

13128

13128

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-13128

LOCALITY

State Puerto RicoGeneral locality Southwest CoastLocality Bahia De Ballena1966-1970

CHIEF OF PARTY

Alfred C. Holmes, Director, -AMC

LIBRARY & ARCHIVES

DATE _____

DESCRIPTIVE REPORT - DATA RECORD

T-13128

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 Plotter

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):

Vaquero, 1900

LAT.:

17°57'08.50350" 262.4M

LONG.:

66°50'20.32602" 598.1M

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 43,376.07 Ft.

x = 359,051.04 Ft.

STATE

Puerto Rico

ZONE

1

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.

FORM C&GS-181b
(3-66)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13128

FIELD INSPECTION BY (III): 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): A. Bethea		DATE Jan. 22, 1968
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Van Scoy		DATE Jan 24, 1968
CONTROL PLOTTED BY (III): Aerotriangulation Points: - B. Nicholson Triangulation Stations: - C. E. Blood		DATE Nov. 13, 1968 Dec. 6, 1968
CONTROL CHECKED BY (III): Aerotriangulation Points: - J. Steinberg Triangulation Stations: - B. Wilson		DATE Nov. 13, 1968 Dec. 10, 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: A. L. Shands	DATE March 1969
	Reviewed By: C.H. Bishop	March 1969
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A. L. Shands		DATE March 1969
SCRIBING BY (III): C. Parker		DATE August 4, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: C.H. Bishop Field Edit: R.R. White Scribing and Stick Up: F. Margiotta		DATE April 1969 July 26, 1972 August 1972
REMARKS: Field Edit By: - Roger P. Hewitt		DATE: April 1970

DESCRIPTIVE REPORT - DATA RECORD

T-13128

MERA (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
66L8408 thru 8414	Nov. 16, 1966	10:39	1:15,000	0.8 Ft. above MLW
66L8433 thru 8438	Nov. 16, 1966	09:59	1:15,000	0.8 Ft. above MLW

PREDICTED TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	MEAN RANGE
REFERENCE STATION: Galveston, Texas			1.4
SUBORDINATE STATION: Quanica, P.R.	0.50		0.7
SUBORDINATE STATION:			

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

DATE:

Dec. 1972

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

1

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:

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

HISTORY OF FIELD OPERATIONS T 13128

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Joseph K. Wilson	
2. HORIZONTAL CONTROL	RECOVERED BY Roger P. Hewitt	May, 1970
	ESTABLISHED BY na	
	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	
	LOCATED (Field Methods) BY none	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE BY	
	<input checked="" type="checkbox"/> SPECIFIC NAMES ONLY	Roger P. Hewitt May, 1970
	<input type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	Roger P. Hewitt May, 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	na

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)

