FORM C&G5-504

U.S. DEPARTMENT OF COMMERCE Environmental science services administration COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
Field No. Office NoT-13130
LOCALITY
State Puerto Rico
General locality Southwest Coast
Locality Ensenada Las Pardas
1966-197069
CHIEF OF PARTY
Alfred C. Holmes, Director, AMC
LIBRARY & ARCHIVES
DATE

FORM	C&GS-	18 la

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

DESCRIPTIVE REPORT - DATA RECORD

	1	- 13130	1 12 2 2 1 2				
OJECT NO. (II):							
PH-6708							
FIELD OFFICE (II):			CHIEF OF PARTY				
None							
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHARGE				
Atlantic Marine Ce		Alfred C. H	Holmes, I	Director			
INSTRUCTIONS DATED (II) (III):				<u>.</u>			
	CE - Nov. 14, 1967 CE - SUPPLEMENT 1 ~	- Nov. 4,	, 1968				
METHOD OF COMPILATION (III):							
Wild B-8 Plotter a	nd Cmanhid						
MANUSCRIPT SCALE (III):	III Graphic	STEREOSCO	PIC PLOTTING INS	TRUMENT SCA	LE (III):		
1 .5 000		1.2 500) Pantognach	od 59a Jai	- 000		
1:5,000 DATE RECEIVED IN WASHINGTON	DEFICE (IV) :	1	Pantographe				
APPLIED TO CHART NO.		DATE:	• • • • • • • • • • • • • • • • • • •		TERED (IV):		
				JUN	1975		
GEOGRAPHIC DATUM (III):		<u>.l</u>	VERTICAL DATUM	и (III): ΔΥΕΡ			
Puerto Rico		MEAN Elevations shown a Elevations shown a i.e., mean low wate	ns (25) refer to ns (<u>5</u>) refer to s	mean high water			
REFERENCE STATION (1)):							
Brea, 1966							
LAT.:		X ADJUSTED					
17 ⁰ 55'46.61007"	- 11	UNADJUSTED					
PLANE COORDINATES (IV):			STATE		ZONE		
v=35,190.12 Ft.	x = 328,820.90 Ft.		Puerto Ri	ico	1		
AN NUMERALS INDICATE WHE OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSON	THER THE ITEM IS TO BE ENTE						

USCOMM-DC 36393A-P66

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

DESCRIPTIVE REPORT - DATA RECORD

T-13130

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	<u> </u>
Air Photo Compilation - Da	te of Photography - Nov. 15, 190	,
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Bethea		Oct. 10, 1968
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
L. F. Van Scoy		Oct. 14, 1968
CONTROL PLOTTED BY (III):		DATE
Aerotriangulation Points: Triangulation Stations: -		Nov. 13, 1968 Nov. 26, 1968
CONTROL CHECKED BY (III):		DATE
Aerotriangulation Points: Triangulation Stations: -	- J. Steinberg A. C. Rauck, Jr.	Nov. 13, 1968 Dec. 3, 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
I. I. Saperstein		Oct. 31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY By: A.L. Shands	DATE April 7/1969
Wild B-8	Reviewed By: C. H. Bishop	April 7/1969
	contours Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		April 24, 1969
SCRIBING BY (III):		DATE
C. J. Woodson		8/12/71
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	*Compilation: R.E. Smith	DATE April 29/1969
Scr	Field Edit: R.J. Pate ibing and Stick Up: B.L. Barge	April 13/1971 Sept. 8, 1971
remarks: Fig.	d Edit By: - R.E. Kesselring er to Form	DATE: Feb. 1969

