12157

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Form	504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	SHORELINE
1	Office No. T-12157
	LOCÁLITY
State	PUERTO RICO
General locality	BAST COAST
· -	Punta Puerca
M. L. Olivier,	19_62 1958 -1965 CHIEF OF PARTY Photo Party 708 bralski, Tampa District Office
LIBI	RARY & ARCHIVES
DATE	13 13 UUU 1: 1968 1 JUL 1968

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

	- 15121						
PROJECT NO. (II):							
Ph-6106 (21042)		en speciel t					
FIELD OFFICE (H):		CHIEF OF PARTY					
Puerto Rico		M. L. Olivi	er				
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAR	GE				
Tampa, Florida		V. Ralph So	bieralski				
INSTRUCTIONS DATED (II) (III);							
Field and Office Amendment: Field and Office	- Jan. 15	, 1962 ×					
* Interior planimetry restricted to th	ose featu	(#\$ De-C 1	01				
		058 451 46	sea				
		10000					
METHOD OF COMPILATION (III):							
Kelsh plotter							
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCO		RUMENT SCALE (III):				
1:10,000		1:6,000					
DATE RECEIVED IN WASHINGTON OFFICE (IV): DATE REPORTED TO NAUTICAL CHART BRANCH (IV):							
APRIL 13, 1968							
APPLIED TO CHART NO.	DATE:		DATE REGISTERED (IV):				
GEOGRAPHIC DATUM (III):		VERTICAL DATUM	(III): MERLY				
Puerto Rico			EXCEPT AS FOLLOWS:				
			(25) refer to mean high water				
			or mean lower low water				
REFERENCE STATION (III):							
CAMP 1941							
18°13°55.090" (1693.7m.) 65°36°40.397" (11	86.8m.)	ADJUSTED UNADJUSTED					
PLANE COORDINATES (IV):		STATE	ZONE				
	1						
= 145,387.77 Ft. ×= 785,273.86 Ft	•	Puerto Rico	Lambert				
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTER OR (IV) WASHINGTON OFFICE.	RED BY (II) FI	ELD PARTY, (III) PH	OTOGRAMMETRIC OFFICE,				

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): DATE: Dec. 1961 Date taken from M. L. Olivier CSI card MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photography Oct. 1961 Mar. 1965 PROJECTION AND GRIDS RULED BY (IV): DATE A. Riley Jan. 1962 PROJECTION AND GRIDS CHECKED BY (IV): DATE I. Y. Fitzgerald Jan. 1962 CONTROL PLOTTED BY (III): DATE I. I. Saperstein Mar. 1962 CONTROL CHECKED BY (III): DATE V. P. Cackowski Mar. 1962 RABIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE R. E. Fuechsel Mar. 1962 STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY DATE I. I. Saperstein Mar. 1962 CONTOURS DATE Inapplicable MANUSCRIPT DELINEATED BY (III): I. I. Saperstein DATE Mar. 1962 Reviewed by: W. H. Shearouse Mar. 1962 SCRIBING BY (III): R. Purvis DATE May 1963 " Reviewed by: W. H. Shearouse May 1963 PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE M. M. Slavney May 1963 Field edit by G.F. Wirth Sept. 1962 REMARKS:

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

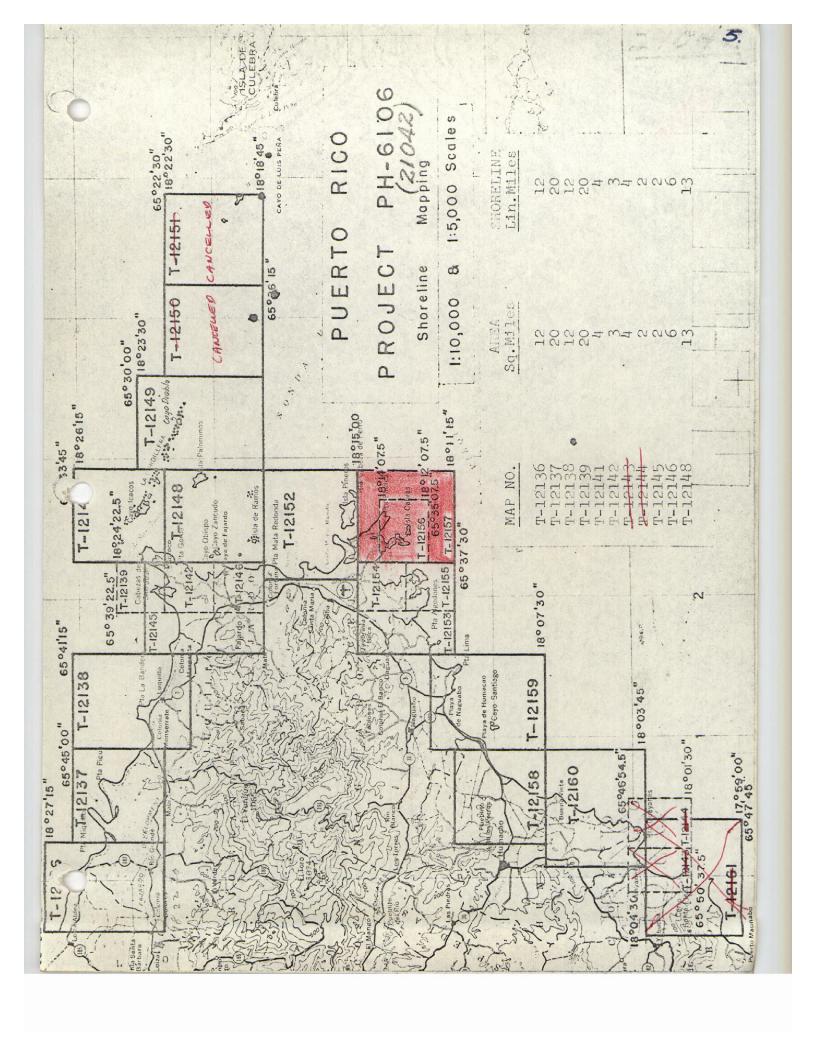
PHOTOGRAPHS (III)

