

13136

13136

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. Office No. T-13136

LOCALITY

State Puerto Rico

General locality Southwest Coast

Locality Bahia De Tallaboa

1966-1970

CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

I-13136

OBJECT NO. (II): PH-6708		
FIELD OFFICE (II): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA		OFFICER-IN-CHARGE Alfred C. Holmes, Director
INSTRUCTIONS DATED (III) (III): 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): 1:2,500 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): JUN 1975
GEOGRAPHIC DATUM (III): Puerto Rico		VERTICAL DATUM (III): MEAN LOW WATER HIGH 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): Turn 2, 1966		
LAT.: 18°00'12.60435" 387.5M	LONG.: 66°45'34.29368" 1008.8M	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = 61,889.74 Ft. x = 386,662.64 Ft.		STATE Puerto Rico
		ZONE 1
MAN 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

T-13136

FIELD INSPECTION BY (III):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation - Date of Photography - Nov. 15, 16, 1966		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Bethea		Oct. 11, 1968
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
L. F. Van Scoy		Oct. 17, 1968
CONTROL PLOTTED BY (III): Aerotriangulation Points: - J. Steinberg Triangulation Stations: - A. C. Rauck, Jr.		DATE Nov. 8, 1968 Dec. 3, 1968
CONTROL CHECKED BY (III): Aerotriangulation Points: - V. E. Serena Triangulation Stations: - B. Wilson		DATE Nov. 8, 1968 Dec. 3, 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
I. I. Saperstein		Oct. 31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8	PLANIMETRY By: R. White Reviewed By: A. L. Shands	DATE Dec. 12, 1968 DATE: Dec. 12, 68
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A. L. Shands		DATE Feb., 1969
SCRIBING BY (III): R. R. White		DATE Sept., 1971
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: C.H. Bishop Field Edit: R.J. Pate Scribing and Stick Up: B. L. Barge		DATE 2/17/69 March, 1971 10/5/71
REMARKS: Field Edit: - A. C. Rauck, Jr. Additional corrections from ratio Photo's (70-E-6068 thru 70-E-6070)		DATE: March, 1969 March, 1971 R.J.P.

DESCRIPTIVE REPORT - DATA RECORD

T-13136

MERA (KIND OR SOURCE) (III):

U.S.C. & G.S. Types "L" & "M" Wild RC-8 & RC-9

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
66-L-8479 thru 66-L-8481	Nov. 16, 1966	08:58	1:15,000	0.57 above MLW
70-E-6068 thru 70-E-6070	March 5, 1970	09:38	1:15,000	0.45 above MLW

PREDICTED TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	MEAN RANGE
REFERENCE STATION: Galveston, Texas			1.4
SUBORDINATE STATION: Playa De Ponce, P.R.	0.57		0.4
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC

DATE:
Jan. 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 7

RECOVERED:
7IDENTIFIED:
1

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

None

RECOVERED:
NoneIDENTIFIED
None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

