13139

FORM C&G-564
U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)
Field No. Office No. T-13139

LOCALITY
State Puerto Rico
General locality Southwest Coast
Locality Cayo Parguera

1966-7D
CHIEF OF PARTY
Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES
DATE
DESCRIPTIVE REPORT - DATA RECORD
T-13139

PROJECT NO. (iii):
PH-6708

FIELD OFFICE (iii):
None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (iii):
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE
Alfred C. Holmes, Director

INSTRUCTIONS DATED (iii): (iv):
OFFICE - Nov. 14, 1967
OFFICE - SUPPLEMENT 1 - Nov. 4, 1968
OFFICE AMENDMENT 1 Dec. 9, 1968

METHOD OF COMPILATION (iii):
Wild B-8 Plotter

MANUSCRIPT SCALE (iii):
1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (iii):
1:2500 Pantographed To 1:5000

DATE RECEIVED IN WASHINGTON OFFICE (iv):

DATE REPORTED TO NAUTICAL CHART BRANCH (iv):

APPLIED TO CHART NO.:

DATE:

DATE REGISTERED (iv):
JUL 1975

GEOGRAPHIC DATUM (iii):
Puerto Rico

VERTICAL DATUM (iii):
Mean High Water

EXCEPT AS FOLLOWS:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

REFERENCE STATION (iii):
Cave 2, 1966

LAT.:
17° 05' 54.14686" 1664.6M

LONG.:
66° 41' 55.62179" 1636.4M

ADJUSTED

UNADJUSTED

PLANE COORDINATES (iv):

STATE:
Puerto Rico

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.
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<tr>
<th>Field Inspection By (III):</th>
<th>None</th>
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<tr>
<td>Mean High Water Location (III) (State Date and Method of Location):</td>
<td>Air Photo Compilation - Date of Photography - Nov. 15, 16, 1966</td>
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<tr>
<td>Radial Plot or Stereoscopic Control Extension By (III):</td>
<td>T. I. Saperstein Oct. 31, 1967</td>
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<td>Stereoscopic Instrument Compilation (III):</td>
<td>PLANIMETRY By: R. White Feb. 1969</td>
</tr>
<tr>
<td></td>
<td>Reviewed By: A.L. Shands Feb. 1969</td>
</tr>
<tr>
<td></td>
<td>Contours Inapplicable</td>
</tr>
<tr>
<td>Scribing By (III):</td>
<td>C. Woodson 7/12/72</td>
</tr>
<tr>
<td>Photogrammetric Office Review By (III):</td>
<td>Compilation: C.H.Bardo Feb 18/69</td>
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<tr>
<td></td>
<td>Field Edit: R.E.Smith May 1, 1969</td>
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<tr>
<td></td>
<td>Scribing and Stick Up: F. Maniotta 7/ 72 8/72</td>
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<tr>
<td>Remarks:</td>
<td>Field Edit By: R.E. Kesselring March 1969</td>
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Refer to "Summary" page C for field work done in 1970.
**PHOTOGRAPHS (III)**

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<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>66-L-8476 thru 66-L-8479</td>
<td>Nov. 16, 1966</td>
<td>08:58</td>
<td>1:15,000</td>
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**PREDICTIVE (III)**

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<td>SUBORDINATE STATION:</td>
<td>Playa De Ponce, P.R.</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

| Bernard Kurs, AMC | Jan 18, 1973 |

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):**

| 2 |

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

| None |

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

| 2 |

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

| 2 |

**REMARKS:**
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* Two Lts (Ranges) added to map after location by field method in 1970 (refer to Desc. Report "Summary" and Form 76-40). Also two topo stations. GB
OFFICIAL MILEAGE FOR COST ACCOUNTS

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<thead>
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<th>Sheet No.</th>
<th>Sq. Mi.</th>
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<td>T-13129</td>
<td>6</td>
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<td>T-13119</td>
<td>9</td>
<td>T-13130</td>
<td>3</td>
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<td>T-13120</td>
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<td>9</td>
<td>T-13134</td>
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<td>T-13139</td>
<td>3</td>
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<td>T-13140</td>
<td>3</td>
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<tr>
<td>T-13128</td>
<td>9</td>
<td>Total</td>
<td>114</td>
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SOUTH WEST COAST
PUERTO RICO

SHORELINE MAPPING
SCALE 1:5,000 & 1:10,000
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13139

Shoreline survey T-13139 is one of twenty-one similar surveys in project PH-6708. The project is on the south shore of Puerto Rico and extends from Cabo Rojo to Cayo Berberia. This survey covers the eastern part of Cayo Caribe and continues eastward to the easterly end of the Bahia De Tallaboa.

