

TP- 01325

TP- 01325

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

<i>Map No.</i> TP-01325	<i>Edition No.</i> 1
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<i>Job No.</i> CM-8409

<i>Map Classification</i> CLASS III (FINAL)
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<i>Type of Survey</i> SHORELINE

LOCALITY

<i>State</i> VIRGINIA

<i>General Locality</i> NORFOLK SHIP CHANNEL

<i>Locality</i> ELIZABETH RIVER

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19 82 TO 19

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REGISTERED IN ARCHIVES

DATE

MAP NOT INSPECTED BY
QUALITY CONTROL OF PHOTOGRAMMETRY BRANCH
PRIOR TO REGISTRATION

NOAA FORM 76-36A (3-72) DESCRIPTIVE REPORT - DATA RECORD	U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>01325</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III (FINAL)</u> JOB <u>PH. CM-8409</u>
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE A. Y. Bryson, CDR	LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__		
I. INSTRUCTIONS DATED			
1. OFFICE	2. FIELD		
Compilation performed as specified by C&GS Topographic Manual, Part II and applicable National Ocean Service Instructions There was no project instructions furnished for this project.	Reference - National Ocean Service Photogrammetry Instruction No. 22, dated September 30, 1965		
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN	OTHER (Specify)		
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL	OTHER (Specify)		
3. MAP PROJECTION	4. GRID(S)		
Lambert Conformal Projection	STATE Virginia	ZONE South	
5. SCALE 1:10,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS	NAME	DATE	
1. AEROTRIANGULATION BY NA			
METHOD: None LANDMARKS AND AIDS BY NA			
2. CONTROL AND BRIDGE POINTS PLOTTED BY W. McLemore, Jr		July 1983	
METHOD: Xynetics CHECKED BY R. Kravitz		Sept. 1983	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY R. Kravitz		July-Sept. 1983	
COMPILATION CHECKED BY F. Mauldin		July-Sept. 1983	
INSTRUMENT: Wild B-8	CONTOURS BY NA		
SCALE: 1:10,000	CHECKED BY NA		
4. MANUSCRIPT DELINEATION PLANIMETRY BY R. Kravitz		Sept. 1983	
METHOD: Smooth drafted	CHECKED BY W. McLemore, Jr.	May 1984	
SCALE: 1:10,000	CONTOURS BY NA		
	CHECKED BY NA		
	HYDRO SUPPORT DATA BY NA		
	CHECKED BY NA		
5. OFFICE INSPECTION PRIOR TO FINAL REVIEW FINAL REVIEW BY W. McLemore, Jr.		May 1984	
6. APPLICATION OF FIELD EDIT DATA BY NA			
	CHECKED BY NA		
7. COMPILATION SECTION REVIEW CLASS III BY W. McLemore, Jr.		May 1984	
8. FINAL REVIEW CLASS III FINAL BY James L. Byrd, Jr.		July 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY James L. Byrd, Jr.		Aug. 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY P. Hawkins		Oct. 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY E. DAUGHERTY		NOV 1984	

T-01325
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-10(B) (B=152.74mm) Wild RC-8 (E) (E=152.71mm)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
82 E(C) 0814 - 0818	4-24-82	10:40	1:30,000	0.1 below MHW	
82 B(C) 5254 - 5255	5-09-82	09:42	1:40,000	0.4 below MHW	
				Mean Tide Range = 2.8 ² ft.	

REMARKS All photographs are based on predicted tide data using Reference Station Hampton Roads, Virginia and Subordinate station Norfolk, Virginia.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water Line was compiled from office interpretation of the 1:30,000 and 1:40,000 scale compilation photographs using stereo instrument methods.

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

No Mean Low Water Line was 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

REMARKS This 1:10,000 scale manuscript has a 1:5,000 scale map (TP-01326) within its limits. See item #39 of the Compilation Report.

