

11885

ORIG

Diag. Cht. No. 903.

11885

| | |
|--|-------------------------|
| Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT | |
| Type of Survey | SHORELINE |
| Field No. | Office No. T-11885 |
| LOCALITY | |
| State | Puerto Rico |
| General locality | San Juan to Loiza Aldea |
| Locality | Isa San Juan |
| <u>1964-65</u> | |
| CHIEF OF PARTY J. Bull, Director, Atlantic Marine Center | |
| LIBRARY & ARCHIVES | |
| DATE | March 1968 |

USCOMM-DC 5087

2075-24

DESCRIPTIVE REPORT - DATA RECORD

T -11885

| | | |
|---|--|---|
| PROJECT NO. (II): 21415 PH 6403 | | |
| FIELD OFFICE (II): | | CHIEF OF PARTY |
| PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center | | OFFICER-IN-CHARGE J.C. Bull Director, Atlantic Marine Center |
| INSTRUCTIONS DATED (II) (III): Sept. 22, 1964 Field Nov. 17, 1964 Office | | |
| METHOD OF COMPILATION (III): Kelsh | | |
| MANUSCRIPT SCALE (III): 1:5,000 | STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:3,000 pantographed to 1:5,000 | |
| 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 SEA LEVEL 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): OLD LIGHTHOUSE 1899 ✓ | | |
| LAT.: 18°27'54".545(1799.9m) ✓ | LONG.: 66°07'06".608(193.9m) ✓ | <input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED |
| PLANE COORDINATES (IV): y = 229,916.91 ft. ✓ x = 609,100.83 ft. ✓ | | STATE Puerto Rico |
| ZONE | | |
| 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): None | | DATE: |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: Feb. 17, 1964 | | |
| PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree | | DATE Oct. 29, 1964 |
| PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins | | DATE Oct. 29, 1964 |
| CONTROL PLOTTED BY (III): K. Boyle H. Cordell B. Barnes | | DATE Nov. 24, 1964 |
| CONTROL CHECKED BY (III): R. Smith R. Wagner | | DATE Nov. 25, 1964 |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H. P. Eichert (WSC) | | DATE Nov. 12, 1964 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): | PLANIMETRY L. Neterer Reviewed: R. J. Pate | DATE Dec. 15, 1964 |
| | CONTOURS Inapplicable | DATE |
| MANUSCRIPT DELINEATED BY (III): R. J. Pate | | DATE Dec 1964 |
| SCRIBING BY (III): H. Cordell | | DATE Nov. 4, 1965 |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. J. Pate | | DATE Dec. 1965 |

REMARKS:

FIELD EDIT: D. RICH, MAR 1965

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

W Camera

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
|------------|------------|------|----------|---------------------|
| 64-3220 | 17 Feb. 64 | 1538 | 1:15,000 | 0.0 <i>M.L.W</i> |
| 64-3221 | 17 Feb. 64 | 1539 | 1:15,000 | 0.0 <i>"</i> |
| 64-3252 to | 17 Feb. 64 | 1612 | 1:15,000 | -0.1 <i>below "</i> |
| 64-3256 | 17 Feb. 64 | | 1:15,000 | |
| 64-3323 to | 17 Feb. 64 | 1636 | 1:15,000 | -0.2 <i>" "</i> |
| 64-3325 | 17 Feb. 64 | | 1:15,000 | |
| 64-3140 | 17 Feb. 64 | 0935 | 1:15,000 | +0.6 <i>above "</i> |
| 64-3141 | 17 Feb. 64 | 0936 | 1:15,000 | +0.6 <i>" "</i> |
| 64-3142 | 17 Feb. 64 | 0937 | 1:15,000 | +0.6 <i>" "</i> |

TIDE (III) PREDICTED

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|--|-----------------|------------|--------------|
| REFERENCE STATION: San Juan, Puerto Rico | | 1.1 | 1.3 |
| SUBORDINATE STATION: San Juan, Puerto Rico | | 1.1 | 1.3 |
| SUBORDINATE STATION: | | | |

WASHINGTON OFFICE REVIEW BY (IV): *Atlantic Marine Center*
Mr. M. SLAVNEY

DATE: *Sept. 1966*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): ?

