

T-13364

ORIGINAL

T-13364

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-13364	Edition No. 1
Job No. PH-6904	
Map Classification Field Edited Map	
Type of Survey Shoreline	
LOCALITY	
State Puerto Rico	
General Locality South Coast	
Locality Puerto De Jobos	
1970 TO 19 75	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.																											
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td><input checked="" type="checkbox"/> ORIGINAL</td> <td></td> </tr> <tr> <td><input type="checkbox"/> RESURVEY</td> <td></td> </tr> <tr> <td><input type="checkbox"/> REVISED</td> <td></td> </tr> </table>		TYPE OF SURVEY		<input checked="" type="checkbox"/> ORIGINAL		<input type="checkbox"/> RESURVEY		<input type="checkbox"/> REVISED																			
TYPE OF SURVEY																													
<input checked="" type="checkbox"/> ORIGINAL																													
<input type="checkbox"/> RESURVEY																													
<input type="checkbox"/> REVISED																													
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va. OFFICER-IN-CHARGE Jeffrey G. Carlen		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">SURVEY TP. <u>X 13364</u></td> </tr> <tr> <td colspan="2">MAP EDITION NO. <u>1</u></td> </tr> <tr> <td colspan="2">MAP CLASS <u>Final</u></td> </tr> <tr> <td colspan="2">JOB PH. <u>6904</u></td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LAST PRECEDING MAP EDITION</td> </tr> <tr> <td colspan="2">TYPE OF SURVEY</td> </tr> <tr> <td><input type="checkbox"/> ORIGINAL</td> <td></td> </tr> <tr> <td><input type="checkbox"/> RESURVEY</td> <td></td> </tr> <tr> <td><input type="checkbox"/> REVISED</td> <td></td> </tr> <tr> <td colspan="2">JOB PH. _____</td> </tr> <tr> <td colspan="2">MAP CLASS _____</td> </tr> <tr> <td colspan="2">SURVEY DATES:</td> </tr> <tr> <td colspan="2">19__ TO 19__</td> </tr> </table>		SURVEY TP. <u>X 13364</u>		MAP EDITION NO. <u>1</u>		MAP CLASS <u>Final</u>		JOB PH. <u>6904</u>		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__	
SURVEY TP. <u>X 13364</u>																													
MAP EDITION NO. <u>1</u>																													
MAP CLASS <u>Final</u>																													
JOB PH. <u>6904</u>																													
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 October 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>STATE Puerto Rico</td> <td>ZONE 1</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE Puerto Rico	ZONE 1	STATE	ZONE																						
STATE Puerto Rico	ZONE 1																												
STATE	ZONE																												
5. SCALE 1:5,000		STATE ZONE																											
III. HISTORY OF OFFICE OPERATIONS																													
OPERATIONS		NAME	DATE																										
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly	Sept 1970																										
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		R. Kelly	Sept 1970																										
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		P. Dempsey	Oct 1970																										
INSTRUMENT: Wild B-8 SCALE: 1:7,500 CONTOURS BY		P. Dempsey	Oct 1970																										
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Smooth drafted CHECKED BY		R. White	Jan 1971																										
SCALE: 1:5,000 CONTOURS BY		A. L. Shands	Jan 1971																										
HYDRO SUPPORT DATA BY CHECKED BY		NA																											
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		NA																											
6. APPLICATION OF FIELD EDIT DATA BY		B. L. Barge	Jan 1971																										
7. COMPILATION SECTION REVIEW BY		B. Wilson	Feb 1971																										
8. FINAL REVIEW BY		B. Wilson	Feb 1971																										
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Roderick	Feb 1976																										
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		F. Margiotta	Aug 1976																										
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		F. Margiotta	Aug 1976																										
12. MAP REGISTERED - COASTAL SURVEY SECTION BY		A. L. Shands	Dec 1977																										
13. MAP REGISTERED - COASTAL SURVEY SECTION BY		A. L. Shands	Dec 1977																										
14. MAP REGISTERED - COASTAL SURVEY SECTION BY		J. B. Phillips	Jan. 1978																										
15. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. T. Carter	Mar 1978																										

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13364
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 "E"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Atlantic MERIDIAN 60th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70E(C) 6251 thru 6253	3/5/70	09:49	1:15,000	0.8 ft. above MLW	
70E(C) 6398 thru 6400	3/7/70	11:48	1:15,000	0.9 ft. above MLW	

