

T-13367

ORIGINAL

T-13367

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-13367	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 Central Aguirre	
19 70 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		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, Cdr		SURVEY TRX13367 MAP EDITION NO. (1) MAP CLASS Final JOB PH-6904 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) STATE ZONE Puerto Rico 1	
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		P. Dempsey P. Dempsey	Oct 1970 Oct 1970
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:7,500 CONTOURS BY CHECKED BY		R. White A. L. Shands NA NA	Jan 1971 Jan 1971
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted CONTOURS BY CHECKED BY SCALE: 1:5,000 HYDRO SUPPORT DATA BY CHECKED BY		B. L. Barge B. Wilson NA NA B. Barnes B. Wilson	Jan 1971 Mar 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		B. Wilson	Mar 1971
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		J. Roderick F. Margiotta	Feb 1976 Aug 1976
7. COMPILATION SECTION REVIEW BY		F. Margiotta	Aug 1976
8. FINAL REVIEW BY		A. L. Shands	Dec 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. Cator	Mar 1978

T-13367

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) 6393 thru 6395	3/5/70	12:49	1:15,000	0.9 ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHWL was compiled from the above listed photogaphs.

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 No survey	EAST T-13365	SOUTH T-13368	WEST T-13369(1:5,000) T-13370(1:10,000)
REMARKS None			

T-13367

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 J. Wilson ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY PBW	Feb 1970 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 None LOCATED (Field Methods) BY None IDENTIFIED BY 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

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70E(C)6129 & 6141	AGUIRRE, 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)

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HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Buffington	May 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Buffington	May 1975
	ESTABLISHED BY R. Buffington	May 1975
	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 R. Buffington	May 1975
	LOCATED (Field Methods) BY R. Buffington	May 1971
	IDENTIFIED BY 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 R. Tibbetts	May 1975
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)6394, 6395

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 ☒ NONE7. SUPPLEMENTAL MAPS AND PLANS Puerto Rico water Resources Authority
1-Aguirre Nuclear Power Point station
2-Aguirre Steam Plant-Unit 1 & 2

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

Field Edit Ozalid
Field Edit Report
1-76-40

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	Landmarks for Charts

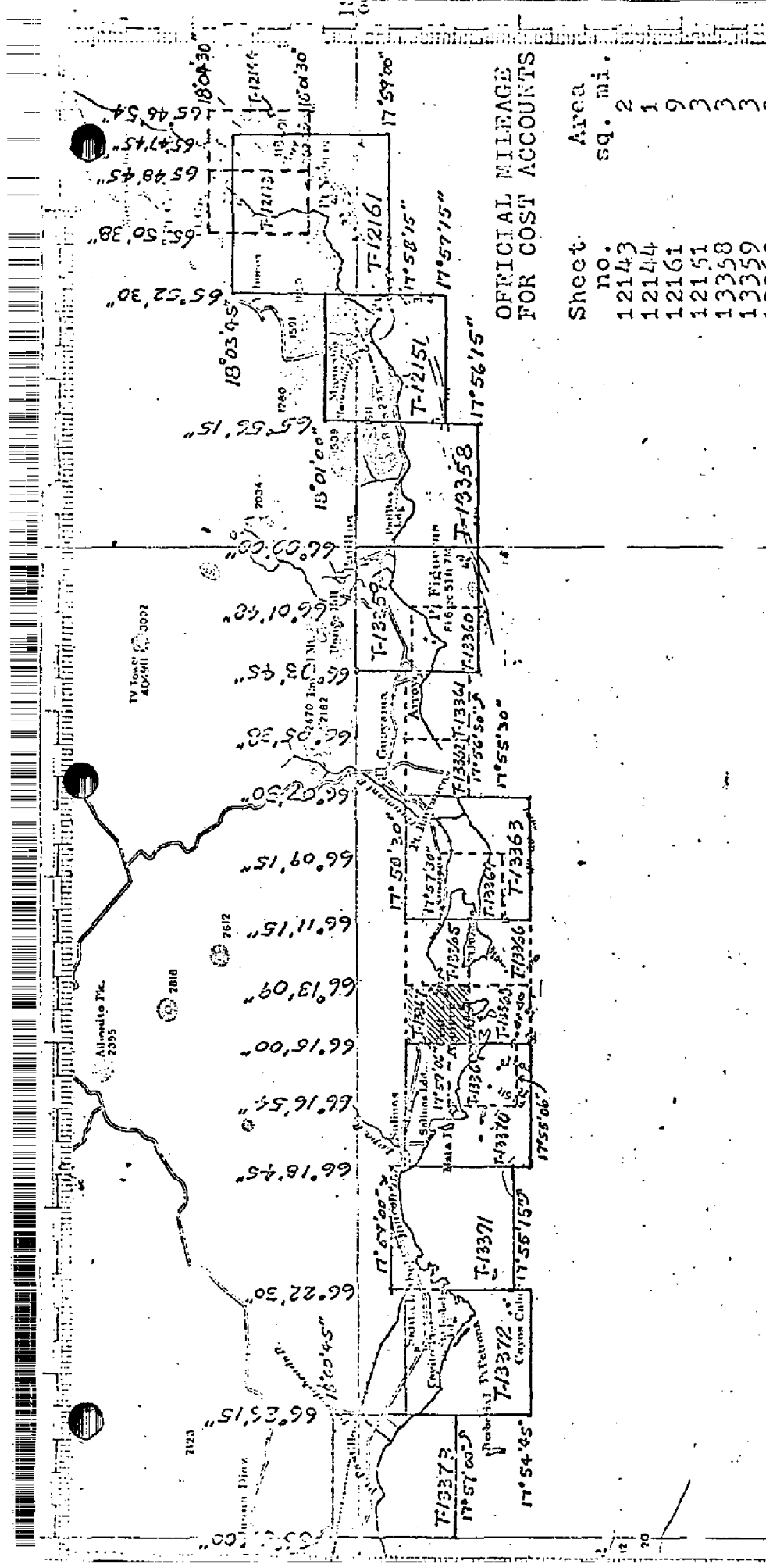
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Sept. 28, 1976
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ~~362~~ 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
X 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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	



OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	2
12144	1
12161	9
12151	2
13358	2
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
TOTAL	65

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

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-13367

There was no field inspection prior to office compilation.

8a

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

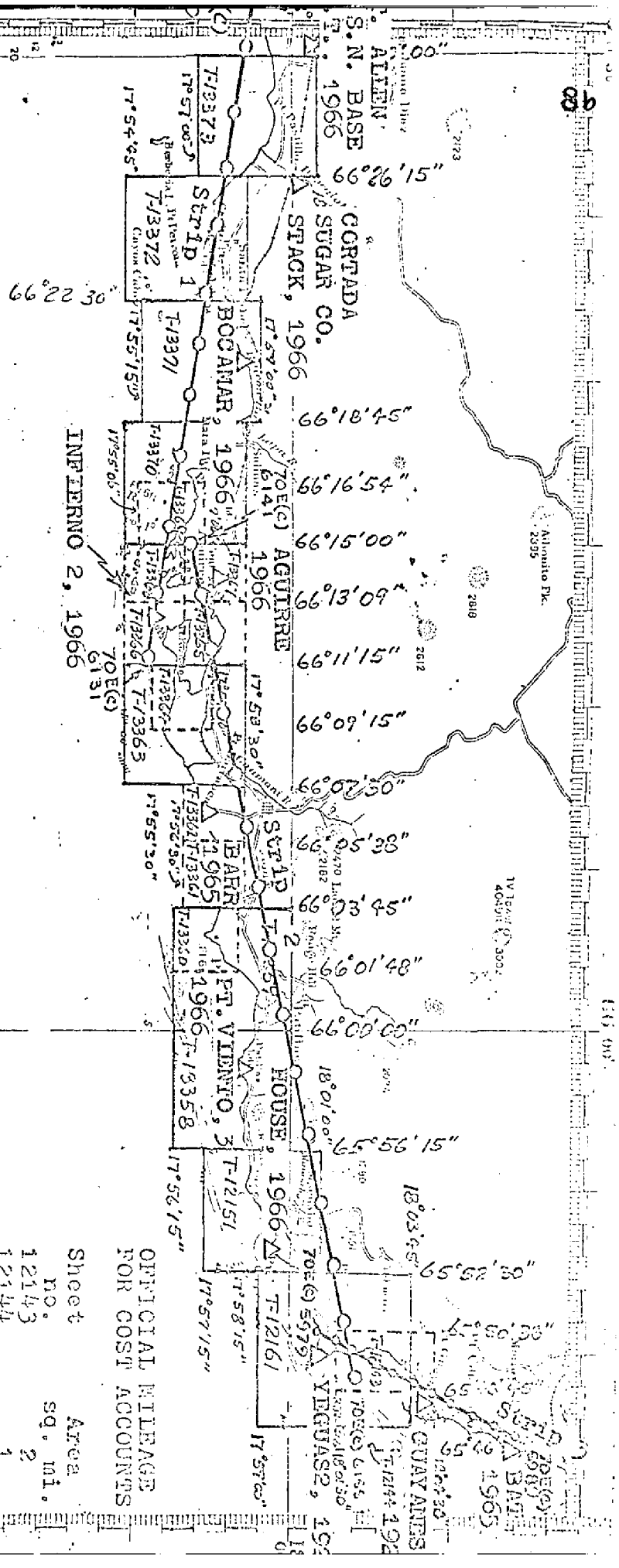
RC-8 E color photography was adequate as to coverage overlap and definition.