RECOVERED: 3

IDENTIFIED: 3

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED: ---

IDENTIFIED: ---

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

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

REMARKS:

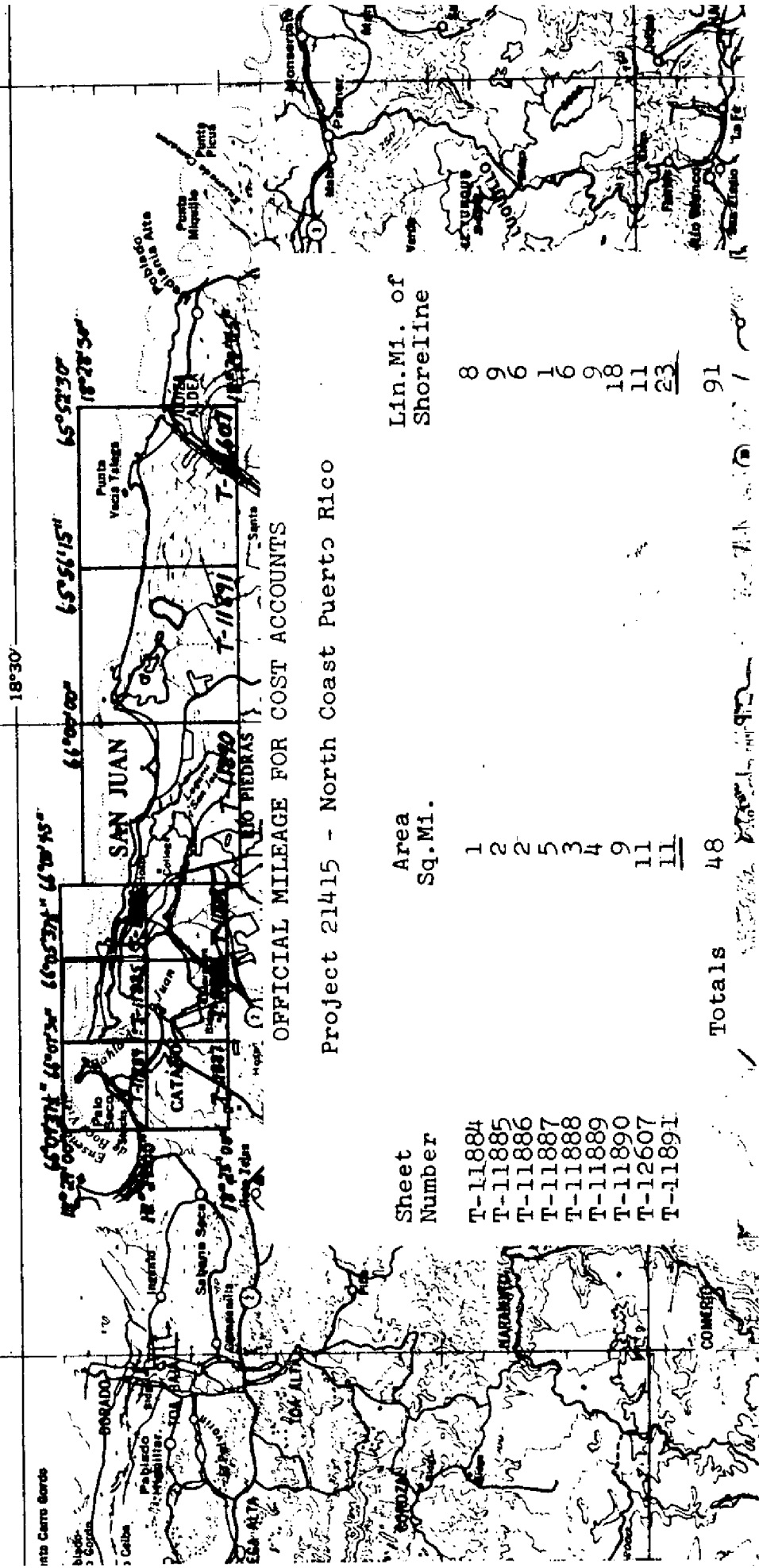
COMPILATION RECORD

COMPLETION DATE

REMARKS

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|--|-------------------|-------------------|
| Alongshore area for hydro | Jan. 1965 | Superseded |
| Alongshore area revised from field edit. | Sept. 1965 | <i>Superseded</i> |
| <i>SEE ITEM 61 of this Report. Revised during final review</i> | <i>Sept. 1966</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

Lin. Mi. of Shoreline

Area Sq. Mi.

