

TP-00955

TP-00955

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey ... Shoreline (Photogram²tric)

Job No. ... CM-8002 Map No. ... TP-00955

Classification No. ... III Edition No.* ... 1st

* This map edition will not be field edited.

LOCALITY

State ... Puerto Rico

General Locality ... San Juan and Vicinity

Locality ... San Juan to Pinones

19 80 TO 19

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 ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Photogrammetry (Rockville)		SURVEY TP. <u>00955</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>#CM-8002</u>	
OFFICER-IN-CHARGE Walter S. Simmons		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED	
JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Instructions-AEROTRIANGULATION-Job CM-8002 10/10/81		Instructions-FIELD-Job CM-8002 9/23/80	
II. DATUMS			
1. HORIZONTAL: ☐ 1927 NORTH AMERICAN		OTHER (Specify) <u>Puerto Rico Datum</u>	
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☒ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify) _____	
3. MAP PROJECTION Lambert Conformal Conic		4. GRID(S) STATE <u>Puerto Rico</u> ZONE _____ STATE _____ ZONE _____	
5. SCALE <u>1:10,000</u>			
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: <u>Analytic Block</u> LANDMARKS AND AIDS BY		<u>Steve Solbeck</u>	<u>July 1981</u>
2. CONTROL AND BRIDGE POINTS METHOD: <u>Coradomat</u> PLOTTED BY		<u>" "</u>	<u>" "</u>
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY		<u>Brian M. Baldwin</u>	<u>Jan. 1982</u>
INSTRUMENT: <u>Wild B8/CAP System</u> CHECKED BY		<u>Robert W. Rodkey</u>	<u>Jan. 1982</u>
SCALE: <u>1:10,000</u> CHECKED BY		<u>N/A</u>	
4. MANUSCRIPT DELINEATION METHOD: <u>Smooth Drafting</u> PLANIMETRY BY		<u>Brian M. Baldwin</u>	<u>May 1982</u>
SCALE: <u>1:10,000</u> CHECKED BY		<u>Robert W. Rodkey</u>	<u>May 1982</u>
HYDRO SUPPORT DATA BY		<u>N/A</u>	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>N/A</u>	
6. APPLICATION OF FIELD EDIT DATA BY		<u>Field Edit not scheduled</u>	
7. COMPILATION SECTION REVIEW BY		<u>Robert W. Rodkey</u>	<u>Nov. 5, 82</u>
8. FINAL REVIEW BY		<u>" " "</u>	<u>Dec. 8, 82</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>" " "</u>	<u>Dec. 14, 82</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>Robert W. Rodkey</u>	<u>Jan. 1983</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>Howard D. Wolfe</u>	<u>Oct 4 1983</u>

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

COMPILATION SOURCES

TP-00955

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8(E) Focal length=152.71 mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☒ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				ZONE Atlantic	☒ STANDARD
				MERIDIAN 66th	☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
80 E(C) 3797, 99, 3801, 03	2/16/80	1642-1643	1:20,000	+2 Ft MLLW	
80 E(C) 3841, 43	2/16/80	1653-1654	1:20,000	+3 Ft MLLW	
80 E(C) 3887, 89	2/16/80	1709	1:20,000	+3 Ft MLLW	
80 E(C) 3902, 04, 06, 08, 10	2/16/80	1717-1719	1:20,000	+3 Ft MLLW	

REMARKS The stages of tide listed above were determined using "San Juan Gage" tide gage records.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Source of the Mean High-Water line is the photography listed above under Item 1. Refer to paragraph #35 of the compilation Report bound with this Descriptive Report.

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

The source of the approximate mean lower low water line is the photography listed above under Item 1. Refer to paragraph #35 of the Compilation Report bound with this Descriptive Report.