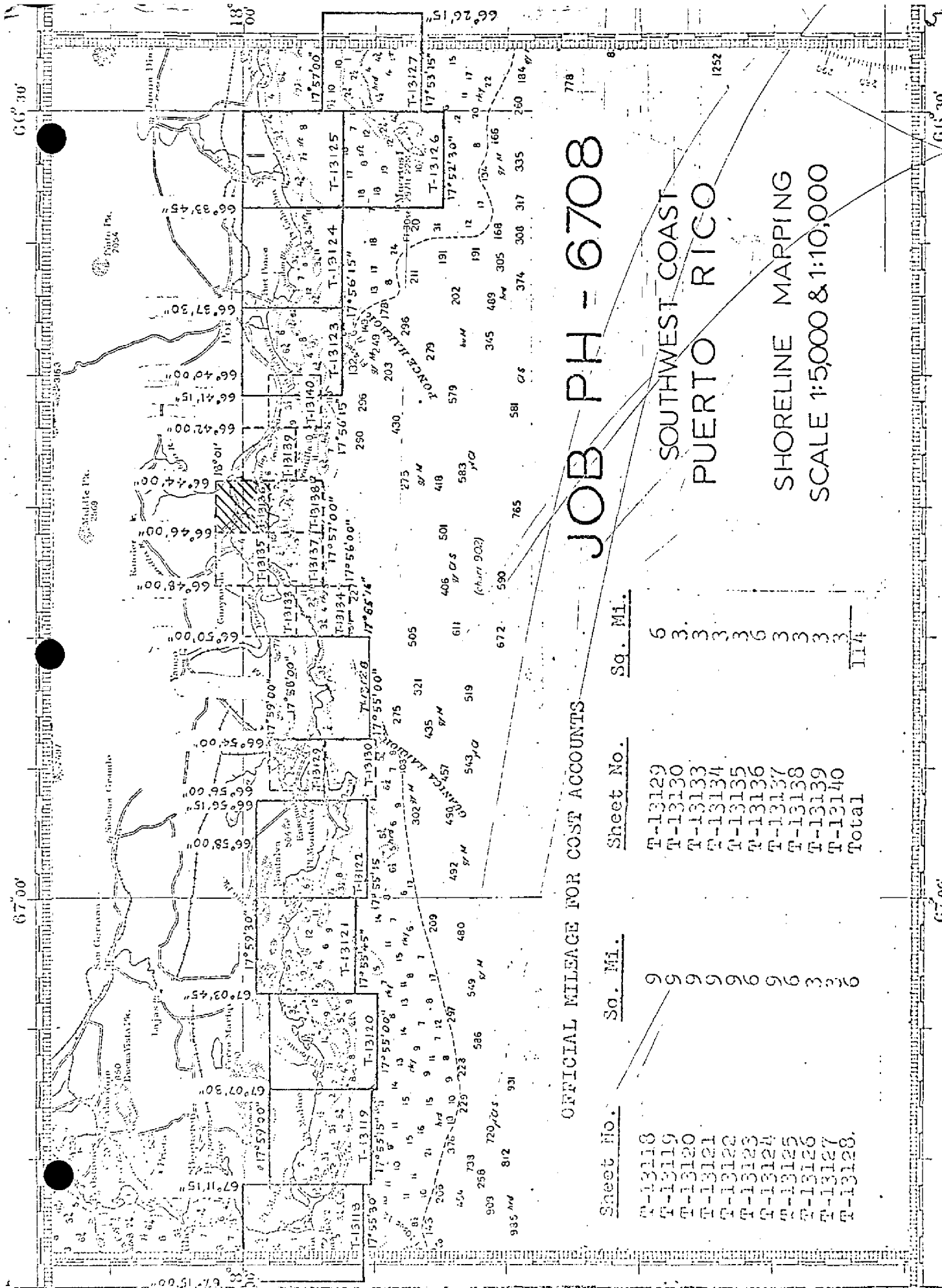
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

T-13136

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore Area For Hydro.	Jan. 1969	Superseded
Field Edit Applied. Changes From Photography of May 1969 and March 1970 Made.	March 30, 1971	Superseded
Final Review	Jan. 1973	



JOB PH - 6708

SOUTHWEST COAST
 PUERTO RICO
 SHORELINE MAPPING
 SCALE 1:5,000 & 1:10,000

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Mi.	Sheet No.	Sq. Mi.
T-13118	9.9	T-13129	6
T-13119	9.9	T-13130	3
T-13120	9.9	T-13133	3
T-13121	9.9	T-13134	3
T-13122	9.9	T-13135	3
T-13123	9.9	T-13136	3
T-13124	9.9	T-13137	3
T-13125	9.9	T-13138	3
T-13126	9.9	T-13139	3
T-13127	3.3	T-13140	3
T-13128	3.3	Total	114

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13136

Shoreline survey T-13136 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 Bahia de Guanilla most of Punta Guayanilla and the western part of Bahia De Tallaboa to the mouth of Rio Tallaboa.

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

Compilation was by B-8 plotter using November, 1966 and March, 1970 photography. The scale of the manuscript is 1:5,000. The incomplete manuscript, with only the 1966 photography applied, along with ozalids and specially prepared photos were furnished for the preparation of the boat sheets, location of photo-hydro signals and field edit use. The 1970 photography had not been received prior to the compilation of the incomplete manuscript.

The manuscript was a vinylite sheet 2 minutes longitude by 2 minutes latitude. After field edit was applied and revisions made from the 1970 photography, the manuscript was scribed, stuck-up and reproduced on cronaflex. Final review was at AMC in January, 1973. One cronaflex and negative of the final reviewed survey are being forwarded for record and registry.

FIELD INSPECTION REPORT

PH-6708

T-13136

There was no field inspection prior to compilation.