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

Compilation was by B-8 plotter using November, 1966 photography. The compilation was at 1:5,000 scale. (see item 31 of the compilation report) A copy of the incomplete manuscript along with specially prepared photographs were furnished for the preparation of the boat sheet, location of photo-hydro signals and field edit use. The manuscript was a vinylite sheet two minutes in longitude by two minutes in latitude. Two ranges and two topographic stations were added to the manuscript. These were established in 1970 after the 1969 field edit. The positions are unadjusted field computations, and were established by sextant fixes. Final review was at AMC in 1973. A negative and a cronaflex of the final reviewed survey are forwarded for record and registry.
FIELD INSPECTION REPORT

T-13139

Project PH-6708

There was no field inspection prior to compilation of this map.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-6708
Puerto Rico

October 31, 1967

21. Area Covered

This report covers the southwest part of Puerto Rico, consisting of eight (8) 1:10,000 scale T-sheets, T-13118 thru T-13125, and thirteen (13) 1:5,000 scale T-sheets, T-13128 thru T-13140. Photography covering sheets T-13126 and T-13127 was not bridged at this time due to lack of control.

22. Method

Analytic aerotriangulation methods were used to bridge Strip 1, 1:60,000 scale color diapositives, using premarked and office identified control. Numerous tie points were located to control the compilation photography. Strips 3, 5, 5A, 6, 7 and 8 were bridged by analytic methods. Strips 2 and 4 were bridged by stereoplanigraph in order to facilitate the work.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustment. Closures to control are shown for each strip on the IBM readout, along with all bridge points on Puerto Rico plane coordinates.

23. Adequacy of Control

Horizontal control is adequate to control Strip 1. All other strips were bridged using tie points and horizontal control and is adequate.

The premarked paneling at station PAGEN was removed prior to photography and the subpoint could not be identified. It was decided, therefore, to end Strip 1 with photo 66-M-625 and Strip 6 with photo 66-L-8433. However, it is believed that sheet T-13125 can be adequately compiled.

Station GUANICA L.H. 1900 does not have a valid position. Geodesy did not tie to this station during the 1956 work, and no adjustment was made to the new Puerto Rico datum. (Station has been reported destroyed.) The positions shown on Form 725d computed by Geodesy is arbitrary. Therefore, GUANICA L.H. Subpoint 1 and subpoint 2 are unreliable and were not held in the bridge.
It is to be noted that all horizontal control used on this job and the final pass point positions are on the new Puerto Rico Datum. A Xerox copy of triangulation station positions issued by Geodesy is submitted to the Compilation office with this job. Previously published GP’s and plane coordinates should not be used for plotting.

24. **Supplemental Data**

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. **Photography**

The definition and quality of the RC-9 "M" and RC-8 "L" color photography was fair and good respectively. Smoke covers parts of some photographs on Strips 3 and 5A, but should not hinder compilation of the shoreline.

Although sheets T-13137 thru T-13140 are covered by 1:15,000 scale photographs, these photographs were not bridged, nor can they be used for compilation on the plotter because of water areas. Strip 3, therefore, should be used to compile the above sheets.

Ratio prints have been ordered for the 1:30,000 and 1:15,000 scale photographs to compilation scale, on black and white base.

Several points were transferred to ratio print 66-L-8394 in order that a reef on T-13140 may be compiled graphically.

Respectfully submitted

\[Signature\]

I. I. Saperstein

Approved and Forwarded

\[Signature\]

Henry P. Elichert, Chief
Aerotriangulation Section
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT = 304.8006 mm)</th>
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<tr>
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COMPUTED BY: A.C. Rauck, Jr.  DATE: Nov. 18, 1968  CHECKED BY: C. Blood  DATE: Nov. 21, 1968
COMPILATION REPORT

PH-6708

T-13139

31. DELINEATION


In order to use Strip 3 to compile T-13137 thru T-13140, it was necessary to plot controls and compile on worksheets at 1:6,000 scale and photographically enlarge to 1:5,000 scale (see Amendment I. to office instructions, dated Dec. 9, 1968).

The enlargement ratio required to compile at 1:5,000 scale from 1:30,000 scale bridge strip 3 with the B-8 plotter was not possible. It was, therefore considered more expedient to compile T-13135 thru T-13140 at 1:6,000 scale, drop shoreline pass points common to both the 1:15,000 photos and the 1:30,000 models, and then enlarge photographically to 1:5,000 scale, at a ratio of 1 = 1.2.

This enlargement was then transferred to the 1:5,000 manuscripts and the 1:5,000 scale ratio prints processed for hydro. support data.

The use of the 1:30,000 scale models from strip 3, enabled the compiler to adequately cover all inshore areas and much of the offshore areas of shoal, coral reefs, small islands and etc., which would not have been possible with the 1:15,000 offshore photos which were not bridged.

