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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

	78
Type of Survey Topographis Field No. Ph-61 (49) Office No. T-9835	
LOCALITY	
State North Carolina	
General locality Roanoke River	
Locality Plymouth	
194 51-54	
CHIEF OF PARTY	
H. F. Garber, Chief of Field Party J.E.Waugh, Tampa Photogrammetric Off	ice
LIBRARY & ARCHIVES	
DATE June 19, 1957	

B-1870-1 (1)

T - 9835

Project No. (II): Ph-61(49) Quadrangle Name (IV):

Field Office (II): Edenton, North Carolina

Chief of Party: Harry F. Garber

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 15 June 1951

Copy filed in Division of Photogrammetry (IV) Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

SEP 28 1953

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3-14-57

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): M5L

Mean sea level 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): PIPE STATION C-1, 1942 (U.S.E.)

Lat.: 35° 52° 07".691 (237.0 m.) Long.: 76° 44° 28".782 (722.1 m.)

Adjusted MONTH NAME OF

Plane Coordinates (IV):

State: North Carolina Zone:

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

160-451-0011								760-371-3011	2	
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1-	 					-				
										35°-451-00"

Areas contoured by various personnel (Show, name within area)
(II)

DATA RECORD

Field Inspection by (II): Warren M. Gottschlich,
Cartographic Survey Aid

Date: Sept., 1951

Planetable contouring by (II): Warren M. Gottschlich, Cartographic Survey Aid Date: July-Oct., 1951

Completion Surveys by (II): James E. Hundley

Date: June 1954

Mean High Water Location (III) (State date and method of location):

17 March 1951 Air Photo Compilation

Projection and Grids ruled by (IV): J. A. (W.O.)

Date: 24 Jan. 1952

Projection and Grids checked by (IV): H. D. W. (W.O.)

Date: 28 Jan. 1952

Control plotted by (III): R. E. Smith, Jr.

Date: 17 Mar. 1952

Control checked by (III): I. I. Saperstein

Date: 31 Mar. 1952

Radial Ploton Stereoscopic M. M. Slavney Communication by (III):

Date: 15 Aug. 1952

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Contours

Date:

Manuscript delineated by (III): R. Dossett, C. E. Downing, R. R. Wagner. (Completed by R. Dossett)

Date: 10 July 1953

Photogrammetric Office Review by (III): J. A. Giles

Date: 25 Aug. 1953

Elevations on Manuscript R. Dossett checked by XXX (III):

Date: 9 July 1953

		PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
33122	17 March 1951	1042	1:20,000	No Periodic tide
33123	11	1043	11	TI .
33124	11	1044	11	11
331.36	п	1107	11	11
	11	1108	11	#
33137	11	1109	n	TI .
33138	11	1110	11	THE STATE OF THE S
331.39	11	1132	11	II .
33151	11	1133	11	π
33152	п	1134	11	11
33153 33154	11	1135	11	11
of the first of				

Tide (III)

No periodic tide * Reference Station:

* Less than 1/2 foot. EMR Subordinate Station: Subordinate Station:

Washington Office Review by (IV): Everett H. Ramey

Final Drafting by (IV): 7. Johnson

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 60.5

Shoreline (More than 200 meters to opposite shore) (III): 0 Shoreline (Less than 200 meters to opposite shore) (III): 0.4

Control Leveling - Miles (II): 24.5 miles of fly levels Number of Triangulation Stations searched for (II): 8

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): 0
Number of Bench Marks Established: (II): 7
Number of Traverse Stations Established: (II): 2 Identified: Remarks:

Form T-Page 4

Ratio of Mean | Spring Ranges Range Range

Date: 20 Dec 1954

Date: 9-13-55

Date:

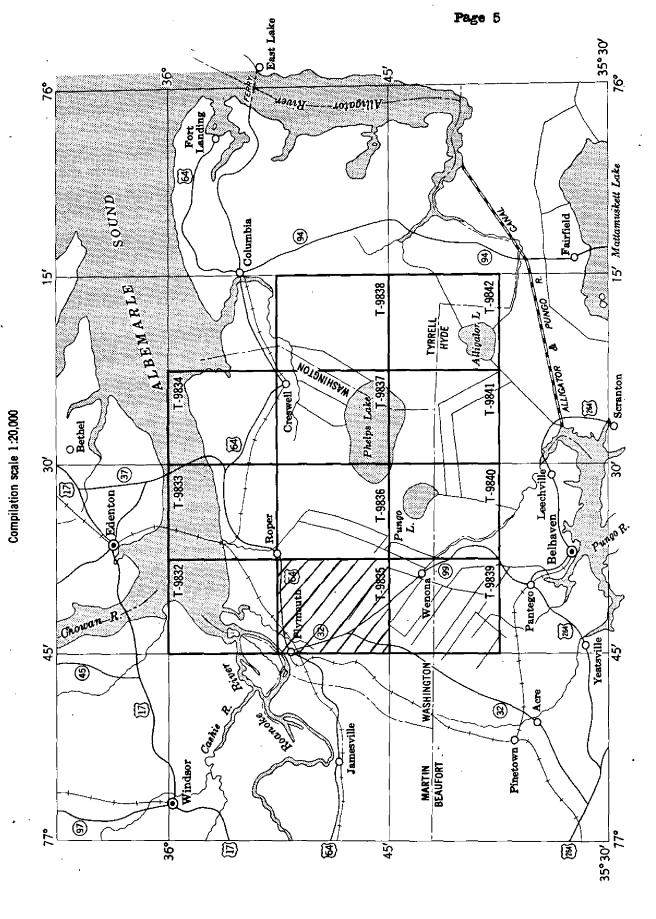
Date:

Identified: 3 Identified:

Recovered:

Recovered:

TOPOGRAPHIC MAPPING PROJECT PH-61-(49) NORTH CAROLINA, Albemarle Sound and Vicinity





Topographic map T-9835 is one of eleven similar maps in Project Ph-61(49). It covers portions of the Rosnoke River in North Carolina and adjacent land area to the southward.

Project Ph-61(49) is a graphic compilation project. Field work in advance of compilation included the recovery and identification of horizontal and vertical control, the establishment of some additional control, complete shoreline and interior inspection, the delineation of 5-foot contours directly on the photographs by planetable methods and the investigation of geographic names and political boundaries.

Map T-9835 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1951. The map was field edited. After the addition of hydrography the map will be published by the Geological Survey as a standard 72 topographic quadrangle.

Items registered under T-9835 will be a descriptive report, copies of the map manuscript at a scale of 1:20,000 and the published map at a scale of 1:21,000.



Topographic map T-9835 is one of eleven similar maps in Project Ph-61(49). It covers portions of the Roanoke River in North Carolina and adjacent land area to the southward.

Project Ph-61(49) is a graphic compilation project. Field work in advance of compilation included the recovery and identification of horizontal and vertical control, the establishment of some additional control, complete shoreline and interior inspection, the delineation of 5-foot contours directly on the photographs by planetable methods and the investigation of geographic names and political boundaries.

Map T-9835 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1951. The map was field edited. After the addition of hydrography the map will be published by the Geological Survey as a standard $7\frac{1}{2}$ topographic quadrangle.

Items registered under T-9835 will be a descriptive report, copies of the map manuscript at a scale of 1:20,000 and the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT

The field work for this quadrangle was done in accordance with the Topographic Manual and the project instructions. In addition to the phases shown on pages two and three, the work was accomplished by the following personnel:

Name and Title	Phase	<u>Date</u>
Warren M. Gottschlich, Cartographic Survey Aid	Vertical Control	July, 1951
Matthew A. Stewart, Cartographic Survey Aid	Vertical Control	August, 1951
James E. Hundley, Cartographer	Horizontal Control Traverse	Oct. & Nov., 1951
Henry R. Spies, Cartographic Survey Aid	Horizontal Control Traverse	December, 1951
Allen L. Powell, Lieutenant, USC&GS	Horizontal Control	July, 1951

2. AREAL FIELD INSPECTION

A portion of the town of Plymouth, the county seat of Washington County, is within the limits of this quadrangle. Plymouth is situated on the southern bank of the Roanoke River and has a small water front for handling river traffic.

The principal industries are agriculture, lumbering and manufacturing of paper and wood products.

The relatively high sandy land in the northern part of the quadrangle and a fringe along North Carolina Highway No. 32 in the western part is under cultivation. The remaining western part not under cultivation is covered with heavy underbrush and scattered pines. The east and central parts are swamp lands, and the southern part is burned over swamp land. This burned-over area, classified on the field photographs as marsh, is a black muck covered with a matted vegetation and a cat-tail grass that is five to six feet high.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

All known horizontal control stations were searched for and reported on Form 526. (Includes <.865. and C of E. Control) EMPL.

