# 12090

#### FORM C&GS-504

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

## DESCRIPTIVE REPORT

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Type of Survey SHORELINE (PHOTOGRAMMETRIC) Field No. Office No. T-12090
LOCALITY
State Maryland
General locality Chincoteague Bay
Locality Pope Bay to Sugar Point
<u>1962-</u> 1963
CHIEF OF PARTY W. M. Reynolds, Chief of Field Party M. J. Tonkel, Baltimore Dis. Office
LIBRARY & ARCHIVES

GREEN RUN, 1959

LAT.: LONG.: X ADJUSTED 38<sup>0</sup>05 30.72352" 75<sup>0</sup>12<sup>1</sup>01,22880<sup>11</sup> UNADJUSTED PLANE COORDINATES (IV): STATE ZONE Y = 99,258.27x = 1,317,950.18Maryland

. AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) FIELD PARTY. (III) PHOTOGRAMMETRIC OFFICE,

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

TELD INSPECTION BY (II):	•	DATE:
W. M. Reynolds		Mar-Apr 1962
AN HIGH WATER LOCATION (III) (STAT	e date and method of Location): ing 1962 photography with fie	
Regain Fraction as.	ing 1302 photography with 116.	ia inspection.
ROJECTION AND GRIDS RULED BY (IV):		DATE
A. Roundtree		8-29-62
ROJECTION AND GRIDS CHECKED BY (IV	v):	DATE
I. Y. Fitzgerald		9 <b>-19-</b> 62
CONTROL PLOTTED BY (III):		DATE
L. A. Senasack		11 <b>-</b> 16 <b>-</b> 62
H. A. Ochasack		11-10-02
CONTROL CHECKED BY (III):	DATE	
L. O. Neterer	11-16-62	
RADIAL PLOT OR STEREOSCOPIC CONTR	OL EXTENSION BY (III)	DATE
L. W. Fritz	,	10-31-62
L. A. Senasack		6-6-63
TEREOSCOPIC INSTRUMENT COMPILATI	ON (III): PLANIMETRY	DATE
	L. O. Neterer	1-21-63
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
B. Wilson		2 <b>-</b> 13-63
CRIBING BY (III):		DATE
J. Cregan		5-5-64
PHOTOGRAMMETRIC OFFICE REVIEW BY	((()):	DATE
		5-16-64

#### **DESCRIPTIVE REPORT - DATA RECORD**

ERA (KIND OR SOURCE) (III):

Wild RC-8

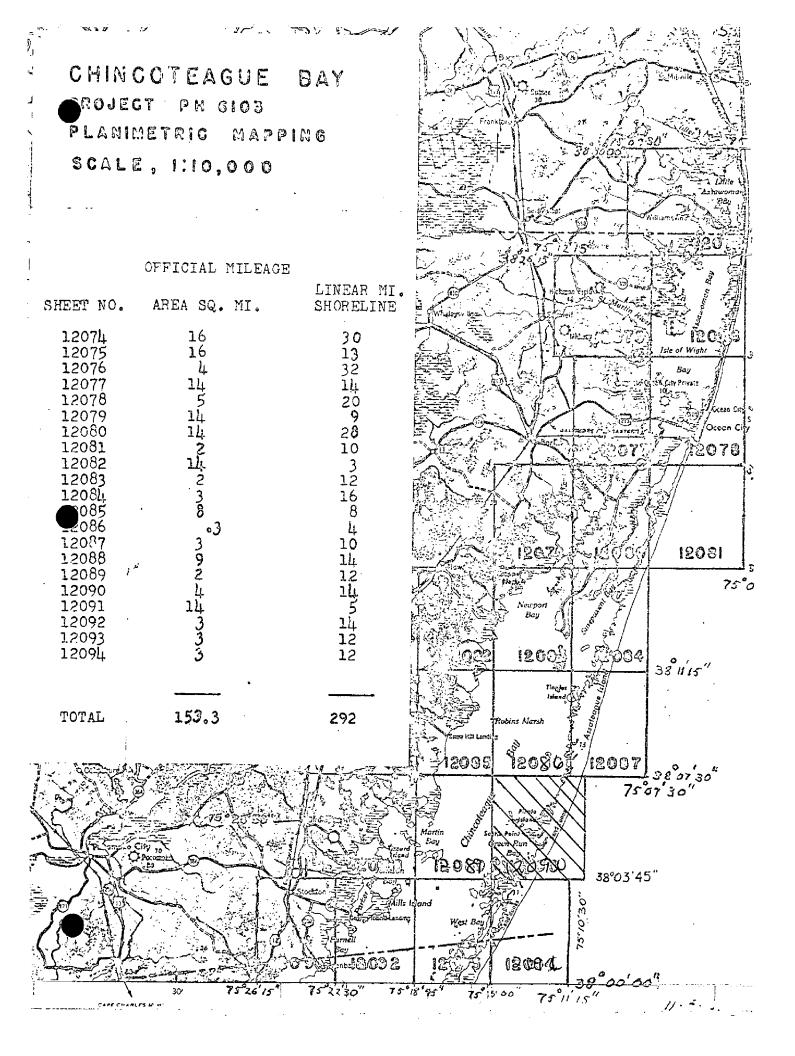
	PI	IOTOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
52W 3757 - 3759 52W 3791 - 3794 52S 3191 - 3193 52S 3176 - 3178 52W 3829 - 3830	4-28-62 4-28-62 3-24-62 3-24-62 4-28-62	0926 0942 1012 1015 1001	1:20,000 1:20,000 1:15,000 1:15,000	0.2 ft. above MIW 1.0 ft. above MIW 2.7 ft. above MIW 2.7 ft. above MIW 1.0 ft. above MIW
		TIDE (III)	<u> </u>	