The alongshore and shoreline features of the mainland were further refined with the models set utilizing the 1:15,000 scale inshore plates: - 56L(c) 8475 thru 8484.

32. CONTROL


33. SUPPLEMENTAL DATA

None
34. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**

The mean high water line, islands, coral limits, as well as the piers and buildings, were delineated from office interpretation of the photographs.

36. **OFFSHORE DETAILS**

All coral limits, and Islands were delineated from office interpretation.

37. **LANDMARKS AND AIDS**

Appropriate copies of Form 567 have been forwarded to the Washington Office.

38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Junctions are in agreement with T-13136 and T-13138 to the West and T-13190 to the East there are no contemporary surveys to the North or South.
40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle PUNTA CUCHARA, PR; scale 1:20,000, dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 902, South Coast of Puerto Rico, scale 1:100,000, 8th Edition, dated March 15, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

A. L. Shands
Cartographic Technician

Approved:

Alfred C. Holmes
RADM, NOAA
Director, AMC
December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13139

Bahia de Tallaboa
Cayo Caribe
Cayo Parquera
Mar Caribe
Tallaboa

Approved:
A. Joseph Wraith
Chief Geographer

Prepared by:
Charles E. Harrington
Cartographer
49. NOTES FOR THE HYDROGRAPHER:

None
PHOTOGRAMMETRIC OFFICE REVIEW
T. 15139

1. PROJECTION AND GRIDS | 2. TITLE | 3. MANUSCRIPT NUMBERS | 4. MANUSCRIPT SIZE | CHB | CHB | CHB | CHB |

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) | 7. PHOTO HYDRO STATIONS | CHB | XX | CHB | XX |

8. BENCH MARKS | 9. PLOTTING OF Sextant fixes | 10. PHOTOGRAMMETRIC PLOT REPORT | Bridge-W.O. | CHB | CHB |

ALONGSHORE AREAS (Nautical Chart Data)

12. SHORELINE | 13. LOW-WATER LINE | 14. ROCKS, SHOALS, ETC. | 15. BRIDGES | CHB | X | CHB | X |

16. AIDS TO NAVIGATION | 17. LANDMARKS | 18. OTHER ALONGSHORE PHYSICAL FEATURES | 19. OTHER ALONGSHORE CULTURAL FEATURES | None | None | CHB | CHB |

PHYSICAL FEATURES

20. WATER FEATURES | 21. NATURAL GROUND COVER | 22. PLANETABLE CONTOURS | CHB | XX | CHB | XX |

23. STEREOSCOPIC INSTRUMENT CONTOURS | 24. CONTOURS IN GENERAL | 25. SPOT ELEVATIONS | 26. OTHER PHYSICAL FEATURES | XX | XX | XX | X |

CULTURAL FEATURES

27. ROADS | 28. BUILDINGS | 29. RAILROADS | 30. OTHER CULTURAL FEATURES | CHB | CHB | X | CHB |

BOUNDARIES

31. BOUNDARY LINES | 32. PUBLIC LAND LINES | XX | XX |

MISCELLANEOUS

33. GEOGRAPHIC NAMES | 34. JUNCTIONS | 35. LEGIBILITY OF THE MANUSCRIPT | CHB | CHB | CHB |

36. DISCREPANCY OVERLAY | 37. DESCRIPTIVE REPORT | 38. FIELD INSPECTION PHOTOGRAPHS | 39. FORMS | CHB | CHB | CHB |

40. REVIEWER | | | | Charles H. Bishop | 2/18/69 | Albert C. Rauck, Jr. |

41. REMARKS (See attached sheet)

FIELD COMPLETION ADJUSTMENTS 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 | Reviewed By: | Supervisor | Albert C. Rauck, Jr. |
C.H. Bishop | 4/16/69 | Albert C. Rauck, Jr. |
Reviewed By: | R.E. Smith | 5/1/69 |

43. REMARKS

Field Edits Applied From: Field Edit Ozalid, 66-L-(c)-8398 and 8399 (Contacts Prints) 66-L-(c)-8477, 8478, 8479. (Contacts Prints) 66-L-(c)-8477 (Matte Ratio Print)
52. ADEQUACY OF COMPILATION

Compilation was adequate. There were several minor shore line changes. One road was deleted and two others added. The classification was changed on one road. The northerly shore line of Cayo Caribe needs extensive revision. The changes are obvious on the color prints of the area and only general notes were made on the field edit ozalid. A spoil bank, south of the salt evaporators has undergone extensive changes since photography and was delineated by ground survey methods for office compilation. Some small piers were overlooked as were a few small docks. One bluff was added.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPY

Sr. Oscar Padilla, Urb. Estella Box 28, Guayanilla, Puerto Rico, will be happy to examine a proof copy of the map. Sr. Padilla is the senior harbor pilot of Bahía de Guayanilla.