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 1966 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.

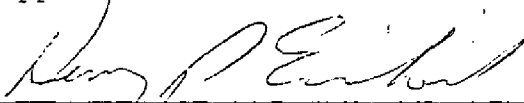
Ratio prints have been ordered for the 1:30,000 and 1:15,000 scale photographs to compilation scale, on black and white base.

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

Respectfully submitted

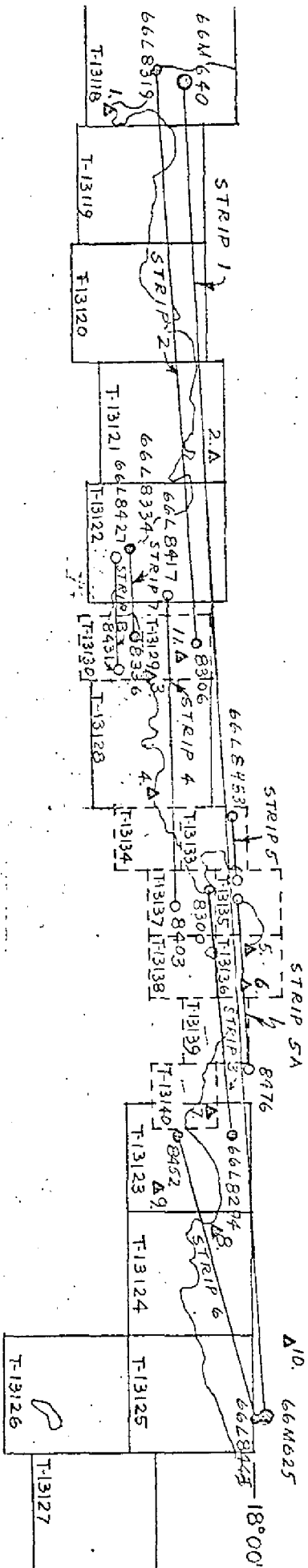

I. I. Saperstein

Approved and Forwarded


Henry P. Eichert, Chief
Aerotriangulation Section

67°00'

66°30'



1. CABO ROJO (USAF) 1966
2. CERRO VERTERO 2 (USAF) 1934
3. ESENADA, SOUTH R.R. SUGAR CO.
4. GUANICA WEST & EAST STACKS, 1966
5. GUANICA MUNIC. W.T. 1966
6. GUAYANILLA, UNION CARBIDE CO. W.T. 1966
7. REY, 1966
8. Ponce, RADIO STATION WELD MAST, 1966
9. Ponce Bay Front & Rear Range L.T.S. 1966
10. Ponce, DON Q RUM CO. STACK, 1966
11. BAHIA DE GUANICA RANGE FRONT & REAR L.T.S. 1966

AEROTRIANGULATION

PUERTO RICO
Southwest Coast

PH-6708
Oct. 1967

LEGEND

- Δ Control Used in Adjustment
- 1:60,000 Photos (color)
- 1:39,000 Photos (")
- 1:15,000 Photos (")

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 13136 PROJECT NO. PH-6708 SCALE OF MAP 1:5,000 SCALE FACTOR None

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) FORWARD (BACK)	N.A. 1927 - DATUM
Turn 2, 1966	Geodesy Pad 27087	Puerto Rico	18° 00' 12.60435"	387.5	(1457.1)
Procon, International Commonwealth	" 27364	"	66° 45' 34.29368"	1008.8	(756.2)
East Tank, 1966	"	"	18° 00' 27.42315"	843.1	(1001.5)
			66° 44' 35.17497"	1034.7	(730.3)
Procon, International Commonwealth, West	" 27351	"	18° 00' 24.91416"	765.9	(1078.7)
Tank, 1966	"	"	66° 44' 41.76933"	1228.7	(6536.3)
Bahia De Tallaboa Range Front Light, 1966	" 27354	"	170 59' 43.43556"	1335.3	(509.3)
Bahia De Tallaboa Range Rear Light, 1966	" 27353	"	66° 44' 29.30430"	862.1	(903.1)
			180 00' 14.49413"	445.6	(1399.0)
Guayanilla, Union Carbide Company, Water Tank, 1966	" 27352	"	66° 44' 33.16807"	975.7	(789.3)
			18° 00' 06.87042"	211.2	(1633.4)
			66° 44' 21.89909"	644.2	(1120.9)
COMPUTED BY A. C. Rauck, Jr.	DATE Nov. 15, 1968	CHECKED BY C. Blood	DATE Nov. 21, 1968		

COMPILATION REPORT

PH-6708

T-13136

31. DELINEATION

Refer to Photogrammetric Plot Report - Job PH-6708, Puerto Rico, dated Oct. 31, 1967. Specifically Item 25 - Photography, paragraph 2.