		NDE (III)				
				RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Sandy Hook, New <b>J</b> er	rs <b>ey</b>			4.6	5.6
SORDINATE STATION:	Snow Hill Landing,	Maryl	and	0.09	0.4	0.5
SUBORDINATE STATION:	North Beach Coast (	Guard	Station		3.4	4.1
WASHINGTON OFFICE REVIEW	BY (IV): Leo F. Beugent			Jan.	1972	
PROOF EDIT BY (IV):				DATE:	-	
			RECOVERED:	IDENTIFIE	D:	
NUMBER OF TRIANGULATION	STATIONS SEARCHED FOR (II):	4	2		1	
NUMBER OF BM(S) SEARCHED FOR (II):			RECOVERED:	IDENTIFIE		
NOMBER OF BIRGS BERNOTED		0	0		0	
NUMBER OF RECOVERABLE P	HOTO STATIONS ESTABLISHED (III)	:	0	,		
NUMBER OF TEMPORARY PHO	TO HYDRO STATIONS ESTABLISHED	(111):	^		_	

REMARKS:

-	COMPILATION RECORD	COMPLETION DATE	REMARKS	=
	Compilation complete ንጭስውር አንዚያ አንድር	May 1963	·	
,	Final Review	<b>J</b> an. 1972		
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	er er e			

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#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT T-12090

Shoreline survey T-12090 covers a part of the shore of Assateague Island. It is one of twenty-one similar surveys in project PH-6103. The primary purpose of the project was to provide new shoreline for nautical charts and special charts for the State of Maryland, Department of Tidewater Fisheries.

Field operations preceding compilation included recovery and identification of horizontal control, field and shoreline inspection, selection of landmarks for charts and location of fixed aids to navigation.

Compilation was at 1:10,000 scale by Kelsh Plotter and graphic methods using the panchromatic photography of March 24 and April 28, 1962. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 4 minutes 30 seconds in longitude. The manuscript was subsequently scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in January 1972. One cronaflex positive and a negative are forwarded for record and registry.

## FIELD INSPECTION REPORT MAPS T-12090, T-12093, and T-12094 PROJECT PH-6103

## 2. Areal Field Inspection.

These maps are located along the eastern coasts of Maryland and Virginia. The land area consists of a part of Assateague Island. This island is a long narrow stretch of sand with marsh along the westerly side. It separates the Atlantic Ocean and Chincoteague Bay. The island is not inhabited with year round residents. There are a few cottages located on the island and these are used during the summer season only.

Chincoteague Bay, which comprises the westerly part of these maps, is used mainly by clam, crab and oyster fishermen.

Field Inspection is believed complete and was performed on the following photographs; 61W6248 through 61W6259, 61W6277 through 61W6286, 62S3175 through 62S3177, and 62S3188 through 62S3201.

The photography was of good quality and no difficulty was encountered in their interpretation in the field.

Field inspection of the bay side of the maps was performed on the 61W series of photographs. The photographs are ratio prints at 1:10,000 scale.

The area suffered a severe storm during March 1962. The storm did little damage or change to the inside shoreline. The outside shoreline suffered considerable damage and was re-photographed after the storm. These photographs were used to locate the mean high water line along the ocean side of the maps. They are the 62S series and are contact prints at 1:15,000 scale.