CAMERA (KIND OR SOURCE) (III):

Wild "W" and "S"

		OTOGRAFIIS (III)							
NUMBER	DATE	TIME	SCALE	S ⁻	TAGE OF T	IDE			
58-S-2576 thru 2579	1958	1215	1:10,000	* (COLOR	PHOTOS)			
58-S-2744 thru 2746	1958	1042	1:10,000						
61-W-1680, 168 6	10-26-61	1503	1:30,000 (Diaposit	ives)				
For other photo covera	ge see report i	or T-12156							
65-1-1330,1331			1:15000	Color	*				
		TIDE (III)							
				RATIO OF RANGES	MEAN RANGE	SPRING RANGE			
*No subordinate station in area. Chart 922 shows range of tide in Ensenada Honda as 0.7 ft.									
UBORDINATE STATION:									
SUBORDINATE STATION:									
Atlantic N	Norine Center (IV):	M.W. St	200011	DATE:	c. 196	7			
PROOF EDIT BY (IV):			Y.	DATE:	2. 76				
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR	R (III): 14**	RECOVERED:	IDENTIFIE 3	D:				
NUMBER OF BM(S) SEARCHED FOR	R (III):	2	RECOVERED:	IDENTIFIE 0	D				
NUMBER OF RECOVERABLE PHOT	O STATIONS ESTABLE	SHED (III):							
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST	ABLISHED (III): 14							
REMARKS:									

**Ten of these were reported in report for T-12156.



6

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12157

Shoreline manuscript T-12157 is one of sixteen 1:10,000 scale maps in Ph-6106 Puerto Rico, which also contains eight 1:5,000 scale maps. The sketch on page 5 of this report shows the position of this map in the project, and reveals that much of this map was compiled at 1:5,000 scale assT-12156; and reduced for inclusion in T-12157. It is noted that 1:5,000 scale maps T-12143 and T-12144, and 1:10,000 scale maps T-12150, T-12151, and T-12161 of this project are in a postponed status entil some future time: cancelled.

This is a stereo instrument project in advance of hydrographic surveys of the area. Field inspection was done on 1:10,000 ratio prints from 1:30,000 panchromatic photographs made with the "S" camera on April 15, 1959 and with the "W" camera on October 26, 1961. Compilation was by Kelsh Plotter with 1:15,000 scale diapositives from the "W" camera on October 19, 1961 used for compilation of T-12156; and 1:30,000 diapositives from the "W" camera on October 26, 1961 for the remainder of T-12157. Color photographs, at 1:10,000, taken in 1958 were furnished for reference in compilation, but were not available for final review. Color photographs, 1:15,000, of March 5, 1965 in the area of Ensenada Honda were used to revise this area during final review. The stereo bridge was run and adjusted to field identified control in the Washington Office. Ratio prints, at 1:10,000 scale were processed from the October 1961 photographs, and furnished for hydrosupport.

Field work preceding compilation consisted of control identification for the stereo bridge, and field inspection for compilation. The manuscript was field edited, six rock heights, etc. were verified, in conjunction with hydro support.

The compilation manuscript was a vinylite sheet 3 minutes, 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex for registry and record after final review.

FIELD INSDECTION REPORT

2. AREAL FIELD INSPECTION

T-12139, T-12142, T-12145, T-12146, and T-12152 through T-12157,
These shoreline sheets, are located on the eastern coast of Puerto Rico.
The area is undeveloped except for the village of Fajardo and the Roosevelt Roads Naval Resvervation.

Field inspection was performed on photographs 59-S-3940 through 59-S-3949 and 59-S-3915 through 59-S-3923. Some difficulty of interpretation of the apparent MHWL was encountered around mangrove areas.

Three housing areas within the naval station were not field inspected. It is believed that the 1961 photographs will cover these spots. Also a small marina in Ensenada Honda was left for the 1961 photographs. A new marina, under construction, on the south side of Cayo Obispo (a small island just east of Playa de Fajardo) was left for field edit.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control stations except four within the project limits were searched for. HOUSE, 1901; KID, 1941; MONTE, 1941; and NORTH, 1941 were not searched for because no descriptions were furnished. Only those stations as specified on the project diagram were photo-identified. One U. S. Geological Survey control station (CENTRAL FAJARDO, NORTH STACK, 1941) was recovered and photo-identified.

There were many triangulation stations that could not be recovered especially around the naval base. It is believed that much of this control was destroyed during construction of the base.

4. VERTICAL CONTROL

All tidal bench marks in the area were searched for. The one at Playa de Fajardo was recovered but the two in Ensenada Honda could not be found.

5. CONTOURS AND DRAINAGE

Contours were not a part of the work requirements for this project.

The drainage patterns can be distinguished on the photographs.

6. MOODLAND COVER

Woodland cover has been classified in accordance with the requirements f for topographic maps. Wooded areas are adequately covered by the field inspection photographs.

Swamp areas were designated as mangrove. There is considerable mangrove throughout the area.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected from a small boat and by walking along the shoreline.