66 L 84

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

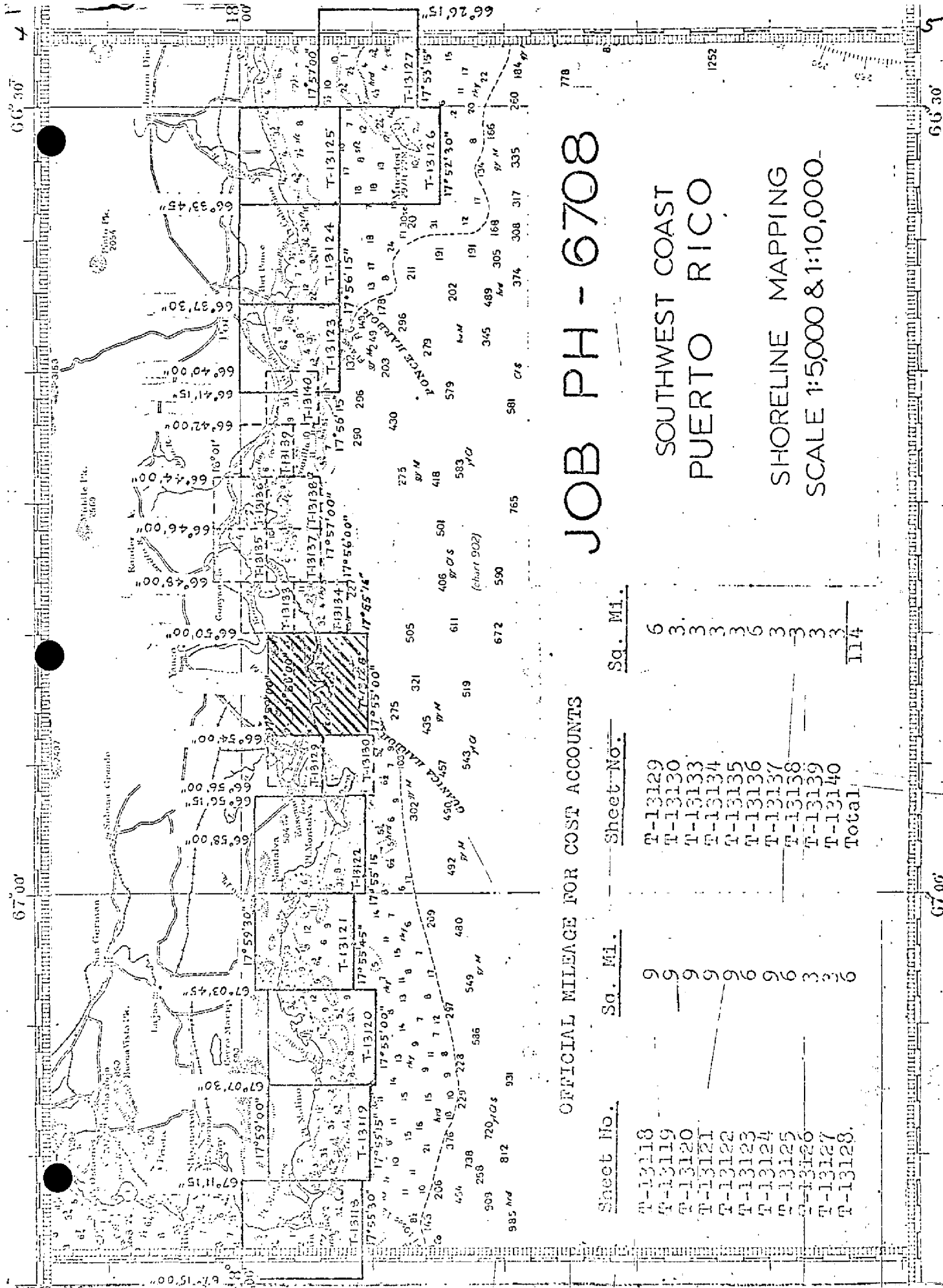
Field Ozalid

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

1 Field Edit Report
2 Form 526

T-13128

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area For Hydro.	March 1969	Superseded
Field Edit Applied, Compilation Complete	Sept. 1971	Superseded
Final Review	Dec. 1972	



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Mi.	Sheet No.	Sq. 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

JOB PH - 6708

SOUTHWEST COAST
PUERTO RICO

SHORELINE MAPPING
SCALE 1:50,000 & 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13128

Shoreline survey T-13128 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 Cabo Rojo to Cayo Berberia. This survey starts and just east of Punta Maseta and extends eastward to Punta Vaguero.

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 oazlids 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 vinylite sheet three minutes forty-five seconds latitude by four minutes longitude at 1:10,000 scale. After field edit was applied and checked the manuscript was scribed, reproduced on cronaflex and stuck-up. The final review was at AMC in December, 1972. One cronaflex and negative of the final reviewed survey are being forwarded for record and registry.

FIELD INSPECTION REPORT
PH-6708
T-13128

There was no field inspection prior to compilation.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6708
Puerto Rico

October 31, 1967

21. Area Covered

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

22. Method

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

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

23. Adequacy of Control

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

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

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

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

24. Supplemental Data

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

25. Photography

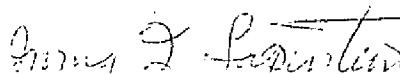
The definition and quality of the RC-9 "M" and RC-8 "L" color photography was fair and good respectively. Smoke covers parts of some photographs on Strips 3 and 5A, but should not hinder compilation of the shoreline.

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.

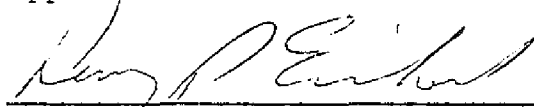
Ratio prints have been ordered for the 1:30,000 and 1:15,000 scale photographs to compilation scale, on black and white base.