## 3. Horizontal Control.

All Coast and Geodetic Survey Control was searched for. Form 526 is submitted for all stations searched for. Horizontal Control was identified in accordance with project instructions.

One station, HOPE 1961 was established south of map T-12093. This station was established by three point fix with a check angle. Observations and computations for establishing this station are enclosed with this data.

The following stations were reported lost:

T-12090 Green Run Inlet Life Saving Station Flagstaff 1907 Pope 1933 T-12093 Lonesome House, East Chimney 1902

T-12094 None

## 4. Vertical Control.

Inapplicable.

## 5. Contours and Drainage.

Contours are inapplicable.

Drainage is all runoff from the island into the bay or ocean.

#### 6. Woodland Cover.

Woodland cover was inspected and has been classified on the Photographs.

## 7. Shoreline and Alongshore Features.

The mean high water line along the ocean was located by measurement from identifiable photo. points. Measurements were taken at approximate ½ mile intervals. These measurements are shown on the 1962 photographs. These distances do not end on any definite berm line on the photographs. This is probably caused by the photography being taken so soon after the storm and the beach had not stabalized. The beach also appears to have built up some since the storm. The measurements are correct and it is believed they are close enough together that the compiler will have no trouble locating this line on the manuscript.

The western side of the island is mainly marsh. The apparent shoreline was inspected by skiff and has been indicated on the 1961 photographs. The two sets of photographs were compared in the field and where noticeable changes occured the 1962 photographs were used. The two sets of photographs have been cross-referenced.

## 8. Offshore Features.

There are none.

## 9. Landmarks and Aids.

Landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567 which is included with this data.

The fixed aids to navigation were located prior to the storm. They were checked immediately after the storm and all were still in place.

## 1 1. Other Control.

Recoverable Topographic Station SAM (1942) 1962 was e stablished in map T-12090.

## 11. Other Control Cont'd.

Recoverable Topographic Station GAG (1942) 1962 was established in Map T-12093.

No Recoverable Topographic Stations were established for map T-12094.

In addition to the above, copper weld stakes or natural objects were identified to provide control for the Maryland Department of Tidewater Fisheries. These points were identified so that a sextant fix could be observed any place in the bay. A total of 22 points were established in these maps.

#### 12. Other Interior Features.

The road which shows on the 1961 photographs, on Assateague Island, is not to be mapped. The coastal storm of March 1962 buried the road under several feet of sand. Driving on the island is now along the beach at the whim of the driver.

All landmark buildings have been indicated on the photographs.

A telephone line parallels the road on the northwest side and a local power line on the southeast side. The power line begins at the state line and runs northeast. The telephone line begins south of the project. The southern part of the telephone line has been indicated on photos. 61W6257 and 61W6259. The poles supporting the lines are visible on the 1962 photographs and the lines can be continued by the compiler.

There are no other features.

## 13. Geographic Names.

A special report on geographic names will be submitted at a later date.

## 14. Special Reports and Supplemental Data.

Special Report, Geographic Names, Project PH-6103, to be submitted at a later date.

Form 567, submitted with this data, 11 July 1962.

Letter of Transmittal dated 10 July 1962 and forwarded to Washington on 11 July 1962.

Submitted.

William M. Reynolds
Sub-unit Photo. Party 720

PHOTOGRAMMETRIC PLOT REPORT
Project 21039 (PH-6103)
Chincoteague Bay, Md.
Surveys Nos. T-12086 thru T-12094

#### 21. AREA COVERED

This radial plot covers the areas of the surveys listed above. These are shoreline surveys along Chincoteague Bay and Assateague Island. This radial plot was needed for the compilation of the area and islands west of the Acrotriangulation Bridge Strips 10 and 11 and east of Strip 13B. This includes Tingle Island, Pirate Islands southward to the project limits on the eastern side of Chincoteague Bay. On the western side of Chincoteague Bay the radial plot starts just south of Snow Hill Landing and continues southward to the project limits.

#### 22. METHOD-RADIAL PLOT

Map manuscripts:

Vinylite sheets, with the polyconic projections in black, Maryland Grid in red and/or Virginia South Zone in green which were furnished by the Washington Office.

The positions of all triangulation stations, substitute points and Aerotriangulation Bridge points were plotted on the manuscripts with the coordinategraph.

A sketch showing the layout of the surveys and photograph centers is attached to this report.

