12089

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-12089
LOCALITY
State Maryland
General locality Worcester County
Locality Big Bay Point to Figgs Landing
<u>19 61-</u> 1963
CHIEF OF PARTY Ray M. Sundean Chief of Party Miller J. Tonkel, Baltimore Dis. Office

LIBRARY & ARCHIVES

DATE

FORM C&GS-181a (9-55)		E	ENVIRONMENTAL S	U.S. DEPARTMENT OF COMMERCE CIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY
	DESCRIPTIVE REP	ORT - DATA	A RECORD	COAST AND GEODETIC SOUTE
		r - 12089		
JECT NO. (II):				,
PH-6103		-		
FIELD OFFICE (II)		***	CHIEF OF PARTY	,
Snow Hill, Ma	antil and		Ray M. Su	
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHAI	
,				
Baltimore, M	aryıand ————————		Miller J.	TOURET
INSTRUCTIONS DATED (II) (III): II 20 Nove III 24 Octo 26 July		I		
METHOD OF COMPILATION (III): Kelsh Plotte	r			
MANUSCRIPT SCALE (III):		STEREOSCO	OPIC PLOTTING INS	TRUMENT SCALE (III):
1:10,000		1:6,00	าด	
				AL CHART BRANCH (IV):
APPLIED TO CHART NO.	<u> </u>	DATE:		DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): NA 1927			Elevations shown	M (III): MHW IXEXCEPT AS FOLLOWS: as (25) refer to mean high water as (5) refer to sounding datum er or mean lower low water
	f third-order or h	nigher ac	L ccuracy with	nin limits of map.
LAT.:	LONG.:		ADJUSTED UNADJUSTED	
PLANE COORDINATES (IV):			STATE	ZONE
Y =	X =	RED BY (II) F	IELD PARTY, (III)	PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE. When entering names of Person				i



DESCRIPTIVE REPORT - DATA RECORD

IELD INSPECTION BY (II):		DATE:
Robert S. Tibbetts	•	JanFeb. 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	
Kelsh Plotter and fi	ield inspection photograp	hs
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Roundtree		8-29-62
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
I. Y. Fitzgerald		9-10-62
CONTROL PLOTTED BY (III):		DATE
L. A. Senasack		4-3-63
CONTROL CHECKED BY (III): L.O. Neterer		DATE 4-3-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT H. P. Eichert L. A. Senasack	TENSION BY (IIII):	DATE 3-22-63 6-6-63
STEREOSCOPIC INSTRUMENT COMPILATION (III)		DATE
	L. O. Neterer	4-19-63 DATE
MANUSCRIPT DELINEATED BY (III):		DATE
R. F. Carr		5-21-63
SCRIBING BY (III):		DATE
J. Cregan		5-30-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE

DESCRIPTIVE REPORT - DATA RECORD

ERA (KIND OR SOURCE) (III):

Wild RC-8

	Pì	OTOGRAPHS (III)		
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
51S9298-9299 52W3760 53W3382-3383	5-25-61 4-28-62 3-3-63	0905 0930 1010	1:30,000 1:20,000 1:30,000	0.2 ft. above MIW 0.2 ft. above MIW 0.4 ft. above MIW

TIDE (III)				
		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sandy Hook, New Jersey			4.6	5.6
Snow Hill Landing, Maryland		0.09	0.4	0.5
SUBORDINATE STATION:]		
WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, A	MC	Jan.	1972∈	_
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	D: 0	
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	0	_
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	0			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	0	•		

REMARKS:

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•	COMPILATION RECORD	COMPLETION DATE	REMARKS	
	Compilation complete	May 1963	,	
	Final Review	J an. 1972		G. T

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PROSEST PROSES

PROSESTOR CAPPING

SCALE, 1:10,000

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12089

Shoreline survey T-12089 covers a part of the west shore of Chincoteague Bay in the vicinity of Big Bay Marsh. This is one of twenty-one similar maps in project PH-6103. The primary purpose of the maps 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 whorizontal 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 methods using the photography of May 1961 and March 1963. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude which 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-120°5, T-12086, T-12088 T-12089, T-12091, and T-12092

PROJECT PH-6103 CHINCCTRAGUE PAY, MAPYLAND

2. Areal Field Inspection

The ones covered by these six maps is located on the western and northern sides of Chinocteapue Bay. The maps of the Barrier Islands were purposely excluded at this time because of revision needed due to the coastal storm of 6 March, 1962. The other maps will be submitted when the new photography has been inspected and control identified.

Chinecteague Bay is senerally sheel with the major small beat channels marked by aids. The bay is chiefly used by small pleasure beats and shellow-draft vessels operated by commercial crab and cyster fishermen.

The land area of the maps consists mainly of marsh

ereas along the shore.