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	EAST	No	SOUTH	No	WEST	
Contemporary Survey		Contemporary Survey		Contemporary Survey			TP-00954

REMARKS

HISTORY OF FIELD OPERATIONS

TP-00955

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	Feb 1981
2. HORIZONTAL CONTROL	RECOVERED BY " " "	"
	ESTABLISHED BY " " "	"
	PRE-MARKED OR IDENTIFIED BY " " "	"
3. VERTICAL CONTROL	RECOVERED BY N/A	
	ESTABLISHED BY N/A	
	PRE-MARKED OR IDENTIFIED BY N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	☐ COMPLETE	
	☐ SPECIFIC NAMES ONLY	
	☒ NO INVESTIGATION	N/A
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N/A	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Photoidentified2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
80E(C) 3796	Hospital, 1981; Sub Sta. A & B		

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)

NOAA Forms: 76-52, 76-53, 76-63, 76-67, 76-72, 76-82A, 76-86, 76-102A,
76-170, 76-177, 76-184 and Field Control Report

TIDE - COORDINATED PHOTOGRAPHY

TP - 00955

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE (In Feet)	MEAN RANGE (In Feet)
Villa Carolina to Finca Pinones 80 E(C) 3797, 99, 3801, 03	San Juan Gage (3505)	+0.2 MLLW	1.1
Isla La Cancora to Ponta Maldonado 80 E(C) 3841, 3843	San Juan Gage (3505)	+0.3 MLLW	1.1
Los Angeles to Vistamar 80 E(C) 3887, 3889	San Juan Gage (3505)	+0.3 MLLW	1.1
Laguna de Pinones to Punta El Medio	San Juan Gage (3505)	+0.3 MLLW	1.1

REMARKS:

The tide station in operation at the time of photography is a permanent station.

Tidal information was furnished by the Tide and Water Level Division (C23) and the Surveys Planning Branch (C344).

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

RECORD OF SURVEY USE

TP-00955

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Shoreline Map	12/8/82	Class III Shoreline Map	Feb 1, 1983	1/13/83

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3 Pages		Feb 1, 83	Landmarks/Aids for Charting Via Form 76-40

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

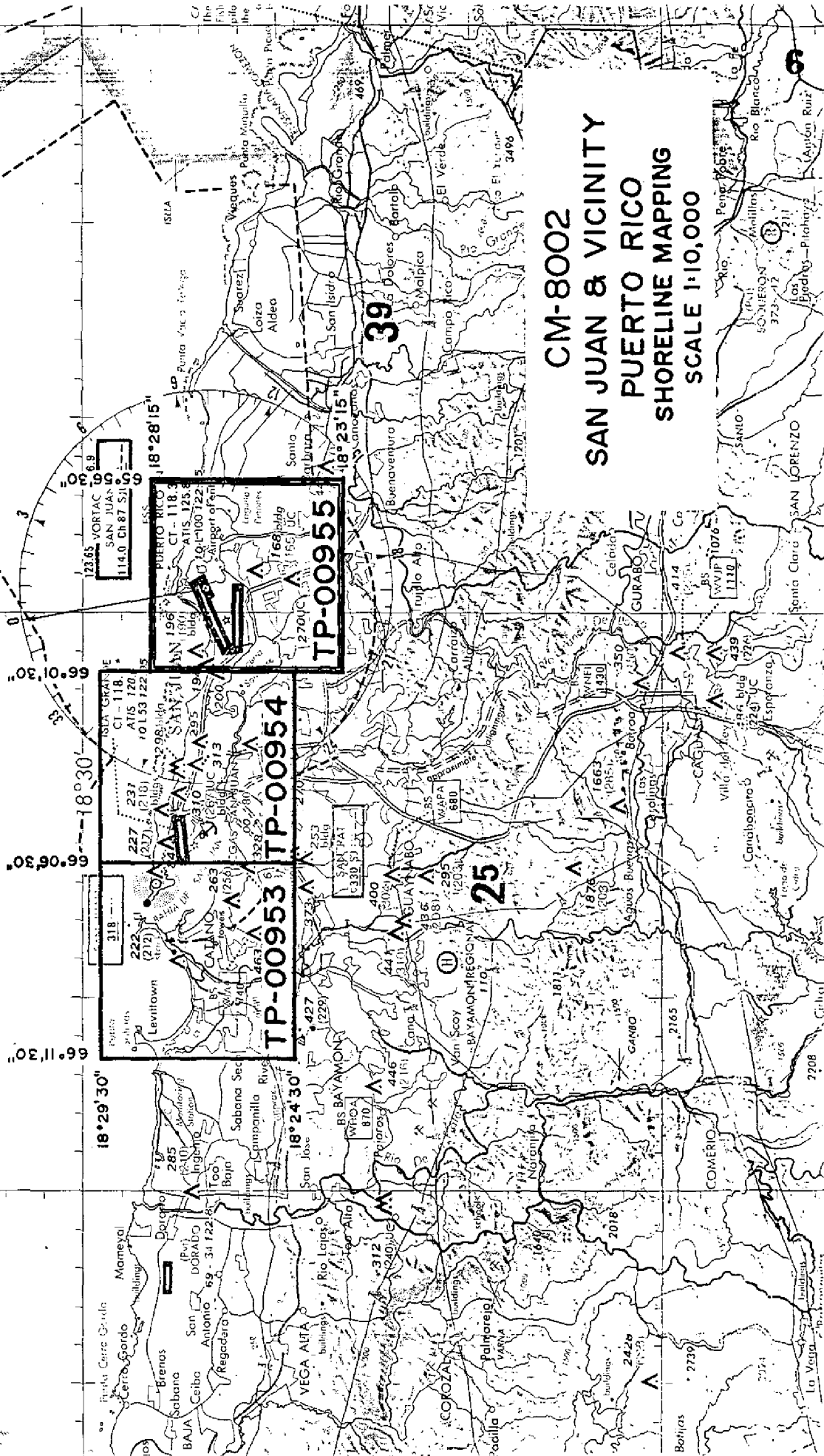
1. ☐ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: APRIL 1983

