11890

11890

Diag. Cht. No. 903.

Form 504

U. S, DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)

Field No. Ph-6403 Office No. T-11890

LOCALITY

State Puerto Rico

General locality San Juan to Loiza Aldea

Locality Punta Las Marias

19 64-66

CHIEF OF PARTY

J. Bull, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE Sept. 8, 1967

USCOMM-DC 5087

| • | REPORT - DA γ - 1189 | | |
|--|--|---|------------------|
| ROJECT NO. (II): | <u>. </u> | | |
| JOB PH-6403 | | | |
| IELD OFFICE (II): | | CHIEF OF PARTY | |
| | | | |
| HOTOGRAMMETRIC OFFICE (III): | | OFFICER-IN-CHARGE | |
| Atlantic Marine Center | | J.Bull,Director,At | Lantic Marine Ce |
| STRUCTIONS DATED (II) (III): | | | |
| September 22, 1964 | | | |
| | | | |
| November 17, 1964 | | | |
| | | | |
| | | | |
| | | | |
| ETHOD OF COMPILATION (III): | | | |
| Kelsh | | | |
| ANUSCRIPT SCALE (III): | STEREOS | COPIC PLOTTING INSTRUMENT | SCALE (III): |
| 1:10,000 | 1:6,0 | 00 pantographed to 1: | 10,000 |
| ATE RECEIVED IN WASHINGTON OFFICE (IV): | DATE RE | PORTED TO NAUTICAL CHART | BRANCH (IV): |
| , | | | |
| PPLIED TO CHART NO. | DATE: | DATE RI | EGISTERED (IV): |
| ! | | | |
| EOGRAPHIC DATUM (III): | | VERTICAL DATUM (III): | MHW |
| Puerto Rico | | MEXICALXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | |
| | | Elevations shown as (25) refe Elevations shown as (5) refe | - · |
| | | · — | |
| | | i.e., mean low water or mean | lower low water |
| | | i.e., mean low water or mean | lower low water |
| | | i.e., mean low water or mean | lower low water |
| EFERENCE STATION (III): | · | i.e., mean low water or mean | lower low water |
| | | | lower low water |
| . PUERTO RICO INTERNATIONAL AIRE | PORT ARP, 19 | 962 / | lower low water |
| . PUERTO RICO INTERNATIONAL AIRE | | | lower low water |
| PUERTO RICO INTERNATIONAL AIRS 18°26'48".047(1,477.2m) 66°00'07".352(| | ADJUSTED UNADJUSTED | |
| AT.: LONG.: | 215.7m) | P62 ADJUSTED | Z ONE |

FORM C&G5-1816

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD FIELD INSPECTION BY (II): DATE: None MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Dates of photographs Pelseurry 18, 1964 Air Photo Compilation Date of Photography February 17, 1964 PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree November 1964 PROJECTION AND GRIDS CHECKED BY (IV): DATE P. Hawkins November 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 B. Wilson September 1965 CONTOURS Inapplicable MANUSCRIPT DELINEATED BY (III): DATE B. Wilson October 1965 SCRIBING BY (III): PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE R. J. Pate December 1965 REMARKS:

Field Edit R. S. Tibbetts April 1966

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

DESCRIPTIVE REPORT - DATA RECORD

| Ĺ | | | | | |
|----|------|-------|----|---------|-------|
| CA | MERA | (KIND | OR | SOURCE) | (111) |

| | PHOT | OGRAPHS (III) | | | | |
|---------------------------|-----------------------------|---------------|------------|-----------------|---------------|---------------|
| NUMBER | DATE | TIME | SCALE | ST | AGE OF TI | DE |
| 64-W-3199 3200 3201 | Feb.17, 1964 | 15 1 5 | 1:30,000 | 0.2 at | • | |
| | | | · | | | |
| | | TIDE (III) | Predicted | RATIO OF RANGES | MEAN RANGE | SPRIN RANG |
| REFERENCE STATION: | SAN JUAN, FUERTO R | ICO | | | 1.1 | 1.1 |
| ORDINATE STATION: | | | | | | |
| UBORDINATE STATION: | | | | | | |
| Atlantic Marine C | enter ew BY (IV): M. NO. | SLAVA | IEY | DATE: | · 8. / | 947 |
| PROOF EDIT BY (IV): | | | | DATE: | | |
| NUMBER OF TRIANGULATION | ON STATIONS SEARCHED FOR (| п): | RECOVERED: | IDENTIFIE | D: | |
| IUMBER OF BM(\$) SEARCH | ED FOR (II): None | | RECOVERED: | IDENTIFIE | D | |
| UMBER OF RECOVERABLE | PHOTO STATIONS ESTABLISH | IED (III): No | ne | - | | ····- |
| · · · | | | | | | - |

