

TP-00953

TP-00953

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. CM-8002 Map No. TP-00953
Classification No. III Edition No. I *

LOCALITY

State Puerto Rico.....
General Locality North Coast - San Juan.....
Locality Punta Salinas to San Juan.....

* This map edition will not be field edited.

19 80 TO 19

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED		SURVEY TP. 00953 MAP EDITION NO. (1) MAP CLASS III JOB PH. CM-8002	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Photogrammetry (Rockville)				OFFICER-IN-CHARGE Cdr. Walter S. Simmons			
I. INSTRUCTIONS DATED							
1. OFFICE Instructions-AEROTRIANGULATION-Job CM-8002 Instructions-OFFICE-Job CM-8002 10/10/81				2. FIELD Instructions-FIELD-Job CM-8002 9/23/80			
II. DATUMS							
1. HORIZONTAL: ☐ 1927 NORTH AMERICAN				OTHER (Specify) Puerto Rico Datum			
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 Puerto Rico ZONE			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION METHOD: Analytic Block LANDMARKS AND AIDS BY				Steve Solbeck		July 1981	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat PLOTTED BY CHECKED BY				" "		"	
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY CHECKED BY				William Maynard		March 22, 82	
INSTRUMENT: Wild B-8S SCALE: 1:10,000				Robert Rodkey		"	
4. MANUSCRIPT DELINEATION METHOD: Smooth Drafting SCALE: 1:10,000				William Maynard		May 22, 1982	
HYDRO SUPPORT DATA BY CHECKED BY				Robert Rodkey		May 26, 1982	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				N/A		Field Edit not scheduled	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY				N/A		"	
7. COMPILATION SECTION REVIEW BY				Robert Rodkey		Nov. 1, 1982	
8. FINAL REVIEW BY				" "		Dec. 6, 1982	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				" "		Dec. 14, 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				Robert Skewy		Jan. 1983	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				Howard D. Wolfe		1983	

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

COMPILATION SOURCES

TP-00953

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) 3857, 59	2/16/80	1657-1658	1:20,000	Refer to the following page, Form 76-36B (1) for tidal information	
80 E(C) 3867, 69, 71, 73, 75	2/16/80	1707-1709	1:20,000		
80 E(C) 3922, 24, 26, 28, 30	2/16/80	1720-1722	1:20,000		

REMARKS The stages of tide listed were determined from the "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 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	EAST	SOUTH	WEST
No Contemporary Survey	TP-00954	No Contemporary Survey	----->

REMARKS

TIDE - COORDINATED PHOTOGRAPHY

TP - 00953

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE (in feet)	MEAN RANGE (in feet)
Isla De Cabras to San Juan 80 E(C) 3857, 3859	San Juan Gage (3505)	+0.3 MLLW	1.1
Bahia De San Juan to Punta Salinas 80 E(C) 3922, 24, 26, 28, 3930	San Juan Gage (3505)	+0.3 MLLW	1.1
Levittown to Catano 80 E(C) 3867, 69, 71, 73, 3875	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 Tides and Water Level Division(C23) and the Surveys Planning Branch (C344).

HISTORY OF FIELD OPERATIONS

TP-00953

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 XXXXXXXXXX IDENTIFIED BY	" " " " " " " " "
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N/A N/A N/A
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	N/A N/A Robert S. Tibbetts
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	BY 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

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
80 E(C)3863	Pt. Salinas; Sub. Sta. A & B		
80 E(C)3869	Levittown Municipal Water Tank; Sub. Sta. A & B		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
80 E(C)3869	Levittown Municipal Water Tank		

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

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

RECORD OF SURVEY USE

TP-00953

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Registered Shoreline Map	Dec 8, 82	Class III Shoreline Map	Feb 1, 83	Jan. 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
6 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: _____

