FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of SurveyShoreline (Photogrammetric)
Field No. Office NoT-13133
LOCALITY
State Puerto Rico
General locality Southwest Coast
Locality Puerto De Quayanilla
1966- 1969
CHIEF OF PARTY
Alfred C. Holmes, Director, AMC
LIBRARY & ARCHIVES

-66)	E	U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY		
DESCRIPTIV	E REPORT - DATA	RECORD	CORD! AND G	2002110 2011121
	T- 13133			
DJECT NO. (II):	•			·
PH-6708				
SELD OFFICE (II):		CHIEF OF PARTY	,	<u> </u>
None				
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAI	RGE	
Atlantic Marine Center, Norfolk,	VA	Alfred C.	Holmes, Dir	rector
NSTRUCTIONS DATED (II) (III):	·			
OFFICE - Nov. 14,				
OFFICE - SUPPLEMEN	T 1 - Nov. 4,	1968		
ETHOD OF COMPILATION (III):			 ,	
Wild B-8 Plotter				
IANUSCRIPT SCALE (III):	STEREOSCO	PIC PLOTTING INS	TRUMENT SCALE	(111):
1:5,000	1:2,500	Pantograph	ed To 1:5,0	00
TATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	RTED TO NAUTICA	AL CHART BRANCE	H (IV):
PPLIED TO CHART NO.	DATE:		DATE REGISTER	ED (IV):
			JUN	1975
EOGRAPHIC DATUM (III):		VERTICAL DATU	ATER:	
		MEAN Elevations shown	L EXCEPT AS FOL as (25) refer to mea	
Puerto Rico			es (5) refer to sound	
		i.e., mean low wat	ter of mean lower lov	∜ water

REFERENCE STATION (III):

Verraco (PRS) 1966

LAT.: 17 ⁰ 58† 09.90341" 305.3M	Long.: 66 ⁰ 48'24.10343" 709.2M	X ADJUSTED UNADJUSTED	·
PLANE COORDINATES (IV):		STATE	ZONE
49,547.86 Ft.	:=370,248.19 Ft.	Puerto Rico	1

AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

T-13133

	1-1010	
FIELD INSPECTION BY (II):	· · · · · · · · · · · · · · · · · · ·	DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	
Air Photo Compilation - Date	e of Photography - Nov. 15, 16,	1966
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Bethea		Oct. 10, 1968
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
L. F. Van Scoy		Oct. 14, 1968
CONTROL PLOTTED BY (III):		DATE
Aerotriangulation Points: -		Nov. 12, 1968
Triangulation Stations: -	C. E. Blood	Dec. 6, 1968
CONTROL CHECKED BY (III):		DATE
Aerotriangulation Points: -	B Nicholson	Nov. 12, 1968
Triangulation Stations: -		Dec. 6, 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
I. I. Saperstein		Oct. 31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III)	PLANIMETRY By: R. R. White	DATE Dec. 17, 1968
Wild B-8	Reviewed By: L. O. Neterer	Dec. 17, 196
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
R. R. White		Jan. 20, 1969
SCRIBING BY (III):	,	DATE
W. Gilbert		6/30/72
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	Compilation: C. H. Bishop	DATE Jan. 24, 196
Soni	Field Edit: R. Smith Lbing and Stick Up: B. L. Barge	March, 1969 Sept. 24, 197
REMARKS:		DATE:
Fiel	Ld Edit By: - R. E. Kesselring	Feb., 1969