USCOMM-DC 36393C-P65

T-11890

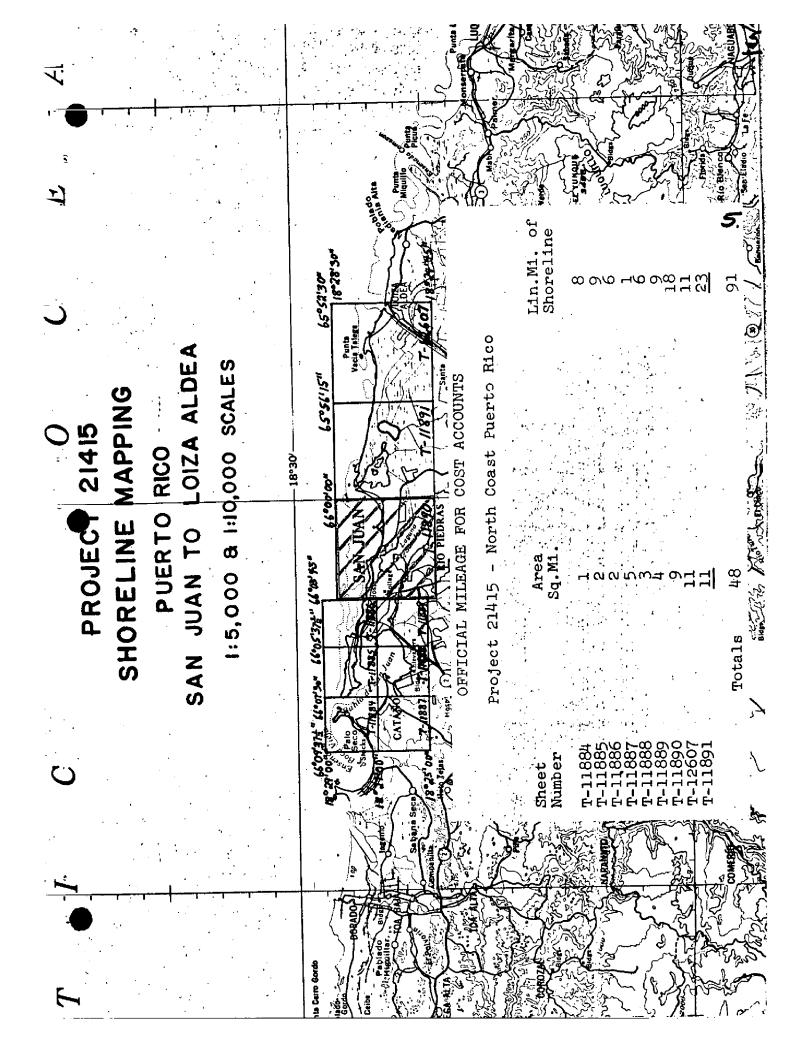
COMPLIATION RECORD

COMPLETION DATE

REMARKS

| A financia provincia de cambra de la company de company de la company de | n ann an Cairle agus agus agus an Cairle agus an Cairle agus agus agus agus agus agus agus agus | Construction of the Construction was a province of the Construction of the Constructio |
|--|---|--|
| Alongshore detail for hydro | Jan. 1966 | , |
| Field Edit applied Manuscript complete | June 1966 | |
| iger digt oppsvort vor "negrend) med anner stadien intergreg sport megap dengtivelikelik intel All Stadientysographenism i dit stadientil vir stadientil kan bet | go marrian a technique entre o Marriada e Alta (Marco de Seculiar Englanda e | SERVICE CONTRACTOR CON |
| ag agyagangkagkagkagkag AAD solatingya gag dii ayaja mandandii Aladan dii ATD ag agyata kaphinii ili. "AAAD solatinii dii aya gag dii ayaja mandandii Aladan dii ATD ag agyata kaphinii ili. "AAAD solatinii dii aya | ation og som jamelykkeligerikenskelsen i lättikeri 1904 kapa-nyktysyd 7945/ca. | omigan) ja mja Malanda Ali Stanovining gyyrigina na a matempiini sin ali na 1900 (1904) in Olembaya, inademba |
| 大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大 | NTINGING THE ANGENING WITHOUT CONTROL TRANSPORTED | DE CENTER FOR THE THE THE THE SHELL AND SHELLING |
| A ARTERIA AND AND THE PROPERTY OF THE PROPERTY | CC of Till North Park 1985 Acquire Maria II. Correspondentes | errengativitetarun 1550 filoloogiaksi alkandiliitten kiriki tertiki VPARP Chamma avatikki |
| | | ingisis je liikaliinin dieleksiska ja |

÷



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-11890

Shoreline manuscript T-11890 is one of three 1:10,000 scale maps in Ph-6403 (San Juan to Loiza Aldea, Puerto Rico, which also contains six 1:5000 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.

FORM **164** (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

PROJECT NO. 21415

MAP T. 11890

CONTROL RECORD

COAST AND GEODETIC SURVEY

SCALE FACTOR SCALE OF MAP 1:10,000