Sheet Number

| | | |
|---------------|-----------|-----------|
| 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-11885

Shoreline manuscript T-11885 is one of six 1:5,000 scale manuscripts in Ph-6403 (San Juan to Loiza Aldea, Puerto Rico), which also contains three 1:10,000 scale manuscripts. 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. 1:15,000 scale and 1:30,000 scale panchromatic photographs were taken with the W camera; which was also used for 1:10,000 scale and 1:15,000 scale color photographs. All the photographs were taken on February 17, 1964. 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 1:5,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification only; no inspection was provided for compilation. The manuscript was field edited in conjunction with photo-hydro support.

The compilation manuscript was a vinylite sheet 2 minutes, 00 seconds in latitude, and 1 minute 52.5 seconds in longitude. The smooth manuscript was on cronaflex for review. One cronar positive and one cronar negative are furnished for registry and record after final review.

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

MAP T. 11885 PROJECT NO. 21115 SCALE OF MAP 1:5,000 SCALE FACTOR None

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS | | DATUM CORRECTION | DISTANCE FROM GRID OR PROJECTION LINE IN METERS | | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS |
|--|-------------------------------|--------------|---|---|--------|------------------|---|--------|--|
| | | | | FORWARD | (BACK) | | FORWARD | (BACK) | |
| SAN CRISTOBAL FLAGSTAFF, 1899 | GP 69 | PUERTO RICO | 18° 28' 09.623" | ✓ | | | | | |
| POWDER MAGAZINE WEST GABLE BALL, 1899 | " | " | 66° 06' 41.515" | ✓ | | | | | |
| SAN CRISTOBAL SIGNAL STAFF, 1899 | GP 73 | " | 18 27 05.171 | ✓ | | | | | |
| RADIO TOWER NORTH EAST, 1939 | " | " | 66 05 40.352 | ✓ | | | | | |
| RADIO TOWER SOUTH WEST, 1939 | " | " | 18 28 11.283 | ✓ | | | | | |
| PUNTIILLA POINT LIGHT, 1939 | GP 72 | " | 66 06 41.220 | ✓ | | | | | |
| CASETA 38 (1961) (COFE 1961 PAA) | W.O. Verifax GP | N.A. 1927 | 18 28 03.947 | ✓ | | +9.6" | 18 27 39.1" | | |
| SUP 1961 | " | " | 66 05 38.782 | ✓ | | - .7" | 66 07 00.2 | | |
| NAVY WATER TANK (NORTH) (No-date) | " | " | 18 28 00.822 | ✓ | | +9.6" | 18 27 20.6 | | |
| MORRO LIGHTHOUSE 1900 | PC 1 GP 1 | PUERTO RICO | 66 05 42.561 | ✓ | | - .7" | 66 05 40.7 | | |
| SAN JOSE CHURCH 1899 | GP 68 | " | 18 27 39.244 | ✓ | | +9.6" | 18 27 19.5 | | |
| ARMY HOSPITAL FLAGSTAFF, 1899 | " | " | 66 05 40.903 | ✓ | | - .7" | 66 05 40.2 | | |
| | | | Y=232,353.78 ft. X=607,196.36 ft. | ✓ | | | | | |
| | | | 18° 28' 10.108" | ✓ | | | | | |
| | | | 66 07 07.975 | ✓ | | | | | |
| | | | 18 28 08.031 | ✓ | | | | | |
| | | | 66 07 11.169 | ✓ | | | | | |

MAP T. 11885 PROJECT NO. 21115 SCALE OF MAP 1:5,000 SCALE FACTOR None

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -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) | |
| ROCK, 1899 | GP 70 | PUERTO RICO | 18° 28' 11.40" ✓ | | | | | | |
| | | | 66 07 28.81 ✓ | | | | | | |
| BASTION, 1899 | " | " | 18 28 04.64 ✓ | | | | | | |
| | " | " | 66 07 20.48 ✓ | | | | | | |
| MATA, 1899 | " | " | 18 27 41.82 ✓ | | | | | | |
| | | | 66 06 28.09 ✓ | | | | | | |
| CAPITOL CUPOLA, 1927 | " | " | 18 28 07.473 ✓ | | | | | | |
| | | | 66 06 22.747 ✓ | | | | | | |
| ST. AUGUSTINE CATHEDRAL CUPOLA, 1927 | " | " | 18 28 02.863 ✓ | | | | | | |
| | | | 66 05 57.967 ✓ | | | | | | |
| ARSENAL (NAVAL STATION OLD CHAPEL DOME), 1899 | GP 69 | " | 18 27 48.373 ✓ | | | | | | |
| | | | 66 06 52.820 ✓ | | | | | | |
| PALACE DOME, 1899 | " | " | 18 27 58.201 ✓ | | | | | | |
| | | | 66 07 10.182 ✓ | | | | | | |
| OLD LIGHTHOUSE 1899 | " | " | 18 27 58.545 ✓ | | | | | | |
| | | | 66 07 06.608 ✓ | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

