

ORIGINAL

13138

13138

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Shoreline (Photogrammetric)</u>	
Field No. _____	Office No. <u>T-13138</u>
LOCALITY	
State <u>Puerto Rico</u>	
General locality <u>Southwest Coast</u>	
Locality <u>Cayo Maria Langa</u>	
<u>1966-1970</u>	
CHIEF OF PARTY	
<u>Alfred C. Holmes, Director, AMC</u>	
LIBRARY & ARCHIVES	
DATE _____	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T -13138

PROJECT NO. (II):

PH-6708

FIELD OFFICE (II):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes, Director

INSTRUCTIONS DATED (II) (III):

OFFICE - Nov. 14, 1967
OFFICE - SUPPLEMENT 1 - Nov. 4, 1968
OFFICE - AMENDMENT 1 - Dec. 9, 1968

METHOD OF COMPILATION (III):

Wild B-8 Plotter

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:2500 Pantographed To 1:5,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

JUN 1975

GEOGRAPHIC DATUM (III):

Puerto Rico

VERTICAL DATUM (III):

MEAN ~~LOW~~ ^{HIGH WATER} EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water ~~datum~~

REFERENCE STATION (III):

Bahia De Tallaboa Loading Platform 1966

LAT.:

17° 58' 57" 459 (1766.4)M

LONG.:

66° 44' 31" 612 (930.1)M

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

Puerto Rico

1

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-13138

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - Date of Photography - Nov. 15, 16, 1966		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE Oct. 14, 1968
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Van Scoy		DATE Oct. 18, 1968
CONTROL PLOTTED BY (III): Aerotriangulation Points: - J. Steinberg Triangulation Stations: - C. E. Blood		DATE Nov. 8, 1968 Dec. 11, 1968
CONTROL CHECKED BY (III): Aerotriangulation Points: - B. Nicholson Triangulation Stations: - B. Wilson		DATE Nov. 8, 1968 Dec. 11, 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I. I. Saperstein		DATE Oct. 31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY By: R. R. White Reviewed By: A. Shands	DATE 2/12/69 2/69
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. R. White and A. L. Shands		DATE 2/12/69
SCRIBING BY (III): C. Woodson		DATE Aug. 22, 1971
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: C.H. Bishop Field Edit: C.H. Bishop & R.J. Pate Scribing and Stick Up: B. L. Barge		DATE 2/13/69 4/17/69 - Mar. 1971 Sept. 23, 1971
REMARKS: Field Edit By: - Richard E. Kesselring DATE: 1969 (Feb)		

FORM C&GS-181c
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

T-13138

CAMERA (KIND OR SOURCE) (III):
U.S.C.&G.S. Types "L"&"M" Wild RC-8 & RC-9

PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66-L-8400&8401	Nov. 15, 1966	10:37	1:15,000	0.9 Ft. above MLW
70-E-6068	Mar. 5, 1970	09:38	1:15,000	0.45 Ft. " "

PREDICTED TIDE (III)		DIURNAL		
		RATIO OF RANGES	MEAN RANGE	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, AMC	DATE:	Jan. 1973		
PROOF EDIT BY (IV):		DATE:			
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	1	RECOVERED:	1	IDENTIFIED:	None
NUMBER OF BM(S) SEARCHED FOR (II):	None	RECOVERED:	None	IDENTIFIED	None
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		None			
REMARKS:					

T-13138

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore Area For Hydro.		Superseded
Field Edit Applied. Changes Made From Photography of May 1969 and March 1970. Point Guayanilla.	March 1971	Superseded
Final Review	Jan. 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
9
9
9
9
9
9
9
9
9
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
117

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

67° 00'

66° 30'

5

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13138

Shoreline survey T-13138 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 the southern part of Punta Guayanilla and continues eastward to the western end of Cayo Caribe.

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

Compilation was by B-8 plotter using November, 1966 photography. Two photos March 1970 were used graphically to augment field inspection. The compilation was at 1:5,000 scale. (see item 31 of the compilation report). A copy of the incomplete manuscript along with 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 vinylite sheet two minutes in longitude by two minutes in latitude. Final review was at AMC in January 1973. A negative and positive of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT

PH-6708

T-13138

There was no field inspection prior to compilation.

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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

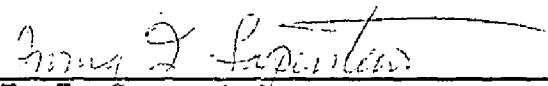
The definition and quality of the RC-9 "M" and RC-8 "L" color photography was fair and good respectively. Smoke covers parts of some photographs on Strips 3 and 5A, but should not hinder compilation of the shoreline.