The shoreline in places was visited at low water. The mean low water line is shown onethe photographs in green ink.

The foreshore is steep in some places and somewhat flat in other places.

Docks, piers, wharves, etc. are adequately covered on the field inspection photographs.

One submerged cable was identified on the photographs.

8. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above MHW were noted. Coral is distinguishable on the photographs.

9. LANDMARKS AND AIDS

Landmarks and aids to navigation located by photogrammetric methods are shown on the contact prints. One landmark, a tower on Pineros Island, was identified on the field inspection photographs.

All landmarks and aids to be charted or deleted are adequately covered on Form 567.

10. EOUNDARIES, MONUMENTS, AND LINES

Boundaries were excluded by the project instructions.

11. CTHER CONTROL

Existing objects suitable for photo hydro control were identified on the field inspection photographs. These are shown on the photographs by three digit numbers. Many of the landmarks and aids can be used for photo hydro control.

12. CTHER INTERIOR FEATURES

All buildings and roads have been classified in accordance with project instructions dated 30-August 1961.

13. GEOGRAPHIC NAMES

in investigation of geographic names was not required by the project instructions. It was noticed that the geographic names on the existing charts and quads of this area agree with one another and with the general opinion of the local people.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Contact photographs were forwarded to the Washington office by Letter of Transmittal No. PH-6106-3 dated 20 November 1961.

Submitted
5 December 1961

Michael L. Olivier
Chief Photo-Party 708

PHOTOGRAMMETRIC PLOT REPORT PUERTO RICO, EAST COAST PROJECT PH-6106 March, 1962

21. Area Covered:

T-12146;

T-12136 through T-12139; T-12141 through T-12148; T-12152 through T-12161.

22. Method:

Five stereoplanigraph bridges were run in order to provide pass points for Kelsh compilation of the project.

Strip #4 was adjusted on a linear basis. All other strips were adjusted on a least-squares basis on the IBM 650 computer. Satisfactory adjustments were obtained for all strips in the project.

23. Adequacy of Control:

The horizontal control provided complied with project instructions, and was adequate. The following control failed to hold in bridging:

 Δ PINERITA 2, 1941-SUB.PT. 2. This station had been designated as a poor image pt. at the time of bridging, and may safely be disregarded due to the proximity of other control that held in bridging.

24. Supplemental Data:

None

25. Photography:

The photography was adequate for the needs of aerotriangulation.

Submitted by:

R. E. Fuechsel

Approved:

