

11891

Diag. Cht. No. 903.

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. Ph-6403	Office No. T-11891
LOCALITY	
State	Puerto Rico
General locality	San Juan to Loiza Aldea
Locality	Punta Maldonado
1964-66	
CHIEF OF PARTY	
J. Bull, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	Sept. 8, 1967

USCOMM-DC 37022-P66

11891

DESCRIPTIVE REPORT - DATA RECORD

T - 11891

PROJECT NO. (III): JOB PH-6403		
FIELD OFFICE (II): Atlantic Marine Center		CHIEF OF PARTY J. Bull, Director, Atlantic Marine Center
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center		OFFICER-IN-CHARGE J. Bull, Director, Atlantic Marine Center
INSTRUCTIONS DATED (III) (III): 22 September 1964 17 November 1964		
METHOD OF COMPILATION (III): Kelsh		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 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):
GEOGRAPHIC DATUM (III): Puerto Rico		VERTICAL DATUM (III): MHW MEAN LOW 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): PUERTO RICO INTERNATIONAL AIRPORT AP STATION B 1962 ✓		
LAT.: 18° 27'07".207(221.6m) ✓	LONG.: 65° 59'20".071(588.9m) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): = 224,831.71 ft. ✓ x = 654,022.38 ft. ✓		STATE: Puerto Rico ✓ ZONE: Zone 1 ✓
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation Date of Photography: 17 February 1966		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		November 2, 1964
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
P. Hopkins		November 2, 1964
CONTROL PLOTTED BY (III):		DATE
K. Boyle		November, 1964
CONTROL CHECKED BY (III):		DATE
H. Cordell		November, 1964
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
G.M. Ball		December, 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	B. Wilson	December 1965
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
B. Wilson		December 1965
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
R. J. Pate		January 1966
REMARKS:		
Field Edit R. S. Tibbetts April 1966		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-W-3195	Feb. 17, 1964	1513	1:30,000	02 above MLW
3196	"	"	"	"
3197	"	"	"	"

TIDE (III) Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SAN JUAN, PUERTO RICO		1.1	1.4
COORDINATE STATION:			
SUBORDINATE STATION:			

REFERENCE STATION: SAN JUAN, PUERTO RICO

COORDINATE STATION:

SUBORDINATE STATION:

Atlantic Marine Center
WASHINGTON FIELD OFFICE REVIEW BY (IV):

M. M. SLAVNEY

DATE:

FEB. 1967

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): None

RECOVERED:

IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II): None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:

T-11891

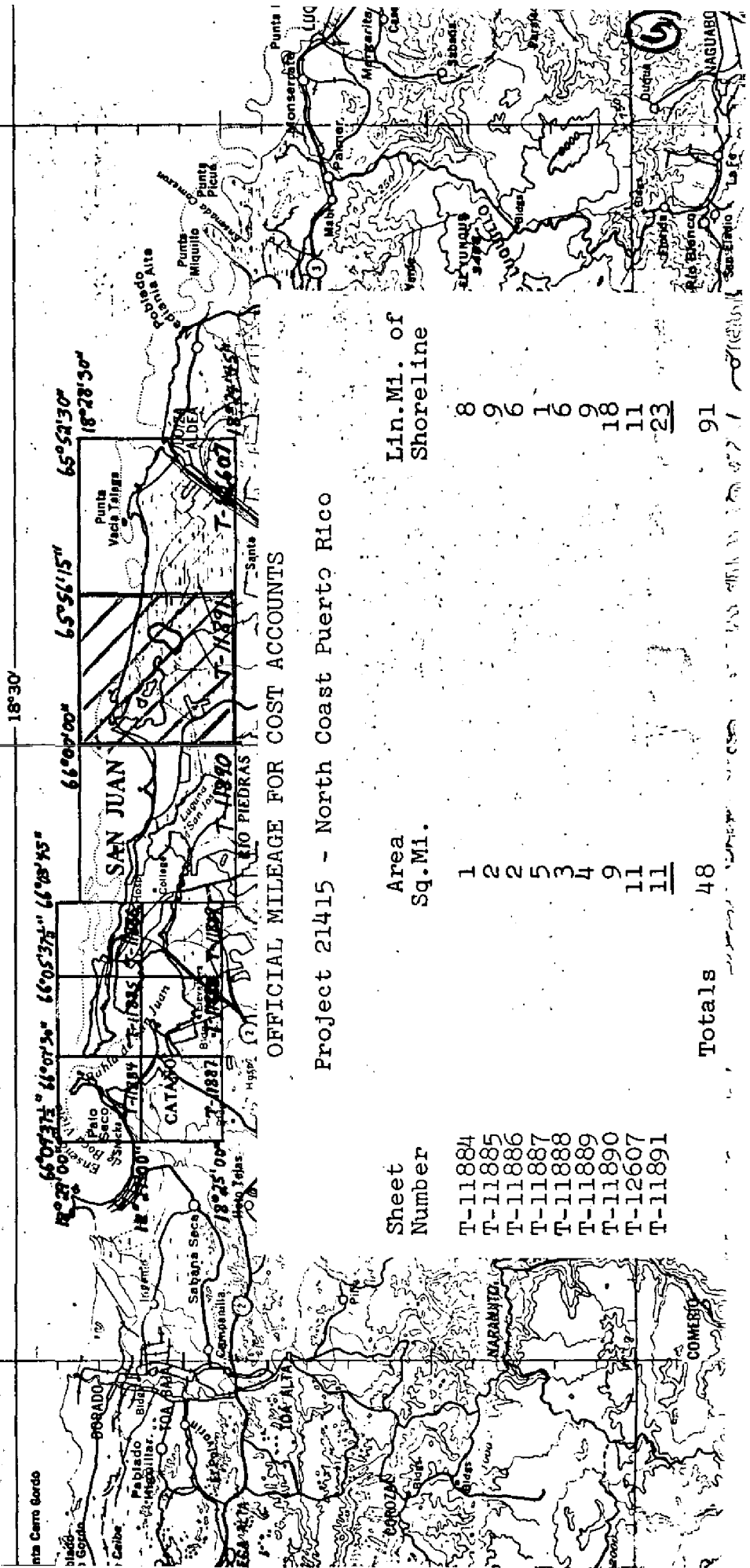
COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Jan. 1966	<i>SUPERSEDED</i>
Field Edit applied Manuscript complete	June 1966	<i>"</i>
<i>MANUSCRIPT COMPLETE</i>	<i>AUG. 1966</i>	<i>"</i>
<i>REVISED DURING FINAL REVIEW</i>	<i>FEB. 1967</i>	

PROJECT 21415
SHORELINE MAPPING
PUERTO RICO
SAN JUAN TO LOIZA ALDEA
1:5,000 & 1:10,000 SCALES



OFFICIAL MILEAGE FOR COST ACCOUNTS

Project 21415 - North Coast Puerto Rico

Sheet Number	Area Sq. Mi.	Lin. Mi. of Shoreline
T-11884	1	8
T-11885	2	9
T-11886	2	6
T-11887	5	16
T-11888	3	9
T-11889	4	18
T-11890	9	11
T-12607	11	23
T-11891	11	23
Totals	48	91

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11891

Shoreline manuscript T-11891 is one of three 1:10,000 scale maps in PH-6403 (San Juan to Loiza Aldea, Puerto Rico,) which also contains six 1:5,000 scale maps. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. 1:30,000 scale panchromatic photographs and 1:10,000 scale color photographs were taken with the "W" camera for the 1:10,000 scale maps. The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:10,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification only. The manuscript was field edited in conjunction with photo-hydro support.

