FORM **C&GS-504**

U.S. DEPARTMENT OF COMMERCE Environmental science services administration COAST and geodetic survey

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric) Field No. Office No.T-13124
LOCALITY
State Puerto Rico
General locality Southwest Coast
Locality Rio Bucana
,
1966-71
CHIEF OF PARTY
Alfred C. Holmes, Director, AMC
LIBRARY & ARCHIVES
DATE



FORM (3-66)	C&GS-	18 la
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U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPO	ORT - DATA -13124	A RECORD		
DJECT NO. (II):				
. PH-6708				
FIELD OFFICE (II):		CHIEF OF PARTY		
None				
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE		
Atlantic Marine Center, Norfolk, VA	Alfred C. Holmes, Director			
OFFICE - Nov. 14, 1967 OFFICE - SUPPLEMENT 1 -	- Nov. 4,	, 1968		
METHOD OF COMPILATION (III): Wild B-8 Plotter		· · · · · · · · · · · · · · · · · · ·		
MANUSCRIPT SCALE (III):	OPIC PLOTTING INSTRUMENT SO			
1:10,000	1:5,000) Pantographed To 1	:10,000	
TE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	DRTED TO NAUTICAL CHART B	RANCH (IV):	
APPLIED TO CHART NO.	DATE:	1	ISTERED (IV):	
		JU.	N 1975	
GEOGRAPHIC DATUM (III):	1	VERTICAL DATUM (III): HIGH WATER		
Duanta Pias		Elevations shown as (25) refer	5 FOLLOWS: to mean high water	
Puerto Rico		Elevations shown as (5) refer to sounding datum		
		i.e., mean low water or mean low	wer low water	
REFERENCE STATION (III):				
Wirshing, 1966				
LAT.:		X ADJUSTED		
17 ⁰ 57:51.59478"(1586.2M) 66 ⁰ 34:45.19736"	(1329,9M)	UNADJUSTED		
PLANE COORDINATES (IV);		STATE	ZONE	
v=47,586.41 Ft. x= 449,299.04 Ft.		Puerto Rico	1	
AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTED OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE TO				

USCOMM-DC 36393A-P66

FORM C&GS-1816 (3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

	T-13124	
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
Coradomat		
PROJECTION AND GRIDS CHECKED BY (IV):	DATE	
CONTROL PLOTTED BY (III):		DATE
Aerotriangulation Points: -		Feb. 11, 1970
Triangulation Stations: -	Feb. 11, 1970	
CONTROL CHECKED BY (III):		DATE
	0 1 0 1 December 7.5	
Aerotriangulation Points: Traingulation Sations: -	A. C. Rauck, Jr. A. C. Rauck, Jr.	Feb. 11, 1970 Feb. 11, 1970
		102. 11, 13,0
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
I. I. Saperstein		Oct. 31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY By: L.O. Neterer	DATE Feb. 20, 1970
Wild B-8	Reviewed By: A.L. Shands	Feb. 1970
	contours Inapplicable	DATE
	THAPPTCADIC	
MANUSCRIPT DELINEATED BY (III):		DATE
R. White		Nov. 16, 1970
SCRIBING BY (III):		DATE
C. Woodson		June 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	Compilation: Beugnet	DATE 11/30/70
Scril	Field Edit: R.J. Pate bing and Stick Up: F. Margiott	$\frac{1}{4}$ $\frac{8/26/71}{7/11/72}$
REMARKS:		8/22/72
Field	d Edit By: - Richard D. Olson	DATE: March 1971
		1101 011 1911
		•
•	•	

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

DESCRIPTIVE REPORT - DATA RECORD

T-13124

MERA (KIND OR SOURCE) (III):

Wild RC-8 "L"

	PHO'	TOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66- L-(c)-8350 thru 8352	Nov. 15, 1966	10:03	1:30,000	.8 above MIW
66-L-(c)-8449 thru 8450	Nov. 16, 1966	08:32	1:30,000	.6 above MIW
66-L-(1)-8546R thru 8548R	Nov. 16, 1966	09:40	1:30,000	.6 above MLW

PREDICTED	IDE (III)				DIURNAL
			RATIO OF RANGES	MEAN RANGE	STATES RANGE
REFERENCE STATION: Galveston, Texas					1.4
subordinate station: Playa De Ponce, P.R.			0.57		0.4
SUBORDINATE STATION:	-				
WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, A	PATE: Feb. 1973				
PROOF EDIT BY (IV):			DATE:		•
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	8	RECOVERED:	IDENTIFIE	:ם	· <u> </u>
NUMBER OF BM(S) SEARCHED FOR (II): None RECOVERED: None				D	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III)	; 	None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED	(111):	None			

REMARKS:

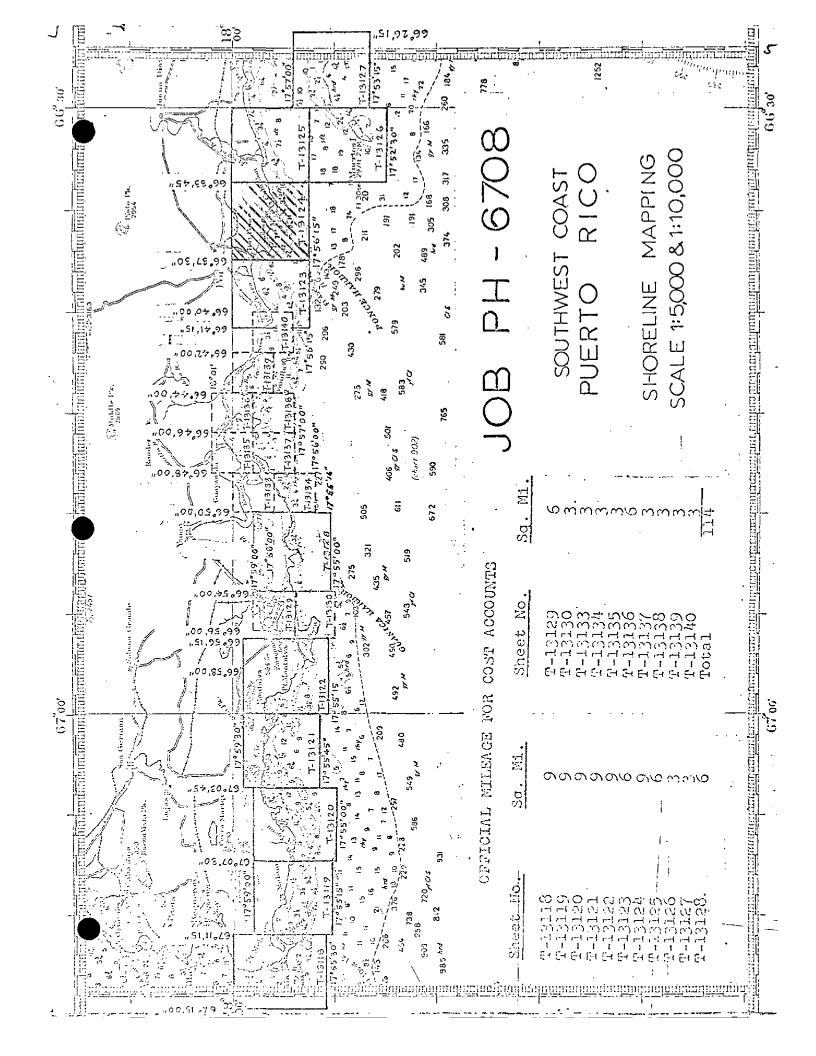
USCOMM-DC 46200-P70

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY ESSA FORM 76-36c HISTORY OF FIELD OPERATIONS T-13124 I. FIELD INSPECTION OPERATION X FIELD EDIT OPERATION OPERATION NAME DATE 1. CHIEF OF FIELD PARTY Joseph K. Wilson Richard D. Olson Feb., 1971 RECOVERED BY 2. HORIZONTAL CONTROL ESTABLISHED BY NA NA PRE-MARKED OR IDENTIFIED BY RECOVERED BY NA 3. VERTICAL CONTROL ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA Feb.,19/1 Richard D. Olson RECOVERED (Triangulation Stations) BY April,1971 Richard D. Olson 4. LANDMARKS AND LOCATED (Field Methods) BY AIDS TO NAVIGATION none IDENTIFIED BY TYPE OF INVESTIGATION COMPLETE 5. GEOGRAPHIC NAMES INVESTIGATION Richard D. Olson March, 1971 X SPECIFIC NAMES ONLY NO INVESTIGATION Richard D. Olson March, 1971 6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY 7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY II. SOURCE DATA I. HORIZONTAL CONTROL IDENTIFIED 2. VERTICAL CONTROL IDENTIFIED NA РНОТО NUMBER STATION NAME PHOTO NUMBER STATION DESIGNATION 3. PHOTO NUMBERS (Clarification of details) Field Photos 66L8351, 8448, 8450 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED none PHOTO NUMBER OBJECT NAME PHOTO NUMBER OBJECT NAME 5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT X NONE 7. SUPPLEMENTAL MAPS AND PLANS Plans of new dock north of Ponce Yacht and Fishing Club Planametric map of Ponce Yacht and Fishing Club 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Oblique photo of Rio Bucana Levee

ESSA FORM 76-36C

T-13124

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area For Hydro.	Nov. 1970	Superseded
Field Edit Applied	August 1971	Superseded
Final Review	Feb. 1973	
		·



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13124

Shoreline survey T-13124 is one of twenty-one similar surveys in project PH-6708. The project is located on the south coast of Puerto Rico and extends from Dabo Rojo to Cayo Berberia. This survey starts at Playa de Ponce and continues eastward to Cayo Desgraciado.

There was no field work preceding the "incomplete" manuscript.

Compilation was by B-8 plotter using November, 1966 photography. A copy of the incomplete manuscript along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheet, location of photo-hydro signals and field edit use.

The manuscript was a stabilene sheet, three minutes, forty-five seconds in latitude and three minutes, forty-five seconds in longitude at 1:10,000 scale. After field edit was applied and checked, the manuscript was scribed, reproduced and stuck-up. The final review was at AMC in Feb. 1973. One cronaflex and negative of the final reviewed survey are being forwarded for record and registry.

FIELD INSPECTION REPORT PH-6708 T-13124

There was no field inspectaon 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.