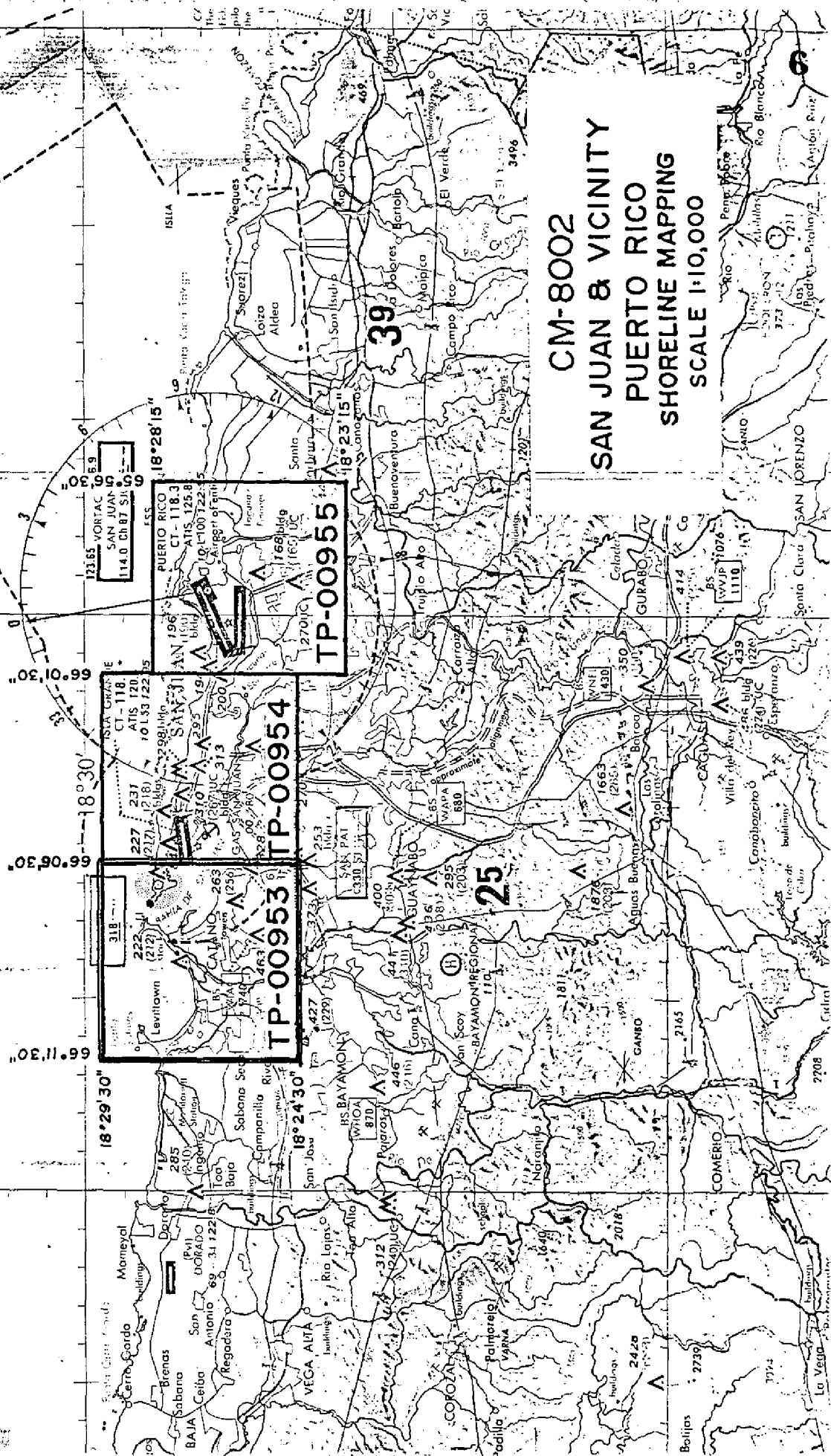
III. FEDERAL RECORDS CENTER DATA

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	



TP-00953

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.

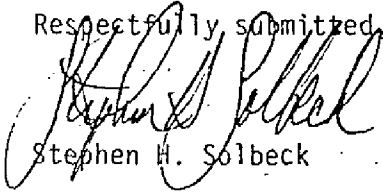
24. Supplemental Data

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:



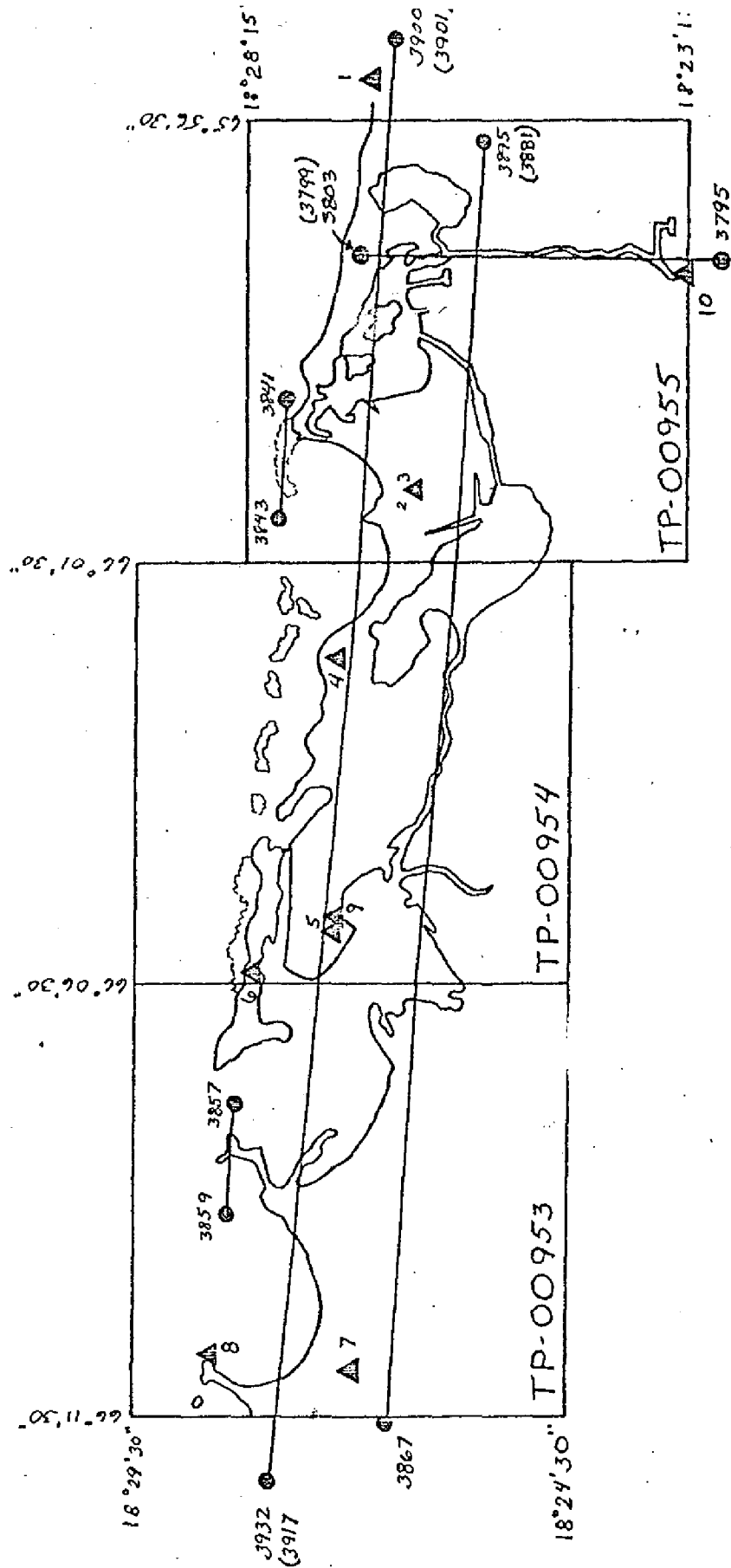
Don O. Norman
Chief, Aerotriangulation Section

