

ORIGINAL

13125

13125

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-13125

### LOCALITY

State Puerto Rico

General locality Southwest Coast

Locality Rio Jacaguas

1966-1971

### CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

### LIBRARY & ARCHIVES

DATE .....



## DESCRIPTIVE REPORT - DATA RECORD

T-13125

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation - Date of Photography 1966		
PROJECTION AND GRIDS RULED BY (IV):		DATE
Coradomat Auto Plotter		
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
" " "		
CONTROL PLOTTED BY (III):		DATE
Aerotriangulation Points: - R. White		Feb. 12, 1970
Triangulation Stations: -		
CONTROL CHECKED BY (III):		DATE
Aerotriangulation Points: - L. O. Neterer, Jr.		Feb. 12, 1970
Triangulation Stations: -		
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
I. I. Saperstein		Oct. 31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY By: L.O. Neterer, Jr.	DATE Feb. 26, 1970
	Reviewed By: A.L. Shands	Feb. 26, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
R. White		Nov. 18, 1970
SCRIBING BY (III):		DATE
W. Gilbert		6/28/72
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
Compilation: Beugnet		12/1/70
Field Edit: R.J. Pate		9/3/71
Scribing and Stick Up: F. Marqiotta		7/12/72,
		8/22/72
REMARKS:		DATE:
Field Edit By: - Richard D. Olson		April 1971

## DESCRIPTIVE REPORT - DATA RECORD

T-13125

CAMERA (KIND OR SOURCE) (III):

Wild RC "8" L

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66-L-(c)-8446 thru 8448	Nov. 16, 1966	8:33	1:30,000	0.6 Ft. above MLW
66-L-(c)-8463	Nov. 16, 1966	08:40	1:30,000	0.6 Ft. above MLW
66-L-(c)-8353	Nov. 15, 1966	10:03	1:30,000	0.8 Ft. above MLW

## PREDICTED TIDE (III)

## DIURNAL

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Galveston, Texas		1	1.4
SUBORDINATE STATION: Playa Cortada, P.R.	0.57		0.4
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV) Bernard Kurs, AMC

DATE:  
Feb. 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): None

RECOVERED:  
NoneIDENTIFIED:  
None

NUMBER OF BM(S) SEARCHED FOR (III):

None

RECOVERED:  
NoneIDENTIFIED  
None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

ESSA FORM 76-36c  
(2-70)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION T-13125

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Joseph K. Wilson	
2. HORIZONTAL CONTROL	RECOVERED BY Richard D. Olson	March, 1971
	ESTABLISHED BY Richard D. Olson	March, 1971
	PRE-MARKED OR IDENTIFIED BY NA	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Richard D. Olson	March, 1971
	LOCATED (Field Methods) BY none	
	IDENTIFIED BY none	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	Richard D. Olson March, 1971
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY Richard D. Olson	March, 1971
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

NA

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

Field Photos 66L8353, 8448

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)

none

T-13125

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	Nov. 1970	Superseded
Field Edit Applied, Compilation Complete	Sept. 1971	Superseded
Final Review	Feb. 1973	

67° 00'

66° 30'

## OFFICIAL MILEAGE FOR COST ACCOUNTS

JOB PH - 6708

Sheet No.

Sq. Mi.

Sheet No.

Sq. Mi.

T-13118  
T-13119  
T-13120  
T-13121  
T-13122  
T-13123  
T-13124  
T-13125  
T-13126  
T-13127  
T-13128.

9  
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9

T-13129  
T-13130  
T-13133  
T-13134  
T-13135  
T-13136  
T-13137  
T-13138  
T-13139  
T-13140  
Total

6  
3  
3  
3  
3  
3  
3  
3  
3  
3  
114

SOUTHWEST COAST  
PUERTO RICO  
SHORELINE MAPPING  
SCALE 1:5,000 & 1:10,000

67° 00'

66° 30'

778

1252

## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORT

T-13125

Shoreline survey T-13125 is one of twenty-one similar surveys in project PH-6708. The project is located on the south shore of Puerto Rico and extends from Cabo Rojo to Cayo Berberia. For the location of this sheet see index for Job PH-6708.

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.

This manuscript was a stabilene sheet, three minutes, forty-five seconds in latitude and three minutes, 45 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-13125

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.

