is part of this report. Positions of all compilation points and control stations have been plotted on the manuscripts by the Coradi.

23. Adequacy of Control

The horizontal control used is on the new adjustment of the Puerto Rico datum. All control was adequate and held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 and 1:5,000 scales. Tie points were used to augment datum tie between strips 1, 2 and 3.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of bridges.

25. Photography

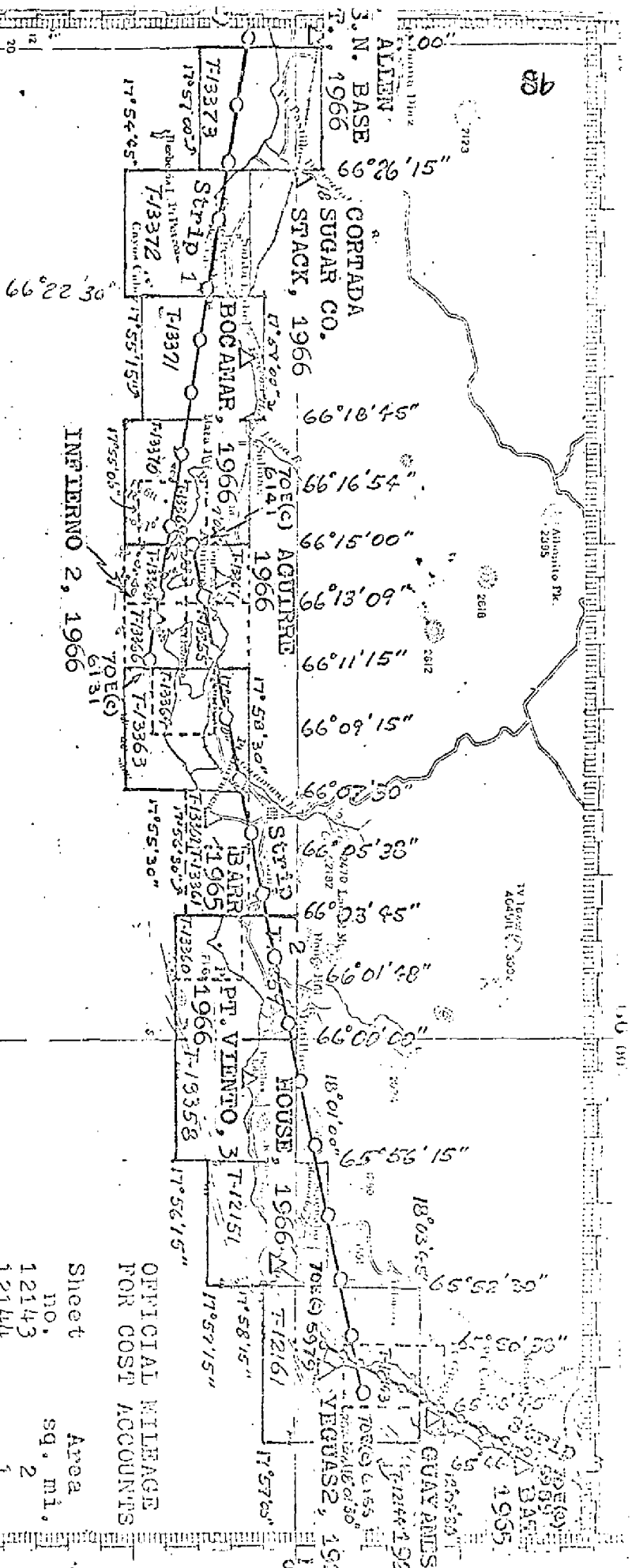
RC-8 E color photography was adequate as to coverage overlap and definition.