TP-01325

HISTORY OF FIELD OPERATIONS

<input checked="" type="checkbox"/> CONTROL RECOVERY <input checked="" type="checkbox"/> FIELD INSPECTION OPERATION		<input type="checkbox"/> FIELD EDIT OPERATION	
OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	W. T. McLemore, Jr.	July 1983	
2. HORIZONTAL CONTROL	RECOVERED BY	W. T. McLemore, Jr.	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY	W. T. McLemore, Jr.	
	LOCATED (<i>Field Methods</i>) BY	NA	
	IDENTIFIED BY	NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (<i>Clarification of details</i>)			
None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (<i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i>)			
None			

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	May 1984	Class III manuscript	None	None
Final Review Class III	July 1984	Final Class III Map No field edit performed	OCT 24 1984	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH			
PAGES EXEMPT	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
5		OCT 24 1984	Landmarks and Aids to Navigation

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

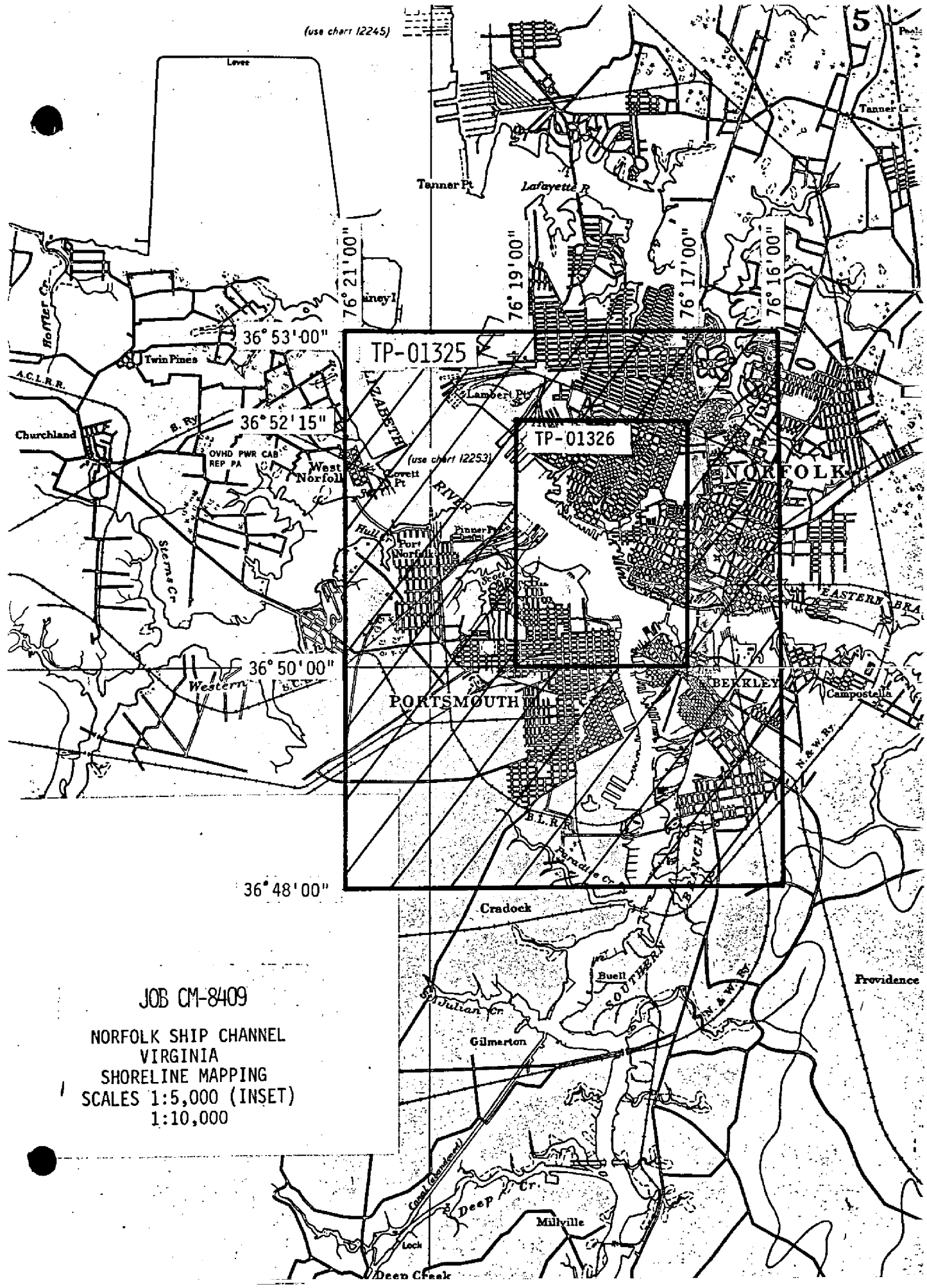
III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. 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)