(a) Since horizontal control stations were rather sparse along the western limits of the project, a monumented third-order traverse was run from Pipe Station Cl USE, 1942 to Triangulation Station REKA, 1933. Also, a spur line was run from Cl-RE-1, 1951 to Canal D near Pungo Lake. No monumented stations were established along the spur line. A part of both of these traverses falls within the limits of this quadrangle. The following monumented control points were established within the limits of this quadrangle:

Cl-RE-1, 1951 Cl-RE-1A, 1951

A special Report on Horizontal Control for Ph-61(45) - including diagram - is filed with the

(b) No datum adjustments were made. Descriptive Report for F-9839.

4. VERTICAL CONTROL

(a) A third-order level line was run from the town of Plymouth along North Carolina Highways Nos. 32 and 99 to Pantego, N. C. The following bench marks were established within the limits of this quadrangle:

A-250, 1951 B-250, 1951 C-250, 1951 D-250, 1951 E-250, 1951 F-250, 1951 G-250, 1951

First order bench marks along the Norfolk and Southern Railroad in the vicinity of Plymouth were used for vertical control. These marks were established by the U.S.C.& G.S. in 1932. A list of these marks follows:

> J-25, 1932 K-25, 1932 L-25, 1932

All known bench marks were searched for and reported on Form 685A.

- (b) Fly levels were run to provide additional control for contouring. The largest closing error was 0.48 foot between 32-28 and 32-33; this line was adjusted.
 - .(c) The first and last fly level points are 35-1 and 35-61.

5. CONTOURS AND DRAINAGE

Planetable contouring at five-foot intervals was done directly on field photographs.

The northern part of the quadrangle is drained by the Roanoke River and its tributaries. The southern part is drained via canals and small streams by Pungo River.

6. WOODLAND COVER

The line of demarcation between woodland, swamp and marsh has been indicated on the field photographs sufficiently for the compiler to delineate the remainder.

7. SHORELINE AND ALONGSHORE FEATURES

The only shoreline in this quadrangle is a small portion of the Roanoke River running along the northern side of the town of Plymouth. The northern side of the river is apparent shoreline. The Plymouth water front, the southern side of the river, has been delineated on the field photographs.

The numerous ditches in the cultivated areas are small in Sec 35% size and have no value in depicting relief. The main canals and drainage ditches were indicated on the field photographs by turning the contours into them.

8. OFFSHORE FEATURES

There are no offshore features within the limits of this quadrangle.

9. LANDMARKS AND AIDS

Plymouth Water Tank and a stack are recommended for landmarks and are reported on Form 567. Attention is called to the erroneous published position of Plymouth Water Tank. (See recovery card.)

10. BOUNDARIES, MONUMENTS AND LINES

This will be the subject of a special report to be submitted at a latter date. * Report by James E. Hundley is filed under project data, Div. of Photogram metry. Edit.

11. OTHER CONTROL

The following recoverable topographic stations were established:

FIRE TOWER, 1951
PLYMOUTH WATER TANK, 1951

12. OTHER INTERIOR FEATURES

Roads and buildings were classified in accordance with the Topographic Manual. Telephone and power lines were delineated on the field photographs when not following roads. There are no bridges or cables over navigable water within the limits of this quadrangle.

13. GEOGRAPHIC NAMES

A project report on this subject will be submitted at a later date. Filed in Geographic Names Section, Div. of Charts.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See Items 10 and 13.

7 December 1951 Submitted by:

Allen L. Powell, Lieutenant, USC&GS

27 December 1951 Approved by:

WHarry & Garber Commander, USC&GS Chief of Party

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)				40%0+						TO THE PROPERTY OF			Removed in SHE	disturbed state.										20 March 1952
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DATUM																								R.J. Pate
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DATUM	N.A.	1927		=	-		:			=	•		,	=		=								DATE
SOURCE OF INFORMATION (INDEX)	G.Pis	15 34	Field	Comp			-		PLymouth		Plymouth	duad 1	James-	Quad 14	James-	Quad 17								erstein
STATION	YMOUTH, STACK,	7 7	-RE-1, 1951		-RE-1A, 1951		WANTED TO TOUR	Winds fit. "AA"	PE STATION A-1,	(USE)	PE STATION C-1,	7 (SIGN) 2h	PE STATION A-1,	42 (USE)	STATION B-1	(USE)	,	1						1 FT = .3048006 WETER COMPUTED BY. I. I. Saperstein
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COMPILATION REPORT T-9835

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9834.

31. DELINEATION.

Compiled graphically.

The photographs were of reasonably good scale. Photograph No. 33137 showed considerable tilt.

