

T-12151 ORIGINAL

T-12151

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-12151 ..
Classification No. .. Edition No. .. 1 ..

Field Edited Map

LOCALITY

State .. Puerto Rico ..
General Locality .. South Coast ..
Locality .. Punta Tuna ..

19 70 TO 19 76

REGISTRY IN ARCHIVES

DATE ..

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC Norfolk, Va. OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR		SURVEY TR <u>12151</u> MAP EDITION NO. (1) MAP CLASS Final JOB PH- <u>6904</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC Norfolk, Va. OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR		LAST PRECEDING MAP EDITION 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 10/16/70		April 7, 1969 Jan 23, 1970 Jan 31, 1972 Nov 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) STATE Puerto Rico ZONE 1	
5. SCALE 1:10,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly	Sep 1970
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		P. Dempsey	Oct 1970
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT Wild B-8 & graphically SCALE: 1:10,000 CHECKED BY		B. Barge A. Shands NA NA	Mar 1971 Mar 1971
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY		B. Barge L. Neterer NA NA B. Barge L. Neterer	Apr 1971 Mar 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		L. Neterer	Mar 1972
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		C. Blood F. Margiotta	Aug 1976 Aug 1976
7. COMPILATION SECTION REVIEW BY		F. Margiotta	Aug 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. Cote	Mar 1978

T-12151
COMPILATION SOURCES

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) 6213 & 6214	3/5/70	13:22	1:20,000	0.8 ft. above MLW	
70E(C) 6440 - 6444	3/7/70	12:24	1:20,000	0.9 ft. above MLW	
70E(C) 6151 - 6153	3/5/70	11:13	1:40,000	0.6 ft. above MHW	
REMARKS					

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHWL was compiled from the above listed photography.

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-12161	No Survey	T-13358
REMARKS			

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12151
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. 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. 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	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)

70E(C) 6440

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 Goodey Division)

Field Edit Ozalid
Field Edit Report
1 Form 76-40

T-12151
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Wilson	Feb 1970
2. HORIZONTAL CONTROL	RECOVERED BY: J. Wilson ESTABLISHED BY: None PRE-MARKED OR IDENTIFIED BY: P.B.W.	Feb 1970
3. VERTICAL CONTROL	RECOVERED BY: NA ESTABLISHED BY: NA PRE-MARKED OR IDENTIFIED BY: NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY: J. Wilson LOCATED (Field Methods) BY: None IDENTIFIED BY: None	Feb 1970
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

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70E(C)6152	HOUSE 1966		

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)

I form 152

T-12151
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	Apr 1971	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
1		9-29-76	Landmark 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	

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 REPORT

T-12151

There was no field inspection prior to office compilation.