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

(use chart 12245)



36° 48' 00"

JOB CM-8409
 NORFOLK SHIP CHANNEL
 VIRGINIA
 SHORELINE MAPPING
 SCALES 1:5,000 (INSET)
 1:10,000

TP-01325

TP-01326

PORTSMOUTH

NORFOLK

BEKLEY

Craddock

Buell

Gilmarton

Millville

Providence

Deen Creek

Lock

Deep Cr.

Coal (Anchose)

St. Julian Cr.

Cooper

W. N. & W. R.

W. N. & W. R.

W. N. & W. R.

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W. N. & W. R.

76° 21' 00"

76° 19' 00"

76° 17' 00"

76° 16' 00"

36° 53' 00"

36° 52' 15"

36° 50' 00"

36° 48' 00"

A.C.L.R.R.

Churchland

OVHD PWR CAB
REP PA

West
Norfolk

Western

(use chart 12253)

ELIZABETH RIVER

Port
Norfolk

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Lafayette P.

Tanner Pt.

Lambert Pt.

Lambert Pt.

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Lambert Pt.

Lambert Pt.

Tanner Cr.

EASTERN BR.

Camptella

N. & W. R.

N. & W. R.

N. & W. R.

N. & W. R.

N. & W. R.

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N. & W. R.

5

Photo

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01325

This 1:10,000 scale Final Class III shoreline map is one of two maps comprising project CM-8409, Norfolk Ship Channel, Virginia.

The purpose of this project is to provide current charting information for nautical chart maintenance.

This Final Class III map features the shoreline along the Elizabeth River from Jones Creek to Lamberts Point.

Photo coverage was adequately provided by natural color photography. The 1:30,000 scale photographs were taken with the Wild RC-10 (E) camera in April 1982. The 1:40,000 scale photographs were taken with the Wild RC-10 (B) camera in May 1982.

Field work prior to compilation consisted of the recovery of horizontal control necessary for absolute orientation of stereo models. This activity was completed in July 1983.

Ratio values for photographs were determined and ratioed photographs were adequately provided by the Washington Science Center in July 1983.

The base manuscripts with control were ruled at the Atlantic Marine Center by the Xynetics plotter in July 1983.

Compilation, based upon photo-interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in September 1983. Compilation office review was performed in May 1984.

No field edit will be accomplished for this map.

Final review was performed at the Atlantic Marine Center in July 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch.

This Descriptive Report contains all pertinent information used to compile this Final Class III map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

7

FIELD INSPECTION

TP-01325

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery of the horizontal control necessary for the absolute orientation of the stereo models.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01325	STATION NAME	JOB NO. CM-8409	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODEIC DATUM NA 1927		GEOGRAPHIC POSITION		REMARKS
					STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
PORTSMOUTH CHURCH NO. 1, 1916		Quad 3607614 STA 4308		1	X=		ϕ 36°49'38.155"		
					Y=		λ 76°18'02.319"		
SOUTH NORFOLK MUNICIPAL WATER TANK, 1958		Quad 3607614 STA 4323		7	X=		ϕ 36°49'29.213"		
					Y=		λ 76°16'43.602"		
NORFOLK ST. MARKS CATHOLIC CHURCH SPIRE, 1958		Quad 3607614 STA 4266		10	X=		ϕ 36°50'49.549"		
					Y=		λ 76°16'58.606"		
CALVARY BAPTIST CHURCH, CUPOLA, 1932		Quad 3607614 STA 4267		11	X=		ϕ 36°51'23.84"		
					Y=		λ 76°16'40.64"		
WEST NORFOLK, VIRGINIA SMELTING COMPANY, SOUTH STACK, 1950		Quad 3607614 STA 4330		21	X=		ϕ 36°51'43.611"		
					Y=		λ 76°20'32.540"		
WEST NORFOLK, VIRGINIA SMELTING COMPANY, WATER TANK, 1950		Quad 3607614 STA 4331		22	X=		ϕ 36°51'46.002"		
					Y=		λ 76°20'44.369"		
WHITEHOUSE COFFEE TANK, 1932		Quad 3607614 STA 4332		23	X=		ϕ 36°49'39.44"		
					Y=		λ 76°18'34.72"		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
COMPUTED BY				DATE	COMPUTATION CHECKED BY				DATE
LISTED BY W. T. McLemore, Jr.				DATE 9/13/83	LISTING CHECKED BY James L. Byrd, Jr.				DATE 7/14/83
HAND PLOTTING BY				DATE	HAND PLOTTING CHECKED BY				DATE

