T-13359

ORIGINAL

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline

Job No. PH-6904 *Map No.* T-13359

Classification No. *Edition No.* 1

Field Edited Map

LOCALITY

State Puerto Rico

General Locality South Coast

Locality Rio Grande De Patillas

19 70 TO 19 76

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-13359

MAP EDITION NO. (1)

MAP CLASS FINAL

JOB PH-6904

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division
Norfolk, Va.

OFFICER-IN-CHARGE
Jeffrey G. Carlen, Cdr

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH-

MAP CLASS

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
Compilation Oct. 16, 1970	April 7, 1969 Jan. 23, 1970 Jan. 31, 1972 Nov. 16, 1972

II. DATUMS

1. HORIZONTAL: [ ] 1927 NORTH AMERICAN — OTHER (Specify): Puerto Rico

2. VERTICAL: [X] MEAN HIGH-WATER [X] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify):

3. MAP PROJECTION: Polyconic

4. GRID(S): STATE: Puerto Rico; ZONE: 1

5. SCALE: 1:10,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	R. Kelly	Sep 1970
	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	P. Dempsey	Oct 1970
	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:20,000	PLANIMETRY BY	B. Barge	Feb 1971
	CHECKED BY	L. Neterer	Feb 1971
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted SCALE: 1:10,000	PLANIMETRY BY	B. Barge	May 1971
	CHECKED BY	L. Neterer	May 1971
	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	B. Barge	May 1971
	CHECKED BY	L. Neterer	May 1971
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	L. Neterer	Mar 1972
6. APPLICATION OF FIELD EDIT DATA	BY	C. Parker	Aug 1976
	CHECKED BY	L. Neterer	Aug 1976
7. COMPILATION SECTION REVIEW	BY	L. Neterer	Aug 1976
8. FINAL REVIEW	BY	A. L. Shands	Nov 1977
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	A. L. Shands	Dec 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	J. B. Phillips	Jan. 1978
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. D. Cotton	Mar. 1978

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-13359

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC 8 "E"

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Atlantic — [X] STANDARD
MERIDIAN: 60th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
70E(C) 6219-6221	3/5/70	13:22	1:20,000	0.8 ft. above MLW
70E(C) 6148-6149	3/5/70	11:13	1:40,000	0.6 ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHWL was compiled from the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

None compiled.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	T-13358	No survey	T-13361 1:5,000

REMARKS

* U.S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36C
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-13359

HISTORY OF FIELD OPERATIONS

I. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Wilson	Feb 1970
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	None	
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME

PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*

None

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36C
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-13359

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		W. Hull	Jun 1976
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	None	
	LOCATED *(Field Methods)* BY	W. Hull	Mar 1976
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED: None

2. VERTICAL CONTROL IDENTIFIED: NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

70E(C) 6218

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*

Field edit ozalid
Field Edit Report
2-Forms 76-40

☆U.S. Government Printing Office: 1975 – 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-13359

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	5/12/71	Class III manuscript		10/30/72 1/2/75 12/2/75
Field edit applied. Compilation complete.	8/76	Class I manuscript	9/22/76	
Final Review	11/77	Final	12/30/77	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		9/28/76	Landmarks for charts

2. [X] REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Sept. 28, 1976
3. [ ] REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

