# 13139

#### FORM C&G\$-504

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

# DESCRIPTIVE REPORT

DESCRIPTIVE REPORT
Type of Survey Shoreline (Photogrammetric
Field No. Office No. T-13139
LOCALITY
State Puerto Rico
General locality Southwest Coast
Locality Cayo Parguera
1966-7 <b>D</b>
CHIEF OF PARTY
Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

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

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

#### **DESCRIPTIVE REPORT - DATA RECORD**

	<b>T-</b> 13139		
OJECT NO. (II):	<del></del>	<del></del>	<del></del>
PH-6708			
FIELD OFFICE (II):		CHIEF OF PARTY	
None			
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	
Atlantic Marine Center, Norfolk	, VA	Alfred C. Holmes,	Director
INSTRUCTIONS DATED (II) (III):		<del></del>	
OFFICE - Nov. 14, OFFICE - SUPPLEME OFFICE AMENDMENT	NT 1 - Nov.	4 <b>,</b> 1968 968	
METHOD OF COMPILATION (III):	<u> </u>		
Wild B-8 Plotter			
MANUSCRIPT SCALE (III):	STEREOS	COPIC PLOTTING INSTRUMENT SC	ALE (III):
1:5,000	1:250	O Pantographed To 1:	5000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		PORTED TO NAUTICAL CHART BE	
	Ì		
APPLIED TO CHART NO.	DATE:	DATE REG	STERED (IV):
		JV	N 1975
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III):	<u> </u>
Puerto Rico		MEAN HIGH WATER AS Elevations shown as (25) refer to Elevations shown as (5) refer to i.e., mean low water or mean low	o mean high water sounding datum
REFERENCE STATION (III):		1	
Cave 2, 1966			
17 <sup>0</sup> 58'54.14686" 1664.6M 66 <sup>0</sup> 41'55.6	21 <b>7</b> 9" 1636.4	M X ADJUSTED .	
PLANE COORDINATES (IV):		STATE	ZONE
<sub>x =</sub> 53,942.23 Ft. <sub>x =</sub> 407,756.3	4 Ft.	Puerto Rico	1
AMAN NUMERALS INDICATE WHETHER THE ITEM IS TO OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECOF			·

## **DESCRIPTIVE REPORT - DATA RECORD**

T-13139

	FIELD INSPECTION BY (II):	DATE:
	None	
	MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):	
	Air Photo Compilation - Date of Photography - Nov. 15, 16, 1	.966
	PROJECTION AND GRIDS RULED BY (IV):	DATE
	A. Bethea	Oct. 14, 1968
	PROJECTION AND GRIDS CHECKED BY (IV):	DATE
	L. F. Van Scoy	Oct. 18, 1968
	CONTROL PLOTTED BY (III):	DATE
	Aerotriangulation Points: - J. Steinberg Triangulation Stations: - None	Nov. 7, 1968
	CONTROL CHECKED BY (III): Aerotriangulation Points: - B. Nicholson Triangulation Stations: - None	Nov. 7, 1968
	RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE
	I. I. Saperstein	Oct. 31, 1967
	STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY By: R. White	DATE Feb. 1969
	Wild B-8  Reviewed By: A.L. Shands	Feb. 1969
	CONTOURS  Inapplicable	DATE
	MANUSCRIPT DELINEATED BY (III):	DATE
	AL L. Shands	Feb. 1969
	SCRIBING BY (III):	DATE
	C. Woodson	7/12/72
	PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  Compilation: C.H.Birop Field Edit: R.E.Smith Scribing and Stick Up: F. Margiott	
	Field Edit By: - R.E. Kesselring  Refer to "Summary", page 6, for field  work done in 1970.	DATE: March 1969
1		

#### **DESCRIPTIVE REPORT - DATA RECORD**

T-13139

MERA (KIND OR SOURCE) (III):

U.S.C. & G.S. Types "L" & "M" Wild RC-8 & RC-9

	РНОТ	rographs (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66-L-8476 thrū 66- <b>L-</b> 8479	Nov. 16, 1966	08:58	1:15,000	0.57 above MLW
	,			