56. GEOGRAPHIC NAMES

The names on this map are correct and complete. The name TALLABOA is perhaps, misplaced. Local authorities on geographic names state that the name, which applies to a village, should be located about a mile to the north west of its present location. The main part of the village of TALLABOA lies just a little west of the junction of Hwy 2 and Hwy 127 and does not fall on T-13139 at all.

Authorities consulted on geographic names are listed below.

1. Sr. Oscar Padilla
   Urb. Estella Box 28
   Guayanilla, Puerto Rico

   Sr. Padilla is the senior harbor pilot of Bahía de Guayanilla and has been a resident for 64 years.
II. Sr. Gilberto Castro Pérez  
Bo Playa  
Guayanilla, Puerto Rico  

Sr. Castro is a boat operator and has been a local resident for nine years.

III. Sr. Daniel Santiago  
Bo Playa  
Guayanilla, Puerto Rico  

Sr. Santiago is a harbor pilot and has been a local resident for three years. He is retired from the U.S. Merchant Service.

IV. Sr. Faustino Allongo  
R.F.D. 2, 639 H  
Ponce, Puerto Rico  

Sr. Allongo is a contractor and has been a local resident and fisherman for twenty years.

V. Sr. Ramon Torres Echevarria  
Ext. Mariani A-110  
Ponce, Puerto Rico  

Sr. Torres is a mechanical engineer and prominent local sports fisherman. He has been a resident for 36 years.

The harbor pilots mentioned above are licensed by the Puerto Rican Pilot Service.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks or fixed aids to navigation within the limits of this map. None of the buildings are suitable for landmarks on chart 902.

58. ROCKS, REEFS, SHOALS AND FOUL AREAS

Rock compilation was good. All the rocks compiled were visited and depths given except in areas where many more sunken rocks were extant than those mapped. Some of the rocks awash actually form part of the reefs where they are located. Most of the sunken rocks falling in the areas labeled "foul" by the field editor.

Reef delineation was good. The "submerged coral reef" to the southeast of Cayo Parguera is part of the "coral reef awash" and falls into the "foul" classification used on other reefs of this nature. Depths and times of
observation were given at typical places on the reefs. Two submerged coral reefs to the southeast of Cayo Caribe were inspected and verified as submerged. They are symbolized on the map manuscript, but it is doubtful if they uncover at the sounding datum. Attention is called to the "shallow" area near the easterly limit of the sheet. This area is, properly, coral awash and appropriate notes were listed on the field edit ozalid.

There are only one or two minor shoals on this map. They were correctly identified and delineated.

59. PHOTOGRAPHY

Photography consisted of 1:5000 black and white copies of color photographs and 1:15,000 and 1:30,000 color contact prints. The photography was good. The color prints were the most useful, but the ratio prints were good where more room was needed for inking shoreline changes and etc.

60. DISPOSITION OF DATA

All data was forwarded to the Photo Branch, Atlantic Marine Center. Copies of Field edit, Form 567's and form 526's were transmitted to the ship Whiting.

Richard E. Kesselring
Surveying Technician
REVIEW REPORT
SHORELINE
T-13139

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

A visual comparison was made with a copy of registered survey No. 2468, 1:20,000 scale dated 1900. Both surveys are in general agreement. Survey T-13139 supersedes the previously registered survey and is to be used for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Punta Cuchar, PR quadrangle, 1:20,000 scale dated 1958. Both are in general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with H-9110, M15-1-70, 1:5,000. Both surveys are in good general agreement.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 928, 1:10,000 scale, dated March 4, 1972. There is only one significant area of difference in the NW corner of the survey. The chart shows a long large pier and a spit which do not appear on the photos. Also the pond near the spit open to the Bay. These differences are noted on the discrepancy print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Bernard Kurs
Cartographer
Approved for forwarding:

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

Approved:

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

Approved:

Chief, Photogrammetric Branch, Chief, Coastal Mapping Division
The following objects have (have not) been inspected from seaward to determine their value as landmarks:

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<th>CHARTING NAME</th>
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<tr>
<td>Ponce Salt Industries, Inner Harbor Range, Front</td>
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<tr>
<td>Ponce Salt Industries, Inner Harbor Range, Rear</td>
</tr>
<tr>
<td>Ponce Salt Industries, Harbor Approach Range, Front</td>
</tr>
<tr>
<td>Ponce Salt Industries Harbor Approach Range, Rear</td>
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**DATUM**: Puerto Rico

**DATE**: 31/18/72

**ORIGINATING LOCATION**: NOS Atlantic Marine Center

**METHOD AND DATE OF LOCATION**

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<th>SURVEY NUMBER</th>
<th>DATUM</th>
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<td>T-13139</td>
<td>Puerto Rico</td>
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**LATITUDE** | **LONGITUDE**

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