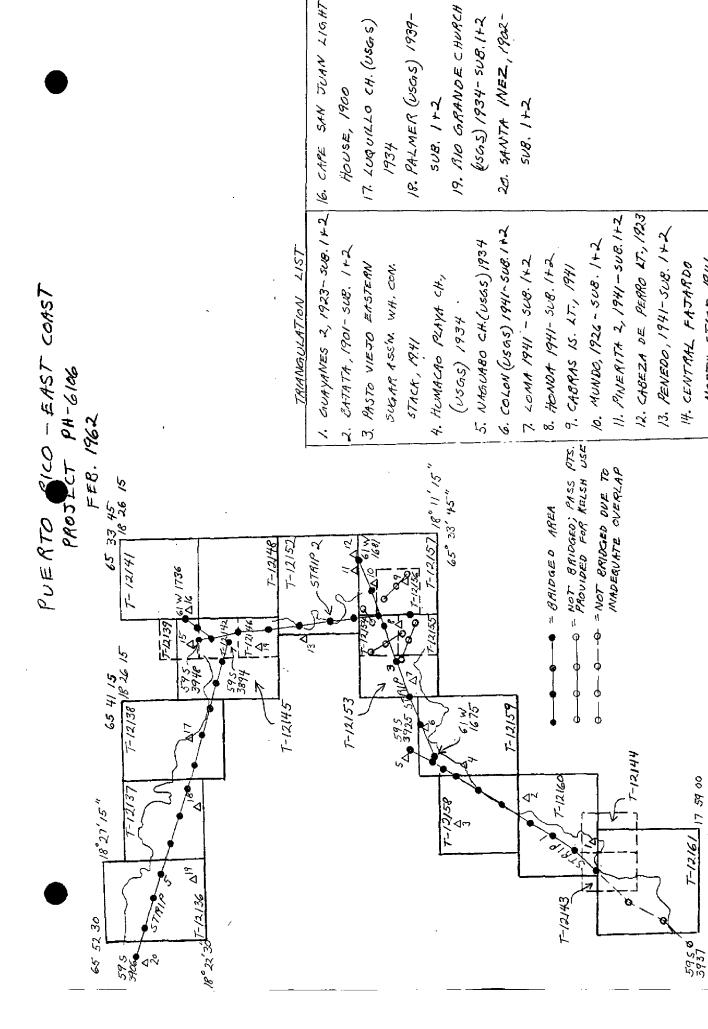
E. H. Rámey, Chief

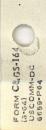
Aerotriangulation Section

15. CAPE, 1901-508.1+2

NOATH STACK, 1941

65 47 45





DESCRIPTIVE REPORT CONTROL RECORD

SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LIN IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)							(1017)															10			DATE
PH-6106 SCALE OF MAP 1:10,000 SCALE	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	146 931.47	789 015.37	149 267.53	787 772.56	151 875.77	796 085,64	152 584.03 0015.00	797 228,97	150 822.21	790 883.58	139 176.82	185 257,78	145 387.77		147 088.95	784 507.84	138 777.31	789 343.88	145 188,91	790 604.07	138 950.43	789 441.13	145 851.51	781 989,80	снескер ву Саском ski
OF SCA	DATUM	Puerto	Rico	Discrete	Rico	Dispeto	Rico	Diento	Rico	4	Rico	Disper	Rico		Fuer co Rico	Property	Rico	Puento	Rico	Direpto	Rico	Pijento	Rico	Puerto	Rico	
	SOURCE OF INFORMATION (INDEX)		1															· ·								3/14/62
MAP T- 12157 PROJECT NO.	STATION	MUNDO, 1926		LIGI TIST	424	PERRO 101/1	THE COUNTY	CABEZA DE PEBBO L'IGHT		rijor o Amtamara	۲,	1901 TAOS	THE RESERVE	FIOL GWAD	CAME, 1941	LAOL OMITMO TOR		CABRAS ISLAND LIGHT.	1941	PITERCA, 1900		SOUTH CABBAS ISLAND.		PIER, 1941	,	COMPUTED BY I. I. Saperstein

FORM C& GS-164
(3-64)
USCOMM-DC
6659-P64

DESCRIPTIVE REPORT CONTROL RECORD

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)
ROLON, 1941		Puerto	146 307.42	
		Rico		
SOL, 1941		Dioseto		
\ \ \		Rico	788 134.10	
			151 803.29	
1900-1921		,	16.921 176.91	
w			3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
*				
4				
				а
w Turk				
V. P. Cackowski	DATE		CHECKED BY R. E. Smith	()

COMPILATION REPORT T-12157

31. DELINEATION

The Kelsh plotter was used for delineation. The field inspection was generally adequate. Shoreline and shoreline pass points south of latitude 18°14'07.5" were transferred from a reduction of T-12156 (compiled at 1:5,000).

The interior detail has not been shown in accordance with amendment to instructions dated January 15, 1962.

Delineation was carried into T-12152 to the north, which is not yet compiled.

The color photographs were used as an aid in delineating rocks, coral and shallow areas.

32. CONTROL

The density and placement of bridge points was adequate.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

None.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water and low water lines were delineated according to the field inspection which was adequate. The shoal and shallow lines were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS

Rocks, rock ledges and coral reefs that could be seen have been shown. A rock ledge shown on field inspection photograph 59-S-3941 at Cabra de Tierra could not be seen and was shown as offshore rocks.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Manuscript Complete	April 1962	Superseded
Alongshore area revised from field edit. Manuscript complete	Nov. 1962	Superseda
Ensenada Honda anea revised during final	Dac. ALT	
		14.4

37. LANDMARKS AND AIDS

Two landmarks, one north of sheet (on T-12152) and two aids to navigation, one north of sheet (on T-12152) have been shown.

Forms 567 are being submitted for those aids and landmarks not previously submitted on T-12156.

One landmark north of sheet (on T-12152) has been noted for deletion and form 567 is submitted.

38. CONTROL FOR FUTURE SURVEYS

Four photo-hydro stations were located and were listed under item 49 in report for T-12156.

Shoreline pass points have been located by the Kelsh plotter for use of the hydrographer.

39. JUNCTIONS

Junctions have been made with T-12153 to the west and T-12152 to the north - water area to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS PUNTA PUERCA quadrangle, scale 1:20,000, edition of 1957. The comparison is favorable.

Comparison has been made with U. S. Navy Hydrographic Office topographic maps 3, 4 and 7, Roosevelt Roads Naval Station, scale 1:4,800, dated 1959. The comparison is good.

Comparison has also been made with USC&GS topographic survey 6872, 6873 and 6875, scale of 1:4,800, edition of 1941. These surveys are obsolete for comparison purposes.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart No. 922, scale 1:10,000, edition of March 6, 1944, revised February 4, 1961, and chart No. 917, scale 1:40,000, edition of May 6, 1930, revised Oct. 12, 1959. See report of T-12156 for comparison with chart No. 922. The comparison with chart No. 917 is favorable except for the wreck mentioned in the report for T-12156.

Cartographer (Photo)

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

APPROVED AND FORWARDED 25 JUL 1963

V. Ralph Sobieralski Tampa District Officer GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6106 (Puerto Rico)

T-12157

Bahia de Puerca

Cabra de Tierra

Cartbbean Sea BEYOND T-12157

Cayo Cabritas

> Cayo Pinerito

Ensenada Honda

/Isla Cabeza de Perro

Isla Cabras

ZIsla Pineros

Pasaje de Vieques

Pasaje Medio Mundo

>Punta Puerca

Radas Roosevelt Not Used

Roosevelt Roads Naval Reservation Not Delineated

Sonda de Vieques NoTused

Approved by:

Prepared by

A. J. Wraight
Chief Geographer

O. K. 5-3-68

Population

49. NOTES FOR THE HYDROGRAPHER

See report for T-12156.

The hydrographer is requested to investigate the point at Cabra de Tierra for a rock ledge.