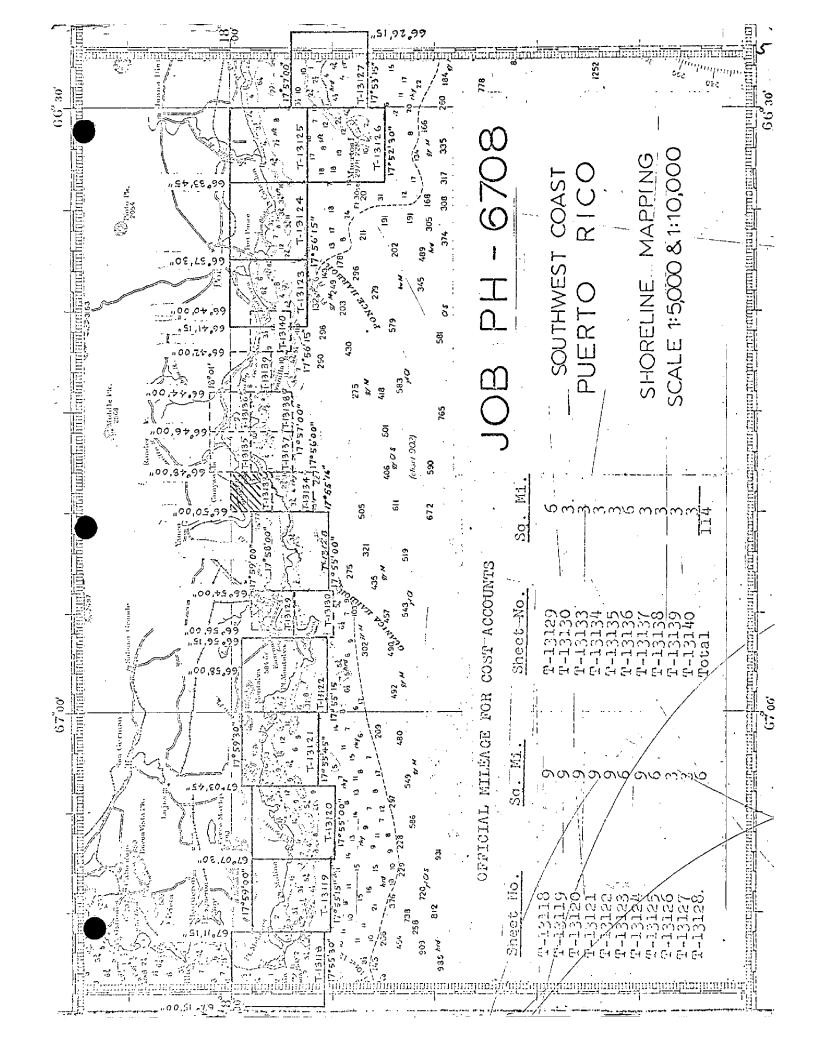
DESCRIPTIVE REPORT. DATA RECORD

MERA (KIND OR SOURCE) (III):

REFERENCE STATION: Galveston, Texas 1. UBORDINATE STATION: Quanica, P.R. Quanica, P.R. Quanica, P.R. DATE: Dec. 1972 PROOF EDIT BY (IV): NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NONe NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): NONe NOne None			OTOGRAPHS (III)	 -			
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REFERENCE STATION: Galveston, Texas 1. BUBORDINATE STATION: Quanica, P.R. Quanica, P.R. Quanica, P.R. DATE: Dec. 1972 DATE: None None None None None None None None	66-L-8485. and 8486	Nov. 16, 1966	09:00	1:15,000	÷ 0.45	above	MLW
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REFERENCE STATION: Galveston, Texas 1. BUBORDINATE STATION: Quanica, P.R. Quanica, P.R. DATE: Dec. 1972 DATE: Dec. 1972 DATE: Dec. 1972 DATE: NONe		PRE	DICTEDIDE (III)		· - K		DIURNA
SUBORDINATE STATION: Quanica, P.R. Quanica, P.R. Quanica, P.R. O.50 O. SUBORDINATE STATION: WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC PROOF EDIT BY (IV): NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NONe NOne None None None None None None							RANGE
Quanica, P.R. U.50 U. SUBORDINATE STATION: WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC PROOF EDIT BY (IV): NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NUMBER OF BM(S) SEARCHED FOR (II): None None None None None None	REFERENCE STATION:	Galveston, Te	exas				1.4
PROOF EDIT BY (IV): DATE: Dec. 1972 DATE: Dec. 1972 DATE: Dec. 1972 DATE: NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NONE NUMBER OF BM(S) SEARCHED FOR (II): NONE NONE NONE NONE NONE NONE	SUBORDINATE STATION:	Quanica, P.R.	•		0.50		0.3
PROOF EDIT BY (IV): NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NUMBER OF BM(S) SEARCHED FOR (II): NONE NONE NONE NONE NONE NONE NONE NONE	SUBORDINATE STATION:						
PROOF EDIT BY (IV): NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NUMBER OF BM(S) SEARCHED FOR (II): NONE NONE NONE NONE NONE NONE NONE	WASHINGTON OFFICE REVIEW BY	((IV):Bernard Kui	rs, AMC			1972	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): NUMBER OF BM(S) SEARCHED FOR (II): None None None None None							-
NUMBER OF BM(S) SEARCHED FOR (II): None None None None None None	NUMBER OF TRIANGULATION ST	ATIONS SEARCHED FOR	R (III):	4 _		D:	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None	NUMBER OF BM(S) SEARCHED FO	DR (II) :			IDENTIFIE	D	
	NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABLE					
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): NONE	NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST	ABLISHED (III):	None	· · · · ·		
REMARKS:							

T-13133

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area For Hydro.	Jan. 1969	Superseded
Field Edit Applied; Manuscript Complete	March 1969	Superseded
Final Review	Dec. 1972	
	· i	7, .
	·	4.