COMPILATION REPORT
TP-01325

31 - DELINEATION

Delineation was accomplished using stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:30,000 and 1:40,000 scale compilation color photographs.

All photographs used to compile this map are listed on NOAA Form 76-36B. The photography was adequate.

32 - CONTROL

No field photo-identification was necessary for horizontal control due to the density and placement of office identifiable NGS third order intersection stations within the project area. The stereo models were controlled with an average of 4 identifiable stations per model.

U.S. Geological Survey quadrangles were used to provide vertical control for leveling the stereo models. The density and distribution of quadrangle elevations were adequate.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line was compiled from office interpretation of the photographs as described in item #31. There was no mean low water line compiled for this project.

Details were compiled as they were at the date of photography. Areas under construction at the time of photography were annotated on the manuscript. See item #39.

36 - OFFSHORE DETAILS

Offshore details were compiled by instrument methods as described in item #31.

TP-01325

37 - LANDMARKS AND AIDS

There are 17 charted landmarks and 19 charted navigational aids within the mapping limits of this manuscript. Among these, 15 landmarks and 13 aids were either located or verified photogrammetrically. Appropriate information was prepared on the 76-40 forms and submitted with this map.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item #5.

Due to construction in progress and a one year difference in the time of photography between that used for this map and that used for TP-01326, the mean high water line (approximate Latitude $36^{\circ}50.0'$, Longitude $76^{\circ}17.5'$) would not junction with inset TP-01326. This area was labeled "area under construction" on this map and TP-01326.

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey quadrangles: Norfolk South, VA, 1:24,000 scale, dated 1965, photorevised 1980; and Norfolk North, VA, 1:24,000 scale, dated 1965, photorevised 1970 and 1973.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 12253, 33rd edition, dated July 30, 1983, 1:20,000 scale; 12245, 46th edition, dated July 30, 1983, 1:20,000 scale; 12206, 22nd edition, dated February 4, 1984, 1:40,000; 12222, 29th edition, dated June 11, 1983, 1:40,000 scale; 12221, 53rd edition, dated August 20, 1983, 1:80,000 scale; and 12207, 15th edition, dated August 15, 1981, 1:80,000 scale.

Discrepancies between the charts and the manuscript are reported on the chart maintenance print.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

TP-01325

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

*James T. Byrd, Jr.*Robert R. Kravitz
Cartographic Technician
September 1983

Approved,

*James L. Byrd, Jr.*James L. Byrd, Jr.
Chief, Coastal Mapping Unit

REVIEW REPORT TP-01325
SHORELINE

61. GENERAL STATEMENT

This project was planned in the Photogrammetric Section at the Atlantic Marine Center.

No aerotriangulation operations were performed for this project due to the density and placement of existing horizontal control in the project area. See item #32 in the Compilation Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following USGS quadrangles: Norfolk South, VA, 1:24,000 scale, dated 1965, photorevised 1980; and Norfolk North, VA, 1:24,000 scale, dated 1965, photorevised 1970 and 1973.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Not applicable.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 12253, 33rd edition, dated July 30, 1983, 1:20,000 scale; 12206, 22nd edition, dated February 4, 1984, 1:40,000 scale; 12222, 29th edition, dated June 11, 1983, 1:40,000 scale; 12221, 53rd edition, dated August 20, 1983, 1:80,000 scale; 12207, 15th edition, dated August 15, 1981, 1:80,000 scale; and 12245, 46th edition, dated July 30, 1983, 1:20,000 scale.