Submitted by,

Robert B. Kelly
Robert B. Kelly

Approved and forwarded,

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



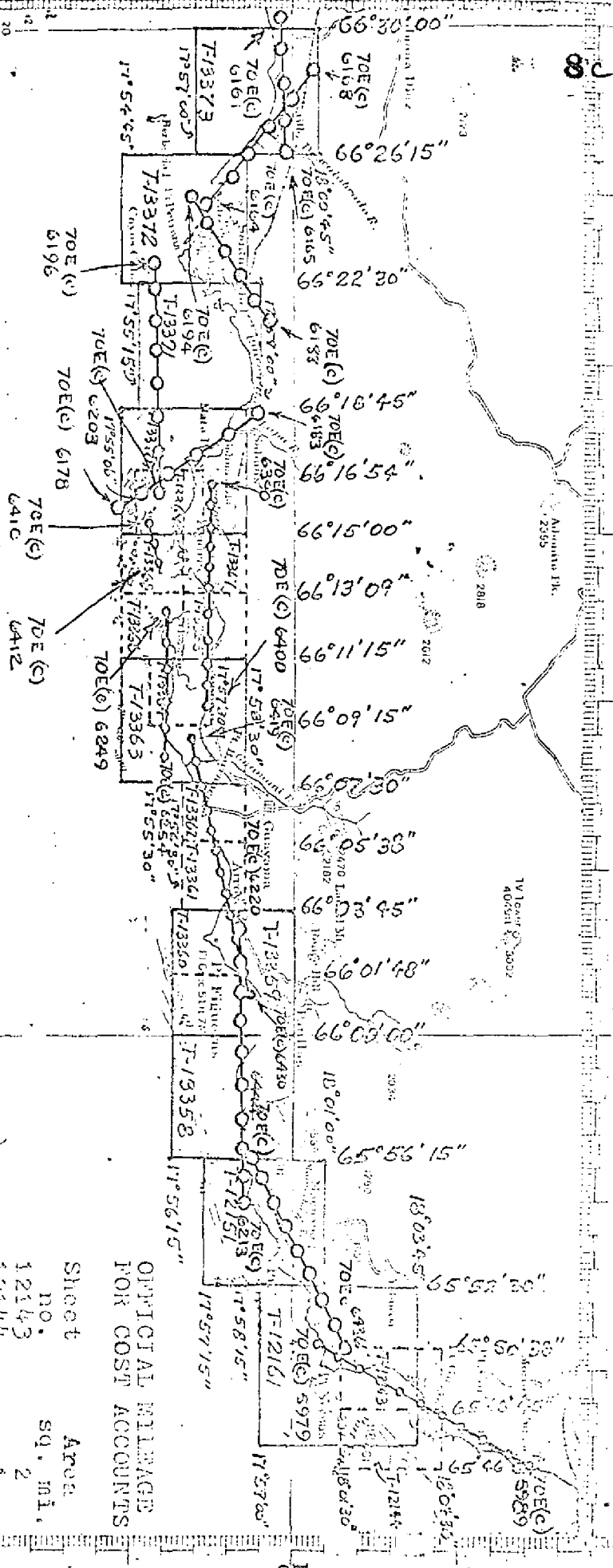
JOB PH-6904
 SOUTH COAST, PUERTO RICO
 Shoreline Mapping
 Scale: 1:10,000
 1:5,000
 BRIDGING PHOTOS

OFFICIAL MILEAGE FOR COST ACCOUNTS		
Sheet NO.	Area sq. mi.	
12143	1	
12144	2	
12161	1	
12151	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		15

