

13127

13127

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-13127

LOCALITY

State Puerto Rico

General locality Southwest Coast

Locality Cayo Berberia

1966-1972

CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-13127

OBJECT NO. (II):

PH-6708

FIELD OFFICE (III):

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

METHOD OF COMPILATION (III):

Wild B-8 Potter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:5,000 Pantographed To 1:10,000

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 or mean lower low water

REFERENCE STATION (III):

LAT.:

LONG.:

☐ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

MAN 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-13127

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - Date of Photography 1966		
PROJECTION AND GRIDS RULED BY (IV): Coradomat		DATE Sept. 22, 1970
PROJECTION AND GRIDS CHECKED BY (IV): Coradomat		DATE Sept. 22, 1970
CONTROL PLOTTED BY (III): Aerotriangulation Points: - Coradomat Triangulation Stations: -		DATE Sept. 22, 1970
CONTROL CHECKED BY (III): Aerotriangulation Points: - Coradomat Triangulation Stations: -		DATE Sept. 22, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I. I. Saperstein		DATE Oct. 31, 1967 Sept. 11, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III): Graphic Method	PLANIMETRY By: R. White	DATE Dec. 2, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. White		DATE Dec. 3, 1970
SCRIBING BY (III): C. Parker		DATE 8/7/72
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L. F. Beugnet		DATE Dec. 3, 1970
REMARKS: Field Edit By: E. Pursel		DATE May 17, 1972

DESCRIPTIVE REPORT - DATA RECORD

T-13127

MERA (KIND OR SOURCE) (III):

Wild RC-8 "L"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66L(c)8357 and 8358	Nov. 15, 1966	10:19	1:15,000	.8 above MLW
66L(I)8651 and 8652	Nov. 16, 1966	10:40	1:15,000	.8 above MLW

PREDICTED TIDE (III)

DIURNAL

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

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC

DATE:
March, 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): None

RECOVERED:
NoneIDENTIFIED:
None

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

T-13127

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	E. Pursel, Jr.	17 May 72
2. HORIZONTAL CONTROL	RECOVERED BY " "	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY E. Pursel, Jr.	17 May 72
	LOCATED (Field Methods) BY N.A.	
	IDENTIFIED BY N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	None
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

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

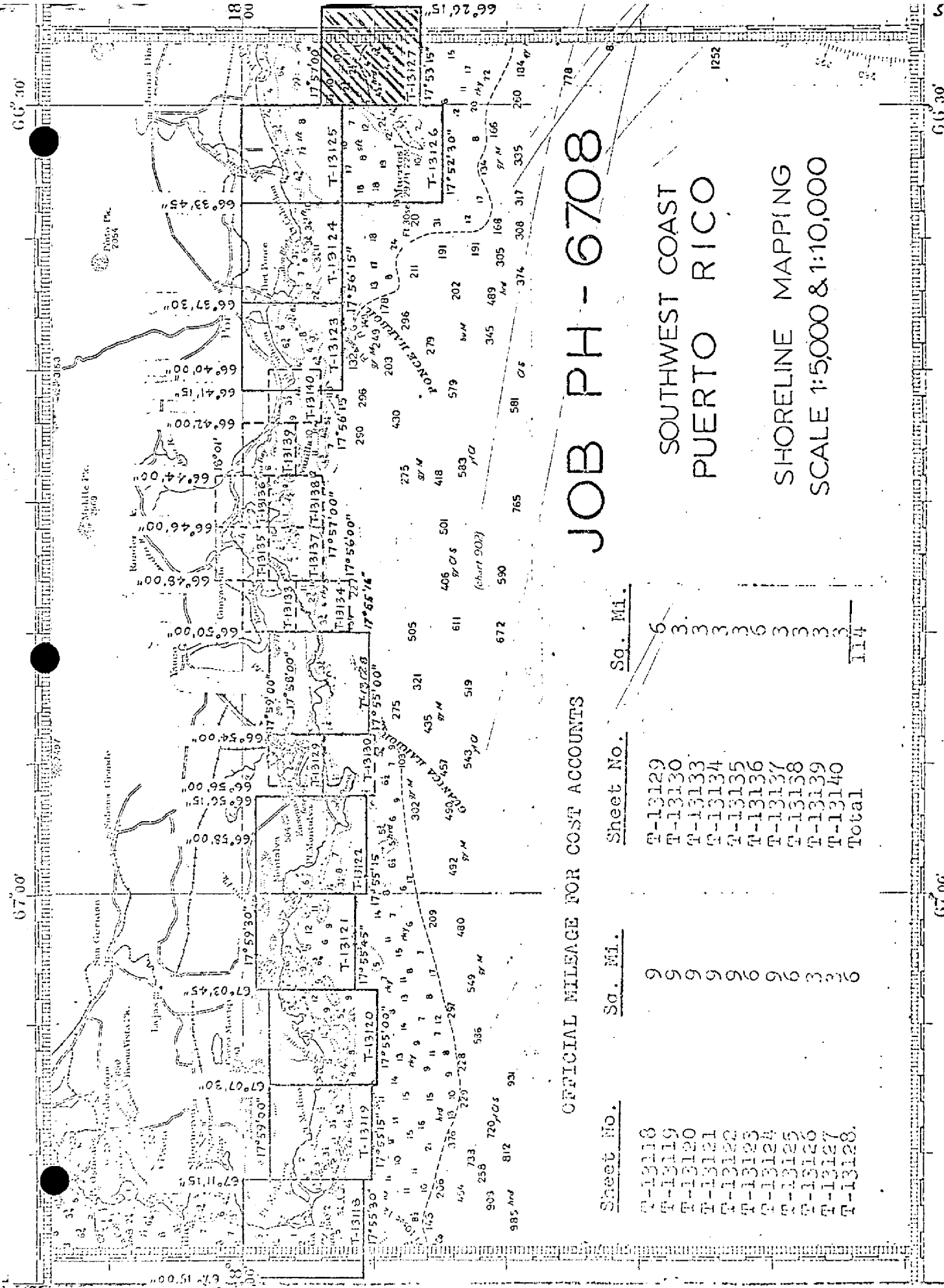
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