#### Photographs:

Thirty (30) photographs raticed to the scale of 1:10,000 were used in this plot and are numbered as follows:

61-S-9066 thru 9068 61-S-9298 " 9302 62-W-3757 " 3764 62-W-3786 " 3793 63-W-3382 " 3388

All photographs were printed on single weight paper with the exception of the flight 62-W-3786 thru 3793 which were on cronapaque.

#### Templets:

Vinylite templets were made of all photographs. No master templet was available for these single lens photographs.

Closure and Adjustment to Control:

The radial plot was constructed directly on the map manuscripts. The construction began with the flight 62-W-3786 thru 3793, which held to the stereo-points as dropped in bridge strips number 10 and 11. Flight 62-W-3757 thru 3764 was then laid using common points between flights. Flight 63-W-3382 thru 3388 was then laid tying into what was believed to be common stereo-bridge points on bridge 13B. The templets of photos on bridge 13B were added to give stronger position for lights which are aids to navigation.

While laying the templets for photos 61-S-9298 thru 9302, it was noted that it was impossible to make a tie across Chincoteague Bay. The error was as much as from 2 to 3 millimeters. Since this flight did not have any images of the aids to navigation on them and since they were printed on light weight paper, the error could be paper distortion. Since we only needed this flight for delineation of the western shore of Chincoteague Bay, the rays were cut off the templets on the eastern side of the bay. The centers will be only good for delineation on the western side of the bay. All of these centers fall in the water area, and for this reason they are dashed centers on the map manuscripts.

#### Transfer of Points:

The position of all photogrammetric points and photograph centers were pricked on the top templet and drilled down through the templets and map manuscripts.

## 23. ADEQUACY OF CONTROL

The density and distribution of identified control and stereo-bridge points was adequate.

## 24. SUPPLEMENTAL DATA

None.

## 25. PHOTOGRAPHY

The photography was adequate as far as coverage, overlap and image definition. There could be only one suggestion that could be made, and that is where there is a need for a radial plot there is also a need for the photographs to be printed on double weight paper so that the photograph will lay flat and would not distort due to the paper shrinking and expanding and warping.

## 26. POSITIONS OF AIDS TO NAVIGATION

After all of the templets were taped down onto the map manuscripts the various field cuts to the lights in the area were checked with the radially plotted positions of the office identified lights, which were pricked using as an aid Chart 1220, Revised date 8/6/62. The following is a list of lights and how they were held as comparison with the field angles from the List of Direction. This was done to verify the radial plot.

Chincoteague Bay Light 18 - Without the aid of a radial plot it would have been impossible to locate this point. The cuts as given by the fieldman could have been any of five different points. The cuts from Photo 12 and Boundary Monument Pope Island, 1907 Ecc. missed by approximately 1.5 mm to the southeast and 4.0 mm to the east respectively. The difference between the intersection of the cuts from Photo Point 09 and Photo Point 08 and the radially plotted position was approximately 0.5 mm. An average point was pricked and drilled.

Chincoteague Bay Light 17 - The image for this light did not fall on any of the 1963 photographs. The field cuts from Photo Point 09, Boundary Monument Pope Island, 1907, Ecc. and Cord (VFC), 1933 made a fairly good intersection. The point pricked and drilled was the mean intersection of these three cuts. The cut from Photo Point 08 fell approximately 2.6 mm to the south and was disregarded.

Chincoteague Bay Light 16 - The cuts from Photo Points 03, 11 and 12 fell within .3 mm of the radial plotted position. The point pricked and drilled was the mean of the afore mentioned. The field cut from Photo Point 08 fell approximately 1.3 mm to the east, and the cut from Boundary Monument Pope Island, 1902 Ecc. fell approximately 3.0 mm to the north. These two cuts were disregarded.

Johnson Bay Light 1 - The field cuts from Photo Points 08 and 11 agree with the strong radial plotted position. The cut from Photo Point 12 was disregarded because it fell approximately 0.7 mm to the east.

Johnson Bay Light 3 - The intersection of field cuts from Photo Points 11 and 12 fell aproximately 0.7 mm from a good three cut radial plotted position. The point pricked and drilled was the mean of these two intersections. The field cut from Pluto Point 08 fell approximately 1.0 mm to the south and was disregarded.

George's Island Landing Light 2 - The field cuts from Photo Point 12 and Cord (VFC), 1933 agreed with the radial plotted position. The intersection of these five rays was pricked and drilled. The field cut from Photo Point 03 fell approximately 1.0 mm to the south while the field cut from Photo Point 13 fell approximately 4.6 mm to the west. These two cuts were disregarded.