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

DESCRIPTIVE REPORT - DATA RECORD

T-13130

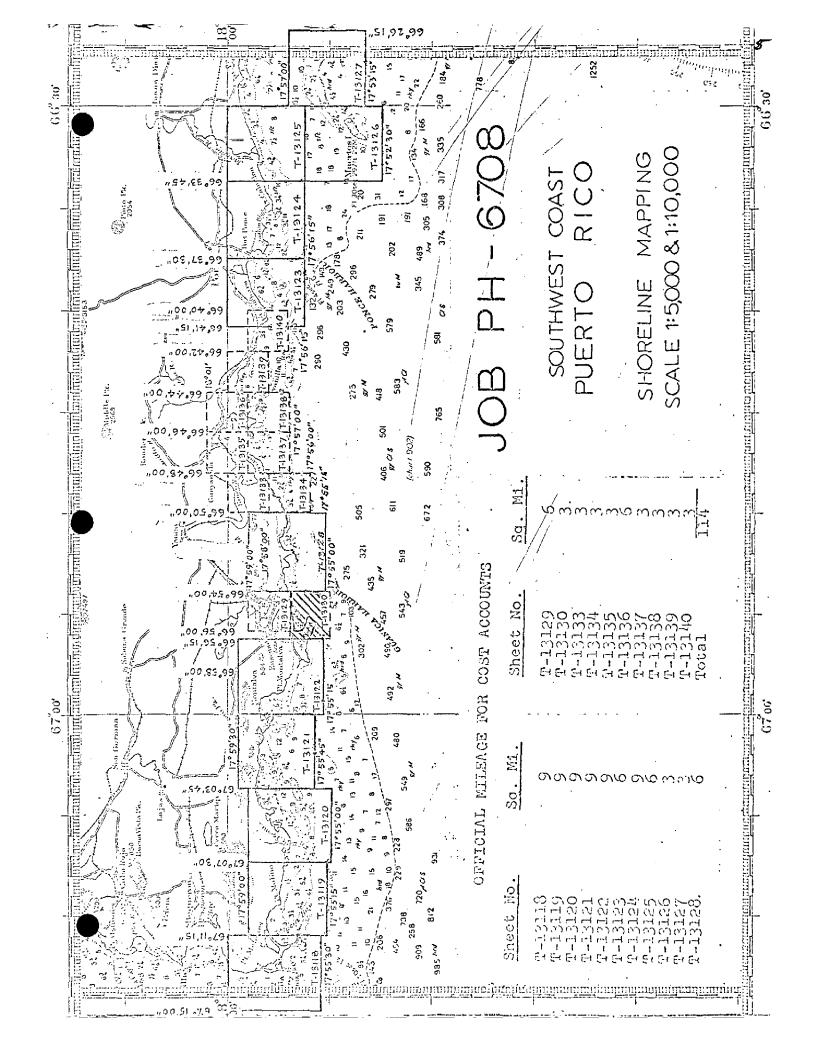
MERA (KIND OR SOURCE) (III):

	PHO	TOGRAPHS (III)					
NUMBER	DATE	TIME	SCALE	ST	STAGE OF TIDE		
66-L-842 9 thru 66-L-8431	Nov. 15, 1966	10:53	1:15,000	0. 5ft ab	ove ML	Ñ	
	PREDI	CTED TIDE (III)			D	TURNA	
				RATIO OF RANGES	MEAN RANGE	RANGE	
REFERENCE STATION: Ga	alveston, Texas					1.4	
SUBORDINATE STATION:	0.50		0.				
SUBORDINATE STATION:							
WASHINGTON OFFICE REVIE	w BY (IV):Bernard Kur	es, AMC		DATE:	72	L	
PROOF EDIT BY (IV):	DATE:						
NUMBER OF TRIANGULATIO	IDENTIFIED	IDENTIFIED:					
NUMBER OF BM(S) SEARCHE	None	>					
NUMBER OF RECOVERABLE	PHOTO STATIONS ESTABLIS	SHED (III):	None	····			
		ABLISHED (III):	None				