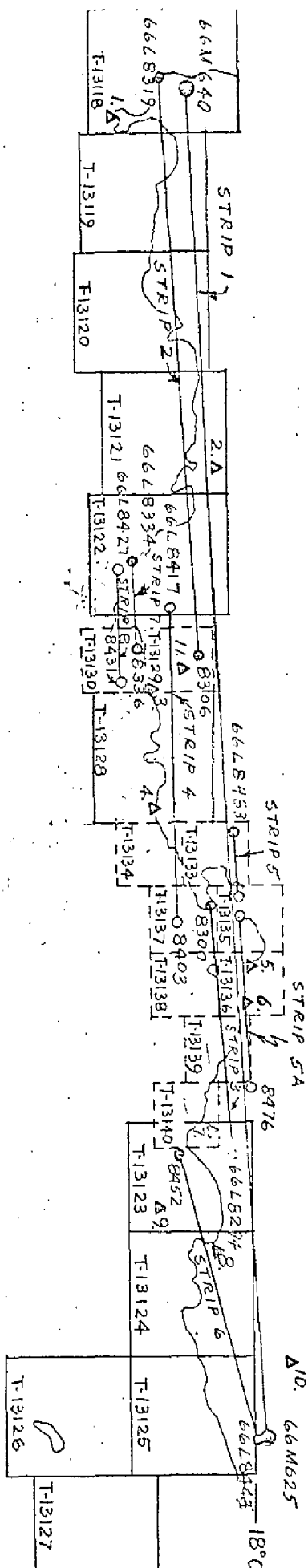
Several points were transferred to ratio print 66-L-8394 in order that a reef on T-13140 may be compiled graphically.

Respectfully submitted


I. I. Saperstein

Approved and Forwarded


Henry P. Eichert, Chief
Aerotriangulation Section



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

AEROTRIANGULATION

PUERTO RICO
Southwest Coast

PH-6708

Oct. 1967

LEGEND

- Control used in adjustment
- 1:60,000 Photos (color)
- 1:30,000 Photos (")
- 1:15,000 Photos (")

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-13128

PROJECT NO. PH-6708

SCALE OF MAP 1:10,000

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 (<i>1 Ft.</i> = <i>3048006 meter</i>) FORWARD (BACK)
Vaquero, 1900	Geodesy Pad 27062	Puerto Rico	17° 57' 08.50350"	261.4 (1583.2)
			66° 50' 20.32602"	598.1 (1167.5)
Vacinto, 1966	" 27063	"	17° 57' 02.07081"	63.7 (1780.9)
			66° 52' 41.42200"	1218.9 (546.7)
Criollo 2, (USGS), 1934	" 27071	"	17° 58' 50.93754"	1566.0 (278.6)
			66° 50' 52.93786"	1557.5 (207.8)
COMPUTED BY A.C. Rauck, Jr.	DATE Nov. 14, 1968	CHECKED BY C. Blood	DATE Nov. 21, 1968	=

COMPILATION REPORT

Map Manuscript T-13128

Project PH-6708

31. DELINEATION

The Manuscript was completed from both an inshore and an off-shore flight. Models for the inshore photography were set in the B-8 stereoplotter. Points were dropped in those models common to the offshore photographs. Using these points as control, the offshore photographs were then used to compile by graphic method all of the offshore detail and any of the inshore detail that was not covered by the inshore photographs.

Photograph coverage was adequate. There was no field inspection.

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 all alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

All offshore details were compiled from office interpretation of the photographs

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-13133 to the east (1:5,000) and both T-13129 and T-13130 to the west (1:5,000). There are no contemporary surveys to the north or south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. COMPARISON WITH PRIOR SURVEYS

Comparison was made with Register No. 2514, GUANICA HARBOR, scale 1:10,000, dated December 25, 1900 to April 12, 1901 and Register No. 2534, RATONES ISLAND to GUANICA HARBOR, scale 1:20,000, dated February 19 to April 4, 1901.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangles PUNTA VERRACO, PR, scale 1:20,000 dated 1958; and GUANICA, PR, scale 1:20,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

Comparisons have been made with Chart 902, SOUTH COAST OF PUERTO RICO - GUANICA LIGHT to PUNTA TUNA LIGHT, scale 1:100,000, 8th Edition, dated March 15, 1965; and Chart 929, BAHIA DE GUANICA, scale 1:10,000, 3rd Edition, dated Feb. 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:



A. L. Shands
Cartographic Technician

Approved:



Alfred C. Holmes, RADM, NOAA
Director, AMC

December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13128

Arrecife Coral	Los Isolotes
Bahia de Ballena	Mar Caribe
Bahia Los Pitirre	Paseje De Ballena
Cana Hondo	Playa de Gorda
Cayos de Cana Gorda	Playa de Tamarindo
Cayo Del Rabon	Punta Criollo
Corona La Laja	Punta Jacinto
La Horqueta	Punta Vaquero
La Lavandera	

Approved:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Charles E. Harrington
Charles E. Harrington
Cartographer

T-13128

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. 13128

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 X		9. PLOTTING OF SEXTANT FIXES X		10. PHOTOGRAMMETRIC PLOT REPORT W.O. Bridge		11. DETAIL POINTS CHB	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CHB		13. LOW-WATER LINE X		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES X	
16. AIDS TO NAVIGATION RRW		17. LANDMARKS RRW X		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
PHYSICAL FEATURES							
20. WATER FEATURES CHB				21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES X	
CULTURAL FEATURES							
27. ROADS CHB		28. BUILDINGS CHB		29. RAILROADS X		30. OTHER CULTURAL FEATURES X	
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				SUPERVISOR, REVIEW SECTION OR UNIT Albert 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.R. White				SEPT. 23/71 SUPERVISOR July 26/72 Albert C. Rauck, Jr. <i>Albert C. Rauck, Jr.</i>			
43. REMARKS Field Edit Applied From: Field Edit Ozalid T. 13128; Photographs 66-L-(c)-8407, 8408, 8409, 8410, 8411, 8412, 8413, 66-L-(c)-8433 and 66-L-(c)-8435							

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH-6708
MAP T-13128

Field edit was performed in accordance with Instructions-PHOTO-HYDRO SUPPORT AND FIELD EDIT - Job PH-6708, dated December 14, 1967 and Supplement I of these instructions dated 13 March 1970, and with Photogrammetry Instructions concerning Field Edit with the exception of a complete investigation of geographic names.

52. ADEQUACY OF COMPILATION

Compilation was adequate. Reefs and shoals were compiled accurately. The coral island, known as Cayo del Rabon, was seen in the photos but not delineated; it is composed of coral and shells and can be considered "shifting" although not to a great extent. Punta Criollo appears to have grown south some since the photos were flown; the new MHWL is shown on Photo 66L 8435.

54. RECOMMENDATIONS

See Field Edit Report T 13129 as to clarification of term "landmark value."

56. GEOGRAPHIC NAMES

The names on this map are in undisputed local usage with the addition of the following:

BAHIA LOS PITIRRE - refers to the small bay just east of Punta Jacinto.

PASEJE DE BALLENA - refers to the small passage between Punta Criollo and the first mangrove island of the group known as Cayos de Cana Gorda.

CANA HONDO - refers to the passage between first and second mangrove islands offshore known as Cayos de Cana Gorda.

CAYO DEL RABON - refers to the coral island southwest of Punta Jacinto.

LA LAVANDARA - refers to the submerged coral formation northeast of Cayo de Rabon.

LA HORQUETA - refers to the coral formation east of La Lavandara and west of the last mangrove island of the group known as Cayos de Cana Gorda.

LOS ISOLOTES - refers to the entire formation of coral and mangrove islands southwest of Punta Criolla.

These names are shown on the field ozalid.

Local authorities consulted were:

Dr. Luis R. Almodovar of La Parquerra, Lajas, Puerto Rico. Dr. Almodovar is a professor at the Institute of Marine Science of the University of Puerto Rico. He has been a resident for 12 years and is a well known local sport fisherman.

Sr. Juan J. Irizarry of La Parquerra, Lajas, Puerto Rico. Sr. Irizarry is a research assistant at the Institute of Marine Science and has been a resident of the area for 36 years.

Sr. Oscar Padilla of Guanica, Puerto Rico. Sr. Padilla is the senior harbor pilot for Bahias de Guayanilla and Guanica and has been a resident of Guanica for 65 years.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks or nonfloating aids to navigation on this map.