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 T-13363(1:10,000)	EAST T-13363(1:10,000)	SOUTH T-13363(1:10,000)	WEST T-13365 1:5,000 T-13366
REMARKS			

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-13364

HISTORY OF FIELD OPERATIONS

I. ☒ 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 BY	
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: <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 None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) None			

NOAA FORM 76-36C
(3-72)

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-13364

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	Aug 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. S. Tibbetts	Aug 1975
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
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 None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY R. M. Buffington	Jan/Feb 1975
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <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

NONE

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

70E(C)6250, 6396, 6419 Contact scale

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

70E(C) 6419, Contact scale

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70E(C) 6419 (contact print)	LAS MAREAS RANGE FRONT LT. LAS MAREAS RANGE REAR LT LAS MAREAS LIGHT 3 LAS MAREAS LIGHT 4 LAS MAREAS LIGHT 5 LAS MAREAS LIGHT 6	70E(C)6419 (contact print)	LAS MAREAS PIER LIGHTS

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)

Field Edit Ozalid
Field Edit Report
1 Form 76-40

T-13364
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.	Jan 1971	Class III manuscript		12/29/71 1/2/75
Field edit applied. Compilation complete.	Feb 1976	Class I manuscript	9/22/76	
Final Review	Dec 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		9/28/76	Aid for charts

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 9/28/76
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 ~~88~~ 76-40 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-13363 THRU T-13371

The maps included in this summary are all standard shoreline maps which serve to provide current shoreline and alongshore features in support of contemporary hydrographic operations and for nautical chart construction. They cover the south coast of Puerto Rico from Punta Barrancas westward to Punta Aquila and includes all offshore islands.

Photographs of the area were flown in March, 1970. Coverage was adequate.

Field operations prior to compilation was limited to the recovery and identification of horizontal control for use in the bridging. No clarification of details was made at that time.

All maps were compiled at the Atlantic Marine Center using the Wild B-8 stereoplotter. Field edit was performed during the winter and summer of 1975. It was applied to the maps at the Atlantic Marine Center.

Final review was performed at the Atlantic Marine Center in November and December, 1977. All pertinent data was forwarded to the Washington Science Center for reproduction and final registration.

FIELD INSPECTION

T-13364

There was no field inspection prior to
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

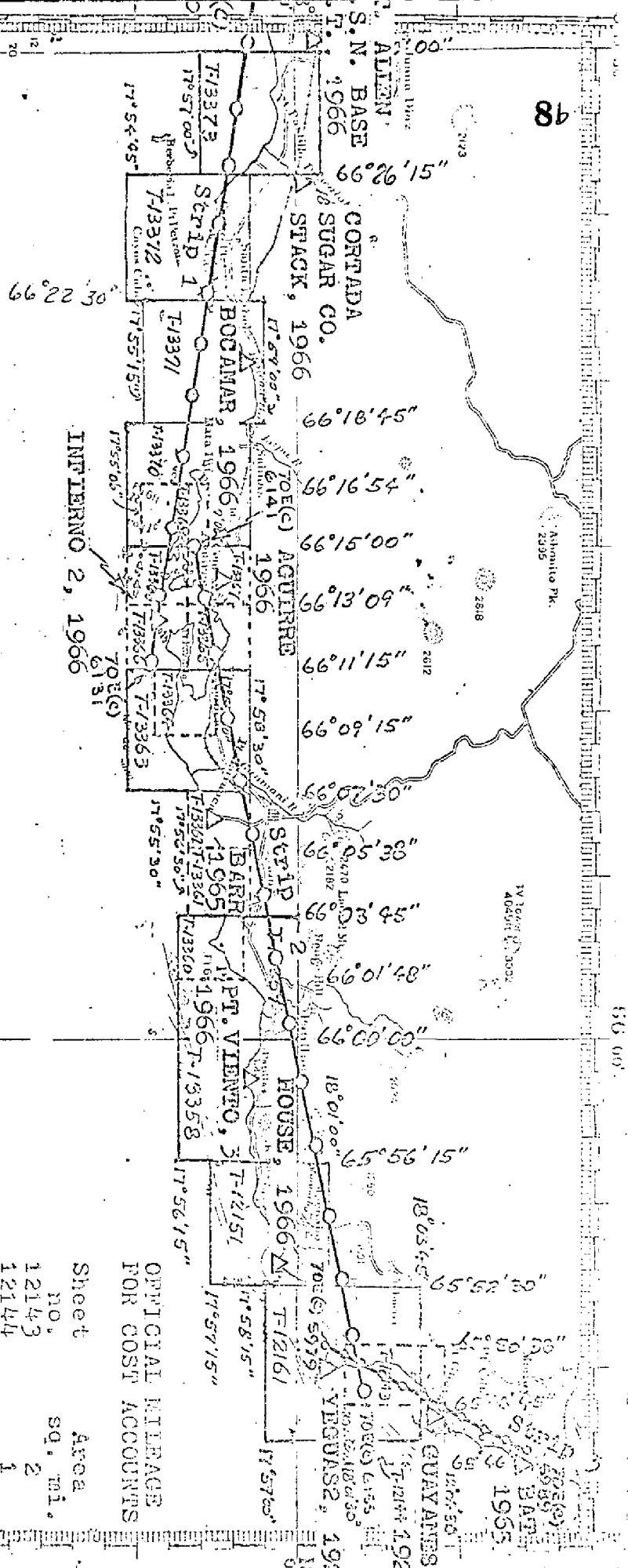
RC-8 E color photography was adequate as to coverage overlap and definition.