SAN JUAN AND VICINITY, PUERTO RICO

CM-8002

BRIDGING AND COMPILATION PHOTOGRAPHY

80E(c) 1:20000



X and Y in feet

<u>STRIP #1</u>			<u>X</u>	<u>Y</u>
1 Sandy, 1965	Sub Pt A	▲(901101)	.614	- .247
	Sub Pt B	(901102)	2.131	-1.410
2 AP 1971 Sta A2 SJU		(906101)	-4.635	2.183
	Sub Pt 1, 1977			
3 AP 1971 Sta A2 SJU		(906102)	-2.517	2.360
	Sub Pt 2, 1977			
4 Roig, 1964	Sub Pt A	▲(907101)	-2.695	1.357
	Sub Pt B	(907102)	-2.778	1.492
5 AP 1966, Sta B Sub Pt		▲(911101)	-2.454	-1.434
	2, 1977			
6 Capitol Cupola 1927		(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				
	Sub Pt A	(916101)	1.482	3.515
	Sub Pt B	▲(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
4 Roig, 1964	Sub Pt A	(907101)	-1.616	.390
	Sub Pt B	(907102)	.332	.958
3 AP 1971 Sta A2 SJU				
	Sub Pt 2, 1977	▲(906102)	.026	- .529
2 AP 1971 Sta A2 SJU		(906101)	-2.087	1.894
	Sub Pt 1, 1977			

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

Δ 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.	GEOGRAPHIC DATUM		ORIGINATING ACTIVITY	REMARKS
			TP-00953	Puerto Rico		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		
WAREHOUSE 1939	G.P. Quad 72		X= 609,108.23	φ 18-26-38.093		Landmark; Plotted on the map;
	#662-9		Y= 221,801.93	λ 66-07-06.676		N.E. Gable
CATANO REAR RANGE LIGHT 1939	G.P. Quad 71		X= 604,452.61	φ 18-26-44.283		May possibly have been moved; Phtgm. position plotted.
	#662-9.25		Y= 222,418.47	λ 66-07-55.024		Landmark; station is church tower;
CATANO CHURCH 1939	G.P. Quad 72		X= 611,182.16	φ 18-25-54.394		plotted on map.
	#662-9.26		Y= 217,397.73	λ 66-06-45.214		Station appears to be destroyed;
CATANO RADIO STATION WIAC MAST 1966	G.P. Quad 180662		X= 601,813.06	φ 18-25-23.574		not plotted
	Sta #1027		Y= 214,273.24	λ 66-08-22.577		Unverified;
SAN JUAN CARRION CO INC RADIO MAST 1966	G.P. Quad 180662		X= 611,146.63	φ 18-28-00.108		not plotted on the map.
	Sta #1019		Y= 230,078.09	λ 66-06-45.352		Landmark; plotted on the map.
CEMENT MILL STACK 1939	G.P. Quad 72		X= 609,188.78	φ 18-25-12.833		
	#662-9.20		Y= 213,202.13	λ 66-07-05.993		
SAN CRISTOBAL SIGNAL STAFF 1899	G.P. Quad 73		X= 611,542.43	φ 18-28-11.283		Unverified; not plotted on map.
	#662-10.26		Y= 231,206.00	λ 66-06-41.220		Apparently moved;
SAN JUAN US COAST GUARD PORT RADIO BCN MAST 1966	G.P. Quad 180662		X= 609,489.79	φ 18-28-13.623		Phtgm. position plotted on map.
	Sta #1022		Y= 231,438.44	λ 66-07-02.540		"Puerto San Juan Light"; plotted on map; r.1981
MORRO LIGHTHOUSE 1900	G.P. Quad 180662		X= 607,194.28	φ 18-28-22.774		
	Sta #1031		Y= 232,357.60	λ 66-07-26.371		
FORT CANUELO 1939	G.P. Quad 73		X= 602,812.94	φ 18-28-06.014		Recovered in 1981 plotted on map.
	#662-9.25		Y= 230,659.79	λ 66-08-11.917		
COMPUTED BY			COMPUTATION CHECKED BY	DATE		
LISTED BY	Robert W. Rodkey, Jr.		LISTING CHECKED BY	DATE	6/8/82	
HAND PLOTTING BY			HAND PLOTTING CHECKED BY	DATE		

Compilation Report

TP-00953

31. Delineation

The shoreline map was compiled using the Wild B-8S 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 photographs.

35. Shoreline and Alongshore Detail

There was no preliminary field inspection of the shoreline. The MHWL and shoreline structures were compiled by office interpretation of the natural color photographs.

The approximate MLLWL, reef, and ledges were compiled using under water contouring compilation methods. The reef symbol on the map represents the approximate MLLWL. The transmission tower overhead cables on the map are depicted with a single dash line symbol.

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

The landmarks and fixed aids shown on the shoreline map were not investigated by field personnel.