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. Smoke 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

I. I. Sapersteyn

Approved and Forwarded

Henry F. Eichert, Chief

Aerotriangulation Section

STRIP 11.0 T-13123 T13124 T-13125 100°81 Extension 66M625 T-13127

3. ENSENADA, SOUTH AR. SUGAR CO. CENT. GUANICA WEST & EAST STACKS, 1966

4. VAQUERO, 1900 GUANICA MONIC. WIT 1966

5. TURN 2, 1966

GUAYANICLA, UNION CARBIDE CO. W.T. 1966

B. PONCE, RADIO STATION WELD MAST, 1966 PONCE BAY FRONT & REAR RANGE LTS. 1966

9. CARDONA

PONCE, DON Q GUANICA RANGE FRONT RUM. CO. STACK, 1966

AEROTRIANGOLATION

PUERTO Southwest Coast RICO

PH-6708 Oct. 1967

LEGEND



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 13124 PROJECT NO.	T NO. PH-6708	SC/	SCALE OF MAP 1:10,000 SCA	SCALE FACTOR None	1
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	ON LINE
Ponce Anchorage	Geodesy	Puerto	170 581 32.53315#	2 (84	.4)
1300 T300	27334	00TV	36.	1725.0	3)
Ponce Mills Inc. Water Tank,	# #	=	170 591 57.42631"	.67)	1)
1300	27528		66° 36' 54,70416"	1609.3	(8
	# # CO	£	17 ⁰ 58. 53.35210"	2	.4)
valige Light, 1900	27.532		66° 37° 14.48074"	426.0 (1339,	9.3)
Ponce Bay Rear	ŧ	ŧ	17 591 02.14671"	66.0 (1778.	
, 1181L	27333		66° 37' 12.02013"	353.6 (1411,	1.7)
Ponce Radio Station WEVC,	=	F	17 594 56.354714"	1732.5 (112.)	.1)
	27329		660 371 05,76228"	169.5 (1595)	5.6)
Ponce. Radio Station WPRP.	ŧ	F	591	1416.7 (427.9	01
1966	27327		66 ⁰ 37' 29,49070"	867.6	(9.
Radi	11	Ε	170 581 52.81773"	1623.8 (220.8)	.8)
WLEO, Mast, 1966	27331		66 ⁰ 36' 49.24502"	1448.8 (316.5	.5)
Wirshing, 1966	r	E	17° 57' 51.59478"	1586.2 (258.4	4)
	27093		660 341 45,19736"	1329.9 (435.5	.5)
	[17] [17]	F	170 581 13.832"	425.2 (1419.4	9.4)
Jetty Light, 1971	Form 56/		66 361 03.1675"	93.2 (1672.	2.2)
					İ
computed HY A.C. Rauck, Jr.	DATE NOV. 19, 1	1968	CHECKED BY C. Blood	DATE Nov. 20, 1968	l

COMPILATION REPORT

T-13124

31. DELINEATION

Delineation was by Wild B-8 methods using the color photography of November 16, 1966, supplemented by offshore color photography of November 15, 1966 and infrared photography of November 16, 1966.

The photography was of good quality. There was no field inspection prior to compilation.

32. CONTROL

See Photogrammetric Plot Report dated Oct. 31, 1967.

.33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and all alongshore details were delineated from office interpretation of the photos.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Copies of form 567 for three Landmarks and three Aids to Navigation have been forwarded to the Rockville Office

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

A junction was made with T-13123 to the West and T-13125 to the East. There is no contemporary survey to either the North or South.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

Field edit was very well applied. It was effectively arranged so there was very little chance of misunderstanding.

The compiler was unable to get three point fix No. 49 to hold. There was omission of all landmark heights.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangle PLAYA DE PONCE, PR, scale 1:20,000 dated 1962.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 927 BAHIA DE PONCE and APPROACHES, scale 1:20,000, 7th Ed. dated July 13, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Dessard Lus for Richard R. White

Cartographic Technician

November 16, 1970

Alfred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

December 8, 1972

GEOGRAPHIC NAMES

FINAL NAMES SHEETS

Ph-6708 (Puerto Rico)

TP-13124

Caleta de Cabullones

Cayo Desgraciado

Isla de Gata

Isla de Jueyes

Mar Caribe

Muelle de Ponce

Playa de Ponce

🛪 Punta Carenero

Punta Cabullones

Punta Penoncillo

Quinta Esperanza

Rio Bucana

Rio Portugues

Roca Ahogado

Approved:

Chief Geographer

Cartographer

T-13124

49- NOTES TO THE HYDROGRAPHER

None

FORM C&GS-1002 U.S. DEPARTMENT OF COMMERCE (9-66)					
PHOTOGRAMMETRIC OFFICE REVIEW					
			13124		
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
I.FB.	LFE	3	LFB	LFB	
CONTROL STATIONS					
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS	
LFB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Topographic	stations) XX	χχ	
B. BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS	
	FIXES		PLOT REPORT		
ΧХ	RJF	,	LFB	LFB	
ALONGSHORE AREAS (Nautica	l Chart Data)		A		
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
T IID	LFF		LFB	LFB	
LFB	17. LANDMARK		18. OTHER ALONGSHORE		
	1		PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
LFB	LFE	3	LFB	LFB	
PHYSICAL FEATURES					
20. WATER FEATURES		21, NATURAL C	ROUND COVER	22. PLANETABLE CONTOURS	
LFB			LFB	XX	
23. STEREOSCOPIC	24. CONTOURS	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
			2/2/		
XX	XX		XX	LFB	
CULTURAL FEATURES 27. ROADS 28. BUILDINGS 29. RAILROADS 30. OTHER CULTURAL					
				FEATURES	
LFB	LFI	3	LFB	LFB	
BOUNDARIES					
31. BOUNDARY LINES XX XX					
XX			λλ.	· · · · · · · · · · · · · · · · · · ·	
MISCELLANEOUS 33. GEOGRAPHIC NAMES	 	34. JUNCTIONS	<u> </u>	35. LEGIBILITY OF THE	
LFB	34. JUNCTIONS		RJP	MANUSCRIPT LFB	
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
T DD		D	RJP	LFB	
LFB 40. REVIEWER	LFF		SUPERVISOR, REVIEW & EQTA	ON OR UNIT -7 / A	
Inc. P. Davies			Albert C. Rauck,	ut o Kauck y.	
Leo F. Beugr	iet		ATDET C. Nauck,	01.	
41. REMARKS (See attached she	et)				
FIELD COMPLETION ADDITION	15 AND CORREC	TIONS TO THE M	ANUSCRIPT		
42. Additions and corrections script is now complete ex	s furnished by th	ne field completi der item 43	on survey have been applied	to the manuscript. The manu-	
			SUPERVISOR	+ 1 0 = 40	
Reviewed By: R.J.		209 10/1	Albert C. Rauck,	st C. Rauck J.	
43. REMARKS			1		
 Field Edit Applied	From: F	ield Edit	Ozalid T -13124, Ph	otographs 66-L-(c)-	
8448,66-L-(c)-8450	and 66-L-	-(c)-8351.	Plan of Pier át 1	.7 ^o 58 ' 07 " Lat. 66 ^o	
8448,66-L-(c)-8450 and 66-L-(c)-8351. Plan of Pier at 17 ⁰ 58' 07" Lat. 66 ⁰ 37' 05", Planametric Map of Ponce Yacht and Country Club, Curve Data For Deve					
737' 05", Planametri	c Man of 1	Ponce Y ach	t and Country Club	, Curve Data For Deve	
37' 05", Planametri lopement of Rio Bu Fixes in back of F	icana. Also	o See List	t and Country Club of Signals and T	o,Curve Data For Deve near Positions and	

FIELD EDIT REPORT

T-13124

Job PH-6708

Southwest Coast of Puerto Rico

52. ADEQUACY OF COMPILATION.

Compilation was adequate. The HWL was compiled correctly where changes haven't been made since photography.

Four major manmade changes have occured in the HWL since photography. The first three of these changes were delineated with 3 point fixes, while origional plans were consulted for the fourth change listed. These are as follows: 1) A new public square has been constructed beyond the old HWL at Playa de Ponce; 2) An area just south of Playa de Ponce and north of the municipal piers has been filled for a future enlargement of the municipal piers. A date could not be obtained when the construction would continue or when the piers would be completed, but indications were that it would be years from now; 3) Isla de Gata and the dyke leading to the island have been enlarged to the south and west; 4) Rio Bucana has been dredged and rerouted, a rock levee constructed along its west bank, and a rock jetty built at the mouth and on the west bank of the channel. The completed construction, as shown on the field edit sheet, is only the west half of the proposed channel which when completed will be twice its present width with a rock levee along its eastern bank. It is unknown when the east half of the channel will be constructed. The curve data for this channel was obtained off the original plans and plotted on the field edit ozalid. Check fixes were obtained along the levee crest which verified the curve data plotted. This curve data is shown on a separate sheet attached to this report.

An oblique photograph of the completed channel was obtained from the contractors and is included with other data for this sheet.

A new dock is to be constructed during this year at 17°58'08"-66'37'04". A x-erox copy of the pier layout is included in this report.

A series of ponds have been created just east of Rio Bucana where soil removal operations are in progress. These same operations are in progress at the extreme east edge of the map manuscript. Neither of these operations have affected the HWL. Several roads were added for compilation and several roads were miscompiled as ditches as shown on the field edit sheet.

54. RECOMMENDATIONS.

None

56. GEOGRAPHIC NAMES.

Many of the names on this T-sheet are in dispute with the names in common, local usage for the area. All disputed names on the map manuscript are listed below with explanations.

Disputed Name and Reference

Pta. Penoncillo T-13124

This name was unknown to the people interviewed. It is possible that this name referred to the area as shown long ago, but should be considered not in local usage at this time.

Cayo Gata T-13124 This island was once a sand covered reef with mangrove and was referred to locally as a key or "Cayo". The area has since been extended with fill material and aquired a permanency and is locally referred to as an island and thus the name Isla de Gata.

Paa. Carenero T-13124

This name was unknown to the people interviewed. This area is now referred to locally as La Guancha.

Caleta De Cabullon T-13124 This has been misspelled and should read Caleta De Cabullones.

Punta Cabullon
T-13124

This has been misspelled and should read <u>Punta Cabullones</u>.

Isla de Jueyes New Name

This new name is used by local mariners to refer to the island farthest west in the area known as Punta Cabullones.

Cayo Desgraciado New Name This refers to a reef located about ½ mile west of Isla de Frio and at the extreme eastern edge of T-13124.

Local Authorities Consulted Were:

I. Luis A. Armstrong is a local buisnessman who has resided in Ponce, Puerto Rico for 46.years. He is a very well known sports fisherman and was considered to be the best authority for nautical names in this area by all the people interviewed.