Differences between the charts and this map are reported on the Chart Maintenance Print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Topo Manual, Part II and applicable NOS Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by,
James L. Byrd, Jr.
James L. Byrd, Jr.
Final Reviewer

Approved for forwarding,

B. H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Michael L. DuBoulay

Chief, Photogrammetric Section, Rockville

for

Michael L. DuBoulay

Chief, Photogrammetry Branch
Rockville

for

April 12, 1984

GEOGRAPHIC NAMES

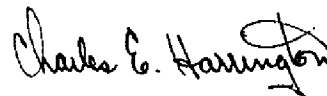
FINAL NAME SHEET

CM-8409 (Norfolk Harbor and Elizabeth River, Virginia)

TP-01325

Berkley
Chesapeake
Eastern Branch
Elizabeth River
Gilligan Creek
Greenbriar
Jones Creek
Jordan Bridge (cultural)
Lamberts Point
Lamberts Point Terminal
Lovett Point
Norfolk
Norfolk and Portsmouth Belt Line (RR)
Norfolk and Western (RY)
Norfolk Southern (RR)
Paradise Creek
Pescara Creek
Pinner Point
Port Norfolk
Portsmouth
Scott Creek
Scuffeltown Creek
Seaboard System (RR)
Southern Branch
Spotico Creek
Western Branch
West Ghent
West Norfolk

Approved by;



Charles E. Harrington
Chief Geographer
Nautical Charting Division

DISSEMINATION OF PROJECT MATERIAL

CM-8409

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Brown Jacket:

3 Envelopes Containing Contacts and Film Positives

NOAA Forms 76-15

75-82

163

BUREAU ARCHIVES

Registered Copy of Each Map

Descriptive Report of Each Map

REPRODUCTION DIVISION

8x Reduction Negative of Each Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NON-EXHAUSTIVE FOR LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> COMPILATION ACTIVITY <input checked="" type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)		
CHARTING NAME	DESCRIPTION <small>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</small>	STATE	LOCALITY	DATE	POSITION			METHOD AND DATE OF LOCATION <small>(See instructions on reverse side)</small>			CHARTS AFFECTED			
					LATITUDE	LONGITUDE	DATUM	OFFICE	FIELD					
		REPORTING UNIT <small>(Field, Party, Ship or Office)</small>	STATE	LOCALITY	D.M. Meters	D.P. Meters	D.M. Meters	D.P. Meters	OFFICE	FIELD	CHARTS AFFECTED			
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		Coastal Mapping Unit, AMC, Norfolk, VA	Virginia	Norfolk Ship Channel										
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		JOB NUMBER	SURVEY NUMBER	D.M. Meters			D.P. Meters							
OPR PROJECT NO.	CM-8409	TP-01325	NA 1927	D.M. Meters			D.P. Meters							
* TR			36	76	20.6				NOT VISIBLE		12253 12245 ✓ HK NC 12222 12206			
SPIRE	(Norfolk St. Marks Catholic Church Spire, 1958)		36 50	49.549	76 16	58.606			82 E(C) 0816 4-24-82	Triang. Rec. 7/83	12253 12206			
ELEVATOR			36 51	17.3	76 19	54.8	1358		82 E(C) 0817 4-24-82		12253 12222 12206			
STACK	W. Norfolk		36 51	49.2	76 20	37.6	932		82 E(C) 0817 4-24-82		12253 12222 12206			
TANK	(West Norfolk, Virginia Smelting Company Water Tank, 1950)		36 51	46.002	76 20	44.369			82 B(C) 5254 5-09-82	Triang. Rec. 7/83	12253 12222 12206			
SOUTHERLY OF TWO STACKS	(West Norfolk, Virginia Smelting Company South Stack, 1950)		36 51	43.611	76 20	32.540			80 E(C) 0817 4-24-82	Triang. Rec. 7/83	12253 12222 12206			
* TANK			36	76	20.8				BEYOND MODEL LIMITS		12253			
TANK			36 49	47.8	76 17	20.6	510		82 E(C) 0816 4-24-82		12253 12206			
CRANE			36 49	33.0	76 17	37.2	923		82 E(C) 0816 4-24-82		12253 12206			
	*Position scaled from chart.			1016										