		Julia (III)				DIURNA]
				RATIO OF RANGES	MEAN RANGE	RANGE
REFERENCE STATION:	Galveston, Texas					1.4
UBORDINATE STATION:	Playa De Ponce, E	P.R.	٠.	0.57		0.4
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY	(IV):Bernard Kurs, A	AMC		Jan 18,	1973	t
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION ST.	ATIONS SEARCHED FOR (II):	2	RECOVERED:	IDENTIFIE None	D:	
NUMBER OF BM(\$) SEARCHED FO	R (II) :	None	RECOVERED: None	None	D	
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABLISHED (I	11):	2	<del></del>		

REMARKS:

Compilation complete pending field edit

Field edit applied Compilation complete
Compilation complete

Final review

Compilation RECORD

Feb., 1969

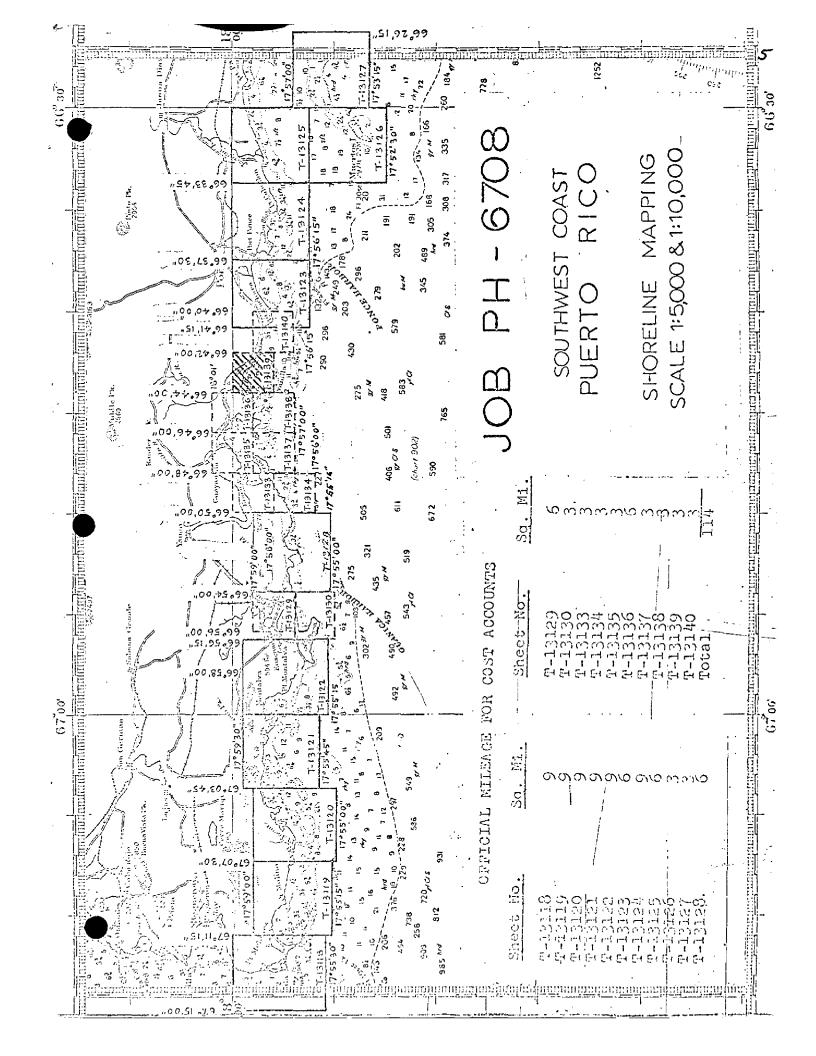
Superseded

April, 1969

Superseded

Jan., 1973

\* Two Lts (Ranges) added to mop after location
by field method in 1970 (refer to Desc. Report
"Summary" and Form 76-40)-Also two Topo Stations.
AB



#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT

T-13139

Shoreline survey T-13139 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 eastern part of Cayo Caribe and continues eastward to the easterly end of the Bahia De Tallaboa.

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

Compilation was by B-8 plotter using November, 1966 photography. 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. Two ranges and two topographic stations were added to the manuscript. These were established in 1970 after the 1969 field edit. The positions are unadjusted field computations, and were established by sextant fixes. Final review was at AMC in 1973. A negative and a cronaflex of the final reviewed survey are forwarded for record and registry.

# FIELD INSPECTION REPORT

# T-13139

# Project PH-6708

There was no field inspection prior to compilation of this map.