- II. Enrique Petrovich is the Commadore of the Ponce Yacht and Fishing Club and has been a resident of Ponce for 36 years.
- III. Dr. Andy Lang is the Vice Commadore of the Ponce Yacht and Fishing Club and a resident of the area for 20 years.
- IV. Rafail D. Mercado M.D., is the Rear Commadore of the Ponce Yacht and Fishing Club and a local resident for 42 years.
- V. Dr. Raul Pov is the Director of the Ponce Yacht and Fishing Club and a local resident for 45 years.
- VI. Capt. Juan P. Barcia is a local buisnessman and a boat owner, and has been a local resident for 47 years.
- VII. Frank Bonnin is a local businessman and the official USC&GS Chart Agent for Ponce, Puerto Rico.
- VIII. Ronald J. Wirshing is a large coastal land owner in the area and a boat owner. He has been a local resident for 27 years.
- IX. Capt. William Suarez Williams is the Capt. of Port, Puerto Rico Ports Authority, Ponce, Puerto Rico.

All of the above people can be contacted through the Ponce Yacht and Fishing Club, Ponce, Puerto Rico.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION.

There are three landmarks and three fixed aids to navigation recommended for charts 902 and 927. The landmarks are WPRP radio mast, Ponce Mills water tank and WLEO radio mast. The fixed aids are Bahia De Ponce front and rear ranges and Rio Bucana Jetty Light.

58. ROCKS, REEFS, SHOALS, AND FOUL AREAS.

The reef called Roca Ahogado and the reef at the mouth of Rio Bucana have limits different from those compiled. The hydrographer's fixes are indexed on the field edit ozalid and a copy of the fixes are attached to this report.

Two reefs located at 17'58'15" - 66'36'25" and 17'58'20" - 66'35'30" were found to be a solid rock conglomerate of sand and small shells and are not coral.

The reef along Punta Cabullones has been revised and its limits have been redelineated on photo 66L8351. A fix was obtained at the most westerly point of reef and is shown on the field edit ozalid.

Shallow limits have been removed as the hydrographer is in the process of sounding these areas.

59. MISCELANEOUS.

All times noted on the field edit ozalid refer to G.M.T., and not local time.

All fixes shown on the field ozalid use the hydrographers

signals and all numbered signals are the same numbers as on the hydrographic sheet. A list of signals and their positions is included for the area covered by this map manuscript.

Richard D. Olson

LTJG NOAA

LIST OF SIGNALS

for T-13124

Signal No.	N-Lat Deg-Min			ngitude n <u>-Meters</u>	Located By _(Method)
313	17 - 57	0964.5	66-38	0220.4	\triangle
340	17-59	0832.2	66-37	1409.3	Δ
350	17-58	1786.7	66-37	1392.7/	\triangle
360	17-59	1416.7	66-37	0867.6	Δ
370	17-59	1765.4	66-36	1609.3	\triangle
380	17-59	0066.0	66-37	0353.6	\triangle
390	17-58	1640.2	66-37	0426.0/	\triangle
480	17-58	0266.7	66-37	0513.2	Photo
482	17-58	0260.9	66-37	0475.4	Photo
484	17-58	0287.7	66-37	0224.3	Photo
486	17-58	0004.6	66-37	0155.1	Photo
488	17-57	1720.0	66-36	1483.6	Photo
490	17-57	1771.2	66-36	1126.6	Traverse
491	17-58	0425.2	66-36	0093.2	3-point fix (T2)
493	17-58	0679.0′	66-36	0040.0	Sextant
497	17-58	1014.5	66-36	0004.6	Sextant
500	17-58	1623.8′	66-36	1448.8	\triangle
510	17-58	0354.5	66-35	1682.7	Photo
520	17-58	0488.2	66-35	0685.0	Photo
525	17-57	1745.0	66-35	0201.8	Sextant
527	17-57	1326.6	66-35	0698.2	Sextant
530	17-58	1552.2	66-34	1315.3	Traverse
540	17-58	1792.7	66-34	0864.5	Traverse
550	17-58	0200.0	66 -3 4	0440.6/	Traverse
560	17-58	0287.8	66-33	1658.1~	Traverse

RIO BUCANA CURVE DATA

T-13124

<u>Curve V1</u> Δ = 167°10′01″ -		,	Sta. 21+00.00 - N 17095.95m - E 134,985.06m -
R = 2,530.00 m T = 284.53 m L = 566.67 m Center of circle *Y = N 15,838.83 m		008 17 59 E	PT 13+27.40 N 16,331.43m E 134,873.53m
*X = E 132,318.03 m		, A	N 16,075.50m E 134,836.20m E
Curve V2 Δ = 172° 36′ 02″ Γ *R = 4000.00 m T = 258.65 m Γ		000 54 01	PC 8+10.82 N 15.816.89m - E 134.832.13m
L = 516.62 m Center of circle *Y = N 15.754.70 m * *X = E 138.823.32 m		Z \	N 15,516.57m ~ E 134,827.42m ~
91 m — 2 79 m — 7	Rio Bucana Jetty Light	J	PC 2+28.33 ⁻ N 15,240.17m ⁻ E 134,759.87m ⁻
		, 1	Station 0+00
\Toe of jetty		Sketches	are not to scale.

* Note: These values were computed by the field editor, all other values are from the originnal plans. All values are in meters

Reef Delineations for Reefs in Caleta De Cabullones

T-13124

Hydrographers fixes and comments on his detached positions for boatsheet MI-10-1-71.*

<u>Fix</u>	<u>Signals</u>	<u>Angles</u>	Comments of Hydrographer
0021	490 510 520	102-56 36-11	rock awash, inshore edge of reef
0022	same	99-41 39-12	inshore edge of reef
0023	same	94-40 43-06	inshore edge 15m seaward, rock awash
0024	same	88-55 47 - 26	eastern edge of reef
0025	same	87 - 01 48-55	coral head, eastern edge
0064	same •	101-03 35-08	rock awash, off reef
0065	same	92-05 39-03	10m south of reef
0066	same	89-13 43-18	5m south of reef
0067	same	87-26 47-10	5m south of reef

*NOTE: These fixes represent a general reef delineation and are not necessarily all the hydrographers fixes for the reefs.