The field inspection was adequate.

32. CONTROL.

Sufficient secondary control was established and placement was such that no difficulty was encountered in securing detail points.

SUPPLEMENTAL DATA.

See \$14 None.

34. CONTOURS AND DRAINAGE.

A well defined and complicated system of drainage ditches is apparent on the photographs, in areas cleared for cultivation. The compiler has delineated his interpretation of the main drainage structure and eliminated many that appear to be of temporary nature.

See 356

No difficulty was encountered in the delineation of the contours which appear to be well characterized.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 7.

36. OFFSHORE DETAILS.

Reference Item 8.

37. LANDMARKS AND AIDS.

Reference Item 9.

38. CONTROL FOR FUTURE SURVEYS.

Two (2) recoverable topographic stations are being submitted on Form 524. They have been listed under Item 49.

39. JUNCTIONS.

A satisfactory junction has been made with T-9832 on the north, T-9836 on the east and T-9839 on the south. There is no contemporary survey on the west.

LO. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See 366

46. COMPARISON WITH EXISTING MAPS.

A comparison was made with the PLYMOUTH quadrangle, U.S. See §62 Corpors of Engineers, scale 1:125,000, a photogrammetric compilation of 1942. Except for highway survey changes, no outstanding differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS.

A comparison was made with Nautical Chart No. 1228, scale 1:80,000, published May 1937 and corrected to 23 June See § 65 1949. No comparable difference was noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossett Carto Photo Aid

APPROVED AND FORWARDED:

J. E. Waugh, Chief of Party

FIELD EDIT REPORT Project PH-61(49) Quadrangle T-9835

51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was completed in June, 1954.

Field edit data appears on the field edit sheet, discrepancy print, field photographs 33137, 33138, 33139, 33152 (1 of 2), and in this report.

A legend appears on the field edit sheet, which is self-explanatory.

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after field edit revisions have been applied.

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

The accuracy of the contouring, in general, is good.

Minor contour corrections, to improve expression, were made on photographs 33137, 33138 and 33152 (1 of 2).

54. RECOMMENDATIONS

Recommend that Item 55 - Examination of Proof Copy be discontinued for the following reason: It is believed that the field editor does a more thorough job of checking the accuracy of compilation of any area than some uninterested individual.

See 366

GEOGRAPHIC NAMES

Refer to Item 48 - Compilation Report.

Delete the following names:

- 1. BROOKS SCHOOL
- 2. COUNTY HOME SCHOOL

These buildings are no longer used as schools or County Home.

56 DRAINAGE

Refer to Item 34 - Compilation Report.

All feeder ditches have been deleted from the field edit sheet.

Additional main drainage has been shown on the field edit sheet and photograph 33152 (1 of 2).

OTHER INTERIOR FEATURES

Refer to Item 12 - Field Inspection Report.

The reclassification of roads and buildings, where justifiable, has been shown on the field edit sheet.

Additional buildings and roads have been shown on the field edit sheet and photographs 33138 and 33139, respectively.

58. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary surveys.

> 25 June 1954 Submitted by:

James E. Hundley Cartographer

25 June 1954 Forwarded by:

J. E. Waugh

CDR, USC&GS

Chief of Party

M-2623-12

50.

43. Remarks:

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9835

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) <u>J.G.</u> 7. Photo hydro stations <u>XX</u> 8. Bench marks <u>J.G.</u>
9. Plotting of sextant fixes <u>J.G.</u> 10. Photogrammetric plot report <u>J.G.</u> 11. Detail points <u>J.G.</u>
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline J.G. 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges J.G. 16. Aids
to navigation <u>J.G.</u> 17. Landmarks <u>J.G.</u> 18. Other alongshore physical features <u>J.G.</u> 19. Other along—
shore cultural features J.G.
PHYSICAL FEATURES
20. Water features <u>J.G.</u> 21. Natural ground cover <u>J.G.</u> 22. Planetable contours <u>J.G.</u> 23. Stereoscopic
instrument contours W 24. Contours in general L.G. 25. Spot elevations J.G. 26. Other physical
features J.G.
CULTURAL FEATURES
27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.
BOUNDARIES
31. Boundary lines J.G. 22. Public land lines XX
MISCELLANEOUS
33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy
overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.
40. Josse A Giles William A. Rasure
Reviewer Supervisor, Review Section or Unit
41. Remarks (see attached sheet)
42. (10.12.10 (4-1-2.10.10)
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

Review Report Topographic Map T-9835 20 December 1954

62. Comparison with Registered Topographic Surveys

T-922 1:20,000 1**8**64

There are many differences in culture and position of detail. Map T-9835 is to supersede this survey for nautical charting for the area encompassed by T-9835.