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13133

Shoreline survey T-13133 is one of twenty-one similar surveys in project PH-6708. The project is on the south shore of Puerto Rico and extends from Cabo Rojo to Cayo Berberia. This survey covers a short section of shoreline at Cerro Toro and Puerto de Guayanilla.

There was no field work prior to the compilation of this manuscript.

Compilation was at 1:5,000 scale by B-8 plotter, using November, 1956 photography. A copy of the manuscript, classified "incomplete" along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheets, location of photo-hydro signals and field edit use.

The manuscript was a vinylite sheet 2 minutes longitude by 2 minutes latitude. After field edit was applied the manuscript was scribed, stuck-up and reproduced on cronaflex. Final review was at AMC in December 1972. One cronaflex and negative of the final reviewed survey are being forwarded for record and registry.

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FIELD INSPECTION REPORT
PH-6708
T-13133

There was no field inspection prior to compilation.

PHOTOGRAMMETRIC PLOT REPORT Job PH-6708 Puerto Rico

October 31, 1967

21. Area Covered

This report covers the southwest part of Puerto Rico, consisting of eight (8) 1:10,000 scale T-sheets, T-13118 thru T-13125, and thirteen (13) 1:5,000 scale T-sheets, T-13128 thru T-13140. Photography covering sheets T-13126 and T-13127 was not bridged at this time due to lack of control.

22. Method

Analytic aerotriangulation methods were used to bridge Strip 1, 1:60,000 scale color diapositives, using premarked and office identified control. Numerous tie points were located to control the compilation photography. Strips 3, 5, 5A, 6, 7 and 8 were bridged by analytic methods. Strips 2 and 4 were bridged by stereoplanigraph in order to facilitate the work.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustment. Closures to control are shown for each strip on the IBM readout, along with all bridge points on Puerto Rico plane coordinates.

23. Adequacy of Control

Horizontal control is adequate to control Strip 1. All other strips were bridged using tie points and horizontal control and is adequate.

The premarked paneling at station PAGEN was removed prior to photography and the subpoint could not be identified. It was decided, therefore, to end Strip 1 with photo 66-M-625 and Strip 6 with photo 66-L-8433. However, it is believed that sheet T-13125 can be adequately compiled.

Station GUANICA L.H. 1900 does not have a valid position. Geodesy did not tie to this station during the 1966 work, and no adjustment was made to the new Puerto Rico datum. (Station has been reported destroyed.) The positions shown on Form 725d computed by Geodesy is arbitrary. Therefore, GUANICA L.H. Subpoint 1 and subpoint 2 are unreliable and were not held in the bridge.

It is to be noted that all horizontal control used on this job and the final pass point positions are on the new Puerto Rico Datum. A Xerox copy of triangulation station positions issued by Geodesy is submitted to the Compilation office with this job. Previously published GP's and plane coordinates should not be used for plotting.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 "M" and RC-8 "L" color photography was fair and good respectively. covers parts of some photographs on Strips 3 and 5A, but should not hinder compilation of the shoreline.

Although sheets T-13137 thru T-13140 are covered by 1:15,000 scale photographs, these photographs were not bridged, nor can they be used for compilation on the plotter because of water areas. Strip 3, therefore, should be used to compile the above sheets.

Ratio prints have been ordered for the 1:30,000 and 1:15,000 scale photographs to compilation scale, on black and white base.

Several points were transferred to ratio print 66-L-8394 in order that a reef on T-13140 may be compiled graphically.

Respectfully submitted

Approved and Forwarded

Henry P. Eichert, Chief

Aerotriangulation Section



66W

STRIP Δ9 Τ-13{23 **キ13124** T-13125 1-13126

3. ENSENADA, SOUTH A.R. SUGAR 2. CERRO VERTERO 4. VAQUERO, 1900 6. GUAYANICLA, UNION CARBIDE CO. W.T. 1966 10. PONCE, DON Q RUM CO. STACK, 1966 9. CARDONA ISLAND GUANICA MUNIC. CENT. GUANICA WEST & EAST STACKS, 1966 PONCE, RADIO STATION WELD MAST, 1966 TURN 2, 1966 PONCE BAY FRONT & REAR RANGE LTS. 1966 GUANICA RANGE FRONT W. 7. 1966