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: - 66L(c) 8475 thru 8484.

32. CONTROL

See Photogrammetric Plot Report dated October 31, 1967.

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, as well as all piers and buildings were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

One shoal area and three islands were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 have been forwarded to the Washington Office, under date April 21, 1969, for all but TEXACO LOADING DOCK LIGHT. This will be submitted at a later date.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-13135 to the West, T-13138 to the South and T-13139 to the East.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

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

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with USC&GS Chart 928 (Bahia de Guayanilla) scale 1:10,000, 6th Edition, dated Dec. 16, 1968, and Chart 902, scale 1:100,000 9th Edition, dated July 15, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

A. L. Shands

A. L. Shands
Cartographic Technician

Approved:

Alfred C. Holmes

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

December 11, 1972

GEOGRAPHIC NAMES
FINAL NAME SHEETS
Ph-6708 (Puerto Rico)

TP-13136

Bahia de Guayanilla

Bahia de Tallaboa

Cayo Mata

Cayo Rio

Poso de Cieno

Punta Gotay

Punta Guayanilla

Punta Pepillo

Rio Tallaboa

Approved:

A. J. Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Charles E. Harrington
Charles E. Harrington
Cartographer

T-13136

49. NOTES FOR THE HYDROGRAPHER:

None

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T- 13136			
1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	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 RJP	10. PHOTOGRAMMETRIC PLOT REPORT Bridge-W.O.	11. DETAIL POINTS Wild B-8
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION CHB	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES CHB	21. NATURAL GROUND COVER XX		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES XX
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS CHB	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS RJP		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS RJP
40. REVIEWER Charles H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. <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 R.J. Pate Mar. 1971		SUPERVISOR <i>Albert C. Rauck, Jr.</i>	
Reviewed By: R.J. Pate Mar. 1971		Albert C. Rauck, Jr.	
43. REMARKS			
Field Edit Applied From: Photos-66-L-8479-8482; 66-L-8297-8299. (Contacts) Construction Plans (4), Field Edit Ozalid Matte Photos- 66-L-8298,8299. Additional Corrections From Ratio Photos: 70-E-6054,6068,6069-6070 RJP			

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH-6708
MAP T-13136

52. ADEQUACY OF COMPILATION

Compilation was generally adequate. Compilation of interior details was, perhaps, not carried far enough. It is felt that as many as practicable of the large and higher storage tanks in the refinery area should be delineated. The three prominent piers on the map were not completely delineated, and one small pier was overlooked. The railroad mapped has been abandoned for many years and is now a dcl road. The shoreline of Cayo Rio needs extensive revision. Some minor shoreline changes were recommended for Cayo Mata, also. Punta Guayanilla and the refinery area are undergoing extensive construction which will entail major changes in interior detail. Construction plans of the proposed hydraulic fill were enclosed with the field edit sheet. The mangrove along the northwest shore of Punta Guayanilla has been chopped full of innumerable small lines used in surveying for construction. No attempt was made to delineate these on the field edit sheet. Construction will take from two to three years. Hydraulic fill caused a minor shoreline change in one area and this was added in and forwarded with the other field edit data. Some minor changes occurred at the mouth of Rio Tallaboa. Several other shoreline changes were indicated in various places on the map.

54. RECOMMENDATIONS

None.

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 Bahia de Guayanilla.

56. GEOGRAPHIC NAMES

The names on this sheet are correct, complete and in current local usage according to the authorities listed below.

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

Sr. Padilla is the senior harbor pilot of Bahia 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 seven fixed aids to navigation and three nautical landmarks on the map. They were reported on form 567 and form 152 and forwarded with the field edit sheets. One landmark building was recommended. This is a prominent house on a hill with a small, square tower at the northwesterly end. It is locally known as Castillo del Mercado. One landmark on, chart 902, was recommended for deletion. This is a large storage tank. It should be retained as a chart feature on chart 928.