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

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11891 PROJECT NO. 21115 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION		N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)	FORWARD	(BACK)	FORWARD	(BACK)	
BRUTONE, 1902	P.C.12	Puerto Rico	213,719.20 ✓ 655,905.35 ✓							
POINT CONGREJOS, 1902	P.C.12	Puerto Rico	228,373.15 ✓ 653,309.43 ✓							
SAN JOSE HILL, 1902	P.C.38	"	210,573.05 ✓ 670,646.27 ✓							
MANGO FLAG, BRUTONES(USGS) 1939	P.C.51	"	213,682.06 ✓ 656,186.21 ✓							
CONGREJO, 1964	Field Form 163 (3-64)	"	228,419.23 ✓ 652,632.24 ✓							
CONGREJO, 1964 SS1	"	"	228,455.97 ✓ 652,650.65 ✓							
CONGREJO, 1964 SS #2	"	"	228,445.81 ✓ 652,571.50 ✓							
PUERTO RICO International Airport AP STA B, 1962	P.C.69 G.P.183	"	224,831.71 ✓ 654,022.38 ✓							
BRUTONE, 1902	G.P.33	"	18° 25'16.992 ✓ 65° 59'00.795 ✓		522.4 ✓ 23.6 ✓					
POINT CONGREJOS, 1902	G.P.33	"	18° 27'42.334 ✓ 65° 59'27.388 ✓		1301.5 ✓ 803.6 ✓					
SAN JOSE HILL, 1902	G.P.95	"	18° 24'45.425 ✓ 65° 56'27.787 ✓		1396.5 ✓ 815.5 ✓					
MANGO FLAG BRUTONES (USGS) 1939	G.P.150	"	18° 25'16.617 ✓ 65° 58'57.879 ✓		510.9 ✓ 1698.6 ✓					

COMPILATION REPORT
T-11891

Photogrammetric Plot Report submitted with T-11890.

31. DELINEATION

Compilation was done by the Kelsh plotter. Color photography was used as an aid in delineation of rocks and other offshore features. Photography was satisfactory.

There was no field inspection.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

There was no shoreline inspection.

Foul areas, breakers and coral were delineated from office interpretation of the photographs.

No low water line was shown.

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

These are to be ascertained during the hydrographic survey.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11890 to the west and T-12607 to the east. The Atlantic Ocean is to the north. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle CAROLINA, P.R. scale 1:20,000 dated 1957.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 903 scale 1:100,000, 6th edition, March 16, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

R. E. Smith

R. E. Smith
Cartographer

Approved and Forwarded:

J. Bull
ADM

J. Bull, ~~CAPT~~ ^{ADM} USESSA
Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN *

BOCA DE CONGREJOS

BOSQUE ESTATAL DE PINONES

ISLA LA CONCORRA

LAGUNA DE PINONES

LAGUNA LA TORRECILLA

PLAYA DE LAS TRES PALMITAS

PTA MALDONADO

PUERTO RICO INTERNATIONAL AIRPORT *

PUNTA LARGA

PUNTA MOSQUITOS

TORRECILLA BAJA

* Not on name list of A. J. Wraight

GEOGRAPHIC NAMES
Ph 21415 (Puerto Rico)

T- 11891 (shoreline)

Atlantic Ocean

Boca de Cangrejos

* Bosque Estatal de Pinones

* Cangrejo Arriba

** Cerro San Jose

Isla La Cancora

** Islote Num 1

** Islote Num 2

** La Ceramica

Laguna de Pinones

Laguna la Torre ~~x~~cilla

* Municipio de Loiza

* Municipio de Carolina

Playa de las Tres Palmitas

Pta Maldonado

Puerto Rico International Airport

Pta Congrejos (from Chart 903)

Punta Larga

Punta Mosquitos

* Sabana Abajo

** Torrecilla Baja

A. J. Wraight

A. J. Wraight
Geographic Names

** Not used, limits not shown*

*** " " , beyond compilation limits.*

T-11891

49. NOTES FOR THE HYDROGRAPHER

Refer to project instructions dated Sept. 22, 1964. See paragraph No. 6.02 regarding landmarks and aids. See items noted on discrepancy print.