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

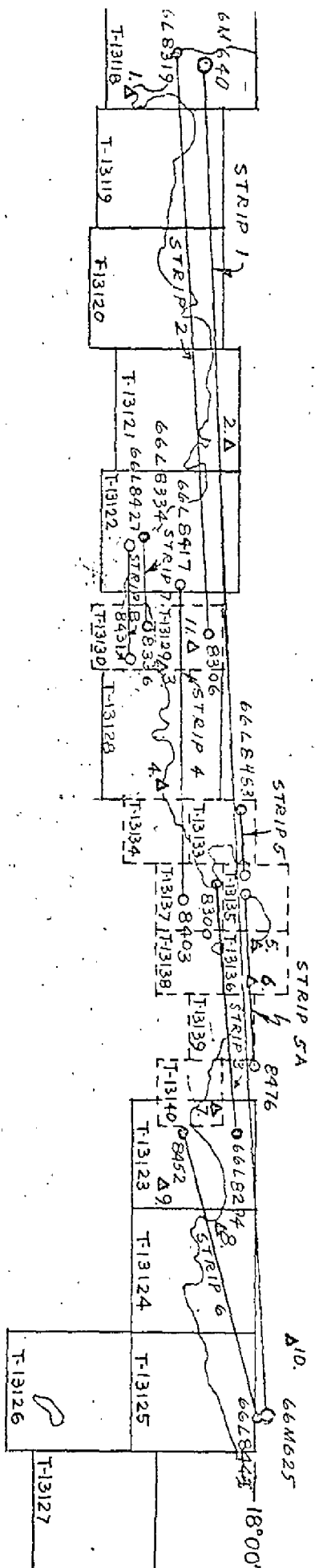

I. I. Saperstein

Approved and Forwarded


Henry P. Eichert, Chief
Aerotriangulation Section

67°00'

66°30'



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

AEROTRIANGULATION

PUERTO RICO
Southwest Coast

PH-6708
Oct. 1967

LEGEND

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

COMPILATION REPORT

PH-6708

T-13138

31. DELINEATION

Refer to Photogrammetric Plot Report - Job PH-6708, Puerto Rico, dated Oct. 31, 1967. Specifically Item 25 - Photography, paragraph 2.

In order to use Strip 3 to compile T-13137 thru T-13140, it was necessary to plot controls and compile on worksheets at 1:6,000 scale and photographically enlarge to 1:5,000 scale (see Amendment I. to office instructions, dated Dec. 9, 1968).

The enlargement ratio required to compile at 1:5,000 scale from 1:30,000 scale bridge strip 3 with the B-8 plotter was not possible. It was, therefore considered more expedient to compile T-13135 thru T-13140 at 1:6,000 scale, drop shoreline pass points common to both the 1:15,000 photos and the 1:30,000 models, and then enlarge photographically to 1:5,000 scale, at a ratio of $1 = 1.2$.

This enlargement was then transferred to the 1:5,000 manuscripts and the 1:5,000 scale ratio prints processed for hydro. support data.

The use of the 1:30,000 scale models from strip 3, enabled the compiler to adequately cover all inshore areas and much of the off-shore areas of shoal, coral reefs, small islands and etc., which would not have been possible with the 1:15,000 offshore photos which were not bridged.

The alongshore and shoreline features of the mainland were further refined with the models set utilizing the 1:15,000 scale inshore plates: - 66L(c) 8475 thru 8484.

32. CONTROL

See Photogrammetric Plot Report dated October 31, 1967.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line, and coral areas were delineated from office interpretation of the photographs. No mean low water line was shown.

36. OFFSHORE DETAILS

All shoal and submerged coral areas were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS

Appropriate copies of Forms 567 for Aids, have been submitted to the Washington Office under date April 17, 1969. There are no Landmarks.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-13136 to the North T-13137 to the West and T-13139 to the East. There is no contemporary survey to the South.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangles PUNTA VERRACO, PR and PUNTA CUCHARA, PA both scale 1:20,000 dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS

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:



A. L. Shands
Cartographic Technician

Approved:



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

December 11, 1972

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

TP-13138

Arrecife Fanduca
Bahia de Tallaboa
Cayo Caribe
Cayo Maria Langa
Cayo Palomas
Cayo Rio
Mar Caribe
Punta Gotay
Punta Guayanilla

Approved:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Charles E. Harrington
Charles E. Harrington
Cartographer

T-13138

49. NOTES FOR THE HYDROGRAPHER:

None

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T. 13138			
1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX	7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS CHB	9. PLOTTING OF SEXTANT FIXES CHB	10. PHOTOGRAMMETRIC PLOT REPORT Bridge-W.O.	11. DETAIL POINTS Wild B-8
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES XX
16. AIDS TO NAVIGATION CHB	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES CHB	21. NATURAL GROUND COVER CHB	22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES CHB
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS None	39. FORMS CHB
40. REVIEWER Charles H. Bishop 2/13/69		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
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 R.E. Smith 4/16/69 Reviewed By: C.H. Bishop 4/17/69		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Field Edit Ozalid; Color Contact Photos. Nos: 66-L-8398, 8400, 8401, 8479; Matte Ratio No. 8401, Matte Ratio 1:10,000 Scale 66-L-8298 & Construction Plans (Bechtel Corp.) Additional Corrections From Ratio Photos - 70-E-6067 & 6068 Punta Guayanilla			

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH-6708
MAP T-13138

52. ADEQUACY OF COMPILATION

Compilation was adequate. The shoreline on Cayo Palomas needs revision and some mangrove offshore from this island was not delineated. Changes, except where obvious, were indicated on the field edit ozalid and cross referenced to the appropriate photograph. Punta Gotay and Punta Guayanilla are under construction and considerable changes are being made in the interior. Shoreline changes are expected to be minor. Construction drawings of the proposed hydraulic fill were enclosed with the field edit sheets. Minor shoreline changes were made on the other islands on the map.