Submitted by,

Robert B. Kelly
Robert B. Kelly

Approved and forwarded,

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

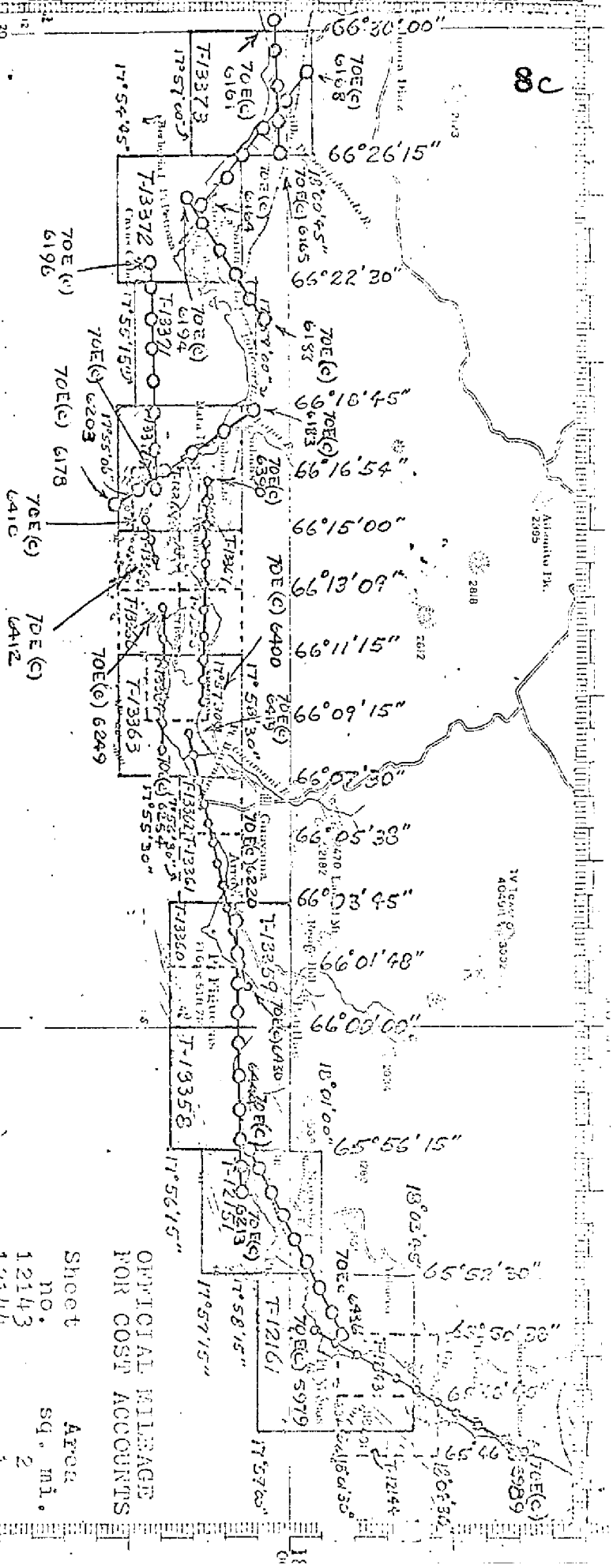


JOB PH-6904
SOUTH COAST, PUERTO RICO
Shoreline Mapping
Scale: 1:10,000
1:5,000

Brinda.126 Photos

Sheet	Area
no.	sq. ft.
12143	2
12144	1
12161	9
12151	5
13358	5
13359	5
13360	2
13361	2
13362	2
13363	2
13364	4
13365	2
13366	2
13367	2
13368	2
13369	2
13370	5
13371	5
13372	4
13373	3
TOTAL	59