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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

CM-8002
SAN JUAN & VICINITY
PUERTO RICO
SHORELINE MAPPING
SCALE 1:10,000



TP-00955

SUMMARY

Job CM-8002 consists of three 1:10,000 scale shoreline maps. The project area encompasses part of the northern coastline of Puerto Rico which includes the city of San Juan.

The purpose of this survey is to provide data for new chart construction and hydrographic surveying.

Field operations began in February 1980. Operations generally consisted of taking aerial photographs and the recovery, establishment, and photoidentification of horizontal control. There was no field inspection performed. Hydrographic surveying is scheduled in the area covered by this map and subsequent field data will be incorporated as part of the hydrographic survey.

Natural color photographs taken at a scale of 1:20,000 in February 1980 with the Wild RC-8(E) camera were furnished to aerotriangulation.

Three strips of natural color photographs were bridged by analytic aerotriangulation methods and adjusted to ground on the Puerto Rico Coordinate System. Geodetic control used in the strip adjustments were field identified.

Tidal records for the San Juan Gage, Puerto Rico were furnished by the Tidal Datums and Information Branch, OA/C233. The gage records were used to determine the stage of tide at the time the compilation photographs.

Compilation was performed by the Special Projects Section (Rockville). Compilation was accomplished through standard photogrammetric methods utilizing the Wild B-8(S) Stereoplotter interfaced with the ALTEK digitizing system. Map detail is based on office interpretation of the 1:20,000 scale photographs and is smooth line drafted.

Final review was performed by the Special Project Section (Rockville). This map meets the requirements of the Bureau of Standards and National Standards of Map Accuracy.

The Descriptive Report contains all pertinent reports and listings of data used to compile the maps.

Photogrammetric Plot Report

CM-8002

San Juan and Vicinity, Puerto Rico

July 1981

21. Area Covered

The area covered by this report is that part of the Northern Coastline of Puerto Rico which is inclusive of the city of San Juan. The area is covered by three 1:10,000 scale manuscripts; TP-00953, TP-00954, and TP-00955.

22. Method

Three strips of 1:20,000 scale color photography was bridged by standard analytic aerotriangulation methods. Field identified control was provided. Tie points were used to provide adequate junctioning between the strips, as well as, for additional control for the strip adjustments.

To ensure complete coverage of the shoreline, common points to the bridging photography were picked on additional 1:20,000 scale color photography to be used for B-8 stereo compilation.

The bridging photography was ratioed for compilation purposes. Ratio prints have been ordered. The manuscripts were ruled on the Coradomat.

23. Adequacy of Control

The National Geodetic Survey readjusted the horizontal control network in 1972. This control proved adequate for the project according to National Map Accuracy Standards.

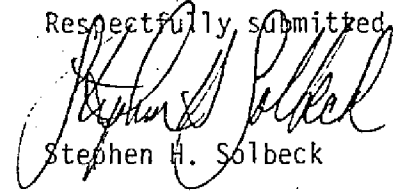
24. Supplemental Data

Sub points from the 1977 survey of OC-784 (Puerto Rico International Airport) and OC-1019 (Isla Grande Airport) were used as additional control. The sub points from OC-784 were based on positions from an older horizontal control network adjustment. One sub point at this airport was used in the strip adjustment. The readjustment of the network changed the control stations used in the original airport scheme BY -1.6 feet in X and + 4.3 feet in Y.