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM-DC-57843 (BACK) FORWARD DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD DATUM (605.3) OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (780.5)(BACK) FORWARD 980.1 874.6 1673.4 7.907 864.8 567.2 861.9 567.1 215.7 1477.2 1239.3 1634.5 LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE 55.700 66° 001 07.352 180 261 40,310 66° 02° 24.080 66 00 19.328 66 00 19.326 180 261 48.047 107°EE 160 999 180 251 54.430 18° 26' 28.130 18° 26' 28.035 18° 26° 28.1449 y= 224,858.84 635,993.57 00 ₉₉ DATUM Puerto Rico = == = = = = AIRPORT BEACON, G.P. 183

FUEHTO RICO INTERNATIONAL AIRPORT,
SAN JUAN, 1962
PUETTO RICO INTERNATIONAL
AIRPORT CONTROL TOWER, G.P. 183
ELAGROLE, 1962 SOURCE OF NFORMATION SAGREDO CORAZON,G.P.132 PUERTO RICO INTERNA-G.P.183 TIONAL AIRPORT FUERTO RICO INTERNA-G.P.183 TIONAL AIRPORT AP STA A, 1962 G.P.150 Photo-Stat Bridge (INDEX) SPIRE (USGS), 1 FT. = .3048006 METER CUMBRE, FLAG (USGS), 1939 STATION ROIG, 1964 ARP, 1962

DATE.

CHECKED BY:

DATE

COMPUTED BY:

Supplement to
Photogrammetric Plot Report
Project 21415
Puerto Rico
December 1964

21. Area Covered

This report covers an area of the northern coast of Puerto Rico, east of 66° 03' 45", from Punta Las Marias to Punta Uvero.

22. Methods

Analytic aerotriangulation methods were used; to obtain instrument values $(x-y-z^8)$ for two field reidentified and one office identified control stations. The attached sketch shows both field and office identified control used in the adjustment of this final portion of strip #1. Closures to control have been tabulated, as have the junctions to control used previously to adjust strip #1, west of 66° 03' 45".

23. Adequacy of Control

Horizontal control as reidentified and required is adequate. The three sheets (T-11890, T-11891 and T-12607) can now be compiled to meet National Standards of Map Accuracy.

24. Supplemental Data

None

25. Photography

As stated in the prior report photography is adequate in all aspects.