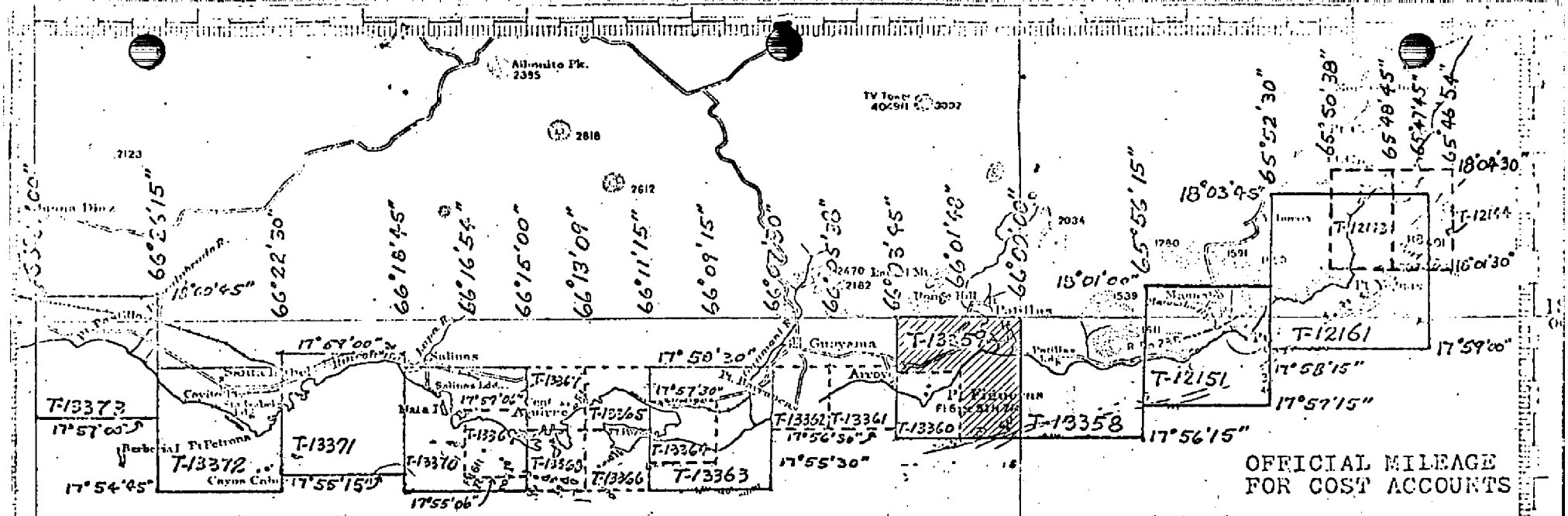
1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [ ] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NOS 76-40 ~~567~~ SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. [ ] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

☆U.S. Government Printing Office: 1975 – 665-661/1108, Region No. 6



JOB PH-6904
SOUTH COAST, PUERTO RICO
Shoreline Mapping
Scale: 1:10,000
1:5,000

OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	2
12144	1
12161	9
12151	3
13358	3
13359	3
13360	2
13361	2
13362	2
13363	5
13364	4
13365	2
13366	3
13367	2
13368	3
13369	2
13370	4
13371	4
13372	4
13373	3
TOTAL	65

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

T-12143, T-12144, T-12151, T-12161 and

T-13358 thru T-13362

The maps included in this summary cover the eastern portion of project PH-6904. They are all standard shoreline maps which severed to provide shoreline in support of hydrographic operations and nautical chart construction. These maps cover the south coast of Puerto Rico from Punta Icacos westward to Punta Barrancas.

Photographs of the area were flown in March, 1970. Glare covers most of the water area . The black and white ratio photographs made from color contact prints are dark and the resolution is not good. Delineation of offshore and alongshore area details was made difficult by these factors.

No clearification of details was made prior to compilation. Precompilation field work was limited to the recovery and identification of horizontal control necessary for bridging.

Compilation was done at the Atlantic Marine Center by instrument and graphic methods. The Wild B-8 stereoplotter was used.

These maps were field edited in March and April, 1976. The edit items were applied to the maps at the Atlantic Marine Center in August and September, 1976.

Final review was preformed at the Atlantic Marine Center in October and November, 1977. The original base manuscripts were forwarded to the Washington Science Center for reproduction and final registration.

FIELD INSPECTION

T-13359

There was no field inspection prior to office compilation.

Aerotriangulation Report
PH-6904
South Coast of Puerto Rico
September 1970

21. Area Covered

This report covers the Southern Coast of Puerto Rico, consisting of (9) 1:10,000 scale T-sheets, 12151, 12161, 13358, 13359, 13363, 13370 thru 13373 and (11) 1:5,000 scale T-sheets, 12143, 12144, 13360 thru 13362 and 13364 thru 13369.