9

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

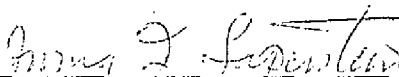
The definition and quality of the RC-9 "M" and RC-8 "L" color photography was fair and good respectively. Smoke covers parts of some photographs on Strips 3 and 5A, but should not hinder compilation of the shoreline.

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.

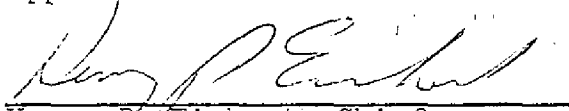
Ratio prints have been ordered for the 1:30,000 and 1:15,000 scale photographs to compilation scale, on black and white base.

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

Respectfully submitted

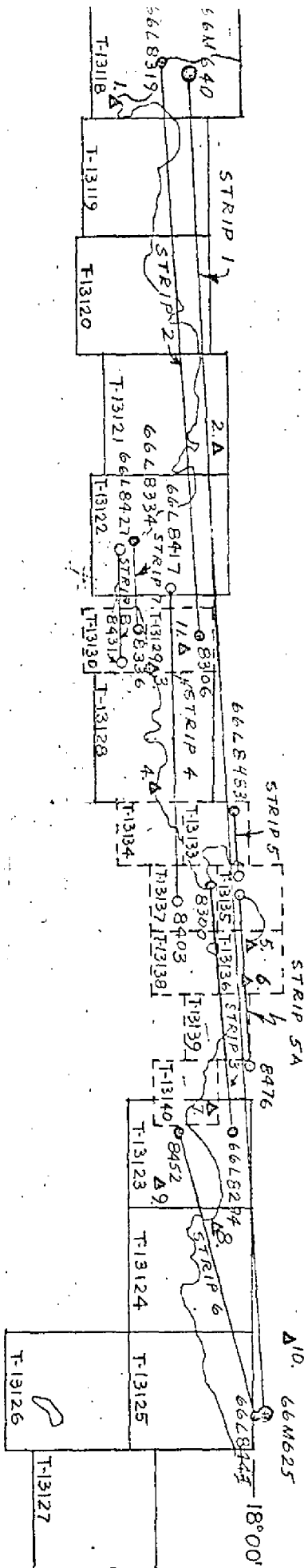
  
I. I. Saperstein

Approved and Forwarded

  
Henry P. Eichert, Chief  
Aerotriangulation Section

67°00'

66°30'



1. CABO ROJO (USAF) 1966
2. CERRO VERTERO 2 (USGS) 1934
3. ENSENADA, SOUTH P.R. SUGAR CO. CENT. GUANICA WEST & EAST STACKS, 1966
4. GUANICA MUNIC. W.T. 1966
5. VAQUERO, 1900
6. TURN 2, 1966
7. GUAYANILLA, UNION CARBIDE CO. W.T. 1966
8. REY, 1966
9. PONCE, RADIO STATION WELO MAST, 1966
10. PONCE BAY FRONT & REAR RANGE LTS. 1966
11. CARBONA ISLAND L.H. 1900
12. PONCE, DON Q RUN CO. STACK, 1966
13. BAHIA DE GUANICA RANGE FRONT & REAR LTS. 1966

# AEROTRIANGULATION

PUERTO RICO  
Southwest Coast

PH-6708  
Oct. 1967

## LEGEND

- Δ Control Used in Adjustment
- 1:60,000 Photos (color)
- 1:30,000 Photos ( " )
- 1:15,000 Photos ( " )

## DESCRIPTIVE REPORT CONTROL RECORD

SCALE OF MAP 1:10,000

SCALE FACTOR	None
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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 ( <i>1 ft. = 3048006 meter</i> ) FORWARD (BACK)
Central Fortuna USGS Concrete Stack, 1934	From Form 964 P 3 of 4	Puerto Rico ADJ	462,819.5 59,833.3	
COMPUTED BY L.L. Graves	DATE Sept. 2, 1971	CHECKED BY B.L. Barge	DATE Sept. 3, 1971	//