#### 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. Saperstejn

Approved and Forwarded

Henry P. Eichert, Chief Aerotriangulation Section

STRIP T-13121 661842 T13124 T-13125 180 66M625 T-13127

B. PONCE, RADIO STATION WELD MAST, 1966 4. VAQUERO, 1900 3. ENSCHADA, SOUTH P.R. SUGAR CO 2. CERRO VERTERO 2(USGS) 9. CARDONA ISLAND L.H. 1900 6. GUAYANILLA, UNION CARBIDE CO. W.T. 1966 GUANICA MUNIC. W.T. 1966 CENT. GUANICA WEST & EAST STACKS, 1966 TURN 2, 1966 PONCE BAY FRONT & REAR RANGE LTS. 1966 PONCE, DON Q RUM CO. STACK, 1966 REAR FRONT

AEROTRIANGULATION

PUERTO Southwest Coast RICO

PH-6708 Oct. 1967

LEGEND

A Control Used

O 1:60,000 Phon 1:60,000 Photos 5,000 Photos

T-13126





FORM C&GS-164 (4-68) USCOMM-DC 50318-P68

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MAP T-13139 PRO	PROJECT NO. PH-6708	SCA	SCALE OF MAP 1:5,000 SCAL	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 ( $I$ $Pt. \approx 3048006$ meter) FORWARD (BACK)
None		Puerto Rico		
		J		
COMPUTED BY A.C. Rauck, Jr.	DATE NOV. 18, 19	1968	снескер ву С. Blood	DATE NOV. 21, 1968

#### COMPTLATION REPORT

PH-6708

T-13139

#### 31. DELINEATION

Refer to Photogrammetric Plot Report - Job PH-6708, Puerto Rico, dated Oct. 31, 1967. Specifically Item 25- Photographyly 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 covers 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, islands, coral limits, as well as the piers and buildings, were delineated from office interpretation of the photographs.

## 36. OFFSHORE DETAILS

All coral limits, and Islands were delineated from office interpretation.

#### 37./ LANDMARKS AND AIDS

Appropriate copies of Form 567 have been forwarded to the Washington Office.

#### 38. CONTROL FOR FUTURE SURVEYS

None

#### 39. JUNCTIONS

Junctions are in agreement with T-13136 and T-13138 to the West and T-13190 to the East there are no contemporary surveys to the North or South.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

# 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle PUNTA CUCHARA, PR; scale 1:20,000, dated 1958.

# 47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 902, South Coast of Puerto Rico, scale 1:100,000, 8th Edition, dated March 15, 1965.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

# ITEMS TO BE CARRIED FORWARD

None

Submitted:

A. L. Shands

Cartographic Technician

a.d. Shonds

Approved:

RADM, NOAA Director, AMC

December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13139

Bahia de Tallaboa

Cayo Caribe

Cayo Parquera

Mar Caribe

Tallaboa

Approved:

A. Joseph Wraight Chief Geographer Prepared by:

Charles E. Harrington

Cartographer

T- 13139

49. NOTES FOR THE HYDROGRAPHER:

None

FORM C&GS-1002 /			Ų.	S. DEPARTMENT OF COMMERCE
(9-00)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			13139	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
СНВ	CHE	<b>.</b>	СНВ	СНВ
		·	3.15	
CONTROL STATIONS		4 050045045	S HODITONES CTATIONS	7. PHOTO HYDRO STATIONS
5. HORIZONTAL CONTROL STA	CCURACY	OF LESS TH	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	
None		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	etatione) XX	XX
8, BENCH MARKS	9. PLOTTING C	F SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
х	х		Bridge-W.O.	СНВ
ALONGSHORE AREAS (Nautical	Chart Date)	<u> </u>		<u> </u>
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
СНВ	Х		СНВ	X
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
None	Non	ıe	СНВ	CHB
	<u> </u>		<u> </u>	
PHYSICAL FEATURES  20. WATER FEATURES	<del></del>	21. NATURAL (	ROUND COVER	22. PLANETABLE CONTOURS
		I RATORAC (		
CHB			X	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
ХХ	XX		ХХ	χ
CULTURAL FEATURES	<u> </u>	·		
27. RO ADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
CHB	CHE	}	X	CHB
BOUNDARIES	<u></u>		<u></u>	
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
///				····
MISCELLANEOUS 33. GEOGRAPHIC NAMES	<del></del>	34. JUNCTIONS		35. LEGIBILITY OF THE
				MANUSCRIPT
CHB			CHB	CHB
36. DISCREPANCY OVERLAY	37, DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
CHB	CHE	}	None	CHB
40. REVIEWER	<del></del> -		SUPERVISOR, REVIEW SECTIO	N OR UNIT
Charles H. Bishop	2	/18/69	Albert C. Rauck	Jr.
41. REMARKS (See attached shee		<del> </del>	<u> </u>	<u> </u>
FIELD COMPLETION ADDITION		TIONS TO THE M	ANUSCRIP T	
42. Additions and corrections script is now complete exc	furnished by th	e field complet	on survey have been applied t	o the manuscript. The manu-
COMPILER C.H. Bishop	<del> </del>	/16/69	ISUPERVISOR Albert	C. Rauck. h.
Reviewed By: R.E.		/1/69	Albert C. Rauck	Jr.
43. REMARKS		· ·	<u> </u>	
Field Edit Applied	d From: Pi	eld Edit :	Ozalid, 66-L-(c)-83	198 and 8399
TTOTO "GIT INPLIES			ints) 66-L-(c)-8477	
				(Matte Ratio Print)
	• -			