22. Method

Two strips 1:40,000 and one strip of 1:5,000 scale color photography were bridged by analytical methods to provide horizontal control points for compilation and shoreline points for ordering 1:10,000 and 1:5,000 scale ratio prints. The attached sketch of the strips bridged shows the placement of horizontal control points used in the strip adjustments. A list of closures to control is part of this report. Positions of all compilation points and control stations have been plotted on the manuscripts by the Coradi.

23. Adequacy of Control

The horizontal control used is on the new adjustment of the Puerto Rico datum. All control was adequate and held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 and 1:5,000 scales. Tie points were used to augment datum tie between strips 1, 2 and 3.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of bridges.

25. Photography

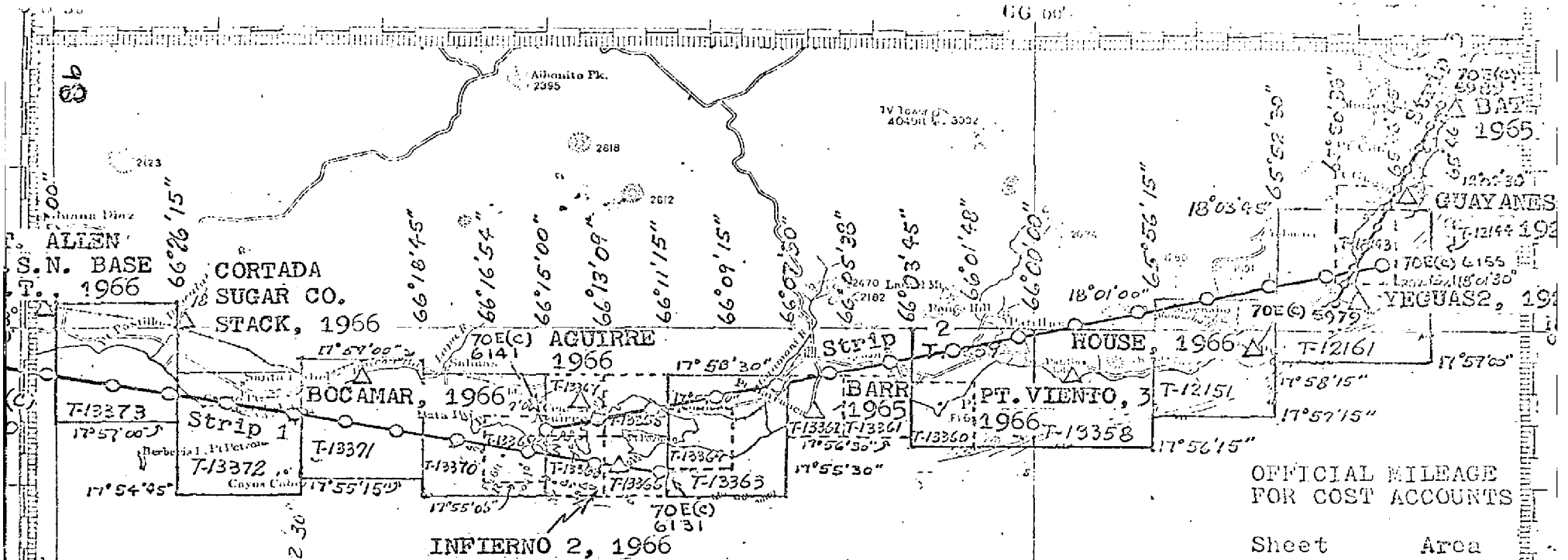
RC-8 E color photography was adequate as to coverage overlap and definition.