63. Comparison with Maps of Other Agencies

Plymouth Quadrangle (C. of E., 1:125,000) 1943

A visual comparison reveals some differences in culture and drainage.

- 64. Comparison with Comtemporary Hydrographic Surveys: None
- 65. Comparison with Nautical Charts

1228 1:80,000 1937 corrected to 53-5/11

Only minor differences in roads and drainage exist between this chart and T-9835. Changes made in the map subsequent to field edit are shown in red on a vinylite impression of the map manuscript.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with project instructions.

Reviewed by:

Everett H. Ramey

rverett n. namey

Approved by:

Chief: Review Branch

Chief, Nautical Chart Branch,

Division of Charts

Division of charcs

Chief, Division of

Photogrammetry M

Chief, Division of Coastal Surveys

5 april 1957

Review Report Topographic Map T-9835 20 December 1954

62. Comparison with Registered Topographic Surveys

T-922 1:20,000 1964

There are many differences in culture and position of detail. Map T-9835 is to supersede this survey for nautical charting for the area encompassed by T-9835.

63. Comparison with Maps of Other Agencies

Plymouth Quadrangle (C. of E., 1:125,000) 1943

A visual comparison reveals some differences in culture and drainage.

- 64. Comparison with Comtemporary Hydrographic Surveys: None
- 65. Comparison with Nautical Charts

1228 1:80,000 1937 corrected to 53-5/11

Only minor differences in roads and drainage exist between this chart and T-9835. Changes made in the map subsequent to field edit are shown in red on a vinylite impression of the map manuscript.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with project instructions.

Reviewed by:

Everett H. Ramey

Approved by:

Chief, Review Branch

Chief, Nautical Chart Branch, Division of Charts

Chief, Division of Photogrammetry Chief, Division of Coastal Surveys

49. NOTES FOR THE HYDROGRAPHER.

Following is a list of recoverable topographic stations for use by the hydrographer:

FIRE TOWER, 1951

PLYMOUTH WATER TANK, 1951

48. ŒOGRAPHIC NAME LIST

BERTIE COUNTY BROOKS SCHOOL

See \$ 55

CONABY CREEK COUNTY HOME SCHOOL - See \$55

EAST DISMAL SWAMP

LILY VALLEY CHURCH LEES MILIS TOWNSHIP

· MACEDONIA MORATTOCK CHURCH

NORTH CAROLINA NORFOLK - SOUTHERN RAILROAD

OLD TURNPIKE

PINERIDGE PLYMOUTH PLYMOUTH TOWNSHIP

ROANOKE RIVER

STATE 32 STATE 99 SKINNERS CANAL

TIDEWATER EXPERIMENT STATION

U. S. 64 . UNION CHAPEL CHURCH

Washington County Courthouse. Ma Atlantic Coast Line L Na

Names approved 9-4-03 on basis of project

Names report:

L. Heck

Re-chacked 12-20-59

PHOTOGRAMMETRIC REVIEW BRANCH Form 567 April 1945

DEPARTMEN

OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

MONINCOLLEGISTICS OF LANDMARKS FOR CHARTS

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9 July

Tampa Photogrammetric Office, Tampa, Fla.

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STRIKE OUT ONE SKOKERE DE KINTEREK

TO BE CHARTED

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

Rudolph Josept The positions given have been checked after listing by

CHARTS AFFECTE Chief of Party. 1228 1228 OFFSHORE CHART M M INSHORE CHART HARBOR CHART LOCATION DATE OF 1881 त्र Triang. J. B. Waugh 3ad.Plot T-9835 LOCATION AND SURVEY No. METHOD DATUM N.A. 1927 • D. P. METERS 29.164 23.3 LONGITUDE * 3 3 POSITION ۰ 2 2 26.313 811.0 "D.M.METERS 03.99 LATITUDE* K Š 0 Ж K SIGNAL (Plymouth Stack, 1931) ht = 150(156) teal, klev. (Flymouth Water Tenk) ht = 90(101) of two DESCRIPTION White, Elev. (Taller NORTH CAROLITIA CHARTING NAME STACK TANK STATE

and the second of the second o This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The class should be accorded on this form.

16

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>9835</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
C 10 /-	1220	12	Complete Application
6-19-62	1558	Клоор	Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.