Field Edit Report
Forms 76-40

T-13127

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area For Hydro. Complete Pending Field Edit	Dec. 1970	Superseded
Field Edit Applied	July 1972	Superseded
Final Review	March 1973	



JOB PH - 6708

SOUTHWEST COAST
 PUERTO RICO
 SHORELINE MAPPING
 SCALE 1:5000 & 1:10,000

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sa. Mi.	Sheet No.	Sa. Mi.
T-13118	9	T-13129	6
T-13119	9	T-13130	3
T-13120	9	T-13133	3
T-13121	9	T-13134	3
T-13122	9	T-13135	3
T-13123	9	T-13136	3
T-13124	9	T-13137	3
T-13125	9	T-13138	3
T-13126	9	T-13139	3
T-13127	9	T-13140	3
T-13128	9	Total	114

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13127

Shoreline survey T-13127 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. This survey covers Cayo Berberia.

There was no field inspection 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 sheets, location of the photo-hydro signals and field edit use.

This manuscript was a stabilene sheet, three minutes, forty-five seconds in latitude and three minutes, forty-five seconds 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 March, 1973. One ~~sec~~ronaflex and negative of the final reviewed survey are being forwarded for record and registry.

FIELD INSPECTION REPORT

PH-6708

T-13127

There was no field inspection prior to compilation.

Supplemental Photogrammetric Plot Report
Job PH-6708
Puerto Rico

September 11, 1970

This supplemental report covers the two (2) remaining 1:10,000 scale T-sheets T-13126 and T-13127 not bridged in 1967 because of lack of control on the outlying islands of Isla Caja de Muertos and Cayo Berberia. (See Photogrammetric Plot Report Job PH-6708, dated October 31, 1967.)

Two (2) control stations were established on Cayo Berberia and sub points identified, on the 66-L(C)-photography. This island can be compiled graphically by transferring the sub points to the ratio prints and holding to the plotted positions on the manuscript.


Photographs 66-L(C)-8363 through 8366, 1:15,000 scale, on Isla Caja de Muertos were bridged and can be set on the B-8. This is a 3 point bridge making it a unique fit with no check, except for the companion points at each station. Due to poor selection of sub points it was very difficult to identify these points on the photographs during bridging. Closures to control on companion points were larger than expected but still within accuracy limits. (Maximum error about 8 feet.)

Ratio prints have been ordered for all photographs. Projections and grids have been drawn, and pass points and control plotted on the sheets by the Coradi.