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Robert R. Kravitz
<p align="center">INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)</p>	
<p>OFFICE</p> <p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified P - Photogrammetric Vis - Visually</p> <p>1 - Triangulation 5 - Field Identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>
<p><input type="checkbox"/> PHOTO FIELD PARTY</p> <p><input type="checkbox"/> HYDROGRAPHIC PARTY</p> <p><input type="checkbox"/> GEODETIC PARTY</p> <p><input type="checkbox"/> OTHER (Specify)</p>	<p>FIELD ACTIVITY REPRESENTATIVE</p>
<p><input type="checkbox"/> REVIEWER</p> <p><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE</p>	<p>OFFICE ACTIVITY REPRESENTATIVE</p>

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NON-NAVIGATIONAL AIDS OR LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY									
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.										<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)									
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		LOCALITY		DATE		METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED			
		CM-8409		TP-01325				NA 1927		Norfolk Ship Channel		Aug. 1983		OFFICE		FIELD			
CHARTING NAME		DESCRIPTION		LATITUDE		LONGITUDE		POSITION		D.M. Meters		D.P. Meters		OFFICE		FIELD			
		(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		° /		° /		D.M. Meters		D.P. Meters									
TANK	(South Norfolk Municipal Water Tank, 1958)	36 49	29.213	76 16	43.602									82 E(C) 0815 4-24-82	Triang. Rec. 7/83	12253 12206			
WHITE STACK BLACK TOP		36 49	09.3	76 17	57.6									82 E(C) 0815 4-24-82		12253 12206			
GRAIN ELEV.	Highest Part	36 48	00.6	76 17	45.9									82 E(C) 0814 4-24-82		12253 12206			
MARKER	On Deperming Range	36 52	09.3	76 20	01.6									82 E(C) 0817 4-24-82		12253			
TOWER	Ovhd. cab	36 50	29.3	76 16	22.3									82 E(C) 0816 4-24-82		12253			
TOWER	Ovhd. cab	36 50	10.1	76 16	23.6									82 E(C) 0816 4-24-82		12253			
MARKER		36 51	41.0	76 19	46.8									82 E(C) 0817 4-24-82		12253 12222 12206			
MARKER		36 51	44.5	76 19	57.2									82 E(C) 0817 4-24-82		12253 12222 12206			

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Robert R. Kravitz
<p style="text-align: center;">INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)</p>	
<p>OFFICE</p> <p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection</p> <p>5 - Field Identified 6 - Theodolite 7 - Planetable 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>
<p>ORIGINATOR</p> <p><input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)</p> <p>FIELD ACTIVITY REPRESENTATIVE</p> <p>OFFICE ACTIVITY REPRESENTATIVE</p> <p><input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE</p>	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.									
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NONFLOATING AIDS FOR CHARTS FOR CHARTS									
<input checked="" type="checkbox"/> TO BE CHARTED (Field Party, Ship or Office) <input type="checkbox"/> TO BE REVISED Coastal Mapping Unit, AMC, Norfolk, VA		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA		LOCALITY Norfolk Ship Channel		DATE Aug. 1983		ORIGINATING ACTIVITY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)	
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		STATE Virginia		DATUM NA 1927		METHAD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION <i>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</i>	LATITUDE		LONGITUDE		OFFICE	FIELD	12253	12245
		D.M. Meters	D.P. Meters	D.M. Meters	D.P. Meters				
LIGHT	Craney Island Creek Light 4	36 52	52.8	76 20	49.7	82 B(C) 5254 5-09-82		12222	12206
LIGHT	Craney Island Creek Light 2	36 52	50.4	76 20	37.4	82 E(C) 0817 4-24-82		12253	12206
LIGHT	Norfolk and Western Coal Pier Light	36 52	46.4	76 19	56.7	82 E(C) 0818 4-24-82		12253	12206
DAY* BEACON	Craney Island Creek Daybeacon 5	36 52.8		76 20.9		NOT IDENTIFIABLE		12253	12206
DAY BEACON	Craney Island Creek Daybeacon 1	36 52	47.1	76 20	41.5	82 E(C) 0817 4-24-82		12253	12206
LIGHT	Elizabeth River Obstruction Light	36 52	09.7	76 20	1027	82 E(C) 0817 4-24-82		12253	12206
LIGHT	Elizabeth River Deperming Ranch Obstruction Light	36 52	07.5	76 19	53.8	82 E(C) 0817 4-24-82		12253	12206
DAY BEACON	Elizabeth River Western Branch Channel Daybeacon 4	36 51.8		76 19.8		NOT IDENTIFIABLE		12253	12206
LIGHT	Elizabeth River Degaussing Station Obstruction Light	36 51	47.6	76 19	38.6	82 E(C) 0817 4-24-82		12253	12206
	*Position scaled from chart.		1466		957				