Submitted by,

Robert B. Kelly

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation
Section

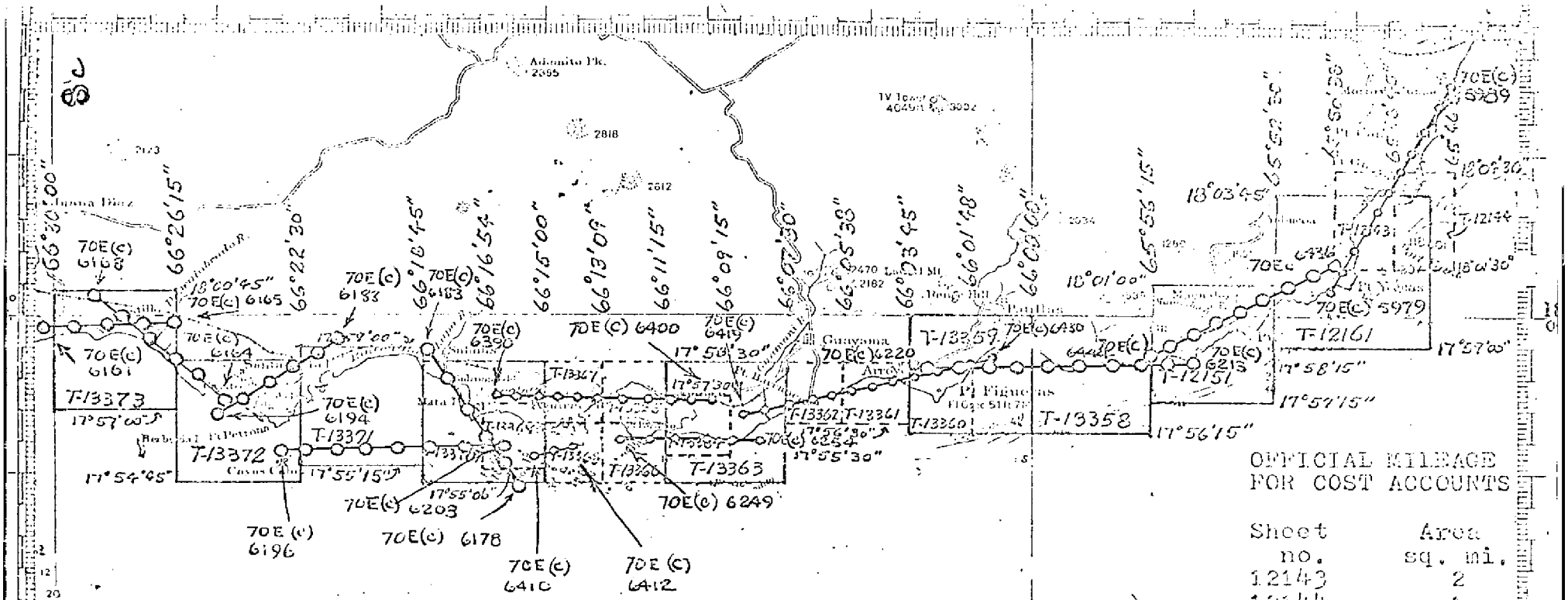


- BRIDGING PHOTOS

JOB PH-6904
SOUTH COAST, PUERTO RICO
Shoreline Mapping
Scale: 1:10,000
1:5,000

OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	2
12144	1
12161	9
12151	3
13358	3
13359	2
13360	2
13361	2
13362	2
13363	2
13364	4
13365	2
13366	3
13367	2
13368	3
13369	2
13370	5
13371	5
13372	4
13373	2
TOTAL	65



COMPILATION PHOTOS

JOB PR-6904
SOUTH COAST, PUERTO RICO
Shoreline Mapping
Scale: 1:10,000
1:5,000

OFFICIAL MILEAGE
FOR COST ACCOUNTS

Sheet no.	Area sq. mi.
12143	2
12144	1
12161	9
12151	3
13358	3
13359	3
13360	2
13361	2
13362	2
13363	5
13364	4
13365	2
13366	3
13367	2
13368	3
13369	2
13370	5
13371	5
13372	4
13373	3
TOTAL	65

LEGEND

△ CONTROL USED IN ADJUSTMENT

( ) CLOSURES OF BRIDGE TO CONTROL SHOWN IN PARENTHESIS

△ CONTROL USED AS CHECK.