58. ROCKS, REEFS, SHOALS, AND FOUL AREAS

The only submerged coral limit that was clarified was on the seaward side of the coral formation attached to Cayo del Rabon. Three breaks are noted in the shoreline coral formation on the western edge of this T sheet; the submerged coral is deep enough to admit small boats into the bays.

Bernard Lewis for
Roger P. Hewitt
ENS/USESSA

PHOTO HYDRO SIGNALS

T 13128

- T 13128 01 Southeast tip of mangrove
- 02 Southeast tip of mangrove
- 03 Southern point of mangrove bush
- 04 Center of lone mangrove
- 05 Southwest corner of westerly of two bathhouses (Damas)
- 06 CORONA beer sign on green pavillion roof
- 07 Northwest corner of large grey masonry house
(on west side of Punta Jacinta)
- 08 Southeast corner of house on beach,
(on south side of Punta Jacinta)
- 09 Southeast corner of large red tile roofed house
(southeast side of Punta Jacinta)
- 10 Point of Mangrove
- 11 White rock
- 12 Junction of white rock with bush
- 13 Center of white rock (pass point)
- 14 Northwest corner of rock awash
- 15 Lone tree on beach
- 16 Point of brush
- 17 Southwest corner of brush
- 18 Seaward point of brush
- 19 Point of white rock into dark rock
- 20 Seaward point of triangle-shaped brush

REVIEW REPORT

SHORELINE

T-13128

61. GENERAL STATEMENT:

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

Comparison was made with copies of registered surveys No. 2474 Guanica Bay 1:10,000 and No. 2468 Cuchara Pt. to Criollo Pt. 1:20,000 both dated 1900. There is relative good agreement between these surveys and the contemporary one. The discrepancies are noted in blue on the comparison print. These discrepancies are mainly of natural changes. There is a difference in datum and any other changes may be accounted for by the date of the chart and the improved methods and surveying techniques used in contemporary surveys.

Registered surveys Nos. 2474 and 2468 are superseded by T-13128 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Quadrangles Guanica, PR, 1:20,000 scale dated 1956 and Punta Verraco, PR 1:20,000 scale dated 1958. Much of these two maps agree with the previously mentioned registered surveys. Where pertinent discrepancies exist between either the registered or contemporary surveys they are noted on the comparison print in brown. Coral reefs awash and submerged coral or rocks are only symbolized and approximate and were not shown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with boat sheets H-9119 and H-9183 both at 1:10,000 scale. The shoreline on these boat sheets were the incomplete manuscript of T-13128. The only change is at Punta Criollo where the field editor extended the shoreline. The difference is noted on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 929, 1:10,000 scale dated May 1, 1972. Pertinent differences are noted on the comparison print in red. Coral awash and submerged is only generally symbolized on the

chart and was not noted on the comparison print. A visual comparison only was made with Chart 902, 1:100,000 scale. This chart covers the eastern half of the sheet and because of the scale is not of much use for comparison purposes.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Bernard Kurs

Bernard Kurs
Cartographer

Approved for forwarding:

Melvin J. Umbach

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

Approved:

Alfred C. Holmes

Alfred C. Holmes, RADM, NOAA
Director, AMC

Approved:

W. H. Brown

Chief, Photogrammetric Branch

W. H. Sull

Chief, Coastal Mapping Division

57°30"

1:45,000 FT.

57°00"

1:40,000 FT.