ESSA FORM 76-36c (2-70)			AL SCIENCE SERVI COAST AN	MENT OF CO CES ADMINIS D GEODETIC	TRATION
I. T FIELD INSPECTION OP	HISTORY OF FIELD ERATION X FIEL	DERATIONS TO DESCRIPTION	13130		
	PERATION	N/	AME	DA	TE
1. CHIEF OF FIELD PARTY		Joseph 1	K. Wilson		
<u> </u>	RECOVERED BY		Hewitt	May.	1970
2. HORIZONTAL CONTROL	ESTABLISHED BY	na			
	PRE-MARKED OR IDENTIFIED BY	na			
	RECOVERED BY	na	<u> </u>		
3, VERTICAL CONTROL	ESTABLISHED BY	na			
	PRE-MARKED OR IDENTIFIED BY	na			
-	RECOVERED (Triangulation Stations) BY				
4. LANDMARKS AND	LOCATED (Field Methods) BY	none			
AIDS TO NAVIGATION	IDENTIFIED BY	ļ			
	TYPE OF INVESTIGATION		•		
5. GEOGRAPHIC NAMES	COMPLETE BY			- {	
INVESTIGATION	T SPECIFIC NAMES ONLY	Roger P.	. Hewitt	May,	1979
	NO INVESTIGATION				
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	Roger P.	<u>Hewitt</u>	May,	197
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	na			
II. SOURCE DATA					<u> </u>
1. HORIZONTAL CONTROL II	DENTIFIED	2. VERTICAL CONT	ROL IDENTIFIED		
none		none	. <u></u>		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION D	ESIGNATION	_
2. PHOTO NUMBERS (CI. 1812)					
3. PHOTO NUMBERS (Clarific. 66 L 8429, 66	6 L 8430, <u>66</u> L 8431				
4. LANDMARKS AND AIDS TO none	NAVIGATION IDENTIFIED				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME	
5. GEOGRAPHIC NAMES: 7. SUPPLEMENTAL MAPS AN	REPORT X NONE	6. BOUNDARY AND	LIMITS: REP	PORT X N	ONE
Field Ozalio	ì				
8. OTHER FIELD RECORDS (3 1 Field Edit F 1 Form 526	Sketch books, etc. DO NOT list data submit Report	ted to the Geodesy Div	ision)		
ESSA FORM 76-36C				ISCOMM-DE 46	

T-13130

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete, Pending Field Edit	April 1969	Superseded
Field Edit Applied	April 13, 197	1Superseded
Final Review	Dec. 1972	
		·
		. '



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-13130

Shoreline survey T-13130 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 covers from just east of Punta Manglillo to just west of entrance of the Bahia De Guanica.

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

Compilation was at 1:5,000 scale by B-8 plotter, using photography of November, 1966. A copy of the manuscript, classified "incomplete" along with oxalids and 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 2 minutes 15 seconds longitude by 2 minutes 00 seconds latitude. After field edit was applied the manuscript was scribed, stuck-up and reproduced on cronaflex. 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-13130

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 I 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

Approved and Forwarded

Henry P. Eichert, Chief

Aerotriangulation Section

040,1199 6668319 STRIP F13120 T-13121 66 **>** 1 49 T-13123 下13124 A10. T-13125 下 13126 66M625 7-13127 7 18°00'

B. PONCE, PADIO STATION WELD MAST, 1966 5. TURN 2, 1966 4. VAQUERO, 1900 3. ENSENADA, SOUTH R.R. SUGAR CO 2. CERRO VERTERO 2(USGS) 1934 1. CABO ROSO(USAF) 1966 9. CARDONA 6. GUAYANILLA, UNION CARBIDE CO. W.T. 1966 II. BANIA DE GUANICA RANGE FRONT 7. REX 1966 GUANICA MUNIC. W.T. 1966 CENT GUANICA WEST & EAST STACKS, 1966 PONCE BAY FRONT & REAR RANGE LTS. 1966 PONCE, DON Q RUM CO. STACK, 1966 1.4.1900

AEROTRIANGULATION

PUERTO RICO Southwest Coast

0ct. 1967 Oct. 1967

LEGEND

1:30,000 Photos 1:60,000 Photos

サンジン ち

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

FORM **C&GS-164**(4-68)
USCOMM-DC
60318-P68

DESCRIPTIVE REPORT CONTROL RECORD

	- DATUM 3048006 meter) (BACK)	(411.7)	(799.0)							89
SCALE FACTOR Mone	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (8ACK)	1432.9	8.996							PATENOV. 21, 1968
SCALE OF MAP 1:5,000 SCAL	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	55	66 55 32.84831"							снескер вр. Влоод
SCA	DATUM	Puerto Rico			:					1968
t NO. PH-6708	SOURCE OF INFORMATION (INDEX)	Geodesy	27064				-			DATE NOV. 14,
MAP T- 13130 PROJECT NO.	STATION	Brea, 1966								COMPUTED BY A.C. Rauck, Jr.