HR MC
HR App2
HR MC
HR MC
HR App2

RESPONSIBLE PERSONNEL

TYPE OF ACTION		ORIGINATOR	
OBJECTS INSPECTED FROM SEAWARD		<input type="checkbox"/> PHOTO FIELD PARTY	
		<input type="checkbox"/> HYDROGRAPHIC PARTY	
		<input type="checkbox"/> GEODETIC PARTY	
		<input type="checkbox"/> OTHER (Specify)	
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		OFFICE ACTIVITY REPRESENTATIVE	
Robert R. Kravitz		<input type="checkbox"/> REVIEWER	
		<input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'
(Consult Photogrammetric Instructions No. 64)

<p>OFFICE</p> <p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>
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NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

CHARTING NAME	DESCRIPTION <small>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</small>	DATUM		POSITION			METHOD AND DATE OF LOCATION <small>(See instructions on reverse side)</small>		CHARTS AFFECTED
		JOB NUMBER	SURVEY NUMBER	LATITUDE	LONGITUDE		OFFICE	FIELD	
					D.M. Meters	D.P. Meters			
		REPORTING UNIT <small>(Field Party, Ship or Office)</small>	STATE	LOCALITY		DATE		ORIGINATING ACTIVITY	
		Coastal Mapping Unit, AMC, Norfolk, VA	Virginia	Norfolk Ship Channel		Aug. 1983		<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH <small>(See reverse for responsible personnel)</small>	
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		OPR PROJECT NO.	CM-8409	NA 1927					
DAY BEACON	Elizabeth River Western Branch Channel Daybeacon 6	36 51	40.5	76 19	59.3	1470	82 E(C) 0817	4-24-82	12253 12222 12206
DAY * BEACON	Elizabeth River Western Branch Channel Daybeacon 8	36 51.5	76	20.3			NOT IDENTIFIABLE		12253 12222 12206
LIGHT	Elizabeth River Western Branch Channel Light 7	36 51	33.4	76 20	01.8	44	82 E(C) 0817	4-24-82	12253 12222 12206
DAY BEACON	Portsmouth Marine Terminal Daybeacon 8	36 51	26.1	76 19	54.1		82 E(C) 0817	4-24-82	12253 12222 12206
LIGHT *	Portsmouth Marine Terminal Range Front Light	36 51.4	806	76	19.5		NOT IDENTIFIABLE		12253 12222 12206
LIGHT *	Portsmouth Marine Terminal Range Rear Light	36 51.3		76	19.5		NOT IDENTIFIABLE		12253 12222 12206
DAY BEACON	Craney Island Anchorage Daybeacon "A"	36 52	39.4	76 20	39.1	969	82 E(C) 0817	4-24-82	12253 12222 12206
DAY BEACON	Craney Island Anchorage Daybeacon "B"	36 52	1216	76 20	35.0	867	82 E(C) 0817	4-24-82	12253 12222 12206
DAY BEACON	Craney Island Anchorage Daybeacon "C"	36 52	18.5	76 20	22.2	550	82 E(C) 0817	4-24-82	12253 12222 12206
	*Position scaled from chart.		603	76 20					

HR

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Robert R. Kravitz
<p align="center">INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,</p>	
<p>OFFICE</p> <p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>
<p><input type="checkbox"/> PHOTO FIELD PARTY</p> <p><input type="checkbox"/> HYDROGRAPHIC PARTY</p> <p><input type="checkbox"/> GEODETIC PARTY</p> <p><input type="checkbox"/> OTHER (Specify)</p>	<p>ORIGINATOR</p>
<p>FIELD ACTIVITY REPRESENTATIVE</p>	<p>OFFICE ACTIVITY REPRESENTATIVE</p>
<p><input type="checkbox"/> REVIEWER</p> <p><input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE</p>	

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	Robert R. Kravitz
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64.)</i>	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982 II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
ORIGINATOR <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)	
FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	