PUERTO RICO Ph-6904

DESCRIPTIVE REPORT CONTROL RECORD

Page 1 of 2

New York, Datum  
Adjusted

MAP T	PROJECT NO.	SCALE OF MAP	SCALE FACTOR	STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LONGITUDE OR COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meters)
				HOUSE, 1966	162	PUERTO RICO	690,308.67	✓
				"		52100	57,253.55	✓
				SUB. STA.	Comp.	6	<del>57,253.55</del>	✓
				POINT TUNA L.H., 1901		52101	690,301.74	✓
					323	51100	57,291.23	✓
				POINT VIENTO 3, 1966	177	49100	658,450.85	✓
				"			49,833.69	✓
				SUB. STA.	Comp.	49101	658,116.00	✓
				ARROYO BENCON (USGS)	179	50100	633,742.56	✓
					156 1966		44,106.17	✓
				BARR, 1965	178	45100	611,405.24	✓
				"			612,871.45	✓
				INFIerno, 1966	198	30100	575,860.12	✓
							324,753.82	✓
				AGUIRRE, 1966	200	41100	568,727.11	✓
				FORT ALLEN, US NAVY BARR,			47,936.20	✓
				WATER TANK, 1970	417	21100	475,125.28	✓
				"			63,838.57	✓
				SUB. STA.	Comp.	21101	475,239.51	✓
							64,193.28	✓
				BAT, 1965	155	88100	726,943.53	✓
							103,153.96	✓
COMPUTED BY	DATE	CHECKED BY	DATE					
		J.D.P.						



OL RECORD  
New P.R. Data

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	COORDINATE	COORDINATE	DATE	COMPUTED BY	CHECKED BY	DATE
MACHETTE B 1926	60100	1926	611, 164.41	611, 161.73	12.68			
BRICK STACK, RED BRICK SHED (USGS) 1928	60100	1928	45, 093.18	45, 094.34	3.84			
MERCEDES, 1928	61100	1928	603, 415.72	603, 413.04	2.68			
			41, 033.97	41, 030.13	3.84			
ESPERANZA, OLD MILL, 1926	62100	1926	609, 993.38	609, 990.70	2.68			
			53, 131.82	53, 128.04	3.84			
GUAYAMA CHURCH STEEPLE, 1899	63100	1899	611, 233.41	611, 235.73	2.68			
			55, 953.06	55, 949.22	3.84			
CENTRAL LAFAYETTE (USGS), 1934	64100	1934	629, 779.08	629, 776.40	2.68			
			53, 286.66	53, 282.82	3.84			
TANK, 1926	65100	1926	630, 005.42	630, 002.75	2.68			
			50, 739.11	50, 735.27	3.84			
PATILLAS CHURCH (USGS), 1940	66100	1940	645, 485	645, 482	3			
			63, 497	63, 493	4			
MAUNABO CHURCH (USGS), 1934	67100	1934	685, 295	685, 302	7			
PALIS, SUGARHOUSE CHIMNEY, 1849	68100	1849	64, 056	64, 052	4			
CENTRAL FORTUNA USGS			525, 686.52	525, 682.94	3.58			
CONCRETE STACKS, 1934	69100	1934	51, 505.82	51, 505.55	0.27			
SANTA ISABEL, WEST			462, 819.5	462, 815.3	4.2			
MUNICIPAL WATER TANK, 1966	70100	1966	59, 823.3	59, 835.4	2.1			
SANTA ISABEL, EAST			509, 891.75					
MUNICIPAL WATER TANK, 1966	71100	1966	50, 741.32					
SANTA ISABEL, WEST			510, 008.56					
MUNICIPAL WATER TANK, 1966	71100	1966	50, 757.28					



## DESCRIPTIVE REPORT CONTROL RECORD

New P. R. Datum

MAP T-

PROJECT NO.

SCALE OF MAP

SCALE FACTOR

N.A. 1927 - DATUM  
DISTANCE FROM GRID OR PROJECTION LINE  
IN METERS (1 Ft. = 3048006 meter)

[illegible]

## COMPILATION REPORT

T-13125

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 photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Copies of form 567 for one landmark has been forwarded to the Washington Office.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

A junction was made with T-13124 to the West and T-13126 to the South. There is no contemporary survey to either the North or East.

40. HORIZONTAL AND VERTICAL CONTROL

No statement.

41. FIELD EDIT

The field edit was compiled in a very orderly manner, enabling the compiler to apply with the least of error. One three point fix No. 14 was difficult to plot within the accuracy required. The short distance to signal 610 and the small angle between signals 580-571 and the check angle between 580-560 resulted in a poor three point fix therefore it was not plotted.