FORM 182 (3-61)		Pi	ното	GRAMMETRIC OF T- 12				OF COMMERCE
PROJECTION GRIDS	N AND	2 TITLE			···	3	MANUSCRIPT NUMBERS	4. MANUSCRIPT
MMS		MMS	ía.	Classification label	Inclassified		MMS	MMS
CONTROL		ZONTAL CONTROL S IGHER ACCURACY					AL STATIONS O	
STATIONS	7. PHO1	TO HYDRO STATIONS	8. BE	NCH MARKS	9. PLOTTING OF	SEXTANT	10. PHOTOGR	AMMETRIC
ļ	MM	S		XX	XX		W.O. (EE	IR)
	11. DET	AIL POINTS						
ALONGSHORE AREAS	12. SHOP		13. LC	OW-WATER LINE	14. ROCKS, SHOAI	.S, ETC.	15. BRIDGES	
(Nautical	16. AIDS	TO NAVIGATION		17. LANDMARKS		18. OTHER	ALONGSHORE	PHYSICAL
Chart Data)	MM	S		MMS		!	MS	
	19. отн	ER ALONGSHORE CU	LTURA	L FEATURES				
	20. WATE	ER FEATURES	, ,		21. NATURAL GRO	UND COVER	₹	
	MM	3			XX			.•
PHYSICAL FEATURES	22. PLA	NETABLE CONTOUR	\$		23. STEREOSCOPI	CINSTRUME	NT CONTOURS	3
	XX				XX			
	24. CON	TOURS IN GENERAL			25. SPOT ELEVAT	ons		
	XX				XX			
	26. OTH	ER PHYSICAL FEATU	IRES					
	27. ROA	os		28. BUILDINGS		29. RAILE	OADS	
CULTURAL	**			XX		x	X	
FEATURES	30. OTH	ER CULTURAL FEAT	URES			ŀ		
		NDARY LINES	·		32. PUBLIC LAND	LINES		
BOUNDARIES	xx				XX			
<u>-</u>	33. GEO	GRAPHIC NAMES				34. JUNCT	IONS	
MISCEL- LANEOUS	MM	3				M	MS	
	35.LEGIE	SILITY OF THE MANUS	SCRIPT	36. DISCREPANCY	OVERLAY	37. DESCR	IPTIVE REPOR	-
	MMS	3		XX		M	MS	
	MMS		TOGRAF	PHS	39. FORMS		•	
	SIGNATI	M. Stein	14		SIGNATURE OF SU		REVIEW SECTION	ON OR UNIT
40. FIELD COM	L M. PLETION	M. Slavnav « ADDITIONS AND COL	RECT	IONS TO THE MANUS	CRIPT Additions and	correction	s furnished by	the tield com-
<u> </u>			manus	cript. The manuscr	ipt is now complete e		oted in remarks (on reverse side.
SIGNATURE OF	PLA	6 Amil	The state of	N.	SIGNATURE OF SU	M. M	. Sam	eu
	V	7	JSE RE	VERSE SIDE FOR RE	MARKS			DC 28353-P61

U.S. DEPARTM OF COMMERCE COAST AND GEODETIC SURVEY

NONFHORTHNY MIDNOR LANDMARKS FOR CHARTS

Tampa District Office

I recommend that the following objects which have from saw inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated. TO BE PEVISED

19 62

I. I. Saperstein The positions given have been checked after listing by

STRIKE OUT TWO

TO BE CHARTED

18 A CHARTS Chief of Party. OFFSHORE CHART INCHORE CHART LOCATION LOCATION SURVEY NO. Plot lerto DATUM Rico D.P. METERS atification Car 10.50 308 LONGITUDE * POSITION - 0 65 D.M.METERS Station Ide LATITUDE * 18 14 . rom Control slio date given - taken DESCRIPTION ht = 125 (239) PUERTO RICO CHARTING RADIO STATE

gation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to naviof the area and not by individual field survey sheets. Information under each column heading should be given.

15

18

HOTOGRAMMETRIC REVIEW BRANCH

T OF COMMERCE COAST AND GEODETIC SURVEY U.S. DEPARTI

NONFLOATING AIDS CHAPTANAMATAS FOR CHARTS

Tampa District Office

Apr 11 h

19_62 I recommend that the following objects which have (naturator) been inspected from seaward to determine their value as landmarks be charted on (astronomy the charts indicated.

The positions given have been checked after listing by

STRIKE OUT TWO

TO BE CHARTED SECTIONS 医免疫性 化化二苯苯酚

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							V. Ral	V. Ralph Sobieralski	oralski	O	itef o	Chief of Party.
STATE	OTE CHESIN				POSITION			METHOD			THAK	
	COTU OTUGAJ		3	LATITUDE*	LONC	LONGITUDE #		LOCATION				CHARTS
CHARTING	DESCRIPTION	BIGNAL		D.M. METERS		D. P. MEYERS	DATUM	BURVEY No.	LOCATION	ONSMI	H2710	
	EAST COAST											
LICHE	CABEZA DE PERRO	·	18 15	181.1	65 34	36.020	uerto Rico	Puerto Triang.	+Dec 22	×	1000 X	-3 Q
:	(Cabese de Perro 11ght 1923)									M		917,940
	ht = 35 (90)											
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	*No date given, taken from	Control S	tetton	Station Identification card	catton (ard ard				+	ļ	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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 charts of the area and not by individual field survey sheets. Information under each column heading should be given. USCOMM DC 27126

PHOTOGRAPMETRIC REVIEW BRANCH

OF COMMERCE COAST AND GEODETIC SURVEY U.S. DEPART

MONTHAM TOWN HANDWARKS FOR CHARTS

ZIGNEESEXNED ZIGNEESEES TO BE CHARTED

STRIKE OUT TWO

Tampa District Office

19 62

I recommend that the following objects which have (Managara been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by I. I. Saperstein charted on (Halle Man) the charts indicated.