58. ROCKS, REEFS, SHOALS AND FOUL AREAS

There are no important rocks on this map. Two or three unimportant rocks were located in the foreshore in the northwesterly part of the sheet.

There is one reef, a coral one, on the southeasterly side of Cayo Rio. This reef is mostly awash to bare and should be symbolized on the chart. Depths and times of observations were reported on the field edit ozalid, as was the foul area surrounding the reef.

Shoal delineation was good. One or two small shoals were added and depths and times of observation given where possible.

59. PHOTOGRAPHY

Photography consisted of 1:5000 black and white copies of color photographs and 1:15,000 and 1:30,000 color contacts. The color contacts proved to be the most valuable. The photography in the dock area of Bahia de Guayanilla and the refinery area was poor. This was due to the smoke from the refinery which made perception of details difficult.

60. DISPOSITION OF DATA

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


Richard E. Kesselring
Surveying Technician

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH-6708
MAP T-13136

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION (Supplement)

During a conference with the Commanding Officer, U.S.C. and G.S. Ship Whiting, the field editor was informed that the refinery area on this map forms a very distinctive landmark. Accordingly, it is recommended that as much of the refinery area and tankage as possible be delineated on Chart 902, especially the largest and highest (elevation wise) tanks. In addition, the cuts and graded areas on the hill behind the refinery, where the highest tanks are located, should be shown as bluffs where applicable.

REVIEW REPORT

SHORELINE

T-13136

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 dated 1900. There is a general agreement between the two surveys however man made and natural changes since the date of survey, account for any real differences between the two.

Registered survey No. 2468 is superseded by T-13136 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison with USGS Punta Cuchara, PR and Punta Verraco, PR, both dated 1958 and 1:20,000 scale, was made. Except for natural and man made changes they are in general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with H-9031, 1:5,000 scale sounding overlay #2 dated 11/1/72 from Punta Guayanilla westward and Boat Sheet H-9110, MI-51-70, 1:5,000 scale eastward. The shoreline has no significant changes and verifies the offshore features.

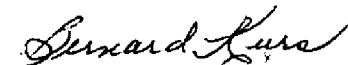
65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 928, 1:10,000 scale dated March 4, 1972. There are no significant changes except for the Punta Gotay area where there is an extensive area under construction. This is noted in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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


Reviewed by:




Bernard Kurs
Cartographer

22

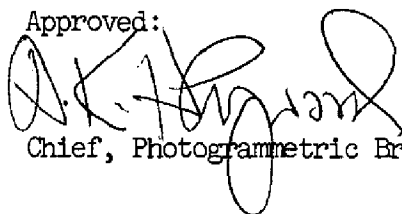
Approved for forwarding:


Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division
Atlantic Marine Center