25. Photography

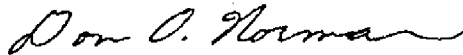
The coverage, overlap, and quality of the photography proved adequate for the job.

Respectfully submitted,



Stephen H. Solbeck

Approved and forwarded:



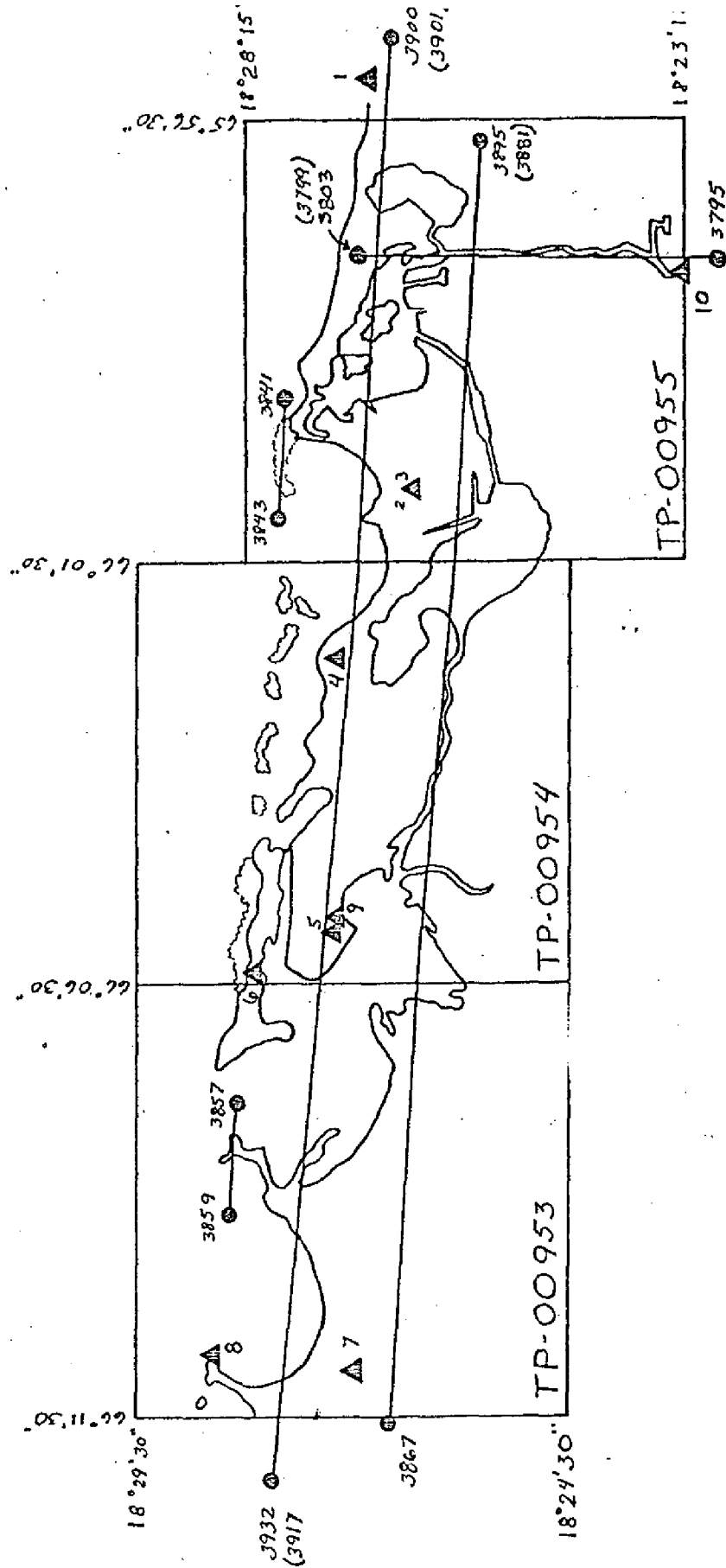
Don O. Norman
Chief, Aerotriangulation Section