CHARTING PUERTO RICO CHARTING DESC TOWER ht 52 (290) TOWER ht 52 (290)							4	THE PROPERTY OF THE PARTY OF TH			· · · · · · · · · · · · · · · · · · ·	
	4		!	_	POSITION			METHOD	,		THANS	
0 Z Z	0		5	LATITUDE *	LONG	LONGITUDE +		LOCATION	DATE			CHARTS
	DESCRIPTION	BIGNAL	0	" D.M. METERS	•	D. P. METERS	DATUM	SURVEY No.	LOCATION	HARBO	H8110	
								Photo		×	00	
Date ta	(290)		28 25	06.77 208	55 35	18.99 558	Puerto	Puerto Plot T-12152	1961	Þ	X 920	X 920
*Date ta						I I						
*Date ta							-					
*Date tel												
	*Date taken from Form 567 submitted by field party	Ltted by	field	oarty.							_	
					/							
;		,							 			

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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 charts of the area and not by individual field survey sheets. Information under each column heading should be given. USCOMM DC 27126

Form 567 (10-15-56)

STRIKE OUT TWO

ZXDO BECGRENIED
ZXDO BEOREXISED
TO BE DELETED

IT OF COMMERCE COAST AND GEODETIC SURVEY U.S. DEPART

MONHYPHYNY MYTHY PR LANDMARKS FOR CHARTS

April 4

Tampa District Office

19 62

I recommend that the following objects which have (hare-now) been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by I. I. Sapersteln xharmadxnax (delicted strom) the charts indicated.

							V. P.	Job Sob	V. Ralph Sobieralski	Ö	Chief of Party.	ă
STATE	FUERTO RICO				POSITION			METHOD			187 N	
			3	LATITUDE *	LONG	LONGITUDE		LOCATION			CHARTS	٤
CHARTING	DESCRIPTION	BIGNAL		D. M. METERS	•	" D. P. METERS		SURVEY No.	<u>د</u>	HYEBO	AFFECT	8
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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 charts of the area and not by individual field survey sheets. Information under each column heading should be given. USCOMMEDC 27126

FIELD EDIT NOTES OPR 423-1962 USC&GS Ship EXPLORER

All field edit notes have been delineated on the mylar T-Sheets. In general, the only discrepancies found were differences in the delineation of the mean high water line along sand beaches. These discrepancies were resolved with distance measurements from the hydrographic signals to the mean high water line. The azimuth used was a perpendicular line from the mean high water line to the respective signal. Each T-Sheet is discussed separately below with a listing of the necessary photos.

T-12160 - Mean high water line revision in area of "BED" appears necessary. Rock height revisions necessary in the following areas: HER, LOG, FOX, AND DIX. Photos - 5983933, and 3932.

T-12158 - Mean high water line revision along entire beach line appears necessary. Photos - 5983931, 3930, 3929, and 3928.

T-12159 (2 copies) - Mean high water line revision in area of DUN to ABE. Rock height revisions in the following areas: HUG, GEO, and WIG. Photos - 5953927, 3926, and 61W1676.

T-12153 - Rock height revision in area of JIM. Photos - 61W1678 and 1679.

T-12155 - Rock height revision in area of CUT. Photos - 61W1559 and 61W1560.

T-12156 - Rock height revisions in the following areas: EVA (2), KEN, and CRY. Photos - 61W1584 and 1585.

T-12154 - Pier revision at OIL.

Photos - None T-12157 - None Six rock notes, height verification, one deletion, etc

were from T-12156 which was reduced and included in T-12157 All T-Sheets, since they contain final locations of hydrographic sig-

nals, must be returned to this command as soon as possible as they are needed to plot hydrographic smooth sheets.

> Respectfully submitted: 10 September 1962

George F. Wirth

LT, C&GS

Forwarded Approved:

mind L. Jones

CAPI, C&GS Comdg., Ship EXPLORER

REVIEW REPORT T-12157 SHORELINE December 1967

61. GENERAL STATEMENT:

See Summary on page 6 of this report.

Most of the western area of this survey was compiled at 1:5,000 scale as T-12156, and reduced for inclusion in T-12157. Much of T-12156, the Ensenada Honda area, was revised during final review using 1965 color photographs because construction had made large shoreline changes after the 1962 field edit.

An ozalid Comparison Print (pages 25 through 27), which shows the differences noted in Items 62 through 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey 6872; 1:4,800; August 1941 Registered Survey 6873; 1:4,800; August 1941 Registered Survey 6875; 1:4,800; October 1941

The areas covered by these registered surveys, and the differences with T-12157 are shown in blue on the Comparison Print.

- 1.- The shoreline of Ensenada Honda north of latitude 18° 13' has been changed extensively by construction, filling, and dredging (See Item 61, parag. 2) since the 1941 surveys were done.
- 2.- The shoreline of Bahia De Puerca has been changed by construction, filling, and dredging, and a causeway to Isla Cabras has been built since the 1941 surveys.
- 3.- The present shoreline at the southeast part of Punta Puerca is about 30 meters offshore the 1941 shoreline.
- 4.- The remainder of the maps are in good agreement, with understandable differences in mangrove shoreline.

This survey supersedes the previous registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

PUNTA PUERCA, P.R.; U.S.G.S. quad.; 1:20,000; 1943, revised 1955.

Details from the quadrangle are on the Comparison Print in brown.

- 1.- The changes in Ensenada Honda north of latitude 18° 13' are from construction after the quadrangle was revised.
- 2.- There are shoreline differences up to 65 meters on the north-west area of Isla Cabras, the west side of Cabra de Tierra, and along the west side of Pasaje Medio Mundo.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET EX 5-3-65A & B; 1:5,000; 1965 BOAT SHEET EX10-3-62; 1:10,000; 1962

Boat sheet EX 5-3-65A & B was too faint and smudged to permit comparison.

The shoreline of Boat Sheet EX 10-3-62 was from the Advance Compilation of T-12157, and no changes were made on the boat sheet. There are, however, numerous bare rocks and rocks awash on the boat sheet that are not on T-12157. These are on the Comparison Print in green.