Respectfully submitted:

George M. Ball

Approved and Forwarded

Henry P(/Eichert

Acting Chief, Aerotriangulation Section

Puerto Rico Strip #1

UVERO, 1964

 $\vec{a} = -1$

SS #2 (+0.6 -0.7) SS #3 (-8.8 +2.1)

TELEGAS RM #1, 1964

(+2.2 +2.5)

CANGREJO, 1964

SS #1 (+12.7 +5.0) Qustionable Pt. SS #3 (-2.3 --1.2) SS #4 (+3.0 +6.7)

AIRPORT BEACON, INTL. AIRPORT, 1962 (office identified)

(-3.2 -4.5)

ROIG, 1964

SS #1 (+3.7 +3.8) (0.9 +0.3) SS #2 (-2.2 +2.5) (6.7 -0.6)

SHERATON, 1964

SS #1 (+5.3 -1.0) (-0.3 +4.0) SS #2 (+1.8 +3.1) (-3.3 -0.1)

POWER HOUSE STACK, 1939 (office identified)

1st run
(-2.5 -5.4) (4.4 -3.7)

PIER, PAA, 1961

(SS #1 (-1.4 -3.9) (-3.5 -0.9) SS #2 (-2.1 -2.3) (4.2 +0.0)

A FIELD IDENTIFIED TRIANGULATION

\$ OFFICE IDENTIFIED

O 1:30,000 SCALE

11.

COMPILATION REPORT T-11890

The Photogrammetric Plot Report is submitted with this report.

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 SURVEY

None.

39. JUNCTIONS

Junctions are in agreement with T-11891 to the east and T-11899 (1:5,000 scale) to the west. 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 SAN JUAN, 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 Cartographer

Approved and forwarded:

J. Bull, CAPT, USESSA

Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN *

ISLA PIEDRA

ISLA VERDA

LLORENS TORRES

LAGUNA LOS COROZOS

OCEAN PARK

PTA EL MEDIO

PTA EL MARIAS

PUERTO RICO INTERNATIONAL AIRPORT *

SAN JUAN

SANTA TERSITA

VILLA MAR

* Not on name list of A. J. Wraight

GEOGRAPHIC NAMES Ph 21415 Puerto Rico

Atlantic Ocean

T-11890 (shoreline)

* Buena Vista

* Cangrejo Arriba

* Cano de Martin Pena

* Cantera

* Hato Rey Central

* Huyke

* Isla Guachinanga

Isla Piedra

Isla Verda

* Laguna San Jose

* Las Casas

Llorens Torres

* Los Angeles

* Martin Pina

*Monte Flores

Laguna Los Corozos

* * Municipio de Carolina

* * Municipio de San Juan

* Obrero

Ocean Park

* Oriente

Pta El Medio

Pta Las Marias

* Quebrada Juan Mendez

* Quebrada San Anton

San Juan

*San Jose

Santa Teresita

*Santurce

* Valencia

Villa Mar

* Sabana Abajo

A. J. Wraight

Geographic Names

a. J. Wranght

* OUTSIDE DELINEATION LIMITS.

* * FERTURE NOT DELINEATED NAME NOT USED.