STRIP 1

△	FT. ALLEN U.S.N. BASE W.T.	(0.0, 0.0)
△	" " " SUB.STA.A	(-0.4, 0.0)
△	CORTADA SUGAR CO. STACK 1966	(+0.8, +0.1)
△	" " " SUB STA.A	(+1.2, +1.2)
△	BOCAMAR, 1966 SUB. STA. A	(0.0, 0.0)
△	INFIERNO 2, 1966	(0.0, 0.0)

STRIP 2

△	INFIERNO 2, 1966	(-0.6, +0.3)
△	AGUIRRE, 1966	(-1.3, +0.6)
△	BARR, 1965	(-0.6, -1.0)
△	PT VIENTO 3, 1966	(-1.2, -0.8)
△	HOUSE, 1966 SUB STA. A	(+1.1, +0.4)
△	YEGUAS 2, 1965	(+1.1, -0.6)
△	YEGUAS 2, 1965 SUB STA. A	(+0.3, -0.2)

Strip 3

△	Yeguas 2, 1965	(0.0, 0.0)
△	Yeguas 2, 1965 Sub. Sta. A	(0.0, 0.0)
△	Guayanes 2, 1923	(0.0, 0.0)
△	Bat, 1965	(0.0, 0.0)

NOAA FORM 76-41
(6-75)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-13359	PH-6904	Puerto Rico	Coastal Mapping Division, Norfolk, VA.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Puerto Rico ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS FORWARD	REMARKS BACK
POLLOS, 1965	Geodesy Pad 27175		x=	φ 17 58 55.20023	1697.0	(147.6)
			y=	λ 66 00 11.81015	347.5	(1417.8)
TANK, 1926	New P.R. Adj. form 164 p. 3		x= 630,005.43	φ	005.4	(4994.6)
			y= 50,739.11	λ	739.1	(4260.9)
CENTRAL LAFAYETTE (USGS), 1934	New P.R. Adj. form 164 p. 3		x= 629,779.08	φ	4779.1	(220.9)
			y= 53,286.66	λ	3286.7	(1713.3)
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		
			x=	φ		
			y=	λ		

COMPUTED BY B. L. Barge	DATE 5/11/71	COMPUTATION CHECKED BY A. C. Rauck	DATE 5/11/71
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

T-13359

31. DELINEATION:

The Wild B-8 was used. Stereo instrument work was done with 1:40,000 scale photography. Points were selected common to 1:20,000 scale ratios which were processed for hydro support.

32. CONTROL:

See AEROTRIANGULATION REPORT, dated September, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was dtermined from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were determined from office interpretation of the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Preliminary forms 76-40 for Landmarks and/or Aids were prepared by the Compilation Office and forwarded to the Field Editor and/or Hydrographer for verification, location, or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the Form 76-36B, item 5 of this Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle GUAYAMA, Puerto Rico, scale 1:20,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with National Ocean Survey chart 902, scale 1:100,000, 10th edition, dated March 28, 1970 (covr. thru N.M 13/70).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

A. C. Rauck Jr. FOR
B. L. Barge
Cartographic Technician
May 21, 1971

Approved:

Albert C. Rauck Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

October 11, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6904 (South Coast, Puerto Rico)

T-13359

Mar Caribe

Puerto Patillas

Río Chico

Río Grande de Patillas

Approved by:

Charles E. Harrington

Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(7-75)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP - 13359

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

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
LON	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	NA	LON	LON

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LON	NA	LON	NA

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LON	LON	LON	LON

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
LON	NA	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	LON

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
LON	LON	NA	LON

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
LON	LON	LO N

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
LON	LON	NA	LON

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Lowell O. Neterer, Jr. 5/71	Albert C. Rauck, Jr.

41. REMARKS *(See attached sheet)*

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER	SUPERVISOR
A. C. Rauck Jr. FOR C. Parker 8/76 Reviewer: L.O.Neterer 8/76	Albert C Rauck Jr. Albert C. Rauck, Jr.

43. REMARKS

FIELD EDIT REPORT
PROJECT PH-6904
SOUTH COAST, PUERTO RICO
T-13362, T-13361, T-13360
T-13359, T-13358, T-12151
T-12161, T-12143, T-12144

This report is submitted for five 1:5,000 scale maps and four 1:10,000 scale maps. The Field Edit was accomplished during the spring season of 1976 by the NOAA SHIP MT MITCHELL MSS-22 personnel.

52 ADEQUACY OF COMPILATION

The compilation is generally good. After the application of field edit data and data from engineering drawings of Arroyo and Yabucoa, the compilation will be adequate for charting.