Submitted by,

*Robert B. Kelly*  
Robert B. Kelly

Approved and forwarded,

*Henry P. Eichert*  
Henry P. Eichert  
Chief, Aerotriangulation  
Section

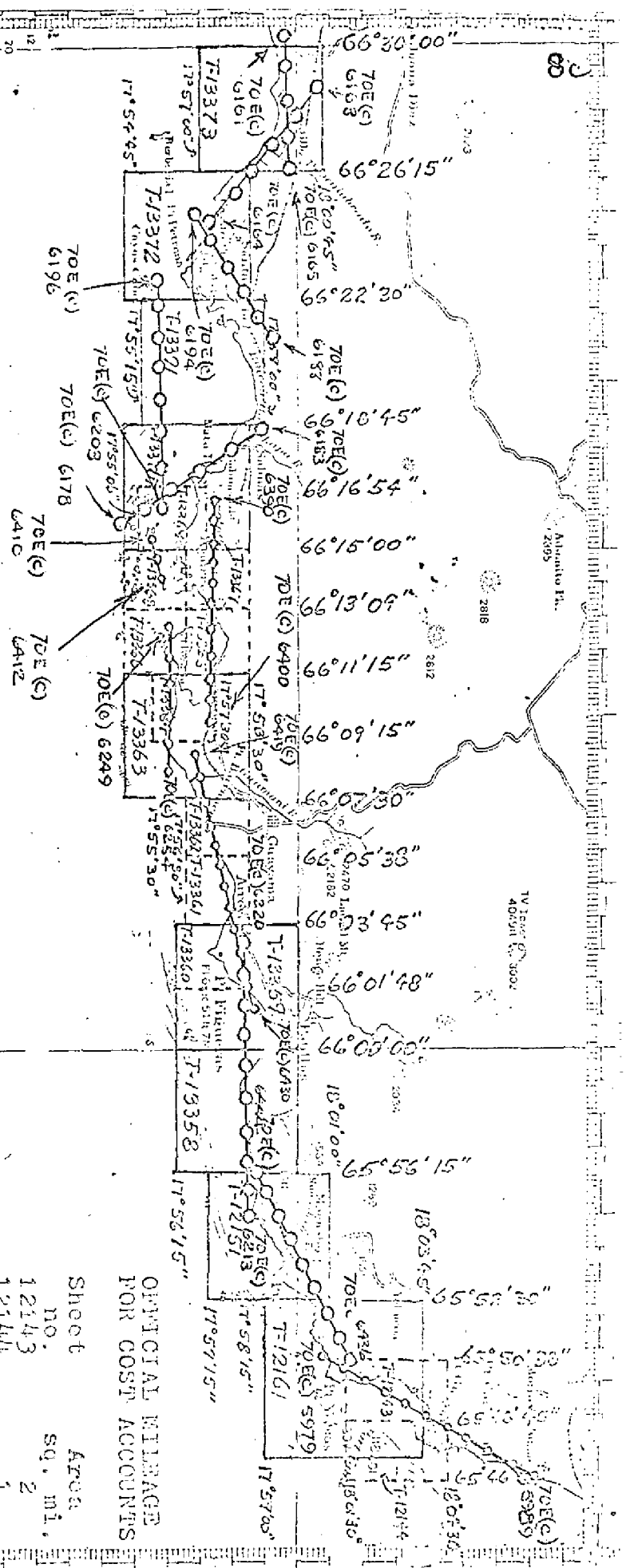


JOB PH-6904  
SOUTH COAST, PUERTO RICO  
Shoreline Mapping  
Scale: 1:10,000  
1:5,000

BRIDGES PHOTOS

OFFICIAL MILEAGE  
FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	1
12144	2
12161	1
12151	1
13338	1
13359	1
13360	1
13361	1
13362	1
13363	1
13364	1
13365	1
13366	1
13367	1
13368	1
13369	1
13370	1
13371	1
13372	1
13373	1
TOTAL	35



COMPUTATION NOTES

JOB 111-6901  
 SOUTHERN COAST, PUERTO RICO  
 Shoreline Mapping  
 Scale: 1:10,000  
 1:5,000

OFFICIAL MILEAGE  
 FOR COST ACCOUNTS

Sheet No.	Area Sq. mi.
12143	1
12144	2
12161	1
12151	2
13358	3
13359	3
13360	3
13361	3
13362	3
13363	3
13364	3
13365	3
13366	3
13367	3
13368	3
13369	3
13370	3
13371	3
13372	3
13373	3

## LEGEND

- $\Delta$  CONTROL USED IN ADJUSTMENT  
 ( ) CLOSURES OF BRIDGE TO CONTROL SHOWN  
 IN PARENTHESES  
 $\Delta$  CONTROL USED AS CHECK.