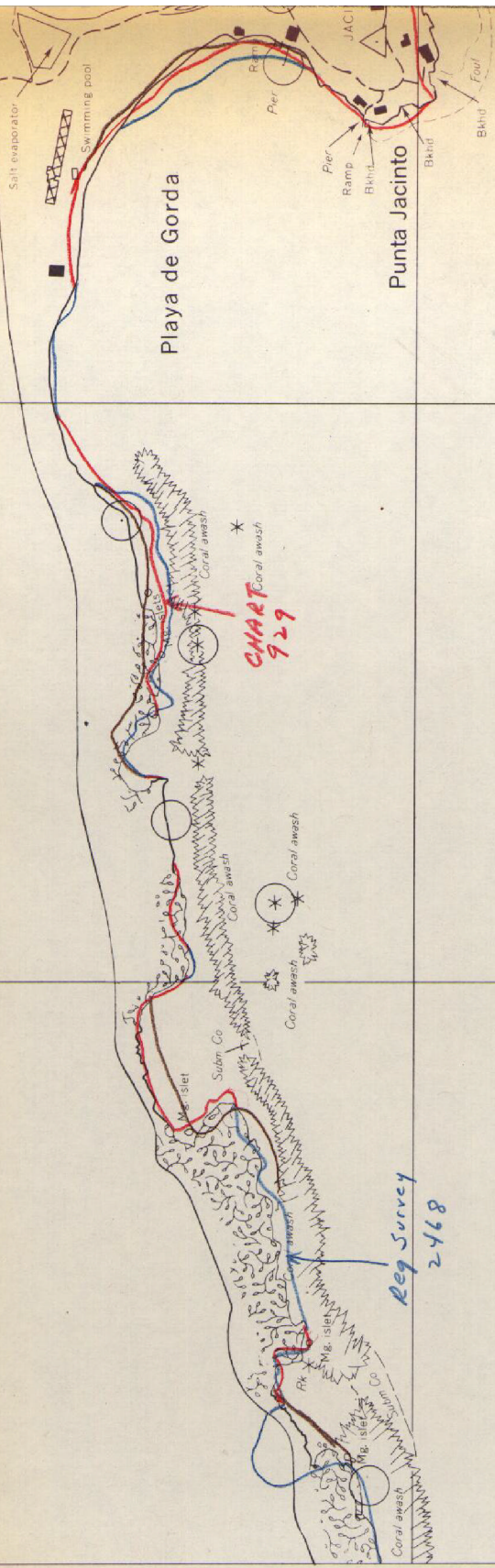
56°30"

65° 54' 00"

53° 30"

53° 00"

22



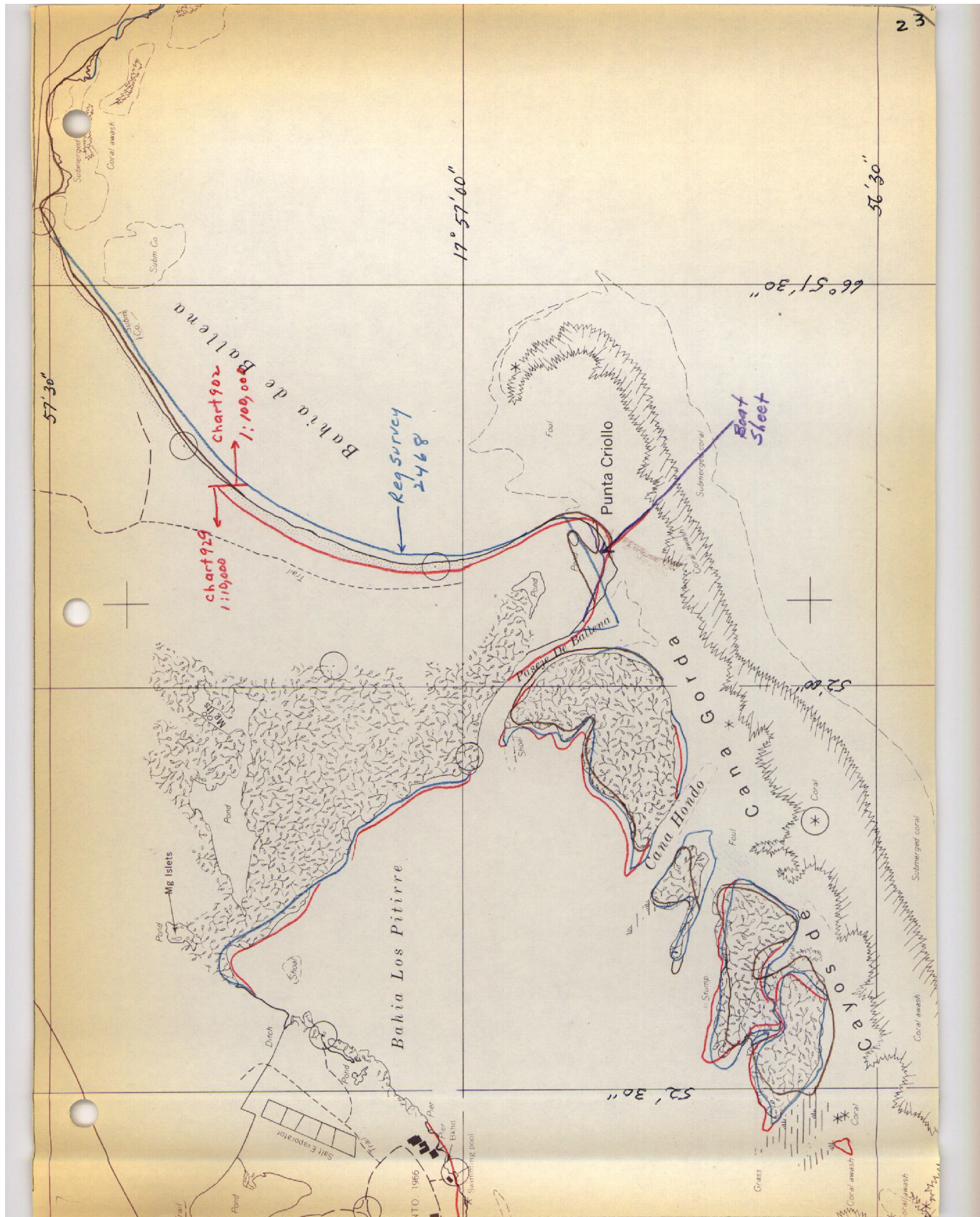
Coral Covers 4 ft
Coral Covers 4 ft
Coral Covers 7 ft