AEROTRIANGULATION

PUERTO RICO Southwest Coast

0ct. 1967 Oct. 1967

LEGEND

:60,000 Photos

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODY SURVEY

FORM C&GS-164 (4-68) USCOMM-DC 50318-P68

DESCRIPTIVE REPORT CONTROL RECORD
708

MAP T- 13133 PROJE	PROJECT NO. PH-6708	8C.P	SCALE OF MAP 1:5,000 SCAL	SCALE FACTOR None
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD
Verraco (PRS)	Geodesy	Puerto	58 t	
	27086		66 48 24.10343"	709.2 (1056.2)
		ı		
	<u>-</u>			
COMPUTED BY A.C. RAUCK, Jr.	DATE NOV. 14, 1	1968	CHECKED BYC. Blood	DATE NOV. 21, 1968

COMPILATION REPORT

T-13133

MAP MANUSCRIPT PROJECT PH-6708

31. DELINEATION

The shoreline and all other features were compiled using the Wild B-8 stereoplotter and color photography taken at 0.4 ft. above mean low water.

There was no field inspection.

32. CONTROL

See Photogrammetric Plot Report dated October 3, 1967, attached.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

See Paragraph 31. No low water line was delineated. All details were compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND ALDS

None

38. CONTROL FOR FUTURE SURVEYS

No recoverable topographic or photo hydro stations have been shown; however, a sufficient number of shoreline pass points have been shown as an aid for the Hydrographer in establishing hydrographic signals.

39. JUNCTIONS

Junctions are in agreement with T-13135 and T-13137 to the East, T-13134 to the South, and T-13128 (scale 1:10,000) to the West, South of latitude $17^\circ59^\circ00^\circ$. There are no contemporary surveys to the North and to the West, North of latitude $17^\circ59^\circ00^\circ$.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle PUNTA VERRACO, PR, scale 1:20,000 dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 928 BAHIA DE GUAYANILLA, scale 1:10,000, 5th edition, dated October 18, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Approved:

Richard R. White

Dernard Kurp

Cartographic Aid

Alfred C. Holmes, RADM, NOAA Director, Atlantic Marine Center

December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13133

Cerro Toro

Mar Caribe

Puerto de Guayanilla

Rio Yauco

Approved:

A. Joseph Wraight Chief Geographer

Prepared by:

Charles E. Harrington

Cartographer

49. NOTES FOR THE HYDROGRAPHER:

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FORM C&GS-1002 9-66)	PHO	TOGRAMMET	RIC OFFICE REVIEW	U.S. DEPARTMENT OF COMMERC ESS COAST AND GEODETIC SURVE
		T- 1	13133	
. PROJECTION AND GRIDS	2. TITLE	<u></u>	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CHB	СНВ		СНВ	СНВ
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER /	ATIONS OF ACCURACY	6. RECOVERAS OF LESS TH (Topographic	ILE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY (stations)	7. PHOTO HYDRO STATIONS
СНВ			XX	XX
8. BENCH MARKS	9. PLOTTING C	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
χ	χ		СНВ	CHB
ALONGSHORE AREAS (Nautice	Chart Data)			·
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
CHB	X		None	X
16. AIDS TO NAVIGATION	17. LANDMARK	\$	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
None	Non	e	CHB	CHB
PHYSICAL FEATURES				
20. water features CHB	•	21. NATURAL (ground cover	22. PLANETABLE CONTOUR XX
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
INSTRUMENT CONTOURS				}
XX	XX		XX	X
CULTURAL FEATURES 27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL
CHB	Х		X	FEATURES
BOUNDARIES	<u> </u>	 		
31. BOUNDARY LINES			32. PUBLIC LAND LINES	'
XX			XX	
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTIONS	· · · · · · · · · · · · · · · · · · ·	35. LEGIBILITY OF THE
CHB			СНВ	СНВ
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
CHB	СНВ		None	СНВ
40. REVIEWER			SUPERVISOR, REVIEW SEC	ext C. Rauch.
C.H. Bishop	1	/20/69	Albert C. Rauch	C, Jr.
41. REMARKS (See attached she	et)			
FIELD COMPLETION ADDITION	NS AND CORRECT	TIONS TO THE M	ANUSCRIPT	
 Additions and corrections script is now complete ex 			ion survey have been applied	d to the manuscript. The manu-
R.E. Smith		3/24/69	SUPERVISOR Ment C	Ranck. J.
Reviewed By: C.H	. Bishop	3/27/69	Albert C. Rauch	k, Jr.
G. REMARKS Field Edit Applied	6 N	6-L-8405, o. 66-L-8		or Contact Photo
			To 16:00 Hrs. 1/2	. a. l.c.a.