## STRIP 1

- $\Delta$  FT. ALLEN U.S.N. BASE W.T. (0.0, 0.0)  
 $\Delta$  " " " SUB.STA. A (-0.4, 0.0)  
 $\Delta$  CORTADA SUGAR CO. STACK 1966 (+0.8, +0.1)  
 $\Delta$  " " " SUB.STA. A (+1.2, +1.2)  
 $\Delta$  BOCANAR, 1966 SUB. STA. A (0.0, 0.0)  
 $\Delta$  INFIERNO 2, 1966 (0.0, 0.0)

## STRIP 2

- $\Delta$  INFIERNO 2, 1966 (-0.6, +0.3)  
 $\Delta$  AGUIRRE, 1966 (-1.3, +0.6)  
 $\Delta$  BARR, 1965 (-0.6, -1.0)  
 $\Delta$  PT VIENTO 3, 1966 (-1.2, -0.8)  
 $\Delta$  HOUSE, 1966 SUB STA. A (+1.1, +0.4)  
 $\Delta$  YEGUAS 2, 1965 (+1.1, -0.6)  
 $\Delta$  YEGUAS 2, 1965 SUB STA. A (+0.3, -0.2)

## STRIP 3

△	YEGUAS 2, 1965	(0.0, 0.0)
△	YEGUAS 2, 1965 SUB. STA. A	(0.0, 0.0)
△	GUAYANES 2, 1923	(0.0, 0.0)
△	BAT, 1965	(0.0, 0.0)



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	PH-6904	GEODETIC DATUM	COORDINATES IN FEET STATE <u>Puerto Rico</u> ZONE <u>1</u>	AEROTRI- ANGULATION POINT NUMBER	ORIGINATING ACTIVITY Coastal Mapping Division Norfolk, Va.	REMARKS FORWARD BACK
							$\phi$ LATITUDE $\lambda$ LONGITUDE	
	NONE				X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
					X=		$\phi$	
					Y=		$\lambda$	
COMPUTED BY					COMPUTATION CHECKED BY			DATE
LISTED BY					LISTING CHECKED BY			DATE
HAND PLOTTING BY					HAND PLOTTING CHECKED BY			DATE

## COMPILATION REPORT

T-12143

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale color photography. Quality of photographs was adequate.

32. CONTROL:

See the attached Aerotriangulation Plot Report, dated Sept. 1970.

33. SUPPLEMENTAL DATA:

**None A.L.S.**

~~Engineering drawings submitted with field~~  
~~field data: Site Plans for Yabueca Harbor,~~  
~~winning basin & large slip~~

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore details were delineated with the Wild B-8 stereoplotter from office interpretation of the photographs.

36. OFFSHORE DETAILS:

No unusual problems.

37. LANDMARKS AND AIDS:

Preliminary forms 76-40 for landmarks and/or aids were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle. Punta Guavanes, Puerto Rico, scale 1:20,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with National Ocean Survey chart 918, Scale 1:10,000, 5th edition, dated 1967.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*A.C. Rauck, Jr. For*  
Frank P. Margiotta  
Cartographic Technician  
7/5/74

Approved:

*Albert C. Rauck, Jr.*  
Albert C. Rauck, Jr.  
Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12143

FIELD EDIT:

The shoreline of the Turning Basin at Puerto Yabucoa was revised using a 1:5,000 scale drawing submitted by the field editor. Field computed traverse points were also submitted.

Submitted by:

*A. C. Rasmussen, Jr. FOR.*  
David Butler  
9/16/76

October 11, 1977

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6904 (South Coast, Puerto Rico)

T-12143

Caño de Santiago

Mar Caribe

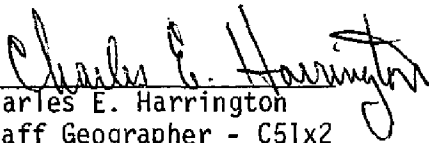
Playa de Guayanés

Puerto Yabucoa

Punta Quebrada Honda

Rio Guayanés

Approved by:

  
Charles E. Harrington  
Staff Geographer - C51x2



NOAA FORM 75-74  
(7-75)U.S. DEPARTMENT OF COMMERCE  
NOAA  
NATIONAL OCEAN SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