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

COMPUTATION TABLE

OFFICIAL MILEAGE FOR COST ACCOUNTS		
Sheet	Area	
NO.	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 SUEAR 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.	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		COORDINATES IN FEET STATE Puerto Rico ZONE 1	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
				Puerto Rico	Division, Norfolk, Va.		ϕ LATITUDE	λ LONGITUDE		
T-13367	PH-6904	Geodesy 27324				ϕ 17 57 18.13709				FORWARD BACK
AGUIRRE, SUGAR ASSN., TALLEST STACK, 1966						λ 66 13 21.22145				557.6 (1287.0) 624.5 (1141.1)
TOWER 2, 1975						ϕ 17 57 54.896				1687.7 (156.9)
*						λ 66 14 08.038				236.5 (1529.0)
AGUIRRE POWER STATION STACK, 1975 *						ϕ 17 57 12.458				383.0 (1461.6)
						λ 66 13 45.835				1348.6 (416.8)
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COMPILATION REPORT

T-13367

SHORELINE

31. DELINEATION:

The Wild B-8 was used.

Point 93901 could not be held in model 70-E(C) 6392-6393. The two offshore flights were set first and all bridge points and common dropped points held. The instrument operator was able to hold to the common dropped points in model 70E(C) 6392-6293 along with the other three bridge points but missed point 93901 by 0.7mm.

The same trouble was encountered with point 94901 in model 70E(C) 6394-6395, which was missed by 1.4 mm.

There was a great deal of glare in the water areas, otherwise the photography was excellent.

32. CONTROL:

See the attached Aerotriangulation Report, dated Sept. 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

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

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:

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, 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:

Refer to the Aerotriangulation Report, dated Sept. 1970 and see paragraph 31.

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 909, scale 1:20,000, 6th edition, dated June 27, 1970 (corr thru N.M. 26/70).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

A. C. Rauck, Jr. For
B. L. Bargo
Cartographic Tech.
Jan. 20, 1971

Approved:

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

October 11, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET


PH-6904 (South Coast, Puerto Rico)

T-13367

Bahía de Jobos

Central Aguirre

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

PHOTOGRAMMETRIC OFFICE REVIEW
TP - 13367

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. B W	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 NA		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 3/1/71		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 J. Roderick 2/12/76 Reviewer: F. Margiotta 8/18/76 A. C. Rauck, Jr. FOR		SUPERVISOR A. C. Rauck, Jr.	
43. REMARKS			

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 ovalid 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 ovalid. 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 SURV/mrm 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 ovalids and photographs.

Submitted 8/26/75

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

REVIEW REPORT

T-13367

SHORELINE

December 20, 1977

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

Two towers appear on the map which, from their descriptions, should be very good landmarks. Neither however were recommended by either of the field activities for charting. No height is given for the tower located at lat. $17^{\circ}57.9'$, long. $66^{\circ}14.2'$. However, it is built on the highest hill in the area. There are no tall trees or buildings to obscure it from seaward view.

The other tower located at the Aguirre Steam Plant is described as 400 ft. high. It is probably the highest structure in the area. This tower was missed during the field edit application. It was delineated as a map feature during final review.

The final reviewer believes these two towers have landmark value. However, landmarks should be recommended only by field personnel on the scene. It is recommended that these two structures be investigated as landmarks at the earliest opportunity.

The entire Aguirre Steam Plant complex was revised during final review. This was necessary because the compilation office used an incorrectly identified control point supplied by the field editor. The field editor indicated that a street intersection lying outside the plant complex is represented in its true position on the site plan.

The street pattern on the plan does not match that on the photographs. It was obviously added for reference only.

The drawing is controlled by a field surveyed property boundary line obviously tied to the Puerto Rican (Zone 1) plane coordinate system. The final reviewer became convinced of this when he was able to match the field computed geodetic position of the landmark stack inside the complex with that on the drawing.

The use of the incorrectly identified photo point instead of the grid system resulted in the displacement of details by more than 50 meters, making it necessary for the entire complex to be revised.

It is stated on the Field Edit Ozalid that corrections to the swamp and mangrove areas delineated on the map are indicated on the photos. The final reviewer was not able to find any such corrections.

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 Smoothsheet H-9491 (MI-5-1-75).

The shoreline, pier and dolphins at Aguirre Steam Plant were traced from the Class I map. The positions of these features are incorrect on the Class I map. See paragraph 61. Also, there is no pipeline on the east side of the pier at the steam plant. This was incorrectly labeled on the Class I map and transferred to the smoothsheet.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25687, 1:20,000 scale, 8th edition, dated March 1, 1975. A landmark stack is shown on the map at the Aguirre Steam Plant. Also, there are several drains along the shoreline east of the steam plant.

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, AMC

Approved:

A. K. Hargrove

Chief, Photogrammetric Branch

James L. Latta

Chief, Coastal Mapping Div.