T-11890

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 | | | U. | S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY |
|---|---------------------|---|--|--|
| | PHO | | RIC OFFICE REVIEW | F. |
| | | . TXT. | 10363 T-11890 | · |
| 1. PROJECTION AND GRIDS | 2. TITLE | | 3. MANUSCRIPT NUMBERS | 4. MANUSCRIPT SIZE |
| RJP | RJP | | RJP | RJP |
| CONTROL STATIONS | | | | |
| 5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A | TIONS OF CCURACY | 6. RECOVER AS OF LESS TH (Topographic | BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY | 7. PHOTO HYDRO STATIONS |
| RJP | | (Topographic | XX | XX |
| 8. BENCH MARKS | 9. PLOTTING C | FSEXTANT | 10. PHOTOGRAMMETRIC PLOT REPORT | 11. DETAIL POINTS |
| XX | XX | | Bridge (WSC) | Kelsh |
| ALONGSHORE AREAS (Nautical | | | | |
| 12. SHORELINE | 13. LOW-WATER | RLINE | 14. ROCKS, SHOALS, ETC. | 15. BRIDGES |
| RJP | XX | | RJP | XX |
| 16. AIDS TO NAVIGATION | 17. LANDMARK | S | 18. OTHER ALONGSHORE PHYSICAL FEATURES | 19. OTHER ALONGSHORE CULTURAL FEATURES |
| XX | XX | | RJP | RJP |
| PHYSICAL FEATURES | | | | |
| 20. WATER FEATURES | | 21. NATURAL | GROUND COVER | 22. PLANETABLE CONTOURS |
| RJP | Tot governo | <u> </u> | WP | XX |
| INSTRUMENT CONTOURS | 24. CONTOURS | IN GENERAL | 25. SPOT ELEVATIONS | 26. OTHER PHYSICAL FEATURES |
| XX | X | X. | XX | . RJP |
| CULTURAL FEATURES | T20 | | 1-86 | 130 |
| 27. RO ADS | 28. BUILDINGS | i | 29. RAILROADS | 30. OTHER CULTURAL FEATURES |
| RJP | RJP | | XX | RJP |
| BOUNDARIES 31. BOUNDARY LINES | | | 32, PUBLIC LAND LINES | |
| XX | | | l xx | |
| MISCELLANEOUS | | | | |
| 33. GEOGRAPHIC NAMES | | 34. JUNCTIONS | | 35. LEGIBILITY OF THE MANUSCRIPT |
| RJP 36. DISCREPANCY OVERLAY | 37. DESCRIPTI | | RJP 138. FIELD INSPECTION | RJP 39. FORMS |
| | | 12 1121 0111 | PHOTOGRAPHS | 37, FORM3 |
| XX | RES | | XX | RJP |
| 40. REVIEWER R.J. Pate | | | SUPERVISOR, REVIEW SECTIO | |
| RJP | | · · · · · · | ACR Albert C. | Rauch, Jr. |
| 41. REMARKS (See attached shee FIELD COMPLETION ADDITION | | TIONS TO THE M | ANUSCOIDT | |
| | furnished by th | e field completi | ion survey have been applied to | the manuscript. The manu- |
| Lowell O. nete | ies.h. | | SUPERVISOR | |
| LON | | | ACR albert C. | Rauch J. |
| 43. REMARKS | | | | <i>(</i>) |
| | | | | |
| | | | | |
| | | | | |

TIDE CO UTATION

PROJECT NO. Ph-2/> 5 T. 1/890

Time and date of exposure 1515 Feb. 17,1964 Reference station 500 July Public 1815

1,3 Mean range 2,1

Date of field inspection

Subordinate station _

Ratio of ranges ___

37 Ä. 6.04 Time Duration of rise or fall High tide Low tide

| | Height | Height x Ratio | |
|--------------|--------|----------------|-----------|
| | feet | of ranges | |
| igh tide | 0.1 | 011 | Ξ |
| ow tide | -0.4 | -0.4 | Ē |
| ange of tide | | 1.4 | ပြိတ် |
| | | | |

| | Time | |
|------------------------|-------|--------------|
| | h. m. | |
| High tide at Ref. Sta. | | Low tide at |
| Time difference | | Time differe |
| Corrected time at | | Corrected ti |
| Subordinate station | | Subordinate |
| | | |

| | | Low tide at Ref. Sta. | Time difference | Corrected time at Subordinate station |
|------|-------|-----------------------|-----------------|--|
| Time | h. m. | | | |

| | ъ. П. | | feet | | feet | Photo. No. |
|--|----------------------|---|------|---|------|-------------------------------------|
| Time Rad. or L. T. Required time Interval | 18 01 1515 246 | 出述的知 or L. T. Tabular correction Stage of tide above MLW | 0.00 | Feature bares Stage of tide above MLW Feature above MLW | | 64 w 3199 64 w 5200 64 w 3201 |
| Time H. T. or L. T. Required time Interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |
| Time H. T. or L. T. Required time Interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | , | |
| Time H. T. or L. T. Required time Interval | | Ht, H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |
| Time H. T. or L. T. Required time Interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |
| Time H. T. or L. T. Required time | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | ,, | Feature bares Stage of tide above MLW Feature above MLW | | |

Computed by A. Landillan

Checked by 7/1-4 Deny 6

M-2617-12

(out with short - check when notioned

TIDE CO UTATION

PROJECT NO. Ph.