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 Bahía de Guayanilla.

56. GEOGRAPHIC NAMES

The names on this map are correct and in general use. One new name is recommended: LA PUNTILLA at 17° 58.8; 66° 45.5. This means "small point" and is probably a generic term. However, all the authorities consulted agreed that this is the everyday name for this point.

Authorities consulted are listed below.

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

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

- II. Sr. Gilberto Castro Pérez
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 constructor 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.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks within the limits of this map. Four fixed aids to navigation were recommended for charting. These are the four lights on an offshore loading platform. They were reported on form 567 and form 152 and forwarded with the field edit data.

58. ROCKS, REEFS, SHOALS AND FOUL AREAS

No rocks were delineated as such on this map. A few typical coral rocks, where readily discernible, were located by the field editor on the photographs. These rocks form part of the coral reefs on the sheet and, as such, are unimportant. Compilation of reefs was, for the most part, correct. The limits on the reef surrounding Cayo Maria Langa were revised somewhat and several areas of submerged coral were indicated. This reef is probably awash at mean low water. Times of observation and the state of the water over the reef were given on the field edit ozalid. The larger areas of bare coral were outlined on the color contacts and cross referenced on the field edit ozalid.

The area between Cayo Maria Langa and Cayo Palomas

is full of small coral formations. These may be sandy shoals on which coral has formed, but at any rate, they are primarily coral now. All were classified as to whether they were coral or shoals. Depths and time of observation were given for a good many of them. The reef southward of Cayo Palomas was revised and some more coral outlined on the photographs. The reef on Cayo Caribe was outlined, also, and areas of bare coral indicated. The shallow limit line was revised. All the major reefs on this map are probably awash at one stage or another of the tide and should probably be symbolized on the chart. This does not include the small coral formations between Cayo Maria Langa and Cayo Palomas where there is considerable variation in the amount of water covering them.

One compiled shoal at $17^{\circ} 58.9'$; $66^{\circ} 44.7'$ was investigated and found to be foul with sunken rocks, but the depth was too great for the field editor to measure.

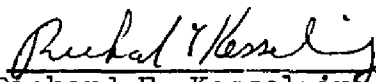
The area in the "shallow" limit around the southern point of Punta Guayanilla and around Punta Gotay were also found to be foul with sunken rocks. Areas offshore from the reefs were classified foul where applicable.

59. PHOTOGRAPHY

Photography consisted of 1:5000 black and white copies of color photographs and 1:15,000 and 1:30,000 color contacts. The color contacts were found to be best for working on the reefs and in the water areas. The black and white ratio photos were used where more room was needed for delineating shoreline changes and etc.

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-13138

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. It is in general agreement with manuscript T-13138.

Registered survey No. 2468 is superseded by survey T-13138 which is to be used for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Punta Verraco, PR and Punta Cuchara, PR. Both are 1:20,000 scale and are dated 1958. Both quadrangles are in general agreement with T-13138.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with H-9110 M1-5-1-70 at 1:5,000 scale. The shoreline and offshore features are taken from the incomplete manuscript. Any minor differences that occurred ~~are~~^{were} taken care of by the field editor.


65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart No. 928 dated March 4, 1972, at 1:10,000 scale. There were no significant differences.

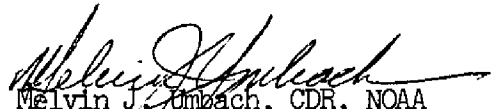
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:


Bernard Kurs
Cartographer



Approved for forwarding:


Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division
Atlantic Marine Center

Approved:


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

Approved:

 
Chief, Photogrammetric Branch, Chief, Coastal Mapping Division

NONFLOATING AIDS OR DANDY MARKS FOR CHARTS

TO BE CHARTED
XXXXX 25/05/85X
XXXXX 05/06/85X

STRIKE OUT TWO

Atlantic Marine Center

April 15, 1969

I recommend that the following objects which have ~~been~~^{been} inspected from seaward to determine their value as landmarks be charted on ~~the~~^{the} charts indicated.

The positions given have been checked after listing by

R. E. Smith, Jr.

Allen L. Powell, Director, A. M. C.
Chief of Party.

[illegible]

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 landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the change of the area and not be individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 18234-P61

✓ W.C.R.