TR - 12143

1. PROJECTION AND GRIDS FPM	2. TITLE FPM	3. MANUSCRIPT NUMBERS FPM	4. MANUSCRIPT SIZE FPM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY XX	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) FPM		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES FPM	10. PHOTOGRAMMETRIC PLOT REPORT FPM	11. DETAIL POINTS FPM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE FPM	13. LOW-WATER LINE FPM	14. ROCKS, SHOALS, ETC. FPM	15. BRIDGES FPM
16. AIDS TO NAVIGATION FPM	17. LANDMARKS FPM	18. OTHER ALONGSHORE PHYSICAL FEATURES FPM	19. OTHER ALONGSHORE CULTURAL FEATURES FPM
PHYSICAL FEATURES			
20. WATER FEATURES FPM	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES
CULTURAL FEATURES			
27. ROADS FPM	28. BUILDINGS FPM	29. RAILROADS FPM	30. OTHER CULTURAL FEATURES FPM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES FPM	34. JUNCTIONS FPM		35. LEGIBILITY OF THE MANUSCRIPT FPM
36. DISCREPANCY OVERLAY FPM	37. DESCRIPTIVE REPORT FPM	38. FIELD INSPECTION PHOTOGRAPHS FPM	39. FORMS FPM
40. REVIEWER A. C. Rauck, Jr. FOR Frank Margiotta 7/74		SUPERVISOR, REVIEW SECTION OR UNIT A. C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER A. C. Rauck, Jr. FOR David Butler 8/76		SUPERVISOR A. C. Rauck, Jr.	
Reviewer: Frank Margiotta 9/76		A. C. Rauck, Jr.	
43. REMARKS A. C. Rauck, Jr. FOR			

FIELD EDIT REPORT  
PROJECT PH-6904  
SOUTH COAST, PUERTO RICO  
T-13362, T-13361, T-13360  
T-13359, T-13358, T-12151  
T-12161, T-12143, T-12144

This report is submitted for five 1:5,000 scale maps and four 1:10,000 scale maps. The Field Edit was accomplished during the spring season of 1976 by the NOAA SHIP MT MITCHELL MSS-22 personnel.

52 ADEQUACY OF COMPILATION

The compilation is generally good. After the application of field edit data and data from engineering drawings of Arroyo and Yabucoa, the compilation will be adequate for charting.

53 MAP ACCURACY

Map compilation as to horizontal position is good. A modified field test was conducted on several points. Horizontal control was field identified, transferred to the manuscript, position scaled and compared to the computed coordinates and generally the agreement was less than one meter.

54 RECOMMENDATIONS

None

55 GEOGRAPHIC NAMES

No discrepancies were noted except those that were questioned on the field sheet. Names of persons interviewed about names in question are shown on T-13362, Photo 70E6421, 70E6218, T-13358, and T-12151.

56 SHORELINE AND ALONGSHORE FEATURES

The entire shoreline was checked by either walking, truck or small boat. All rock heights were estimated by going alongside or near in a small boat. On some near shore rocks, heights were estimated by walking the shoreline. Field Edit was conducted on days when sea conditions were moderate to calm. During launch hydro, the officer in charge, referenced many alongshore features, but in general the sea conditions were rough and the hydro launch did not get as near to the objects as the small boat used by the field editors.

All field edit data is indicated on the Field Edit Ozalid and photographs and are cross referenced.

There is a small marina under construction in Arroyo. Engineering drawings are furnished with this report. At Punta Figuras shoreline that is subject to frequent change was located by sextant angle and tape measurements; the field data and shoreline change is shown on manuscript T-13360.

On the eastern limit of T-12151, a small section of shoreline is in error and should be corrected as indicated on Photo 70E6440.

On T-12143, Yabucoa harbor area, construction is still underway. The main harbor is completed with construction underway on the southeast side. Engineering drawing of the harbor and new construction are enclosed with this report. Nautical Chart 25661 7th Edition May 24/75 already reflects the main harbor. Tie-points were located throughout the harbor to assist in tying in with the engineering drawings. The shoreline immediately north of the riprap breakwater, as indicated on T-12143, is subject to daily change due to sand borrowing operations both landward and seaward of the mean high water line. The mouth of the stream is plugged on occasion with sand and debris, but continues to break through near the mouth as compiled. I recommend that the shoreline be charted as shown on photos and as compiled with note of frequent change.