SAN JUAN AND VICINITY, Puerto Rico

CM-8002

BRIDGING AND COMPILATION PHOTOGRAPHY

80E(c) 1:20000



<u>STRIP #1</u>			<u>X</u>	<u>Y</u>
1	Sandy, 1965 Sub Pt A	△(901101)	.614	-.247
		(901102)	2.131	-1.410
2	AP 1971 Sta A2 SJU Sub Pt 1, 1977	(906101)	-4.635	2.183
		(906102)	-2.517	2.360
4	Roig, 1964 Sub Pt A	△(907101)	-2.695	1.357
		(907102)	-2.778	1.492
5	AP 1966, Sta B Sub Pt 2, 1977	△(911101)	-2.454	-1.434
		(911141)	-1.601	2.374
7	Levittown Municipal Water Tank, 1966	(915100)	1.004	-.398
		Sub Pt A △(915101)	-.368	-.875
	Sub Pt B	(915102)	-.980	-1.415
8	Point Salinas, 1901	(916101)	1.482	3.515
		△(916102)	-.004	1.199

<u>STRIP #2</u>				
7	Levittown Municipal Water Tank, 1966	(915100)	3.685	1.061
		Sub Pt A △(915101)	.931	.394
	Sub Pt B	(915102)	-.296	.544
9	San Juan U.S. Naval Air Station W.T. 1966	(872142)	1.563	-1.816
		(907101)	-1.616	.390
4	Roig, 1964 Sub Pt A	(907102)	.332	.958
		Sub Pt B		
3	AP 1971 Sta A2 SJU Sub Pt 2, 1977	△(906102)	.026	-.529
		(906101)	-2.087	1.894
2	AP 1971 Sta A2 SJU Sub Pt 1, 1977			

<u>STRIP #3</u>			<u>X</u>	<u>Y</u>
10 Hospital 1981	Sub Pt A	▲(795101)	-1.871	4.751
	Sub Pt B	(795102)	-.277	.219

▲ Stations held in the strip adjustments

CM-8002
SAN JUAN AND VICINITY
PUERTO RICO
JULY 1981

Ratio values for 1:10000 scale color photography:

80E(c) 3795 - 3803	x1.97
80E(c) 3841 - 3843	x1.98
80E(c) 3857 - 3859	x1.98
80E(c) 3867 - 3895	x1.98
80E(c) 3900 - 3932	x1.98

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	CM8002	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY	
						TP-00955	Puerto Rico	Compilation - S.P.S., P.B.	
						COORDINATES IN FEET	GEOGRAPHIC POSITION		REMARKS
						STATE ZONE	ϕ LATITUDE λ LONGITUDE		
PT. MALDONADO 1966				G.P. Quad 180662 Sta. #1115	2	x= 657,439.97	ϕ 18-27-38.906	Recovered in 1981; plotted on the map.	
						y= 228,037.48	λ 65-58-44.488	Recovered in 1981; plotted on the map.	
APT. BEACON, PUERTO RICO INT. AP. SAN JUAN 1962				G.P. Quad 180662 Sta. #1011		x= 648,324.58	ϕ 18-26-28.179	Recovered in 1981; plotted on the map.	
						y= 220,881.41	λ 66-00-19.353	Plotted on the map.	
PUERTO RICO INT. APT. USWB RADIO THEOD. DOME '66				G.P. Quad 180662 Sta. #1012	8	x= 648,380.81	ϕ 18-26-27.381	Plotted on the map.	
						y= 220,801.05	λ 66-00-18.771	Plotted on the map.	
HOSPITAL 1981				VERIFIC- ATION SEC G.P. Quad 180662 Sta. #1007	795100	x= 659,797.96	ϕ 18-23-25.320	Plotted on the map.	
						y= 202,464.86	λ 65-58-20.662	NOT recovered in 1981; not plotted on the map.	
LAKE SAN JOSE (USGS) 1939				G.P. Quad 180662 Sta. #1007		x= 644,064.92	ϕ 18-24-40.709	ONLY RM No. 1 & RM No. 2 recovered in '81; not plotted on the map.	
						y= 210,031.46	λ 66-01-03.854		
AMERICANA 1964				G.P. Quad 184 #662-24		x= 643,310.70	ϕ 18-26-42.511		
						y= 222,315.54	λ 66-01-11.399		
						x=	ϕ		
						y=	λ		
						x=	ϕ		
						y=	λ		
						x=	ϕ		
						y=	λ		
						x=	ϕ		
						y=	λ		
COMPUTED BY						COMPUTATION CHECKED BY		DATE	
LISTED BY HAND PLOTTING BY	Robert W. Rodkey, Jr.				DATE 3/1/82	DATE	LISTING CHECKED BY William M. Maynard	DATE 6/8/82	
								HAND PLOTTING CHECKED BY	DATE

Compilation Report

TP-00955

31. Delineation

The shoreline map was compiled using the Wild B-8/CAP System Stereoplotter. Natural color 1:20,000 scale photographs taken in 1980 were used for compilation.