Compilation Report

T-13130

31. DELINEATION

The Wild B-8 was used for delineation of photographs 66-L-8429 and 8430 (west of Long. 66°55'15"). The area east of long. 66°55'15" covered by photo 66-L-8431 could not be orientated with the Wild B-8 (center too far out in the water); therefore this area was compiled graphically, using identifiable bridge points and shoreline pass points located from model 8429-8430, and 8413-8414 (from manuscript T-13129), and additional pass points located graphically. The small area of submerged coral (CCRONA LA LAJA) was located with the vertical projector from T-13128 scale 1:10,000.

32. CONTROL

See Photogrammetric Plot Report, dated Oct. 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 MHWL and all alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

All rocks and reefs as well as all mangrove Islets were delineated from office interpretation. Shallow areas were shown only as an aid to the hydrographer and are from office interpretation of the photographs.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with 1:10,000 scale sheets T-13122 to the west and T-13128 to the east and with T-13129 (1:5,000) to the north. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS quadrangle "GUANICA, PR, scale 1:20,000, dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 929, scale 1:10,000, 3rd Edition, dated Feb. 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

INTERNS TO BE CARRIED FORWARD

None

Submitted:

A. L. Shands

Cartographic Technician

4-22-69

Approved:

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

December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13130

Corona La Laja

Ensenada Las Pardas

Fronton de La Brea

Mar Caribe

Punta Brea

Punta Manglillo

Salinas Las Pardas

Approved:

A. Joseph Wraight Chief Geographer Prepared by:

Charles E. Harrington

Cartographer

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&GS-1002				U.S. DEPARTMENT OF COMMERCE
(9-66)	RIC OFFICE REVIEW	ESSA COAST AND GEODETIC SURVEY		
	1110		.3130	
\ <u></u>	,			
I. PROJECTION AND GRIDS	2. TITLE	,	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RES	ļ	RES	RES	RES
CONTROL STATIONS	·			
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
RES	COURACY	(Topographic	stations)	xx
8. BENCH MARKS	9. PLOTTING C	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
хх	,	ΧX	Bridge (W.O.)	Wild B-8
ALONGSHORE AREAS (Nautical	Chart Date)			
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RES	;	XX	RES	xx
16. AIDS TO NAVIGATION	17. LANDMARK	Š	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
DYD] ,	RJP	RES	XX
RJP	1	NU F	1/17/2	, AA
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL G	ROUND COVER	22. PLANETABLE CONTOURS
RES			RES	χχ
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES
INSTRUMENT CONTOURS] ,	xχ	XX	FEATURES XX
XX	<u> </u>	^^	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	XX
CULTURAL FEATURES				
27, ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
RES	1	RES	χχ	RES
BOUNDARIES				
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
XX			XX_	<u> </u>
MISCELLANEOUS 33. GEOGRAPHIC NAMES		134		150
		34. JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT RES
RES			RES	RES
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39, FORMS
RES		RES	PHOTOGRAPHS RJP	RES
100	}			
40. REVIEWER	•		SUPERVISOR, REVIEW SECTI	ON OR UNIT
R.E. Smith,	Apri	1 29, 1969	Albert C Rauck	Ranck O
41. REMARKS (See attached shee			·	The state of the s
FIELD COMPLETION ADDITION		TIONS TO THE M.	ANUSCRIP T	
	furnished by th	e field completi		to the manuscript. The manu-
COMPILER Field Edit: I	Ril Pate	Apr 17/71	SUPERVISOR /	C. Bunk On
	Carr	Apr./1971	Albert C. Rauck	Jr.
I Rousewad Rus R.J. I	- 21 1 22		a mincip of reactor	. ب س ب ب و .
Reviewed By: R.J. I				<u> </u>
43. REMARKS			<u> </u>	
	From: Fi	eld Edit (Dzalid and Field P 56-L-8430, 66-L-84	hotos:

FIELD EDIT REPORT SOUTHWEST COAST OF PUERTO RICO JOB PH-6708 MAP T-13130

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. Coral limits were correct and verified by the hydrographer except where noted on Photos (cross referenced on field ozalid). Many of the submerged rocks and rocks awash, so dileniated, are coral heads and are labeled as such on the photos and cross-referenced on field ozalid. All bluffs shown except 2 are prominent and should be charted; heights are shown on photos and field ozalid.

A sand exporting operation has started on Punta Brea since the photos were taken. The trail marked "ddl private" has been graded to accommodate dump trucks and extended along the shoreline past the pond to the beach noted on Photo 66L 8429 (shown approximately).

Distances to MHWL are shown at photo points on all three photos (66L 8429, 8430, 8431).

54. RECOMMENDATIONS

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

56. GEOGRAPHIC NAMES

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

MONTALVA - refers to a district farther west than the area covered on the map and is not in local use for the land labeled so. LAS PARDAS AND PUNTA BREA are the local references to the land so labeled and are shown on the field ozalid.

CORONA LA LAJA - was incorrectly labeled BAJA LA LAJA.

CAÑO AZUL - refers to a channel behind a mangrove islet to the west of Punta Manglillo. The channel is often used by small boats to wait out a storm at sea.

Local authorities consulted were:

Dr. Luis R. Almodovar of lan 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 Schence 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

Of the two reefs shown on Chart 929, but not compiled, one, in Ensenada Las Pardas, is nonexistant; the other, west of Fronton de la Brea is there and is shown on Photo 66L 8430. The reef off Punta Manglilla was compiled incorrectly, according to the hydrographer and is shown correctly on Photo 66L 8430. The submerged coral area on the western side of the coral awash, in the middle of Ensenada Las Pardas, is actually foul with numerous isolated coral heads. The shallow and foul areas were delineated correctly.

Servard Kurs Roger P. Hewitt ENS/USESSA

T 13130 Photo-Hydro Signals

- Northwest point of brush on west side of T 13130 01 brush and rock point White rock between 2 patches of brush on rocky point inside right angle of brushy patch on rocky 03 point
 - 04 south corner of grassy patch on rocky point 05 seaward point of brush
 - Northwest corner of brush at rock 06
 - Apex of "V" of rocks into brush 07
 - NW corner of large boulder 08 09
 - Center of rock Small lone palm tree 10

 - Center of rock 11
 - 12 Intersection of 2 foot paths
 - Rock point (south tip) 13

REVIEW REPORT

SHORELINE

T-13130

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

Comparison was made with a copy of registered survey No. 2474 dated 1900, scale 1:10,000. There is only fair agreement between the two. There is a datum difference and many discrepancies in the shoreline, reefs, and mangrove islands. The date of the chart along with the improved methods of surveying techniques account for the differences. The differences in the shoreline and reefs are noted on the comparison print in blue.

Registered survey No. 2474 is superseded by T-13130 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS GUANICA, PR quadrangle 1956 1:20,000 scale. Only a general comparison could be made. The reefs alongshore and offshore are enly symbolized by rock awash symbols. Only pertinent rock awash symbols are carried on the comparison print in brown. All discrepancies were resolved by comparison with the boat sheet and the field edit notes.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Boat Sheet H-9719, 1:10,000 scale. The shoreline on this boat sheet appears to be made from the incomplete manuscript T-13130. The main changes were the two reefs around Punta Manglillo. The depth readings on the south end of these reefs necessitated the narrowing of the boundaries. All differences appear on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 929, 1:10,000 scale dated May 1, 1970. They agree only in a general sense. Discrepancies are noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Cartographer

Approved for forwarding:

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

Approved:

fred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