The hydrographer has stated that all "rocks" referred to in the hydrographers comments are of coral composition.

Hydrographers fixes continued.

<u>Fix</u>	<u>Signals</u>	<u>Angles</u>	Comments of Hydrographer
0068	493 510 520	39-35 43-21	rock awash, west end of reef
0069	500 510 520	33-24 88-48	7m south of reef, rock awash
0070	490 500 510	53-36 10-34	10m south of reef
0071	490 510 500	13-12 38-16	7m south of end of reef, rock awash

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REVIEW REPORT

SHORELINE

T-13124

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

A general comparison was made with registered surveys No. 2415 at 1:10,000 scale, dated 1899 and a small portion of No. 2416 at 1:20,000 scale dated 1899. So many man made and natural changes have taken place since these surveys that there was too great a difference to make any discrepancy notes that would have been of any significance.

Registered surveys No. 2415 and 2416 are superseded by T-13124 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS Quadrangle Playa De Ponce, PR, 1962 at 1:20,000 scale. Many man made and natural changes account for most of the differences. The rest can be accounted for by the change in datum and improved methods of contemporary surveying. Differences are noted on the discrepancy print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with boat sheet H-9186 at 1:10,000 scale of 1971. There were some small differences but none of significant value.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 927, 1:20,000 scale, dated July 3, 1971. There have been many natural and man made changes over a period of years. Some of the changes already appear on the nautical chart.—Others do not. The existing differences are noted in red on the discrepancy print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Cartographer

Approved for forwarding:

Melvin J. Thobach, CDR, NOAA /Chief, Coastal Mapping Division, AMC

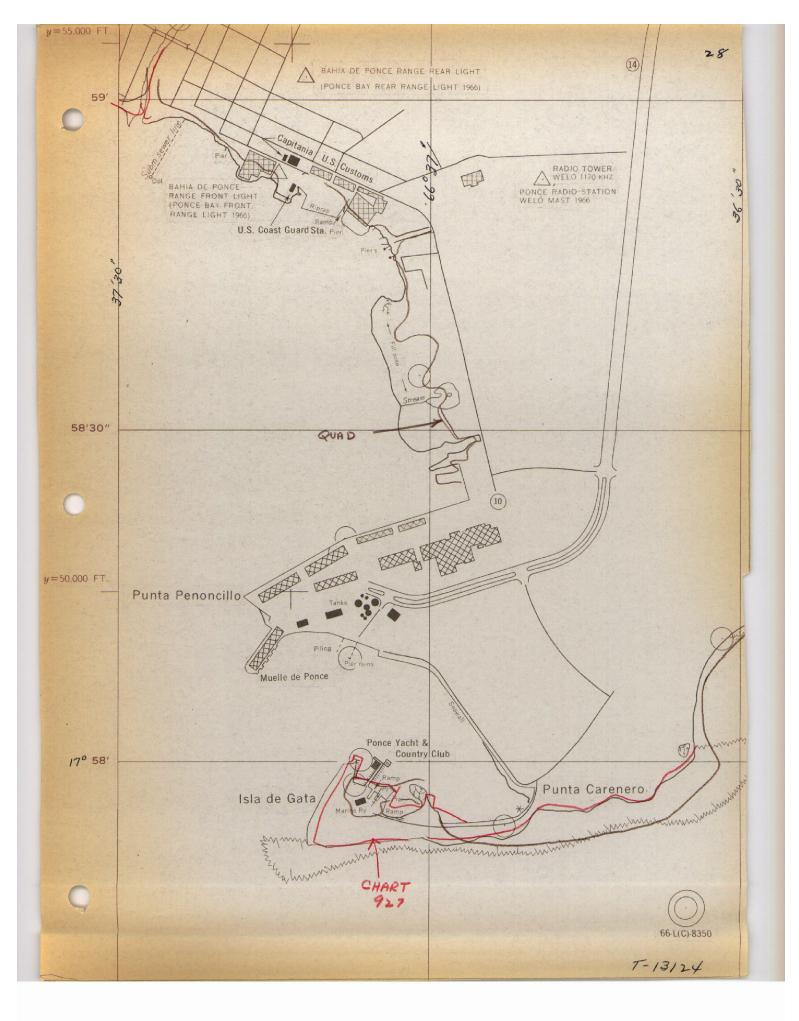
Approved:

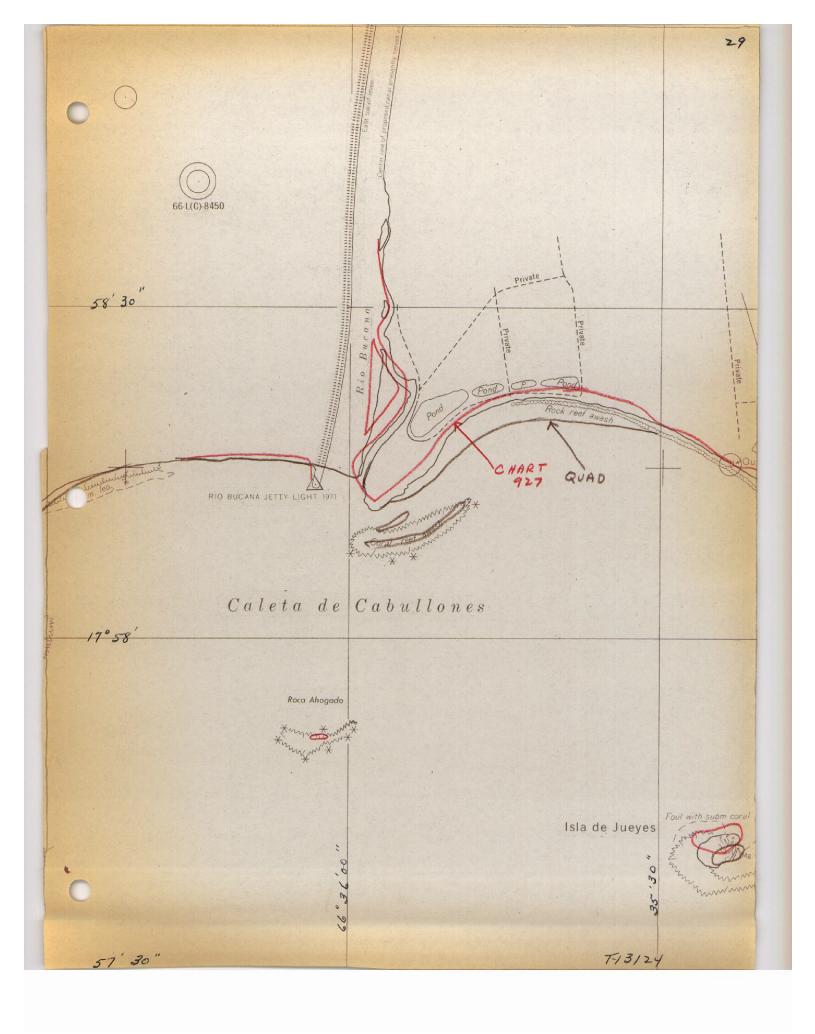
Alfred C. Holmes, RADM, NOAA

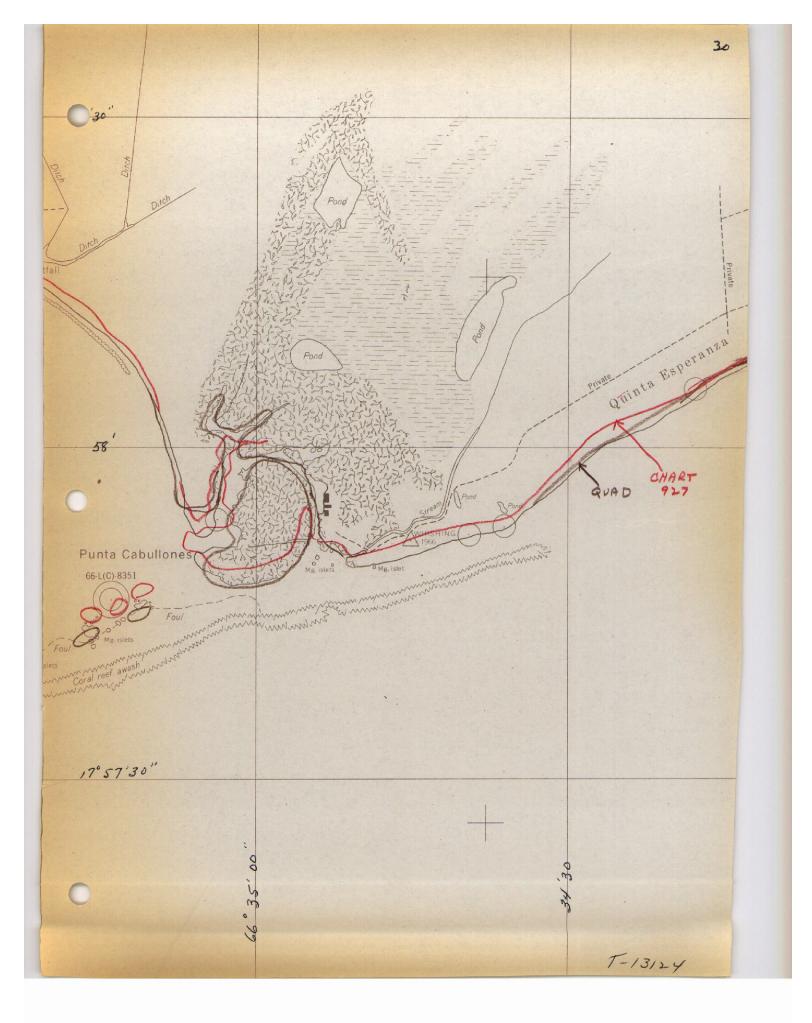
Director, Atlantic Marine Center

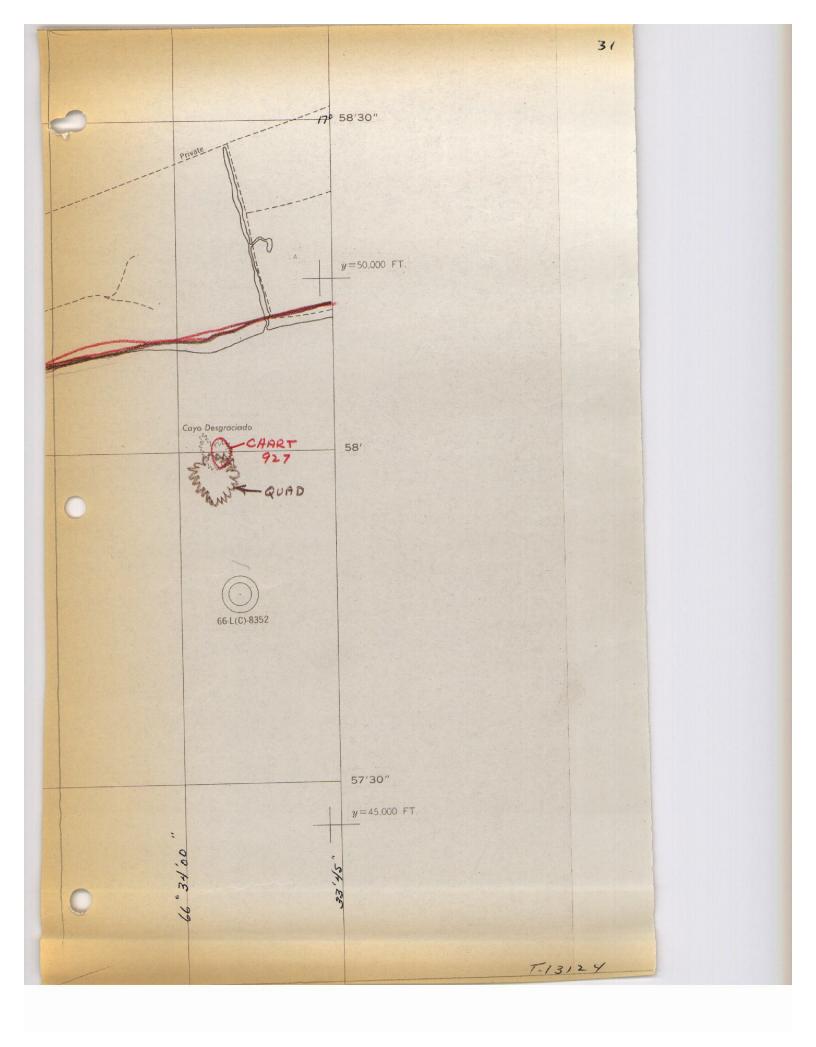
Approved;

Chief, Photogrammetric Branch Chief, Coastal Mapping Division









USCOMM-DC 3648

FORM C&GS-567

FRVICES ADMINISTRATION U.S. DEPARTMENT OF COMMERCE ETIC SURVEY ENVIRONMENTAL SCIENT

STRIKE OUT TWO Kolen enamen

Ponce, Puerto Rico

. 19.71 March

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I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be

The positions given have been checked after listing by Garl W. Fisher Lt., NOAA charted on (deleted from) the charts indicated.

NO. Capt. NC E.K. MCCaffrey

CHARTS 902 OFFINDRE CKART THENDRE CHART × HAND ROBRAN triang March LOCATION DATE METHOD OF COCATION AND BURVEY No. DATUM Puertd Ritean 03.1675 D. P. METERS LONGITUDE # 13.832 66°36 96.99 POSITION ø D.M.METERS LATITUDE * 7058! 7°58. 0 BIGNAL 164 outer end of jett water elevation: 19 feet old position: Bucana Jetty Light DESCRIPTION Puerto Rico OK FI Rio light list CHARTING NAME 392.50 BTATE

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted The data should be landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