COMPILATION REPORT
T-11885

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11884

31. DELINEATION

Compilation was done by the Kelsh plotter. Color photography was used as an aid in delineation of rocks and offshore features. Refer to Item 49 of this report.

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 and awash areas were delineated from office interpretation.

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. JUNCTIONS

Junctions are in agreement with T-11888 to the south, T-11884 to the west and T-11886 to the east. The Atlantic Ocean is to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle San Juan, Puerto Rico scale 1:20,000 dated 1957. Changes noted were to be expected due to the passage of time.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart No. 908 scale 1:10,000 revised 11-19-62.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and Forwarded:

R. E. Smith
R. E. Smith
Cartographer

J. Bull
J. Bull
Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

| | |
|---------------------------|---|
| AEROPUERTO DE ISLA GRANDE | * |
| ATLANTIC OCEAN | * |
| BAHIA DE SAN JUAN | |
| BAJO SAN AUGUSTIN | |
| BAJO TABLAZO | |
| CANO DE SAN ANTONIO | |
| EL MORRO | * |
| FARO DE ISLA GRANDE | * |
| FARO DE PELIGRO | * |
| ISLA GRANDE | |
| ISLA SAN JUAN | |
| LA PORTALEZA | * |
| LA PUNTILLA | |
| PUERTO DE TIERRA | |
| PUNTA DEL MORRO | |
| SAN JUAN | |
| SAN JUAN ANTIGUO | |

** *Not used.*

NOTE

* Not on the name list of Mr. A. J. Wraight
 ** Name from Chart 908

GEOGRAPHIC NAMES
Ph 21415 (Puerto Rico)

Aeropuerto De Isla Grande T-11885 (shoreline)

Atlantic Ocean

Bahia de San Juan

> Bajo San Agustin

> Bajo Tablazo

> Cano de San Antonio

El Morro

> Isla Grande

> Isla San Juan

> La Puntilla

> Puerto de Tierra

> Punta del Morro

> San Juan Antiguo

> *Atlantic Ocean*

San Juan

A. J. Wraight

A. J. Wraight
Geographic Names

T - 11885

19. NOTES FOR THE HYDROGRAPHER

Refer to Project Instructions 21415, dated Sept., 22, 1964, Par. 6.06.

On the north coast of Isla San Juan between approximate longitudes $66^{\circ} 06' 45''$ and $66^{\circ} 07' 15''$, the shoreline interpretation is very general in delineation. This area is difficult to interpret properly because of the close proximity of the housing built adjacent to and on the high water line. Many of these structures appear to be built out into the foreshore area. It is recommended that this area of shoreline be thoroughly investigated.

Many apparent landmark structures have been shown on Isla San Juan and Isla Grande. These will require verification and selection as to their value as landmarks.

The color photography was studied stereoscopically in order to delineate the foreshore area of the north coast of Isla San Juan. It was found that isolated offshore rocks could not be identified from this photography and it will be necessary to investigate this entire shoreline for rocks and rock ledges.

A discrepancy on solid print with notes to the hydrographer and field editor is being forwarded with this data.

C&GS FORM 1002
(11-13-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW
T-10363 T-11885

| | | | |
|---|---|--|---|
| 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 (WO) | 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 RJP | 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 RJP <i>R.J. Pate</i> | | SUPERVISOR, REVIEW SECTION OR UNIT ACR <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 RJP <i>R.J. Pate</i> | | SUPERVISOR ACR <i>Albert C. Rauck Jr.</i> | |
| 43. REMARKS | | | |

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NON-MAGNETIC AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO

ATLANTIC MARINE CENTER

FORM

66

I recommend that the following objects which have been inspected from seaward to determine their value as light aids to navigation be charted on ~~charts~~ charts (indicate chart numbers) the charts indicated.