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH-6708
MAP T-13139

### 52. ADEQUACY OF COMPILATION

Compilation was adequate. There were several minor shoreline changes. One road was deleted and two others added. The classification was changed on one road. The northerly shoreline of Cayo Caribe needs extensive revision. The changes are obvious on the color prints of the area and only general notes were made on the field edit ozalid. A spoil bank, south of the salt evaporators has undergone extensive changes since photography and was delineated by ground survey methods for office compilation. Some small piers were overlooked as were a few small docks. One bluff was added.

#### 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 Bahia de Guayanilla.

### 56. GEOGRAPHIC NAMES

The names on this map are correct and complete. The name <u>TALLABOA</u> is perhaps, misplaced. Local authorities on geographic names state that the name, which applies to a village, should be located about a mile to the northwest of its present location. The main part of the village of <u>TALLABOA</u> lies just a little west of the junction of Hwy 2 and Hwy 127 and does not fall on T-13139 at all.

Authorities consulted on geographic names are listed below.

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

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

II. Sr. Gilberto Castro Perez 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 contractor 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.

The harbor pilots mentioned above are licensed by the Puerto Rican Pilot Service.

# 57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks or fixed aids to navigation within the limits of this map. None of the buildings are suitible for landmarks on chart 902.

# 58. ROCKS, REEFS SHOALS AND FOUL AREAS

Rock compilation was good. All the rocks compiled were visited and depths given except in areas where many more sunken rocks were extant than those mapped. Some of the rocks awash actually form part of the reefs where they are located. Most of the sunken rocks fallin the areas labeled "foul" by the field editor.

Reef delineation was good. The "submerged coral reef" to the southeast of Cayo Parguera is part of the "coral reef awash" and falls into the "foul" classification used on other reefs of this nature. Depths and times of

observation were given at typical places on the reefs. Two submerged coral reefs to the southeast of Cayo Caribe were inspected and verified as submerged. They are symbolized on the map manuscript, but it is doubtful if they uncover at the sounding datum. Attention is called to the "shallow" area near the easterly limit of the sheet. This area is, properly, coral awash and appropriate notes were listed on the field edit ozalid.

There are only one or two minor shoals on this map. They were correctly identified and delineated.

#### 59. PHOTOGRAPHY

Photography consisted of 1:5000 black and white copies of color photographs and 1:15,000 and 1:30,000 color contact prints. The photography was good. The color prints were the most useful, but the ratio prints were good where more room was needed for inking shoreline changes and etc.

# 60. DISPOSITION OF DATA

All data was forwarded to the Photo Branch, Atlantic Marine Center. Copies of Field edit, Form 567's and form 526's were transmitted to the ship Whiting.

Richard E. Kesselring Surveying Technician

#### REVIEW REPORT

#### SHORELINE

T-13139

#### 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. Both surveys are in general agreement. Survey T-13139 supersedes the previously registered survey and is to be used for nautical chart construction purposes.

## 63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Punta Cuchara, PR quadrangle, 1:20,000 scale dated 1958. Both are in general agreement.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with H-9110, M15-1-70, 1:5,000. Both surveys are in good general agreement.

#### 65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 928, 1:10,000 scale, dated March 4, 1972. There is only one significant area of difference in the NW corner of the survey. The chart shows a long large pier and a spit which do not appear on the photos. Also the pond near the spit open to the Bay. These differences are noted on the discrepancy print in red.