53 MAP ACCURACY

Map compilation as to horizontal position is good. A modified field test was conducted on several points. Horizontal control was field identified, transferred to the manuscript, position scaled and compared to the computed coordinates and generally the agreement was less than one meter.

54 RECOMMENDATIONS

None

55 GEOGRAPHIC NAMES

No discrepancies were noted except those that were questioned on the field sheet. Names of persons interviewed about names in question are shown on T-13362, Photo 70E6421, 70E6218, T-13358, and T-12151.

56 SHORELINE AND ALONGSHORE FEATURES

The entire shoreline was checked by either walking, truck or small boat. All rock heights were estimated by going alongside or near in a small boat. On some near shore rocks, heights were estimated by walking the shoreline. Field Edit was conducted on days when sea conditions were moderate to calm. During launch hydro, the officer in charge, referenced many alongshore features, but in general the sea conditions were rough and the hydro launch did not get as near to the objects as the small boat used by the field editors.

All field edit data is indicated on the Field Edit Ozalid and photographs and are cross referenced.

There is a small marina under construction in Arroyo. Engineering drawings are furnished with this report. At Punta Figuras shoreline that is subject to frequent change was located by sextant angle and tape measurements; the field data and shoreline change is shown on manuscript T-13360.

On the eastern limit of T-12151, a small section of shoreline is in error and should be corrected as indicated on Photo 70E6440.

On T-12143, Yabucoa harbor area, construction is still underway. The main harbor is completed with construction underway on the southeast side. Engineering drawing of the harbor and new construction are enclosed with this report. Nautical Chart 25661 7th Edition May 24/75 already reflects the main harbor. Tie-points were located throughout the harbor to assist in tieing in with the engineering drawings. The shoreline immediately north of the riprap breakwater, as indicated on T-12143, is subject to daily change due to sand borrowing operations both landward and seaward of the mean high water line. The mouth of the stream is plugged on occasion with sand and debris, but continues to break through near the mouth as compiled. I recommend that the shoreline be charted as shown on photos and as compiled with note of frequent change.

57 LANDMARKS AND AIDS

Form 76-40 was submitted for all nautical landmarks and fixed aids to navigation in the descriptive reports for the hydrographic surveys. Copies of those forms are attached to this report.

58 GENERAL STATEMENT

All field edit notes have been made in violet ink on the field edit ozalids and ratio photographs.

It is recommended that photography of opportunity be obtained of the Yabucoa Harbor area and of the Palmas Del Mar harbor area, just north of Yabucoa. A special report was submitted on Palmas Del Mar to Director, Atlantic Marine Center with copy to CAM5.

Submitted 18 June 1976

Wesley V. Hull
Captain, NOAA
Commanding Officer
NOAA Ship Mt Mitchell MSS-22

To charts 9/27/76

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

~~NON-FLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [XX] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. A.M.C. Norfolk, Va.	Puerto Rico	Puerto Rico-South Coast	Aug. 1976

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
423	Ph-690h	T-13359	Puerto Rico

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TANK	(Tank, 1926)	17 58	21.698 667.1	66 03	33.272 978.9 58	70E(C)6221 March 5, 1970	F-1-6-V March, 1976	902 ~~905~~ 925
STACK	(Central Layfayette (USGS), 1934)	17 58	47.00 1445	66 03	35.X 1047	A.L. Shands 11/3/77	Not verified by field edit	" ~~"~~ 925

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REVIEW REPORT

SHORELINE

T-13359

November 9, 1977

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

No comparison was made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with H-9597 (MI-10-2-76). Foul areas shown adjacent to the shoreline on the map were not verified by the hydrographer. The field editor mentioned only that the shoreline adjoining these foul areas is subject to changes resulting from stream runoff. The areas appear discolored on the photographs which may indicate the presents of marine growth but this reviewer was not able to detect the presents of any rocks or other debris. The position of the hydrographers soundings however, reveals that he purposely avoided the area. This might indicate that some danger does exist. Because of this, the foul limits are being retained on the map.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25677, 1:100,000 scale, 13th edition, dated December 13, 1975. There are no significant differences.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map meets the requiremtns for Bureau Standards and the National Standards of Map Accuracy. It complies with the project instructions.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer

Approved for Forwarding:

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.