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH-6708
MAP T-13133

52. ADEQUACY OF COMPILATION

Compilation was adequate. One or two unimportant bare rocks were overlooked as was a foul area. There is one bluff on this map and it was correctly compiled. Several minor shoreline changes were recommended and indicated on the photographs. A few interior details were changed, primarily, that all the roads on this map are private.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPY

Sr. Oscar Padilla, Urb. Estella Box 28, Guayanilla, Puerto Rico, will be happy to examine a proof copy of the map. Sr. Padilla is the senior harbor pilot of Bahia de Guayanilla.

56. GEOGRAPHIC NAMES

There are only three geographic names on the compiled portion of this map.

CERRO TORO at 17°58.2, 66°48.3 was omitted from the manuscript. All the authorities consulted agree that this name is correct and in common usage. RIO YAUCO is correct and requires no comment. PUERTO DE GUAYANILLA is archaic and was probably used when small boats took shelter from storms in this small bay in an earlier era. All the below listed authorities agree that the name would now apply, if used at all, to the playa and the dock area of Bahia de Guayanilla.

Authorities consulted are listed below.

I. Sr. Oscar Padilla
Urb. Estella Box 28
Guayanilla, Puerto Rico

Sr. Padilla is the senior harbor pilot of Bahia de Guayanilla and has been a resident for 64 years.

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II. Sr. Gilberto Castro Perez Bo Playa Guayanilla, Puerto Rico

Sr. Castro is a boat operator and has been a local resident for nine years.

III. Sr. Daniel Santiago Bo Playa Guayanilla, Puerto Rico

Sr. Santiago is a harbor pilot and has been a local resident for three years. He is retired from the U.S. Merchant Service.

IV. Sr. Faustino Allongo R.F.D. 2 639 H Ponce, Puerto Rico

Sr. Allongo is a contractor and has been a local resident and fisherman for twenty years.

V. Sr. Ramon Torres Echevarria Ext. Mariani A-110 Ponce. Puerto Rico

Sr. Torres is a mechanical engineer and prominent local sports fisherman. He has been a resident for 36 years.

The harbor pilots mentioned above are licensed by the Puerto Rican Pilot Service.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks of fixed aids to navigation within the limits of this map.

58. ROCKS, SHOALS, REEFS AND FOUL AREAS

Compilation was generally good. One rock awash was deleted and bottom vegetation in one area was mistakenly delineated as submerged coral. There are no shoals on this map.

The present edition of chart 928 shows a ledge along the shore in the area labeled Puerto de Guayanilla. No evidence could be found of this ledge. It is possible that the mangrove along the shore has grown out over the ledge or it may be covered with silt. There is definifely

no ledge in this area that uncovers at the sounding datum.

59. PHOTOGRAPHY

Photography consisted of 1:5000 matte finish photographs and 1:15,000 and 1:30,000 color contact prints. The photography was good. It permitted the identification of details not mapped and the confirmation of the compilation.

60. DISPOSITION OF DATA

All data was forwarded to the Photo Branch, Atlantic Marine Center. Copies of the Field edit, Form 567's and form 526's were transmitted to the ship Whiting.

Richard E. Kesselring Surveying Technician

REVIEW REPORT

SHORELINE

T-13133

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

A visual comparison was made with a copy of registered survey No. 2468, 1:20,000 scale dated 1900. There is only a general agreement between the two. In the bay area the shoreline is entirely encompassed by mangrove which made any planetable work in 1900 virtually impossible. That along with man made and natural change plus the improved methods of compilation and surveying techniques account for the differences.

Registered survey No. 2468 is superseded by T-13133 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Punta Verraco, PR, quadrangle, 1958 at 1:20,000 scale. There are no reefs indicated on the quadrangle and the shoreline agrees, in general, with the manuscript.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with sounding overlay #2 dated 11/1/72 at 1:5,000 scale. The shoreline of this boat sheet is the incomplete manuscript. Since there were no shoreline changes indicated by the field editor, there are no differences.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 928, 1:10,000 scale dated March 4, 1972. They generally agree except there is an apparent datum shift. Differences are noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey meets with project instructions and appears to meet the National Standards of Map Accuracy.

Reviewed by:

Bernard Kurs Bernard Kurs Cartographer

Approved for forwarding:

Chief, Coastal Mapping Division, AMC

Approved:

red C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