8c



COMPUTATION NOTES

JOB 11-6901
SOUTH 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	3
12191	4
13348	5
13359	6
13360	7
13361	8
13362	9
13363	10
13364	11
13365	12
13366	13
13367	14
13368	15
13369	16
13370	17
13371	18
13372	19
13373	20

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 INFERNO 2, 1966 (0.0, 0.0)

STRIP 2

- Δ INFERNO 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

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

MAP NO. T-13364	JOB NO. PH-6904	GEODEIC DATUM Puerto Rico		ORIGINATING ACTIVITY Coastal Mapping Division, Norfolk, Va.			
STATION NAME NONE	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Puerto Rico ZONE 1		GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE		REMARKS FORWARD BACK
			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		COMPUTATION CHECKED BY		
LISTED BY		LISTING CHECKED BY		DATE			
HAND PLOTTING BY		HAND PLOTTING CHECKED BY		DATE			

COMPILATION REPORT

T-13364

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, except where it was necessary to incorporate graphic methods. This was west of longitude $66^{\circ} 10' 15''$ along the shoreline and the first road near $17^{\circ} 56' 15''$. The stereo instrument work was done with 1:15,000 photography. Points were selected common to 1:15,000 photography, which was ratioed to 1:5,000.

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.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore details were delineated by 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 Hydrographer for verification, location, or deletion. ~~on~~
~~January 2, 1975.~~ A.L.S.

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 was made with U.S. Geological Survey Quadrangle Aguirre, Puerto Rico, scale 1:20,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Charts 909, scale 1:20,000, 6th edition, dated June 27, 1970 (corr thru NM 26/70); 902, scale 1:100,000 with 1:20,000 inset of Las Mareas, 10 th edition, dated March 28, 1970 (corr thru NM 13/70).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by: _____

A.C. Rauck, Jr. For
B. L. Barge
Cartographic Tech.
Jan. 28, 1971

Approved:

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

October 11, 1977

GEOGRAPHIC NAMES

FINAL NAMES SHEET

PH-6904 (South Coast, Puerto Rico)

T-13364

Arrecife Mareas

Bahía de Jobos

Laguna de Las Mareas

Las Mareas

Mar Caribe

Ponce Guayama (RR)

Puerto de Jobos

Punta Ola Grande

Approved by:

Charles E. Harrington
Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEYPHOTOGRAMMETRIC OFFICE REVIEW
TP - 13364

1. PROJECTION AND GRIDS BW		2. TITLE BW		3. MANUSCRIPT NUMBERS BW		4. MANUSCRIPT SIZE BW	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW				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 BW		11. DETAIL POINTS BW	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE BW		13. LOW-WATER LINE BW		14. ROCKS, SHOALS, ETC. BW		15. BRIDGES BW	
16. AIDS TO NAVIGATION BW		17. LANDMARKS BW		18. OTHER ALONGSHORE PHYSICAL FEATURES BW		19. OTHER ALONGSHORE CULTURAL FEATURES BW	
PHYSICAL FEATURES							
20. WATER FEATURES BW				21. NATURAL GROUND COVER BW		22. PLANETABLE CONTOURS NA	
23. STEREOSCOPIC INSTRUMENT CONTOURS NA		24. CONTOURS IN GENERAL NA		25. SPOT ELEVATIONS NA		26. OTHER PHYSICAL FEATURES BW	
CULTURAL FEATURES							
27. ROADS BW		28. BUILDINGS BW		29. RAILROADS BW		30. OTHER CULTURAL FEATURES BW	
BOUNDARIES							
31. BOUNDARY LINES NA				32. PUBLIC LAND LINES NA			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES BW				34. JUNCTIONS BW		35. LEGIBILITY OF THE MANUSCRIPT BW	
36. DISCREPANCY OVERLAY BW		37. DESCRIPTIVE REPORT BW		38. FIELD INSPECTION PHOTOGRAPHS NA		39. FORMS BW	
40. REVIEWER A. C. Rauck, Jr. FOR B. Wilson 8/1/70				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 J. Roderick 2/24/76 Reviewer: F. Margiotta 8/10/76				SUPERVISOR A. C. Rauck, Jr.			
43. REMARKS A. C. Rauck, Jr. FOR							