On maps T-12083 (to be submitted later) and T-12086 color photograpy was taken of fixed aids to navigation. Most of these photos were over open water; therefore, the aids were out-in from triangulation stations.

The quality of the photographs was fair. The aids on maps T-12088, T-12089, T-12091, and T-12093 (to be submitted later) were cut-in from photo points as they could not be seen on the photographs.

It is believed enough photographic tones have been labeled to clarify all tones for the compilers.

3. Forizontal Control

All stations indicated on the project diagram were searched for. Requirements for horizontal control identification as indicated on a special copy of the project diagram were met. Trianculation station LAWPENCE, 1950 was substituted for station ECLETCH, 1942 which could not be recovered.

3. Herizontal Control Contid

The following stations are lost or destroyed and reported on Form 526:

T-12085
ROBINS MAPSE 1933

35091-T

T-12088 NONE T-12091 MOVEY 1907

PUPNETI (VPC) 1933 GREENPACKVILLE, GPACE M. E. CRUPCH, 1907

T-12092 LONG (VFC) 1933 LONG FOINT 1902 LONG POINT (M.S.F.C.)1907

4. Vertical Control

There are no tidal bench marks within the areas of these maps.

5. Contours and Drainage

Prainage consists of small creeks and systems of mosquito control ditches in marsh areas. The ditches are readily apparent and were indicated on the photographs.

6. Woodland Cover

The tree areas are mostly pine with some small areas interspersed with hardwoods.

7. Shoreline and Alongshore Features

The shoreline is mostly apparent. Mearly all the shoreline on these maps is a fringe of marsh. The entire shoreline was inspected by skiff and has been indicated on the photographs. There are occasional short stretches of shoreline that are fast land containing sand or shell.

The shoreline was reinspected by skiff after the coastal storm of 6 March, 1962. Due to the flooding of the marsh areas the storm had no offect on the shore-line on the west side of Chincoteague Bay.

On map T-12092 some alongshore features were changed. These have been indicated on the photographs.

8. Offshore Features

There are no offshore features worthy of mapping.

9. Landmarks and Aids

There are no outstanding landmarks on these maps to be charted.

Fixed aids to navigation are adequately covered on Form 567.

10. Boundaries, Monuments, and Lines

The Maryland-Virginia state line can be established from the geographic positions of the three monuments along the line which are triangulation.

A copy of the General Highway Map of Wordester

County Maryland is enclosed.

The approximate limits of the Girdletree Wildlife Pemonstration Area controlled by the state of Maryland was delineated according to information supplied by Mr. Hamilton Brimer, caretaker of the reserve.

11. Other Control

Four previously marked topographic stations were searched for and two were recovered.

BEVENS WINDMILL (T-12085), and C-58 (T-12088), were recovered. BAY (T-12089) and FUR (T-12092) were not recovered. Forms 524 have been submitted on all these stations.

The recovered topographic stations were reident-

ified on the photographs for this project.

Photo points of natural and physical features were marked with copperweld stakes to provide supplemental horizontal control for the Maryland Department of Tidewater Fisheries. These points were spaced to provide control for visual sextant fixes anywhere in the bay area. The points are identified on the ratio prints and a descriptive sketch of each location was made on the backs of the photographs.

12. Other Interior Features

All reads and buildings have been inspected and classified in accordance with Photogrammetry Instructions Numbers 54 and 56.

The shore ends of all everhead power lines and submerged cables have been indicated on the photographs.

12. Other Interior Features Cont'd

There are no airports or landing fields within this area.

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.

Special Report Coast Pilot, Project PR-6103, to be submitted at a later date.

Morcester County Highway Map enclosed with this data.

The field photographs and all other data for the compilation of these maps are submitted by Letter of Transmittal dated 23 March 1962.

Respectfully submitted 23 March 1962,

Ray M. Sundean Chief, Photo Party 723

PHOTOGRAMMETRIC PLOT REPORT PH-6103 Chincoteague Bay, Md.

March 1963

21. Area Covered

Complete or partial coverage of the following surveys in Chincoteague Bay:

T-12074 thru T-12086

T-12088

T-12089

T-12091

T-12092

See previous reports and sketches covering strips 7, 10, 11.

22. Method

Three strips were bridged and adjusted by analytic aerotriangulation, namely 13a, 13b, and 14.

The attempt was made at first to run one strip from 61S 9044 thru 9068. As the result was not satisfactory, the strip was run in two parts with an overlap of six models. This afforded a common area for comparison. In this second attempt photograph 61S 9044 was eliminated as its very short base caused a poor cantilever solution.

The bridges turned out satisfactorily as indicated by the closures in the sketch attached. Strip 13a appeared to be the stronger of the two and since the discrepancies between the two in the overlap area were small (only four points out of 57 as great as 0.3 mm at 1:10,000 scale and the majority insignificant) it was decided to accept the values from strip 13a rather than the mean of the two.