32. Control

Refer to the Photogrammetric Plot Report bound with the Descriptive Report.

33. Supplemental Data - None34. Contours and Drainage

Contours are not applicable to the project. All drainage is from office interpretation of the natural color photography.

35. Shoreline and Alongshore Detail

There was no preliminary field inspection of the shoreline.

The mean high water line and shoreline structures were compiled by office interpretation of the natural color photographs.

The approximate mean ~~lower~~ low water line, reefs/ledges were compiled using underwater contouring compilation methods. The reef symbols on the map represents the approximate mean lower low water line.

Due to the scale of compilation, only a representative pattern of piers were delineated on the shoreline map. This type of delineation took place at approximately, latitude 18°27'30", longitude 65°59'30".

36. Offshore Details

No unusual problems were encountered compiling offshore detail depicted on the shoreline map.

Breaker areas depicted on the shoreline map represent possible areas hazardous to navigation.

37. Landmarks and Aids

No fixed aids to navigation are depicted on the shoreline map.

The charted landmarks depicted on the shoreline map were not investigated by field personnel.

Two charted landmarks are delineated on the shoreline map. One is a geodetic station which was verified during the aerotriangulation and stereographic compilation phases. The second charted landmark was electronically recorded during stereographic compilation, with the geographic position derived through analytic adjustment to geodetic and aerotriangulated control.

Two forms listing map features of possible landmark value are bound with the Descriptive Report. These features have not been field inspected and the geographic positions have been photogrammetrically determined.

38. Control for Future Surveys - None

39. Junctions

There are no junctions to the north, east, and south. The west side of the map junctions with TP-00954 (CM-8002).

40. through 45. Inapplicable

46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangles:

San Juan, Puerto Rico, 1:20,000 scale, 1969 Edition

Carolina, Puerto Rico, 1:20,000 scale, 1969, Edition

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

25668, 1:100,000 scale, 10th Edition, dated January 6, 1979

Items to be applied to Nautical Charts immediately - None

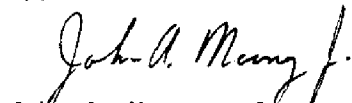
Items to be carried forward - None

Submitted by



Brian M. Baldwin

Approved and Forwarded:



John A. Mooney, Jr.
Chief, Special Projects Section

Review Report :
Shoreline Survey
TP-00955

61. General Statement

A final review was performed for this shoreline map and no discrepancies were encountered. This map is registered as Class III. For a complete analysis of TP-00953, refer to the Compilation Report bound with this Descriptive Report.

62. Comparison with Registered Topographic Survey - None

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys - None

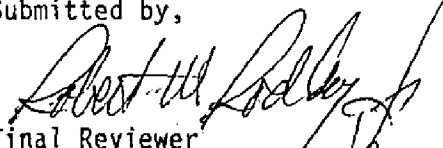
65. Comparison with Nautical Charts

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

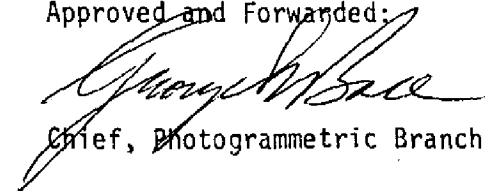
66. Adequacy of Results and Future Surveys

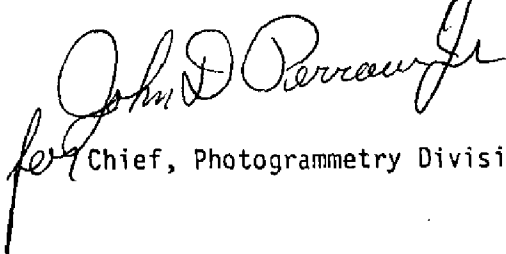
This map complies with the project instruction and meets the National Standards of Map Accuracy.