FIELD EDIT REPORT
JOB PH-6904
SOUTH COAST OF PUERTO RICO
MAPS T-13364, T-13365, T-13366, T-13367, T-13368 and T-13369

52. ADEQUACY OF COMPILATION

The compilation is generally good; and after application of field edit corrections, additions, and deletions; compilation will be adequate.

54. RECOMMENDATIONS

None.

55. GEOGRAPHIC NAMES

No discrepancies were noted during field edit.

56. SHORELINE AND ALONGSHORE FEATURES

The shoreline in this area, is for the most part mangrove. All areas that were questioned have been resolved on the field edit ozalid and cross-referenced on the photographs. Three obstructions and a pier were located by sextant fix. The fixes were computed and the P.C. Positions are recorded on the appropriate field edit ozalid. Foul areas and reefs have been verified as to existence; the actual limits will have to be defined by the hydrographer.

57. LANDMARKS AND AIDS

Form 76-40 was submitted for all nautical landmarks and fixed aids to navigation by Ship Mt. Mitchell, see Transmittal letter 58-75 SUH/V/mrq dated 30 May 1975 to DIRECTOR AMC ATTN: CAM 5.

58. CULTURAL FEATURES

A new thermoelectric plant is being built at Central Aguirre, a general map and site development plan was obtained from the Puerto Rico Water Resources Authority and is submitted with the field edit data.

59. GENERAL STATEMENT

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

Submitted 8/26/75

Robert S. Tibbetts
Robert S. Tibbetts
Chief, Photo Party 62

REVIEW REPORT

T-13364

SHORELINE

December 6, 1977

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

The pier at lat. $17^{\circ}57.2''$, long. $66^{\circ}10.8'$ was redelineated during final review. It is not visible on the photography. The field editor submitted a sextant fix on its seaward end and gave a distance and direction to the bulkheaded shoreline.

The compilation office assumed the sextant fix to be in error (even though the check angle checked) when, after plotting its position, it was discovered that the distance given to the existing shoreline did not agree by about 80 feet. However, it is more likely that the distance given the mean high water line rather than the sextant fix is in error, since the check angle does check and the positions of the given signals were used and checked by the hydrographer and verifier.

The final reviewer reasons that the distance measured to the mean high water line from the end of the pier is 179.6 feet rather than the 79.6 feet which was recorded.

The possibility exist also that the existing shoreline was extended seaward of its mapped position when the pier and bulkhead were constructed. It is reasonable that the mangrove shoreline visible on the photographs was removed during the construction. The field editor failed to give any indication of the change however. A line of soundings in the area is ended with a six foot depth recorded more than 200 feet offshore. The final reviewer was not able to determine from the verifier the reason for such an occurrence. He was assured by the Verification Branch that there were no notes in the hydrographic records relative

to the mean high water line in that area.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smoothsheets H-9491 (MI-5-1-75) and H-9596 (MI-10-1-76).

There are no conflicts between the hydrographic data and the details delineated on the map. However there are no soundings recorded within 150 and 200 feet of a mangrove shoreline extending north south between lat. $17^{\circ}56.4'$ and $17^{\circ}56.7'$. The area is not delineated as foul on either survey. There is no indication as to why the hydrography was not extended into the mangrove shoreline. A similar situation occurred at lat. $17^{\circ}57.2'$; long. $66^{\circ}10.8'$. See paragraph 61.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Charts 25687, 1:20,000 scale, 8th edition, dated March 1, 1975 and 25677, (inset) 1:20,000 scale, 13th edition, dated December 13, 1975.

The islands shown in Laguna de Las Mareas no longer exist and much of the western half of the lagoon has been filled in. A new pier and bulkhead were built at Puerto de Jobos. See paragraph 61.

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

Approved for forwarding:

Joseph W. Vonasek
Joseph W. Vonasek
Chief, Photogrammetric Branch

Approved:

A. R. Hargrove
Chief, Photogrammetric Branch

James C. Cotton
Chief, Coastal Mapping Div.