One landmark was verified, (stack, central fortuna) and its height was not submitted.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. 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 Edition dated July 13, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

*Bernard Kurs*  
for

Richard R. White  
Cartographic Technician  
November 18, 1970

Approved:

*Alfred C. Holmes*

Alfred C. Holmes  
RADM, NOAA  
Director, AMC

December 11, 1972

GEOGRAPHIC NAMES  
FINAL NAME SHEETS  
Ph-6708 (Puerto Rico)

TP-13125

Central Boca Chica

Isla del Frio

Manzanillo

Mar Caribe

Rio Inabon

Rio Jacaguas

Approved:

A. J. Wraight  
A. Joseph Wraight  
Chief Geographer

Prepared by:

Charles E. Harrington  
Charles E. Harrington  
Cartographer

T-13125

49-NOTES TO THE HYDROGRAPHER

None

FORM C&GS-1002  
(9-66)U.S. DEPARTMENT OF COMMERCE  
ESSA  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 13125

1. PROJECTION AND GRIDS LFB	2. TITLE LFB	3. MANUSCRIPT NUMBERS LFB	4. MANUSCRIPT SIZE LFB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LFB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS LFB	9. PLOTTING OF SEXTANT FIXES RJP	10. PHOTOGRAMMETRIC PLOT REPORT LFB	11. DETAIL POINTS LFB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LFB	13. LOW-WATER LINE LFB	14. ROCKS, SHOALS, ETC. LFB	15. BRIDGES LFB
16. AIDS TO NAVIGATION LFB	17. LANDMARKS LFB	18. OTHER ALONGSHORE PHYSICAL FEATURES LFB	19. OTHER ALONGSHORE CULTURAL FEATURES LFB
PHYSICAL FEATURES			
20. WATER FEATURES LFB	21. NATURAL GROUND COVER XX		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES XX
CULTURAL FEATURES			
27. ROADS LFB	28. BUILDINGS LFB	29. RAILROADS LFB	30. OTHER CULTURAL FEATURES LFB
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LFB	34. JUNCTIONS T-13124 - 12/2/70 EFB		35. LEGIBILITY OF THE MANUSCRIPT LFB
36. DISCREPANCY OVERLAY LFB	37. DESCRIPTIVE REPORT LFB	38. FIELD INSPECTION PHOTOGRAPHS RJP	39. FORMS RJP
40. REVIEWER Leo F. Beugnet		SUPERVISOR, REVIEW SECTION OR UNIT A. C. Rauck, Jr. <i>Albert C. Rauck, Jr.</i>	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER L. L. Graves Reviewed By: R. J. Pate		Sept. 2/71 9/3/71 SUPERVISOR A. C. Rauck, Jr. <i>Albert C. Rauck, Jr.</i>	
43. REMARKS Field Edit Applied From: Photographs 66-L-(c)-8353 & 66-L-(c)-8448 Field Edit Ozalid T-13125			

FIELD EDIT REPORT  
T-13125  
Job PH-6708  
Southwest Coast of Puerto Rico

52. ADEQUACY OF COMPILATION.

Compilation was adequate. Shoreline has been revised in several areas due to changes since photography. An area inland of the HWL is being dredged for soil, creating many ponds which are continuously being changed. The HWL has not been affected by this operation.

Several roads were added and a palm grove was delineated on Photo 66L8353 for compiling.

54. RECOMMENDATIONS.

None

56. GEOGRAPHIC NAMES.

All but one of the names on this map manuscript are in common local usage at this time. The disputed name and explanation for its change is given below.

Disputed Name  
and Reference

Cayos Frios T-13125	This name on the map manuscript refers to an island on the western edge of the map. The local mariners and fishermen interviewed say that this island, along with many others
------------------------	---



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along this coast, were possibly once referred to as Keys or "Cayo", maybe before the mangrove became stable and they were just sand covered reefs. Most of these mangrove covered reefs are now referred to as islands, and thus the common local name for this island is Isla del Frio. The correct spelling of this island is Frio, not Frios, as is on the manuscript.