Respectfully submitted,

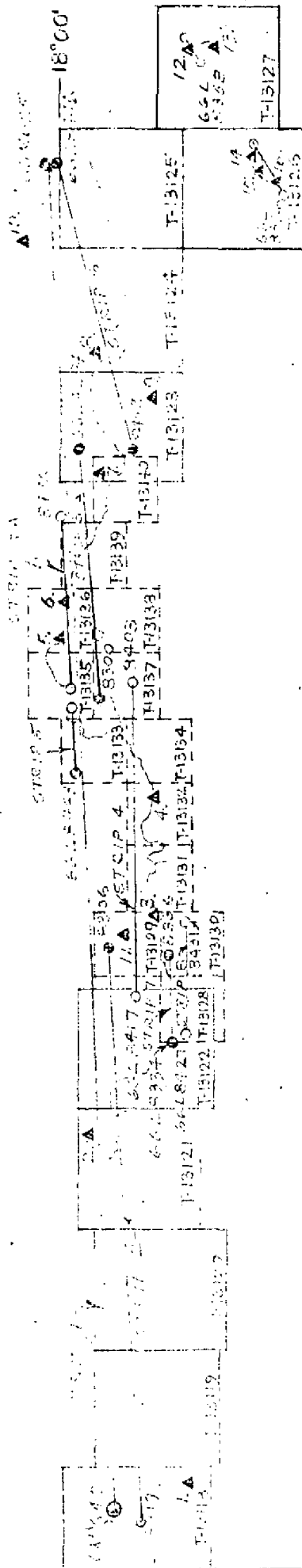

I. I. Saperstein

Approved and forwarded,


Henry P. Eichert
Chief, Aerotriangulation
Section

67°00'

66°30'



Supplemental
Bridge
Sept. 1970

AEROTRIANGLE REGION

PUERTO RICO
Southwestern Area

PHOTO 1966
1:15,000

LEGEND

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

1. CAGUAS AIRPORT, 1966
2. CAGUAS AIRPORT, 1966
3. CAGUAS AIRPORT, 1966
4. CAGUAS AIRPORT, 1966
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98. CAGUAS AIRPORT, 1966
99. CAGUAS AIRPORT, 1966
100. CAGUAS AIRPORT, 1966

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-13127

PROJECT NO. PH-6708

SCALE OF MAP 1:10,000

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	(BACK)
Kay, 1970		Puerto Rico	36,805.17 ft. 491,011.20 ft.	1,805.17 ft. (3,194.83 ft.) 1,011.20 ft. (3,988.80 ft.)	
Claire, 1970		Puerto Rico	33,556.18 ft. 493,011.30 ft.	3,556.18 ft. (1,44382 ft.) 3,011.30 ft. (1,988.70 ft.)	
<p>Note: The positions of Kay, 1970 and Claire, 1970, were determined by three point fix for Photogrammetric Mapping purposes only, and are marked by topographic station disks.</p>					
COMPUTED BY R. R. White	DATE Dec. 3, 1970	CHECKED BY		DATE	

COMPILATION REPORT

T-13127

31. DELINEATION

Compilation was by graphic methods using the two substitute stations for each of the two topographic stations KAY 1970 and CLAIRE 1970, which were located by 3 point fix from triangulation intersection stations. Additional photo hydro points were cut in to control the photographs.

32. CONTROL

See Supplemental Photogrammetric Plot Report dated Sept. 11, 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. There was no drainage to compile.

35. SHORELINE AND ALONGSHORE DETAILS

All detail was compiled from office interpretation of the photographs. Because of the small variation between high and low tide, no low water line was compiled.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

12

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Although this sheet is joined to the West by T-13125 and T-13126 of project PH-6708 and to the North by T-13373 of project PH-6904, all junctions are entirely within water areas with no detail to make a match. There is no contemporary survey to the East or South.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangle SANTA ISABEL, PR, scale 1:20,000 dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 926 PUNTA PETRONA to ISLA CAJA de MUERTOS, scale 1:20,000 2nd Edition dated May 3, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Bernard Luns for
Richard R. White
Cartographic Technician
Dec. 3, 1970

Approved:

Alfred C. Holmes
Alfred C. Holmes
RADM, NOAA
Director, AMC

ADDENDUM TO FIELD EDIT REPORT

Field edit was adequate. The field editor recommended only one change and there was enough data supplied to make that change. The recovery card for station SOUTH, 1926 could not be found. There is no position for station SOUTH, 1926 with the group of adjusted positions sent from Rockville. Station SOUTH, 1941 falls far to the east and north of this sheet.

December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13127

Cayo Berberia

Mar Caribe

Approved:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Charles E. Harrington

Charles E. Harrington
Cartographer

T-13127

49- NOTES FOR THE HYDROGRAPHER

Two recoverable topographic stations fall within the limits of this manuscript. They are: KAY, 1970 and CLAIRE, 1970.