- 1.— A "rock awash" from EX 10-3-62 at latitude 18° 13.56' is shown on this map as bare 4 feet (4). The field edit submitted on Cronaflex (an ozalid copy is presently retained) carried the note: bares 4.0 ft., 1418-45°, 19 June 1962. This rock is also shown awash on Charts 922 and 940.
- 2.- The Comparison Print shows 26 "rocks awash" that are on Boat Sheet EX 10-3-62 that are not on T-12157. Photographs 61-W-1680 and 1681 were carefully examined but positive identifications could not be made, and neither the field inspector or the field editor noted them. It is noted that some had images that were visible on the photographs but it was not possible to identify them as rocks, awash or otherwise; and these are noted on the Comparison Print.

65. COMPARISON WITH NAUTICAL CHARTS:

CHART 922; 1:10,000; 6th edition, October 11, 1965 CHART 940; 1:25,000; 3rd edition, July 25,1966

The shoreline and offshore details of the charts that differ with T-12157 are shown on the Comparis on Print in red. Chart 922 was used to its northern and western limits, which are shown on the Comparison Print.

- 1.- The shoreline differences are considered minor; the largest being 15 or 20 meters on Isla Pineros and Cabeza de Perro.
- 2.- The chart agrees with the boat sheet on the rock awash designated as bare 4 ft. by the field editor please see note 1 in Item 64 and the Comparison Print.

3.- The charts show numerous rocks awash, islet, some dolphins etc. that do not appear on T-12157. A thorough check was made of the generalized notes of the field inspector and the sparse field edit, as well as photographs 65-L-1330 and 1331, and 61-W-1680 and 1681. The ComparisonPrint shows the cases in which an image appears on the photograph that may be the "rock awash" etc, but for which office identification can not be made.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements, and the National Standards of Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

M. M. Slavney

Approved by:

J. Bull, RADM, USESSA

Director, Atlantic MarineCenter

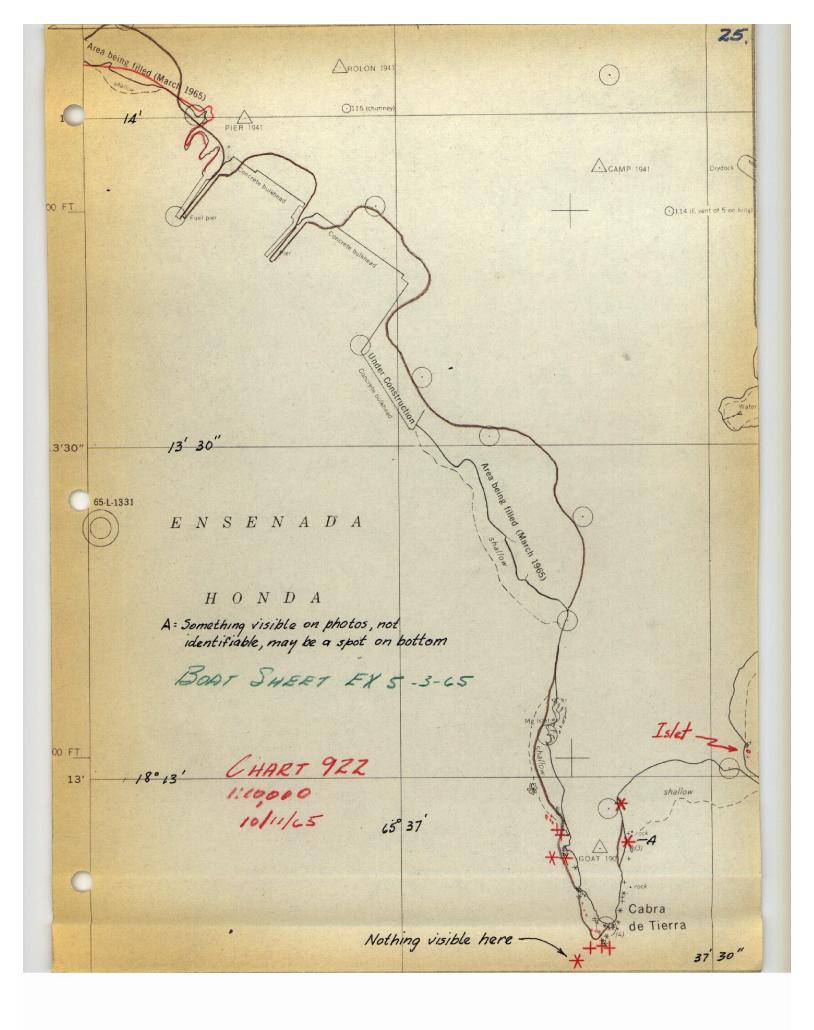
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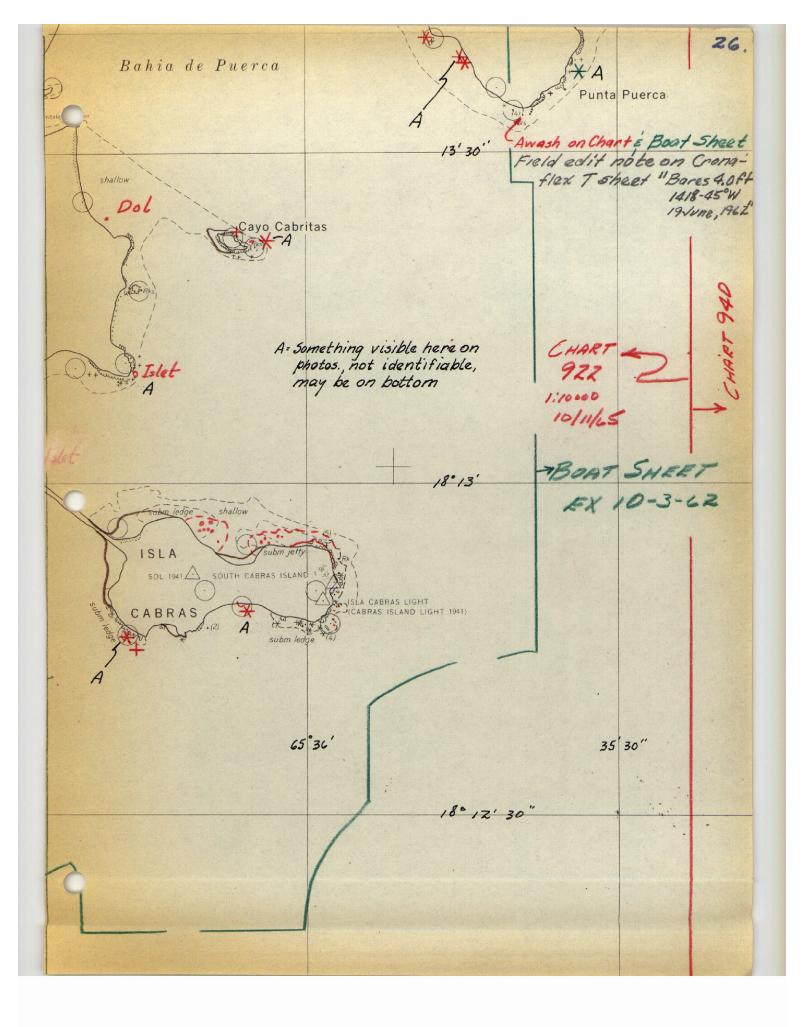
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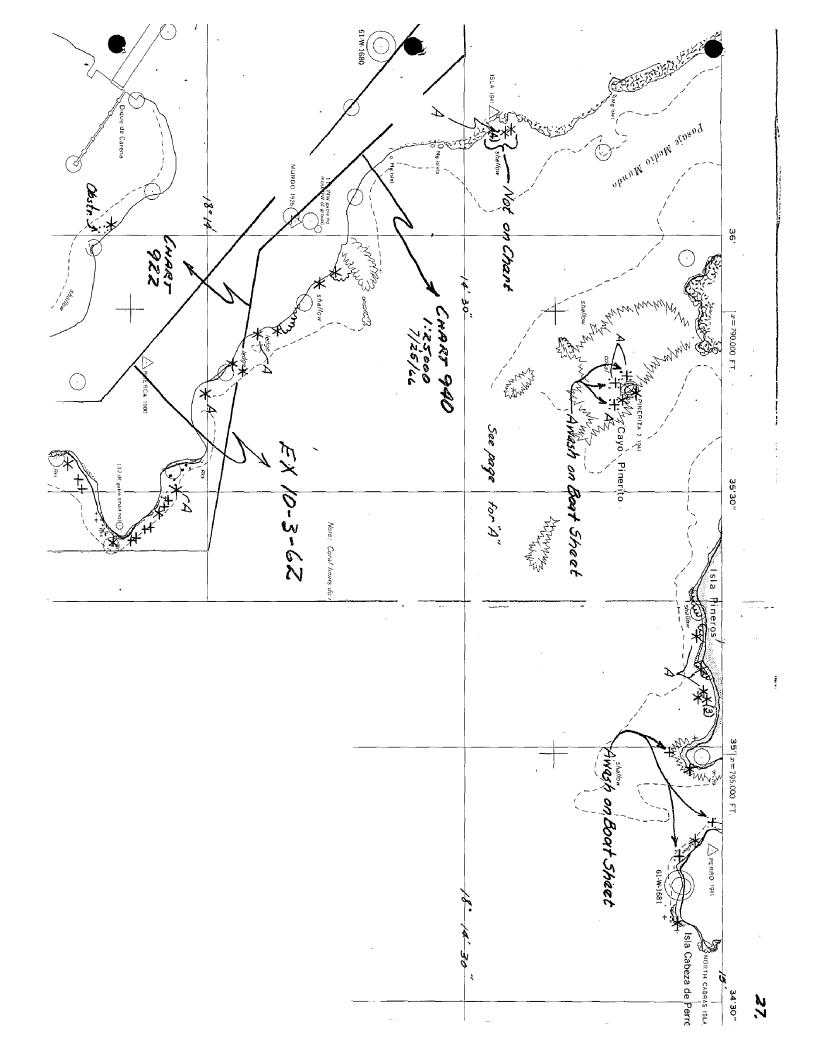
Chief, Chart Division

J. Ralph Sobievalski JUL 1 1968 Chief Photogrammetry Division

Chief, Operations Division







NOTES TO VERIFIER T-12157 Project Ph-6106 BOAT SHEETS EX 5-3-65 (H-8862) and EX 10-3-62 (H-8811)

Please note Items 61, 64, and 65 and pages 25, 24, and 27 of the Descriptive Report.

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	recommendations made under "Comparison with Charts" in the Review
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922	9/25/74	Guald Korl	Full Part-Before After Verification Review Inspection Signed Via
720	1/6/17	smara Korg	<u> </u>
	6/27/21/	Richard Naito	Adequately Still Part Before After Verification Review, Inspection Signed Via
917	9/27/14	KINNIN TONGO	Drawing No. 19
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