Local Authorities Consulted Were:

- I. Luis A. Armstrong is a local businessman 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 42 years.
- IV. Dr. Raul Pov is the Director of the Ponce Yacht and Fishing Club and a local resident for 45 years.
- V. Rafail D. Mercado M.D., is the Rear Commadore of the Ponce Yacht and Fishing Club and a local resident for 42 years.
- VI. Capt. Juan P. Barcia is a local businessman 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 Suárez 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.

One stack is located on the map manuscript, and is recommended for charting on charts 902 and 927. A large distinctive palm grove delineated on the field edit ozalid is recommended for inclusion chart 927.

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

Corrections were made to the reef delineations surrounding Isla del Frio as indexed on the field edit ozalid. Four fixes were also taken on or by detached coral heads around the island, and are included on the field edit ozalid.

The object compiled in the area of 66°30'53" - 17°59'10" no longer exists. The area was observed from both the shore and by skiff and was not found.

The shallow limit around the mouth of Rio Jacaguas has been deleted as the hydrographer has sounded the area.

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-13125

<u>Signal No.</u>	<u>N-Latitude</u> <u>Deg-Min-Meters</u>	<u>W-Longitude</u> <u>Deg-Min-Meters</u>	<u>Located By</u> <u>(Method)</u>
550	17-58 0200.0	66-34 0440.6	Traverse
560	17-58 0287.8	66-33 1658.1	Traverse
571	17-58 0509.7	66-33 0871.5	Sextant
580	17-57 1696.3	66-33 0308.0	Traverse
590	17-58 0877.4	66-33 0418.4	Traverse
600	17-58 1104.2	66-32 1365.7	Traverse
610	17-58 1018.7	66-32 0646.5	3-point fix (T2)
620	17-58 1207.2	66-32 0240.6	Photo
630	17-58 1383.1	66-31 1643.5	Photo
640	17-58 1509.0	66-31 1351.9	Photo
650	17-59 0006.9	66-31 0650.0	Photo
660	17-59 0247.7	66-31 0000.3	Photo
670	17-59 0558.8	66-30 0892.4	Photo
700	17-59 1632.0	66-32 0743.3	T-13125



## REVIEW REPORT

## SHORELINE

T-13125

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 survey No. 2416, 1:20,000 scale, dated 1899. So many man made and natural changes have taken place since that survey that there was too great a difference to make any discrepancy notes that would have been of any significance.

Registered survey No. 2416 is superseded by T-13125 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 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.

Comparison

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with boat sheets H-9186 and H-9190. Both are 1:10,000 scale and dated 1970. There were a few small differences, but none of significant value.

65. COMPARISON WITH NAUTICAL CHARTS

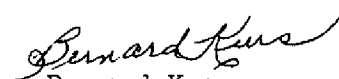
A comparison was made with charts 926 and 927 dated Feb. 5, 1972 and July 3, 1971 respectively. Both are 1:20,000 scale. There have been many natural changes over a period of years. The differences are noted in red on the ~~discrepancy~~ print.

Comparison

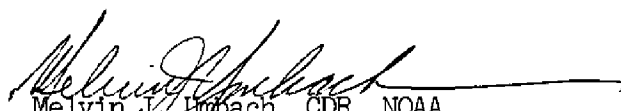
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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


Reviewed by:

  
Bernard Kurs  
Cartographer

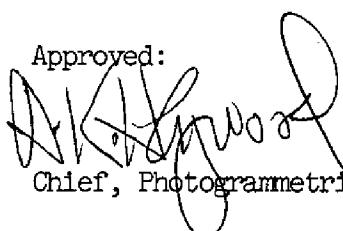
Approved for forwarding:


  
Melvin J. Umbach, 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



1:50,000 FT.

17°58'30"

54°33'45"

Note: Continuous changes of man made ponds in this area are in progress.

Road (Priv)

33°30'

Note: Mouth of river is generally closed by a sand bar except during and after periods of extended rain.

QUAD

CHARTS  
926  
929

Road (Priv)

33'

58'



No  
mod  
chang  
The  
closed  
and after

T-13



The mean high waterline at the mouth of river is subject to frequent periods extended rain.

Manzanillo

Central Boca Chica

Palm grove

Trail

66°32'

59'

31'30"

17°58'30"



66° 30' 30"

CHART  
926  
927

QUAD

30'

17°  
59'

1:55,000 FT.

59' 30"

T-13125