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T. 13127			
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 XX	9. PLOTTING OF SEXTANT FIXES XX	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 XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX		
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LFB	34. JUNCTIONS LFB	35. LEGIBILITY OF THE MANUSCRIPT LFB	
36. DISCREPANCY OVERLAY LFB	37. DESCRIPTIVE REPORT LFB	38. FIELD INSPECTION PHOTOGRAPHS RRW	39. FORMS LFB
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 A.L. Shands July 21, 1972		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.	
Reviewed By: R.R. White July 25, 1972			
43. REMARKS Field Edit Applied From: Field Edit Ozalid			

FIELD EDIT REPORT
Job PH-6708
SOUTH COAST PUERTO RICO
T-13127

52. ADEQUACY OF COMPILATION

Compilation is confirmed as being adequate.

54. RECOMMENDATIONS

None.

56. LANDMARKS AND AIDS TO NAVIGATION

No landmarks or aids to navigation fall within the limits of this sheet.

57. ADDITIONAL INFORMATION

Limits of the coral reef on this sheet are correctly delineated by the hydrographer on Boat Sheet MI-10-2-72. In addition to the two topographic stations CLAIRE 1970 and KAY 1970, triangulation station SOUTH 1926 was also recovered. Recovery notes accompany data with this sheet.

Respectfully submitted,

Bernard Kuro
E. Pursel, Jr.
Cartographic Technician
National Ocean Survey

REVIEW REPORT

SHORELINE

T-13127

61. GENERAL STATEMENT

See summary which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED SURVEYS

A comparison with registered survey No. 2416, 1899 at 1:20,000, was made. There are natural changes which have occurred over the interval of years. These changes are shown on the ~~discrepancy~~ print in blue.
Comparison

Registered survey No. 2416 is superseded by T-13127 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS Quadrangle Santa Isabel, PR 1960 at 1:20,000 scale. Natural changes account for all differences noted on the ~~discrepancy~~ print in brown.
Comparison

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with H-9265 dated 1972 at 1:10,000 scale. Any differences were small and negligible except for one small area of coral heads awash. This is noted on the ~~discrepancy~~ print in purple.
Comparison


65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 926 dated Feb. 5, 1972, at 1:20,000 scale. The differences are natural ones and are noted on the ~~discrepancy~~ print in red.
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

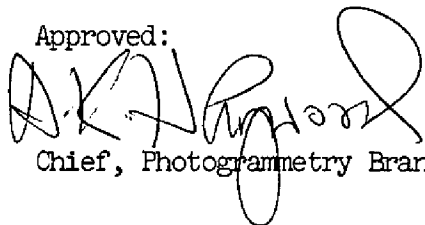
Approved for forwarding:



Melvin J. Uebach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:


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

Approved:


Chief, Photogrammetry Branch


Chief, Coastal Mapping Division

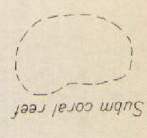
55'

66° 27' 30"

T-13127

27'

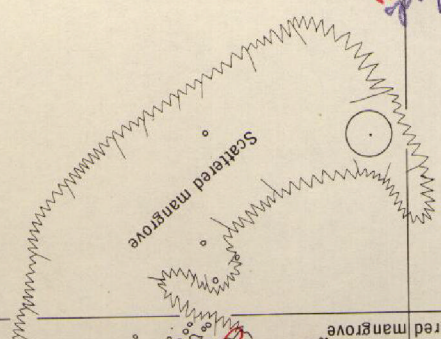
Boat Sheet
H-9265
Coral head
C



Subm coral reef

17° 55' 30"

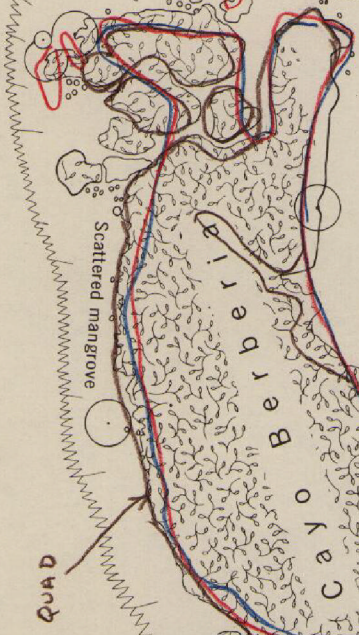
CLAIRE 1970



Scattered mangrove

Scattered mangrove

Scattered mangrove



Scattered mangrove

Reg. Survey
2416

CHART
926

Scattered mangrove

66-L(C)-8358

56'

KAY 1970

Scattered mangrove

QUAD

66-L(C)-8357