Submitted by,


Final Reviewer

Approved and Forwarded:


Chief, Photogrammetric Branch


for Chief, Photogrammetry Division

April 2, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8002 (San Juan, Puerto Rico)

TP-00955

Aeropuerto Internacional de Isla Verde

Atlantic Ocean

Balneario Isla Verde

Boca de Cangrejos

Campo Rico

Canal Blasina

Canal Suarez

Finca Piñones

Isla La Cancora

Isla Verde

Jardines de Country Club

Lago Managua

Laguna de Piñones

Laguna de San José

Laguna La Torrecilla

La Torre

Los Angeles

Piñones

Playa de las Tres Palmitas

Punta Cangrejos

Punta El Medio

Punta Larga

Punta Maldonado

Punta Mosquitos

Quebrada San Anton

Sabana Gardens

San Juan

Valle Arriba Heights

Villa Carolina

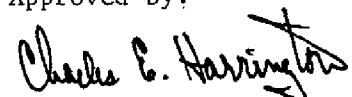
Villa Fontana

Villa Prades

Vistamar

Vistamar Marina

Approved by:



Charles E. Harrington
Chief Geographer, OA/C3x5

DISSEMINATION OF PROJECT MATERIAL

CM-8002

San Juan and Vicinity, Puerto Rico

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Brown Jacket

Plot Report(s) (duplicate copy(ies))
Computer Printouts.
Tide data
Field Control Report
NOAA Forms 76-52(Horizontal Directions)(1 Book)
NOAA Forms 76-53(CSI Cards)(Horizontal)
NOAA Forms 76-63(Observations of Sun for Azimuth and Time)
NOAA Forms 76-67(Traverse Computations by Latitudes and
Departures)
NOAA Forms 76-72(List of Directions)
NOAA Forms 76-82A(Station Description-Short Form)
NOAA Forms 76-86(Abstract of Directions)
NOAA Forms 76-102A(Computation of Triangles and Elevations)
NOAA Forms 76-170(Ranger III Observations)
NOAA Forms 76-177(List of Preliminary Grid Azimuths)
NOAA Forms 76-184(Direct Readout EDM Observations and
Distance Computations)
Photographs (5).of Photo-identified sub points for
Horizontal Control.
Listing of Ratio Values

Project Completion Report

BUREAU ARCHIVES

Registered Copy(ies) of map(s)
Descriptive Report(s) of map(s)

REPRODUCTION DIVISION

Negative(s) of final map(s)

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard(s)

MARINE CHART DIVISION

Chart Maintenance Print(s) of map(s)
Form(s) 76-40

DATA TAB
VERSION
782707

DEPARTMENT OF COMMERCE USA

* SVY	TP-009E5	* NONFLOATING AIDS FOR CHARTS	* RPT UNIT	SPS,FB,ROCKVILLE,MD.*	PAGE	2 OF	3	*
* JOB	CMR002	* TC BE REVISED	* STATE	PUERTO RICO				*
* FRJ	SAN JUAN		* LOCALITY	SAN JUAN	* ORIGINATING	ACTIVITY*		*
* DTW	P. RICO		* DATE	12/10/82	* COMPILATION			*

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SLAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* * *	DESCRIPTION	* * *	POSITION	CMD *	METHOD AND DATE	* * *
* CHARTING *	RECORD REASON FOR DELETION	* * *	LATITUDE	ALTEK *	OF LOCATION	* CHARTS *
* * NAME *	PUT TRIANGULATION NAMES IN ()	* * *	LONGITUDE	CGTZO *	OFFICE * FIELD	* * * EFFECTED *

NORTH COAST

* RGE F	* CABALLO CHANNEL	* 0	* UNVERIFIED	* *
* LIGHT	* RANGE FRONT LIGHT	* 0	* *	* 25660
		* 00 00 00.00		
		* 00 00 00.00		

	* KGE R	* CABALLO CHANNEL	*	0	* UNVERIFIED *	*	*
* LIGHT		* RANGE REAR LIGHT	*	0	*	* <td>DITTO</td>	DITTO

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL	REMARKS
1	BUCA DE CANGREJOS	1	00	00	00.00	UNVERIFIED
2	PLATFORM LIGHT	1	00	00	00.00	UNVERIFIED

[illegible]

[illegible]

[illegible]