Fifteen fixed aids to navigation are depicted on the map. One is a geodetic station which was verified during the aerotriangulation and compilation phases. Seven were measured during the aerotriangulation phase and verified during the compilation phase. Seven were electronically recorded during stereographic compilation, with the position derived through analytic adjustment to geodetic and aerotriangulated control.

Fourteen charted landmarks are delineated on the map. Five are geodetic stations which were verified during the aerotriangulation and compilation phase. Six were measured during the aerotriangulation phase and verified during the compilation phase. Three were electronically recorded during stereographic compilation, with the positions derived through analytic adjustment to geodetic and aerotriangulated control.

Three forms listing map features of possible landmark value are bound with the Descriptive Report. These features are photogrammetric positions and have not been field inspected.

38. Control for Future Surveys - None

39. Junctions

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

40. through 45. - Inapplicable

46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangles:

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

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

A significant difference is noted below:

Two canals flowing into Ensenada de Boca Vieja beginning at latitude $18^{\circ}27'15''$, longitude $66^{\circ}09'40''$ and continuing inland in a southerly direction are not delineated on the USGS quadrangles.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

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

25670, 1:10,000 scale, 31st Edition, dated October 28, 1978

3

The one major difference are the new canals beginning at latitude $18^{\circ}27'15''$, longitude $66^{\circ}09'40''$ and ending at latitude $18^{\circ}25'30''$, longitude $66^{\circ}09'20''$. These canals are not depicted on chart 25668.

Items to be applied to Nautical Charts immediately - New canals mentioned above in Item 47.

Items to be carried forward - None

Submitted by,

William M. Maynard
William M. Maynard

Approved and Forwarded:

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

Review Report
Shoreline Survey
TP-00953

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

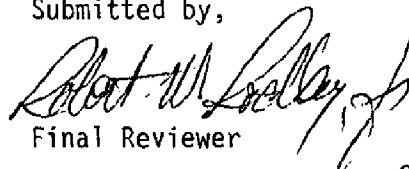
65. Comparison with Nautical Charts

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

66. Adequacy of Results and Future Surveys

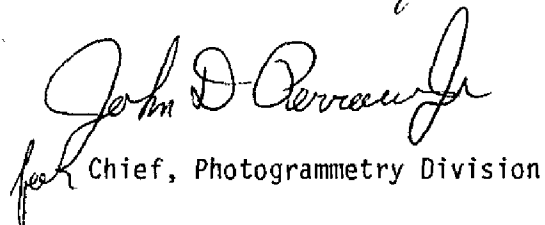
This map complies with the project instruction and meets the National Standards of Map Accuracy.

Submitted by,


Final Reviewer

Approved and Forwarded:


Chief, Photogrammetric Branch


for Chief, Photogrammetry Division

April 12, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8002 (San Juan, Puerto Rico)

TP-00953

Amelia

Atlantic Ocean

Bahía de Puerto Nuevo

Bahía de San Juan

Bahía de Toa

Bay View

Caño El Hato

Cataño

Ciénaga de las Cucharillas

Ensanada de Boca Vieja

Fuerta San Christoban

Isla de Cabra

Isla de la Palomas

Isla San Juan

Juan Matos

La Puntilla

Las Cabritas

Levittown

Palo Seco

Puente Blanco

Punta Cataño

Punta del Morro

Punta Palo Seco

Punta Salinas

Punta Tocones

Río de Bayamón

Sabana

San Juan

Approved by:

Charles E. Harrington

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 Name's Standard(s)

MARINE CHART DIVISION

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

PHOTOGRAMMETRIC BRANCH
PHOTOGRAMMETRY DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATA TAB
VERSION
782707

76-40
LISTING

* SVY TP-00953 *
* JOB CM8002 *
* PRJ SAN JUAN *
* DTM P. RICC *

* RPT UNIT SPS.PB,ROCKVILLE,MD.*
* STAFF PUERTO RICO *
* LOCALITY SAN JUAN *
* DATE 11/29/82 *

PAGE 1 OF 6

*ORIGINATING ACTIVITY *
* COMPILATION *

* POSITIONS DETERMINED *
* AND/OR VERIFIED BY *
* FIELD AND OFFICE *
* ACTIVITIES *

* NO FIELD EDIT PERFORMED. CLASS III MAP *
* STEVE SOUBECK, WILLIAM MAYNARD *
* NO OFFLINE DIGITIZING PERFORMED *
* ROBERT ROCKEY, JR. *