Sulphur Co

Submerged coral
La Lavandera

La Horqueta

Foul with Sulphur coral
Coral awash
Arrecife



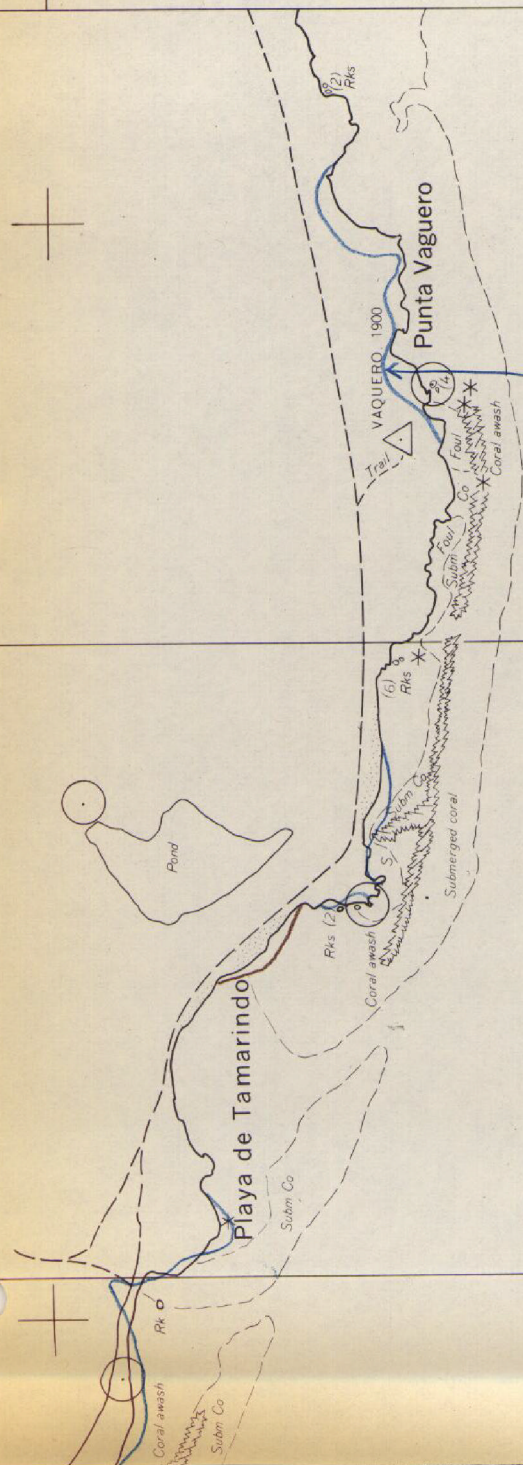
57°30"

y=45,000 FT.

57°00"

y=40,000 FT.

56°30"



Reg. Survey

2468

57°00"

56°30"

51°00"