C&GS FORM 1002 (11-18-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-10363 T-11891			
1. PROJECTION AND GRIDS RJP	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RJP	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (WSC)	11. DETAIL POINTS Kelsh
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RJP	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. RJP	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP		21. NATURAL GROUND COVER RJP	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RJP
CULTURAL FEATURES			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RJP
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RJP		34. JUNCTIONS RJP	35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT RES	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS RJP
40. REVIEWER Russell J. Pate RJP		SUPERVISOR, REVIEW SECTION OR UNIT ACR Albert C. Rauch, Jr.	
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 LON Lowell O. Neter, Jr.		SUPERVISOR ACR Albert C. Rauch, Jr.	
43. REMARKS			

FIELD EDIT REPORT

T-11891

The field edit report is included with the Descriptive Report for T-11890.

14.

REVIEW REPORT T-11891
SHORELINE
February 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

An ozalid Comparison Print showing the differences noted in Items 62 and 65 is enclosed with the original of this report. The flight lines of the color photographs are shown in brown on this Comparison Print.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey 4205; 1:20,000; 1921

The Comparison Print shows these differences:

1. Shoreline differences to 80 meters in the Atlantic Ocean shoreline. The changes at Boca de Congrejos, latitude $18^{\circ}27.65'$ longitude $65^{\circ}59.65'$ are understandable at this pass. Most of the shoreline was inspected during field edit; see the field edit Discrepancy Prints and photographs 64-W-3195 thru 3197.
2. Differences in size, shape and position of Isla la Cancora, latitude $18^{\circ}28.05'$ longitude $66^{\circ}00'$ and the small islands and rocks east and south east to longitude $65^{\circ}58.7'$. Islets, rocks awash, sunken rocks, and foul areas on T-11891 from latitude $18^{\circ}27.25'$ longitude $65^{\circ}57.5'$ east to the map limits differ from Survey 4205. The original delineation on T-11891 was checked with color photographs 64-W-3267 through 3274 and 3303 through 3307. The field editor was unable to check the area; see his report, bound with T-11890.

T-11891 supersedes registered survey 4205 for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

CAROLINA, Puerto Rico; U.S.G.S. Quad.; 1:20,000; 1940 revised in 1949 and 1957.

The shoreline in the vicinity of Boca de Congrejos has changed most drastically. The Comparison Print indicates the changes.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None. The 1921 Registered Survey 4205 is the most recent, see Item 62.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 903; 1:100,000; 6th Edition March 16, 1964.

Registered Survey 4205 appears to be the source for most of this offshore planimetry on Chart 903; scale of Survey 4205 makes it preferable for comparison, so please refer to Item 62.

The chart shows a privately maintained aid to navigation at latitude 18°26.9' longitude 65°59.9', which is listed in the 1966 light list as CABALLO RANGE FRONT AND REAR LIGHTS. They were not identified or located by the field editor, and are discussed by him in paragraph 3 of Item 51 of the Field Edit Report.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests were made in the field. The survey meets the National Standards for Map Accuracy and Bureau requirements.

Reviewed by:

Approved by:

M. M. Slavney
M. M. Slavney

J. Bull
J. Bull, RADM
Director, Atlantic Marine Center

Approved by:

Charles L. ...
Chief, Cartographic Branch
Photogrammetric
SGB

Ralph Sobieralski
Chief, Photogrammetry Division
29-30-67
08

Acting Wallace A. Bruder
Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER
T-11891 Project 21415(PH-6403)
BOAT SHEET NO. No contemporary survey in Feb. 1967

See Items 62 and 65 of this report and the Comparison Print.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11891

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	REMARKS
903	11-29-69	B Fernandez	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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