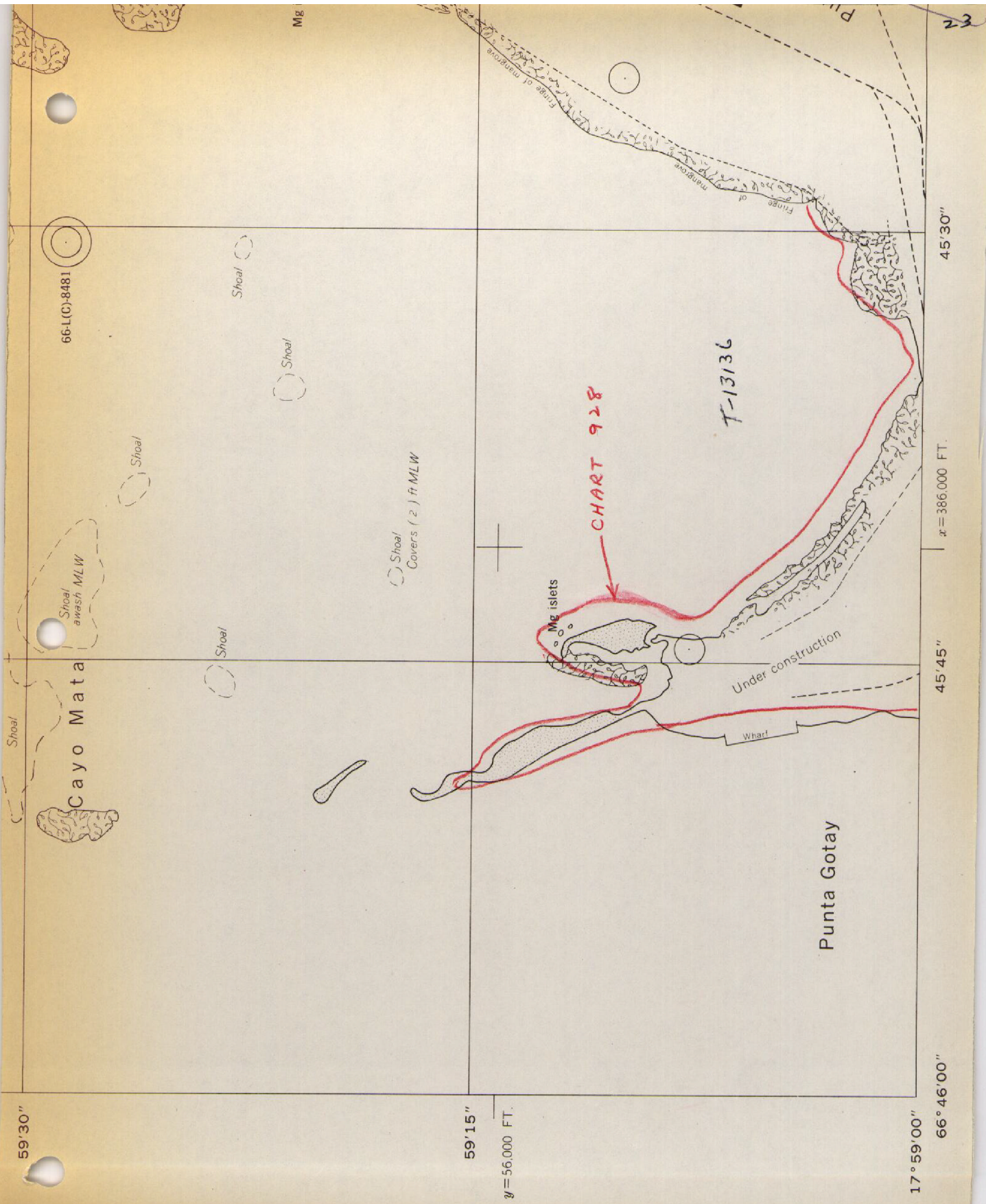
Approved:


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

Approved:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division



59°30"

59°15"

$y = 56,000$ FT.

17°59'00"

66°46'00"

45°45"

$x = 386,000$ FT.

45°30"

23

TO BE CHARTED

STRIKE OUT TWO

LANDMARKS FOR CHARTS

Photo Party 62 Ponce, Puerto Rico March 3, 1969

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

The positions given have been checked after listing by Richard E. Kesselring

Joseph K. Wilson

Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION							METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*			DATUM							
				° ' "	D.M. METERS	° ' "	D.P. METERS									
Puerto Rico	Stack	White, Concrete ht: 215 (225) ft. (Guayanilla, Central Rufina, Stack, 1969)		18 00	40.91 1257.7	66 47	38.98 1146.7	Puerto Rican	Triang. T-13135	2/27/69	X	X		902 928		
Tower		Large Black Cracking Tower with red & white checked tank at top (Procon International Common- wealth East Tank, 1966) ht: 289 (341) ft.		18 00	27.423 843.1	66 44	35.175 1034.7	"	Triang. T-1335	2/27/69	X	X		928 902		
Tower		Large, black cracking tower with red & white checked tank at top. (Procon International Commonwealth West Tank, 1966) ht. 289 (331) ft.		18 00	24.914 765.9	66 44	41.769 1228.7	"	"	"	X	X		"		
Tank		White cylindrical hemispherical top & bottom, 4 cylindrical steel legs. (Guayanilla, Union Carbide Company, Water Tank, 1966) ht. 206 (216) ft.		18 00	06.870 211.2	66 44	21.899 644.2	"	"	"	X	X		"		

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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.

* TABULATE SECONDS AND METERS

NONFLOATING AIDS DEPENDENTLY ON CHARTS

TO BE CHARTED
 2006-2007
 2006-2007

STRIKE OUT TWO

Atlantic Marine Center
April 21, 1969

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

The positions given have been checked after listing by

Albert C. Rauck, Jr.
Allen L. Powell, Director, A.M.C.

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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.

*** TABULATE SECONDS AND METERS**