Strip 14, to the west, was needed as several models were required to complete coverage. It was run on one control point, DOWNS, 1955 Sub. Pt. "B" and five pass points from strip 13a. The adjustment was very satisfactory with closures of less than 0.2 minut 1:10,000 scale.

23. Adequacy of Control

Horizontal control complied with project instructions and was adequate. The sub points for station PINE, 1934, used as

a check showed closures larger than expected (see sketch attached). Seven other triangulation points in this strip held closely. Bridging results comply with National Standards of Map Accuracy for 1:10,000.

24. Supplemental Data

None

25. Photography

Photography was adequate with regard to overlap and definition. Additional photographic coverage is needed for compilation and will be provided. No further bridging is anticipated.

Submitted by:

Henry P., Eichert

Approved by:

Everett H. Ramey

Chief, Aerotriangulation Sec.

T-12085 T-12086 12092 38'00'00 6189058 DAVIS, 1932 (-0.6,+0.8); (-0.4, 0.0) 75 26 15"

LEGEND

A Control used in adjustment A Control used as check Closure of bridge to control shown in parenthesis ()

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 shereline surveys along Chincoteague Bay and Assateague Island. This radial plot was needed for the compilation of the area and islands west of the Aerotriangulation 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-PADIAL 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 coordinatograph.

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

Photographs:

Thirty (30) photographs ratioed 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-3736 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 h - 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 PH-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 GEODELIC SURVEY

FORM C&G5-164
(4-68)
USCOMM-DC
80318-P68

DESCRIPTIVE REPORT CONTROL RECORD

MAP T. 12089 PROJECT	PROJECT NO. PH-6103	SCA	SCALE OF MAP 1:10,000 SCALE	SCALE FACTOR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. ≈ 3048006 meter) FORWARD (BACK)
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	There are no st	stations of	f third-order or higher accuracy	cy within
	the limits of t	this map.		
COMPUTED BY	DATE		CHECKED BY	DATE

COMPILATION REPORT

T-12089

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

January 14, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6103 (Maryland & Virginia)

T-12089

Big Bay Marsh
Big Bay Point
Blue Pond
Chincoteague Bay
Cobblers Island
Easter Opening
Figgs Landing
Martin Bay
Martin Point
Mink Tump
Purnell Pond
Rattlesnake Island
Ready Cove
Ready Cove Tump
Robbins Tump
Rum Harbor Marsh
Scotts Hammocks
Watermelon Point

Approved by:

A. Joseph Wragght

Chief Geographer

Prepared by:

Frank W. Picketz

Cartographic Technician

FORM C&GS-1002	· · · · · · · · · · · · · · · · · · ·		U	S. DEPARTMENT OF COMMERCE
(9-66)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			12089	
1. PROJECTION AND	GRIDS 2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
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& BENCH MARKS	9. PLOTTING	UP SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
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ALONGSHORE AREAS	(Nautical Chart Date)			
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES
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PHYSICAL FEATURES				
20. WATER FEATURES	;	21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
ELR			ELR	ELR
23. STEREOSCOPIC INSTRUMENT CONT	rours 24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
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CULTURAL FEATURE	S			
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27. ROADS	28. BUILDINGS	· · · · · · · · · · · · · · · · · · ·	29. RAILROADS	30. OTHER CULTURAL FEATURES
27. ROADS				
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ELR BOUNDARIES 31. BOUNDARY LINES X MISCELLANEOUS 33. GEOGRAPHIC NAM ELR 36. DISCREPANCY OVE ELR 40. REVIEWER 41. REMARKS (See atta FIELD COMPLETION A 42. Additions and con	ELR SERLAY 37. DESCRIPTION ELR Rolle Ched sheet) ADDITIONS AND CORRECT Rections furnished by the	34. JUNCTION EI VE REPORT TIONS TO THE Mare field complete	ELR 32. PUBLIC LAND LINES XX S R 38. FIELD INSPECTION PHOTOGRAPHS E LR SUPERVISOR, REVIEW SECTION SUPERVISOR,	ELR 35. LEGIBILITY OF THE MANUSCRIPT ELR 39. FORMS ELR N OR UNIT
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FIELD EDIT REPORT

T-12089

This survey was not field edited.

REVIEW REPORT T-12089

SHORELINE

JANUARY 12, 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-8155, a 1:20,000 scale survey made in 1942. The two surveys were found to be in good general agreement.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS BOXIRON, MD.-VA. 1:24,000 scale quadrangle. This survey is identical with T-8155 and was found to be in agreement with T-12089.

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. No discrepancies were noted.

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:

Leo J. Dlugnu Leo F. Beugnet Cartographer

Approved for forwarding:

Melvin J. Ambach, CDR, NOAA

Chief, Photogrammetry Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division