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

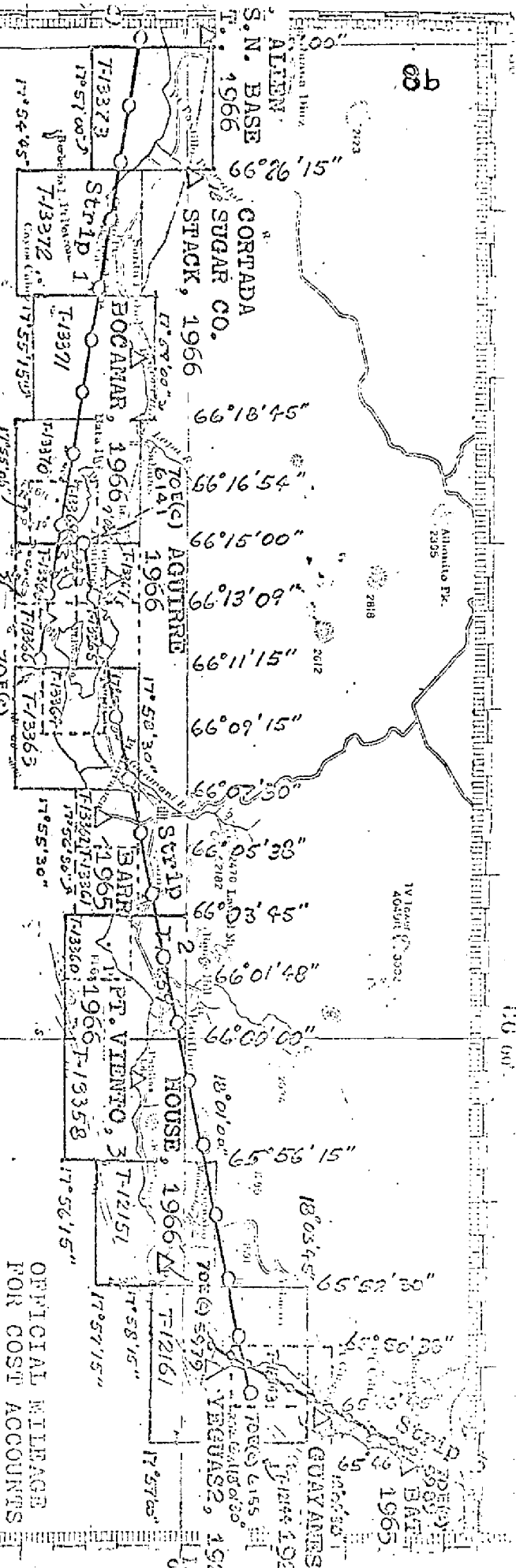
Approved and forwarded,

Henry F. Eichert
Henry F. Eichert
Chief, Aerotriangulation
Section

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

Bridging Notes

INFIerno 2, 1966



OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	2
12144	1
12161	1
13358	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	65

LEGEND

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

STRIP 1

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

STRIP 2

- Δ INFIerno 2, 1966 (-0.6, +0.3)
 Δ AGUIRRE, 1966 (-1.3, +0.6)
 Δ BARR, 1965 (-0.6, -1.0)
 Δ Pt VIENTO 3, 1966 (-1.2, -0.8)
 Δ HOUSE, 1966 SUB STA. A (+1.1, +0.4)
 Δ YEGUAS 2, 1965 (+1.1, -0.6)
 Δ 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.	JOB NO.	PH-6904	GEODETTIC DATUM		ORIGINATING ACTIVITY	
			COORDINATES IN FEET	Division, Norfolk, Va.		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	STATE	PUERTO RICO	Geographic Position	REMARKS
			ZONE	1	ϕ LATITUDE λ LONGITUDE	FORWARD BACK
T-12151	Gegdesy Pad 27176		X=		ϕ 17 58 52.91513	1626.8 (217.8)
			Y=		λ 65 54 55.82408	1642.4 (122.9)
POOR, 1966	Gegdesy Pad 27162		X=		ϕ 17 59 24.81820	763.0 (1081.6)
			Y=		λ 65 53 08.35044	245.7 (1519.5)
HOUSE, 1966	Form 164 P. 3 of 4		X= 685,395		ϕ	395 (4605)
			Y= 64,056		λ	4056 (944)
MAUNABO CHURCH (USGS), 1934	Geodesy Pad 27323		X=		ϕ 17 59 25.19196	774.5 (1070.1)
			Y=		λ 65 53 08.42112	247.8 (1517.4)
POINT TUNA LIGHTHOUSE, 1901			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
			X=		ϕ	
			Y=		λ	
COMPUTED BY	B. L. Barge	DATE	COMPUTATION CHECKED BY			DATE
LISTED BY		4/9/71	L. O. Neterer Jr.			3/27/72
HAND PLOTTING BY		DATE	LISTING CHECKED BY			DATE
		DATE	HAND PLOTTING CHECKED BY			DATE

COMPILATION REPORT

T-12151

31. DELINEATION:

Delineation was accomplished with the Wild B-8, except for alongshore features and offshore features, which were done graphically.

Because of glare, there was difficulty in defining the alongshore and offshore features.

The stereo instrument work was done with 1:40,000 photography. Points were selected common to the 1:20,000 photography which were processed for hydro support.

32. CONTROL:

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

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

All shoreline and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS:

See item #31.

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 Hydrographer for verification, addition and deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the Form 76-36B, item 5 of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle Yabucoa, P. R. and Punta Tuna, P. R., scale 1:20,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Charts 924, scale 1:20,000, 3rd edition, dated June 3, 1968 and 902, scale 1:10,000, 10th edition, dated March 28, 1970 (corr. thru N.M. 13/70).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

A. C. Rauch, Jr. For
Bernice L. Barge
Cartographic Aid
April 19, 1971

Approved:
Albert C. Rauch, Jr.
Albert C. RAUCK, Jr.
Chief, Coastal Mapping Section

ADDENDUM TO COMPILATION REPORT

T-12151

FIELD EDIT

In several instances the field editor gave rock height information on the photographs but failed to sufficiently identify the rocks. Attempts were made to office identify the rocks in question however, this was a best guess effort. The ratio photographs are dark and resolution is poor. These rocks are labeled position approximate on the map.