#### 57 LANDMARKS AND AIDS


Form 76-40 was submitted for all nautical landmarks and fixed aids to navigation in the descriptive reports for the hydrographic surveys. Copies of those forms are attached to this report.

#### 58 GENERAL STATEMENT

All field edit notes have been made in violet ink on the field edit ozalids and ratio photographs.

It is recommended that photography of opportunity be obtained of the Yabucoa Harbor area and of the Palmas Del Mar harbor area, just north of Yabucoa. A special report was submitted on Palmas Del Mar to Director, Atlantic Marine Center with copy to CAMS.

Submitted 18 June 1976

  
Wesley V. Hull  
Captain, NOAA  
Commanding Officer  
NOAA Ship Mt Mitchell MSS-22



## NONFLOATING AIDS ~~ON~~ LANDMARKS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Replaces C&amp;GS Form 567.

CHARTING NAME		REPORTING UNIT (If field party, ship or office) Coastal Mapping Div. A.M.C. Norfolk, Va.		STATE	LOCALITY	DATE	COMPILED BY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)		
OPR PROJECT NO.		HAVE NOT	HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.	DATUM	Puerto Rico				
JOB NUMBER		SURVEY NUMBER							
Ph-6904		T-12143							
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
		° /	"	° /	"	OFFICE	FIELD		
		D.M. Meters		D.P. Meters					
LIGHT	Puerto Yabucoa Channel Breakwater Light	18 03	15.831 487 -	65 49	42.585 1252	F-2-6-V March, 1976		25661 25650	
LIGHT	" " " Light 5	18 02	16.571 1432 -	65 49	04.526 133	F-3-6-V March, 1976		" "	
LIGHT	" " " Light 6	18 02	52.966 1628	65 49	01.408 41	" "		" "	
LIGHT	" " " Light 7	18 02	58.610 1802	65 49	29.043 854	" "		25661	
LIGHT	" " " Light 8	18 03	04.770 147 -	65 49	25.713 756	" "		"	
LIGHT	" " " Light 9	18 03	09.643 296	65 49	51.882 1526	F-2-6-V March, 1976		"	
LIGHT	" " " Light 10	18 03	17.578 540	65 49	50.809 1492	" "		"	
LIGHT	" " " Range Front Light	18 03	23.498 722	65 50	12.181 358	F-3-6-V March, 1976		25661 25650	
LIGHT	" " " Range Rear Light	18 03	35.882 1103	65 50	37.686 1108	" "		" "	

## REVIEW REPORT

T-12143

## SHORELINE

61. GENERAL STATEMENT:

See Summary, page 6, of this Descriptive Report.

Map T-12143 is overlapped by 1:10,000 scale map T-12161 between lat. 18°01'30" and 18°04'30". Details in the overlap area are shown on T-12143 only.

The shoreline of the turning basin at Puerto Yabucoa was delineated using a sketch supplied by the field editor. The area was still under construction at the time of field edit. Some slight change in shoreline resulting from the continued construction is anticipated.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

No comparison was made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with unverified smooth sheet H-9609, MI-5-1-76. There were no significant differences.

The area immediately adjacent to the shoreline including the mean low water line, was not developed by the hydrographer.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25661, 1:10,000 scale, dated May 24, 1975.

The field editor was asked to verify the bluff south of Playa Guayanes. He indicated that the bluff is not of value.

The bare rock charted offshore from the bluff mentioned above is not visible on the photographs. The field editor verified the existence of several rocks awash in that area. Another bare rock charted just north of Punta Quebrada Honda is not visible on the photographs.

The general shape of the shoreline compares well however, there is a difference in the placement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

*A. L. Shands*

A. L. Shands  
Final Reviewer  
October 11, 1977

Approved for Forwarding:

*A. L. Shands For*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*A. K. Hargood*  
Chief, Photogrammetric Branch

*James G. ...*  
Chief, Coastal Mapping Div.