* FIELD REPRESENTATIVE *
* OFFICE COMPILER *
* DIGITIZER *
* DATA PROCESSER *

KEY FOR ENTRIES UNDER METHOD AND DATE OF LOCATION

* OFFICE

* FIELD (CONT. D)

* 1. OFFICE IDENTIFIED AND LOCATED OBJECTS.
* THE NUMBER AND DATE (INCLUDING MONTH, DAY
* AND YEAR) OF THE PHOTOGRAPH USED TO
* IDENTIFY AND LOCATE THE OBJECT ARE SHOWN.
* EXAMPLE 75E(C)6042
* 8-12-77

* R. PHOTOGRAMMETRIC FIELD POSITIONS** SHOW
* THE METHOD OF LOCATION OR VERIFICATION,
* DATE OF FIELD WORK AND NUMBER OF PHOTO-
* GRAPH USED TO LOCATE AND IDENTIFY THE
* OBJECT.
* EXAMPLE P-8-V
* 8-12-77
* 74L(C)2982

* FIELD

* 1. NEW POSITION DETERMINED OR VERIFIED

* KEY TO SYMBOLS

* F-FIELD P-PHOTOGRAMMETRIC
* L-LOCATED VIS-VISUALLY
* V-VERIFIED 5-FIELD IDENTIFIED
* 1-TRIANGULATION 6-THEODOLITE
* 2-TRAVERSE 7-PLANETABLE
* 3-INTERSECTION 8-SEXTANT
* 4-RESECTION

* A. FIELD POSITIONS* SHOW THE METHOD OF
* LOCATION AND DATE OF FIELD WORK.
* EXAMPLE F-2-6-L
* 8-12-76

* FIELD POSITIONS ARE DETERMINED BY FIELD
* OBSERVATIONS BASED ENTIRELY UPON GROUND
* SURVEY METHODS

** PHOTOGRAMMETRIC FIELD POSITIONS ARE
* DEPENDENT ENTIRELY, OR IN PART, UPON CONTROL
* ESTABLISHED BY PHOTOGRAMMETRIC METHODS.

* NOTE: WHERE THE NAME OF AN AID INCLUDES THE IMMEDIATE GEOGRAPHIC HEADING UNDER WHICH IT IS LISTED,
* A DASH (-) IS USED TO INDICATE THE GEOGRAPHIC HEADING WHICH IS PART OF THE OFFICIAL NAME.

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76-40000
PHOTOGRAMMETRIC BRANCH
PHOTOGRAMMETRY DIVISION
NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA
782707
DATATAB

* SVY	TP-00953	* NONFLOATING AIDS FOR CHARTS	* RPT UNIT	SPS,PB,ROCKVILLE,MD.*	PAGE 3 OF 6	*
* JOB	CM8002	* TO BE REVISED	* STATE	PUERTO RICO	*	*
* PRJ	SAN JUAN		* LOCALITY	SAN JUAN	* ORIGINATING ACTIVITY*	*
* DTW	P. RICO		* DATE	11/29/82	* COMPILATION	*

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD 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	DGT2D *	OFFICE * FIELD	* AFFECTED *
* * *		* * *				* * *

[illegible][illegible]

LT	*	LA PUNTILLA FINGER	*	00 00 00.00	.0	NOT *UNVERIFIED*	*	DITTO *
*	*	*	*	*	*	*	*	*
*	*	* PIER A LIGHT	*	00 00 00.00	.0	DGTZD*	*	*

[illegible][illegible]

* * *	LT	*	PIER 1 WEST LIGHT
* * *	LT	*	*
* * *		*	1A 27 46.69 1435.5 NOT *80E(C)3922*
* * *		*	66 06 49.98 1466.5 CGTZD* 02/16/A0 *
* * *		*	NITTO * *

[illegible]

LT	PIER	SOUTH	LIGHT
*	*	18 27	47.62
*	*	66 06	43.95
*	*	1464.0	NOT *80E(C)3922*
*	*	1289.5	EGTZD* 02/16/A0 *
*	*		DITTO *

[illegible][illegible]

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[illegible]

[illegible]