	NOAA FORM 76-40	5-40	U.S. DEPARTME	AT OF COM	MERCE-NA	TIONAL OC	EANIC AND	U.S. DEPARTMENT OF COMMERCE - NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	MINISTRATION	ORIGINATING ACTIVITY	rivi T Y
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	NAME	DESCRIPTION	Z01F		D.M.METERS	•	D.P.METERS	INSPECTION	COMPILATION		
7	Radio Tower	VIEO 1170 KHZ Ponce Radio Station	ation	170581	17058152.818	660361	66 ⁰ 36 ¹ 49,245 1448,8	Triang. Rec	c.66L(c)- c.8450 Nov.16/66	Verif. Mar. 1971	902 927
7	Tank	Ponce Mills Inc. Water Tank 1966	. Water	17059	57, 426 1765, 5	+	66°36°54•704		66L(¢)- 8450 Nov. 16/66	Verif. Mar. 1971	902 927
\	Radio Tower	WPRP 910 KHZ (Ponce Radio Station WPRP Mast 1966)		170591	46.083 1416.7	66 ⁰ 37	66 ⁰ 37,29,491 867,6		8456c)- Nov.16: 166	Verif. Mar. 1971	902 927
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RESPONSIBLE PERSONNEL NAME FIELD INSPECTOR	RESPONSIBLE PERSONNEL FIELD INSPECTOR		PIELD EDITOR	2. Positions determined and/or verified
RESPONSIBLE PERSONNEL FIELD INSPECT	RESPONSIBLE PERSONNEL FIELD INSPECT	,	FIELD INSPECTOR	
OF ACTION NAME	RESPONSIBLE PERSONNEL NAME		בופרם ביפרם	1. Objects inspected from seaward
RESPONSIBLE PERSONNEL	RESPONSIBLE PERSONNEL			TYPE OF ACTION
			RESPONSIBLE PERSONNEL	

3. Position Venified - Enter 'Venif. mo/day/yr.'

* U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.#6