187

Reference station __ Law from _ Leavite Rico

Subordinate station

Nore

Date of field inspection

Time and date of exposure

Feb. 17,1964

3311 = 1633

Spring 1.3

Ratio of ranges

Time

Time Low tide Duration or fall High tide

| | Height | Height x Ratio |
|---------------|--------|----------------|
| | feet | of ranges |
| High tide | 0.1 | 0 1 |
| Low tide | 4.0- | 4.0- |
| Range of tide | | 1.4 |
| | | |

| <u>.</u> | | Time | |
|----------|------------------------|------|-------------------|
| | | h. | |
| | High tide at Ref. Sta. | | Low tide at Ref. |
| | Time difference | | Time difference |
| | Corrected time at | | Corrected time a |
| | Subordinate station | | Subordinate stati |
| 1 | | | |

| | | | | 1 | _ | | | | |
|-----------|-------|---------------|--------------|-----------|--|---------------|--|---------------|--------|
| | Ë. | | feet | of ranges | | .t. | | h. m. | |
| Je Je | 11 37 | High tide | 0:1 | 1.0 | High tide at Ref. Sta. | . Sta. | Low tide at Ref. Sta. | a. | |
| 9 | 1031 | Low tide | 4.0- | 4.0- | Time difference | | Time difference | | - (|
| n of rise | 46 34 | Range of tide | | 1.4 | Corrected time at Subordinate station | it ion | Corrected time at Subordinate station | | |
| | | | | | | | | | |
| | | ë. | | | feet | | feet | Photo. No. | i |
| or L | | 10 81 | ATTENT OF L. | or L. T. | 7.0.7 | Feature bares | | (3) 2188 m 69 | \sim |

| | Ę | | feet | | feet | Photo. No. |
|--|-------|---|------|---|------|---|
| Tige or L. T. Required time | 10 87 | RESERT. or L. T. Tabular correction Stage of tide above MLW | 7.00 | Feature bares Stage of tide above MLW Feature above MLW | | 64 67 3 3 12 (6) 3 3 12 :- 3 3 15 :- 8 3 15 :- |
| Time H, T. or L, T. Required time Interval | | Ht, H. T. or L, T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | 3317 · 3916 · |
| Time H. T. or L. T. Required time interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |
| Time H. T. or L. T. Required time Interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |
| Time H. T. or L. T. Required time Interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |
| Time H. T. or L. T. Required time Interval | | Ht. H. T. or L. T. Tabular correction Stage of tide above MLW | | Feature bares Stage of tide above MLW Feature above MLW | | |

M-2617-12

Computed by A. Land Checked by - 1/2-

FIELD EDIT REPORT

PROJECT Ph 6403 SAN JUAN, PUERTO RICO

51. The field edit on this project was accomplished from shore. No.off-shore inspections by boat were made, however buildings were checked from the Ship WHITING during the trips from Vieques to San Juan. For the most part the shore line is paralleled by a road and inspection was accomplished via the road and a rented automobile.

All questions were answered as completely as possible on the discrepancy prints. In several cases the field editor was asked to verify coral limits. A light plane was rented in San Juan in an effort to comply with this request with the conclusion that only verification of the images could be made; the actual limits must wait on the hydrographic survey.

An attempt was made to photo identify Caballo Channel Front and Rear Range. When these aids could not be located by photogrammetric methods, the Commanding Officer of the WHITING determined that since they are private aids and in a poor state of repair (very close together and both were leaning) the location on previous photography in 1965 was likely adequate and if not could be located by the hydrographer. All notes on the photographs and discrepancy prints have been made in purple ink and properly cross referenced.

52. Adequacy of Compilation.

These maps are adequate for the transfer of shoreline and location of signals on hydrographic survey sheets.

53. Map accuracy.

No horizontal or vertical accuracy tests were made. The maps appear to be accurate so far as could be determined by a visual inspection.

54. Recommendations.

None.

55. Examination of Proof Copy.

No local contacts were made to examine proof copy of these maps.