At Cabo Mala Pascua the field editor labelled "Rocks awash, see photo 70E 6214," on the field edit ozalid. The note at that location on the photograph reads "Rocks awash, see T-12151." No area limits are given and no specific rocks are identified. The compilation office did not show these rocks on the map. There is evidence on the photographs of ledge in the area. These ledge area limits were added to the map during final review.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer
10/25/77

October 11, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6904 (South Coast, Puerto Rico)

T-12151

Arrecife Sargent

Cabo Mala Pascua

Escuela Segunda Unidad Bordaleza

Mar Caribe

Puerto Maunabo (locality)

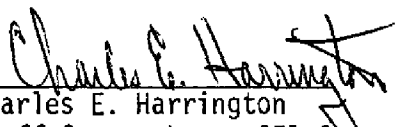
Punta Tuna

Quebrada Arenas

Quebrada Manglillo

Río Maunabo

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

TP - 12151

1. PROJECTION AND GRIDS LON		2. TITLE LON		3. MANUSCRIPT NUMBERS LON		4. MANUSCRIPT SIZE LON	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LON				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA	
8. BENCH MARKS NA		9. PLOTTING OF SEXTANT FIXES NA		10. PHOTOGRAMMETRIC PLOT REPORT LON		11. DETAIL POINTS LON	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE LON		13. LOW-WATER LINE NA		14. ROCKS, SHOALS, ETC. LON		15. BRIDGES NA	
16. AIDS TO NAVIGATION LON		17. LANDMARKS LON		18. OTHER ALONGSHORE PHYSICAL FEATURES LON		19. OTHER ALONGSHORE CULTURAL FEATURES NA	
PHYSICAL FEATURES							
20. WATER FEATURES LON				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 LON	
CULTURAL FEATURES							
27. ROADS LON		28. BUILDINGS NA		29. RAILROADS NA		30. OTHER CULTURAL FEATURES LO NA	
BOUNDARIES							
31. BOUNDARY LINES NA				32. PUBLIC LAND LINES NA			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES LON				34. JUNCTIONS LON		35. LEGIBILITY OF THE MANUSCRIPT LON	
36. DISCREPANCY OVERLAY LON		37. DESCRIPTIVE REPORT LON		38. FIELD INSPECTION PHOTOGRAPHS NA		39. FORMS LON	
40. REVIEWER <i>Lowell O. Neterer Jr.</i> Lowell O. Neterer Jr.				SUPERVISOR, REVIEW SECTION OR UNIT <i>A. C. Rauck, Jr.</i> 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 Field Edit: <i>C. Blood</i> 8/76 Reviewer: F. Margiotta 8/76				SUPERVISOR <i>A. C. Rauck, Jr.</i> A. C. RAUCK, Jr.			
43. REMARKS <i>A. C. Rauck, Jr. FOR</i>							

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 CAM5.

Submitted 18 June 1976


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

[illegible]

[illegible]

REVIEW REPORT

T-12151

SHORELINE

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

The field editor apparently recommended that the name, Puerto Maunabo, be changed. However, because the writing on the field edit ozalid is illegible and the staff geographer has approved the name, Puerto Maunabo, it is being retained on the map.

The name Playa Larga Long Beach also recommended by the field editor was deleted by the staff geographer.

See Addendum to Compilation Report, page 10C of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

No detailed comparison was made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparisons were made with H-9607 (MI-10-3-76) and H-9608 (MI-10-4-76). There were no significant differences.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25659, 1:20,000 scale, 5th edition, dated August 23, 1975 and Chart 25677, 1:100,000 scale, 13th edition, dated December 13, 1975.

* The form 76-40 states that the field editor did not verify the Spire as a LOMK.

J.B. Phillips

15b

A landmark spire located at Maunabo is not shown on the above mentioned editions of the charts. The feature is shown on earlier editions however. It is an old triangulation station and was recovered in 1970. The photographs show it in the same location as previously charted. The field editor verified it as a landmark.* The feature appears to be the same spire shown on previous editions of the charts.

A note on the field edit ozalid states that the mcuth of the Rio Maunabõ is now closed.

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 25, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

W.K. Hargrove

Chief, Photogrammetric Branch

James Altman

Coastal Mapping Division