George's Island Landing Light 4 - The field cuts from Photo Points 03, 12 and Cord (VFC), 1933 agreed with the four ray intersection of the radial plot. The only bad ray, which was disregarded, came from Photo Point 13 which fell approximately 5.3 mm to the southwest.

Greenbackville Light 1 - The position of the intersections of the radial plot, the field cuts and the position for this light as shown on Survey No. T-11660 (Project FH-5907) are all in agreement with each other.

Greenbackville Light 3 - The field cuts from Photo Points 00, 02 and 06 agree with the radially plotted position. This point was pricked and drilled. The position as shown on Survey No. T-11660 (Project PH-5907) falls 0.8 mm to the west. The field cut from Cord (VFC), 1933 fell approximately 0.5 mm to the south. These latter two were disregarded:

Respectfully submitted July 8, 1963

Leroy A. Senasack Cartographer (Photo) U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

FORM C&GS-164 (4-68) USCOMM-DC 50318-P68

SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)											
SCALE OF MAP 1:10,000 SCALE	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	38 <sup>o</sup> 05 <sup>i</sup> 28 <sub>•</sub> 34918 <sup>ii</sup> 75 <sup>o</sup> 13 <sup>i</sup> 28 <sub>•</sub> 06055 <sup>ii</sup>	051	031								
SCA	DATUM	NA 1927	ŧ	ŧ					,	•		1
NO. PH=6103	SOURCE OF INFORMATION (INDEX)	Vol. 2 pg. 615	Vol. 2 pg. 413	Vol. 2 pg. 613								
MAP T- 12090 PROJECT NO.	STATION	TURNAGAIN MSFC, 1907	GREEN RIN, 1959	FREEMAN, 1962								

DATE

CHECKED BY

DATE

COMPUTED BY

## COMPILATION REPORT

## T-12090

There was no compilation report with the data for this survey at the time of final review.

January 14, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET .

PH-6103 (Maryland & Virginia)

T-12090

Assateague Island Atlantic Ocean Bay Creek Bay Island Bay Point Chincoteague Bay Cobblers Island Fox Hill Levels Green Run Bay Inlet Slough Lone Pand Middlemoor Thorofare Pirate Islands Rum Harbor Marsh Scotts Landing Scotts Point Sugar Point Whittingtons Point

Approved by:

A. Joseph Wraight

Chief Geographer

Prepared by:

Frank W. Pickett

Cartographic Technician

FORM C&GS-1002			U.	S. DEPARTMENT OF COMMERCE ESSA
(9-99)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
	FHU		12090	
I. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
ELR	EL	ıR	ELR	ELR
CONTROL STATIONS				
5. HORIZONTAL CONTROL STA	ATIONS OF	6. RECOVERAL	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
ELR	OC UNAC 1	(Topographi	e efetions) XX	XX`
	16			
8. BENCH MARKS	9, PLOTTING C		10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	XX	•	ELR	ELR
ALONGSHORE AREAS (Nautical	Chert Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
ELR	EL	R	ELR	ELR
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
ELR	EL	iR	ELR	ELR
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
ELR		]	ELR	χχ
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES
XX	XX	•	XX	xx
CULTURAL FEATURES				
T	28. BUILDINGS	<del></del>	29. RAILROADS	30. OTHER CULTURAL
27. ROADS	200 BUILDINGS	;	27 RAILROADS	FFATURES
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## FIELD EDIT REPORT

T-12090

This survey was not field edited.

#### REVIEW REPORT T-12090

#### SHORELINE

#### JANUARY 20, 1972

#### 61. GENERAL STATEMENT

See Summary, which is page 6 of the Descriptive Report.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of registered survey T-8156, 1:20,000 scale made in 1942. The two surveys are in agreement except along the outer coast where the shoreline has eroded approximately 50 meters.

Survey T-8156 is superseded by T-12090 for nautical chart construction purposes.

#### 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS WHITTINGTON POINT, MD., VA., 1:24,000 scale quadrangle, edition of 1942. This map is identical with T-8156 and any differences that exist between T-8156 and T-12090 will also exist between this survey and T-12090.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys within the area of this map.

#### 65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with chart 1220, 18th edition, July 17, 1971. The two surveys appear to be in good general agreement.

## 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and was found to be adequate for nautical chart construction purposes.

Reviewed' by:

Les S. Bengnet Cartographer

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA

Chief, Photogrammetry Division, AMC

Approved:

Al red C. Holmes, RADM, NOAA Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branchy Chief, Coastal Mapping Division