The positions given have been checked after being by

R. J. Pate

| CHARTING NAME | STATE | DESCRIPTION | SIGNAL NAME | POSITION | | | | | | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED | | | |
|---------------|-------------|-------------------------------------|-------------|------------|-----|-------------|-----|-------|---------------------------|------------------|--------------|---------------|----------------|-----------------|--|-----|--|
| | | | | LATITUDE # | | LONGITUDE # | | DATUM | LOCAL POSITION SURVEY NO. | | | | | | | | |
| | | | | D. M. S. | " " | D. M. S. | " " | | | | | | | | | | |
| | Puerto Rico | | | 18 | 27 | 21.92 | 66 | 06 | 295.0 | Puerto Rico | T-11885 | 1965 | X | | | 908 | |
| TOWER | | Airport Control Tower | | 18 | 27 | 67.0 | 66 | 05 | 1631.0 | " | " | " | X | | | 908 | |
| BUILDING | | Long, in open area N.W. corner | | 18 | 27 | 39.23 | 66 | 05 | 1513.0 | " | " | " | X | | | 908 | |
| BUILDING | | 25 M. wide. 119m. long. N.E. corner | | | | | | | | | | | | | | | |

J. C. Bull, Director, Atlantic Marine Center

OFFICER

Chief of Party

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22, and 23-25. Positions of charted landmarks and non-light aids to navigation shall be reported on this form. Revisions shall show both old and new positions. This data should be considered for the charts of the area by individual field survey sheets. Information under each column heading shall be filled in.

* TABULATE 5-66

14
FORM 1625-02 1625-02

TIDE COMPUTATION

PROJECT NO. Ph. 21415 T. 11885

Time and date of exposure 17 Feb. 64 Reference station San Juan, Puerto Rico Mean range 1.1
 Date of field inspection Subordinate station Ratio of ranges 1.3

| | Time | | Height feet | Height x Ratio of ranges | Time | |
|-----------------------------|------|----|----------------|-----------------------------|------|----|
| | h. | m. | | | h. | m. |
| High tide | 11 | 37 | 1.0 | | | |
| Low tide | 18 | 01 | -0.4 | | | |
| Duration of rise or fall | 6 24 | | 1.4 | | | |

| | h. | m. | Ht. H.T. or L.T. Tabular correction Stage of tide above MLW | feet | Feature bares Stage of tide above MLW Feature above MLW | feet | Feature bares Stage of tide above MLW Feature above MLW | Photo. No. |
|--|----------------|-----|---|---------------------|---|---------------------|---|------------------------------------|
| | | | | | | | | |
| Time H.T. or L.T. Required time Interval | 18 01 16 12 | 149 | Ht. H.T. or L.T. Tabular correction Stage of tide above MLW | -0.4 0.3 -0.1 | Feature bares Stage of tide above MLW Feature above MLW | -0.4 0.3 -0.1 | Feature bares Stage of tide above MLW Feature above MLW | COLOR 1115,000 64W3140-31-42 |
| Time H.T. or L.T. Required time Interval | 18 01 16 35 | 202 | Ht. H.T. or L.T. Tabular correction Stage of tide above MLW | 1.0 -0.4 +0.6 | Feature bares Stage of tide above MLW Feature above MLW | 1.0 -0.4 +0.6 | Feature bares Stage of tide above MLW Feature above MLW | COLOR 1115,000 64W3140-31-42 |
| Time H.T. or L.T. Required time Interval | 18 01 16 35 | 125 | Ht. H.T. or L.T. Tabular correction Stage of tide above MLW | -0.4 0.2 -0.2 | Feature bares Stage of tide above MLW Feature above MLW | -0.4 0.2 -0.2 | Feature bares Stage of tide above MLW Feature above MLW | COLOR 1110,000 64W3323-25 |

High tide 11 37
 Low tide 18 01
 Range of tide 6 24
 Duration of rise or fall 6 24
 * Used average time of photo series
 Computed by B.H. Barnes Checked by SL
 M-2617-12

FIELD EDIT REPORT
FOR
SHORELINE MAPS T-11884 THROUGH T-11889

The Field Edit Report and the Report on Landmarks are included with the Descriptive Report for T-11884, pages 22 through 32.