Respectfully submitted:

Robert S. Tibbetts

RST/jrb

Approved and Forwarded:

James P. Randall, LCDR, USESSA Commanding USC&GS Ship WHITING

REVIEW REPORT T-11890 SHORELINE February 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

A Comparison Print (ozalid) showing the differences noted in Items 62 and 63 is enclosed with the original of this report. The flight lines of the color photographs are shown in brown.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey No. 4205; 1:20,000; 1921

The Comparison Print shows these differences:

- 1. Rocks awash, in the vicinity of latitude 18°27.5° from longitude 66°02.55° to longitude 66 03.05° on this map were tentatively identified and positioned during compilation from the B & W and the color photographs. They were corroborated by the Field Editor upon request. These rocks do not appear on Survey 4205 or the previous plane-table survey of the area. Reg. No. 2581, 1:20,000, 1902, or Chart 903.
- 2. Shoreline changes, receding and advancing, of up to 70 meters have occurred.
- 3. Changes in the size and shape of Isla Piedra, latitude 18°28.05' longitude 66°02.75'; and Isla Verde, latitude 18°27.03' longitude 66°01.04'.
- 4. Survey 4205 shows a danger area, reef and sunken rocks near Pta El Medio, around Isla Verde. It is believed that the limits of this area may be more accuratley definted on T-11890 than on Survey 4205. B & W photographs 64-W-3197, 3199 and 3200 and color photographs 64-W-3312 thru 3314 were used, which show the lagoon between the shoreline and the area labelled "Foul with rocks", just east and north of Pta El Medio.

- 5. The danger areas, sunken rocks, reefs, and rocks awash shown on Survey 4205, excepting those noted in paragraph 3, could not be seen on the B & W photographs as anything but breakers. Color photographs 64-W-3260 thru 3267 cover these areas but questionly occasional views of the bottom and these photographs could not be fixed.
- 6. Rocks at latitude 18°28.22' longitude 66°03.36' on this map are just south of what is probably the same rock on Survey 4205.

T-11890 supersedes registered survey 4205 for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

San Juan, P. R., U.S.G.S., quad; 1:20,000; 1939-1940 revised 1957.

The planimetry of the quadrangle and this survey are in fair agreement. The hydrographic details, including danger areas, reefs, sunken rocks and rocks awash are from Chart 903, which appears to be from Reg. Survey 4205, see Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None.

65. COMPARISON WITH NAUTICAL CHARTS

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

Registered Survey 4205 (see Item 62) is apparently the source for the danger areas, reefs, sunken rocks, rocks awash and other offshore details on the chart. The same differences listed in Item 62 between Survey 4205 and T-11890 also exist between Chart 903 and T-11890.

The chart shoreline differs by as much as 80 meters which is not a surprise, considering the 10% enlargement of the chart to T-11890 scale.

No Form 567 was submitted by the field party for the aero beacon at Puerto Rico International Airport.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests were run in the field. The map meets the National Standards of Map Accuracy and Bureau requirements.

Approved by:

Reviewed by:

Director, Atlantic Marine Center

Approved by:

Photogrammetre

Wallace a. Brusler Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER T-11890 Project 21415 (Ph-6403) BOAT SHEET No. No contemporary survey in Feb. 1967

See Items 62 and 65 of the Descriptive Report and the Comparison Print. $\,$

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

T-11890

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. Fernaudens | Bath Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| | | | |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| <u> </u> | | | Drawing No. |
| | . | | Diawing 110. |
| ·· | | <u></u> | Full Dan Dafor, Africa Vicinia, D. C. C. Lar |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| · · · · · · · · · · · · · · · · · · · | . . | - 10.000 | |
| | | | 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. |
| | | <u> </u> | Diawing 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 |
| | | | Drawing No. |
| - | | | |
| | | | Full Part Before After Verification Review Inspection Signed Via |
| | | | Drawing No. |
| | | | Diawing No. |
| | | | <u> </u> |
| | | | |
| | | | <u></u> . |
| | | | |
| | | | |
| | | | |
| | <u>.</u> | ····· | |
| | | | |
| | | | <u> </u> |