# 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey meets both the 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

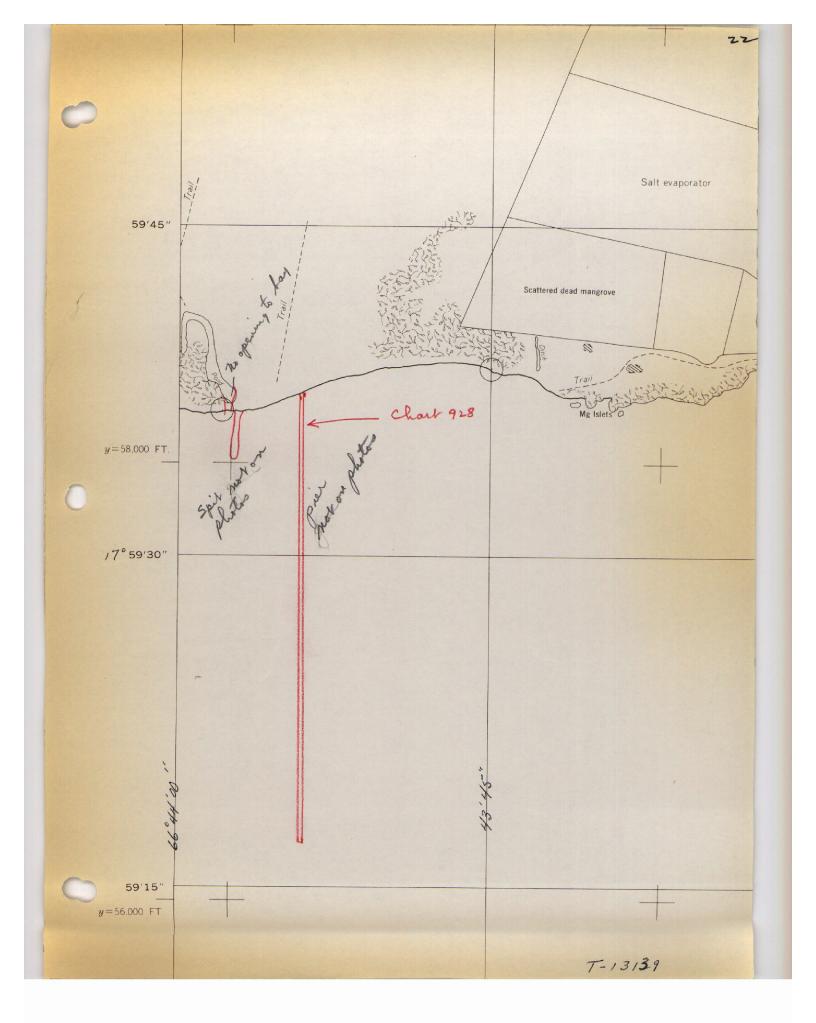
Approved: .

RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division



2.3

PHOTOGRAMME The following of the followi	TRY INSTRUCTION NO. CHARTED DELETED  SELETED  SECRI CONCE SALT ING CARDOR RANGE, CONCE SALT ING CARDOR RANGE, CONCE SALT ING C	U.S. DE SERGINATIN NOS Atla SERVEYNU TP- TON TRIES, CONT TRIES, TRIES, TRIES, TRIES H TRIES H REAT	OATING AIDS O  TION  Marine Cente  DATUM Puerto  Pos  LATITUDE  LATITUDE  LATITUDE  170591 33.63  17059 33.63  17059 35.19  17059 35.19  17059 35.19  17059 35.19  1082	COATING AIDS OR LANDMARKS FOR ATION	RICO  RICO  RICO  TION  CONGITUDE  CONGITUDE	NDMARKS FO NDMARKS FO NULLE OS TONGHANKS  ONGITUDE  D.P.METERS  43 12 98  382  43 11 93  351  42 134 29  1156	× O	ORIGINATING ACTIVITY    FIELD INSPECTION   FIELD EDIT     FIELD EDIT     FIELD EDIT     GUALITY CONTROL A     FINAL REVIEW     QUALITY CONTROL A     Guality Control     Guality Control     FIELD EDIT     FIELD EDIT	PIELD INSPECTION  FIELD INSPECTION  FIELD EDIT  COMPILATION  FIELD EDIT  FIELD	
										7