- ★ Light - Deleted
- ★ Wreck - Added
- ★ pier in ruins - Correction

REVIEW REPORT T-11885
SHORELINE
November 1966

61. GENERAL STATEMENT

See summary, page 6, of this Descriptive Report.

Examination of the field edit notes on Cronapaque prints 64-W-3220 and 3222, and study of color prints 64-W-3252 through 3256 indicated the field editor's shoreline on the north shore of San Juan to be overgeneralized. Some of these areas were discussed with him, and subsequently the entire shoreline was re-examined. The shoreline departs from the field edit where positive detailed delineation could be done from office interpretation.

The color photographs used during final review were 64-W-3252 through 3256 and 3322 through 3326, all at 1:10,000 scale. The flight lines are on the Comparison Print in brown.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

- Registered Survey No. 4205; 1:20,000; 1921
- " " No. 2487; 1:10,000; 1910
- " " No. 2413; 1: 5,000; 1899 (old datum)

The Comparison Print shows the discrepancies between these Registered Surveys and T-11885. It is noted that the shorelines of all the above surveys are in close agreement when the datum adjustment is made for No. 2413, and their scales are considered. No. 4205 has apparently been used for its offshore reef line, which on Chart 908 encloses the dark green tint used for areas that bare at low water.

The Comparison Print shows discrepancies up to 45 meters in the shoreline of the north coast of San Juan. It is noted that the 1899 shoreline falls offshore of the Field Editor's "rocks awash" and "coral" in the area of largest discrepancy, near longitude 66°07'. No. 2413, No. 2487 and No. 4205 also show an island at latitude 18°28'.15 on the junction of this map and T-11886, which the Field Editor symbolized as a reef and labelled "Co".

Many of the rocks and sunken rocks on No. 2413 and 2487, along the north coast were not visible on either the black and white or the color photographs. They were not noted by the Field Editor, for approval or disapproval.

This map supersedes the listed prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

SAN JUAN, P. R., quad., 1:20,000, 1939-40 Revised 1957.

There are discrepancies, to 20 meters, in the north shoreline of San Juan.

The position of Isla Grande Light, and the shoreline in the vicinity, are 50 meters north of their position on this map. Please see the Comparison Print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

BOAT SHEET H-8848 (EX-5-2-65), 1:5,000, 1965

BOAT SHEET H-8849 (EX-5-2-65), 1:5,000, 1965

Registered Survey 4205, 1:20,000, 1921

The east limits of H-8848 are at longitude $66^{\circ}07'$ along the north coast of San Juan. The shoreline on Boat Sheets 8848 and 8849 is superseded by this map.

Registered Survey 4205, 1:20,000, 1921 is the latest hydrographic survey provided along the north coast west of longitude $66^{\circ}07'$ to this map limit. Its shoreline appears to be a reduction of No. 2413 and/or No. 2487, see Item 62.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 908, 1:10,000, 24th Edition of November 8, 1965, revised September 12, 1966.

See Item 62 and the Comparison Print for sunken rocks, reefs, rocks and islands on Chart 908 and not on T-11885.

The Comparison Print shows some discrepancies, up to 40 meters, on the north shoreline of San Juan. Registered Survey No. 2413 (1:5,000, 1899) is apparently the source for this shoreline.

There are some discrepancies in size and position of buildings in the vicinity of latitude $18^{\circ}27'.8$, longitude $66^{\circ}07'$.

The marine railway and "piers in ruins" near latitude $18^{\circ}27'.77$ longitude $66^{\circ}06'.95$ were not noted by the field editor, no evidence is visible on black and white photographs 64-W-3219 through 3221. Clouds hide the area on color photographs 64-W-3140 and 3141.

Aids to navigation were not identified in the field and were not compiled.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests have been run in the field. This map meets the National Standards of Map Accuracy and Bureau requirements.

Approved by:

Reviewed by:

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Director, Atlantic Marine Center

M. M. Slavney
M. M. Slavney

Charles Lunn *65*
Chief, Photogrammetric Branch

J. Ralph Sobivalski
Chief, Photogrammetry Division

Wallace A. Bruder, for
Chief, Marine Chart Division

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NOTES TO VERIFIER
T-11885 Project 21415 (Ph-6403)
BOAT SHEET No. H-8848 (EX-5-1-65) & H-8849 (EX-5-2-65)

Please see the Comparison Print and Items 61, 62, 64, and 65
of this report.

