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

DESCRIPTIVE REPORT

This map will not be field checked
Map No. Edition No.
TP-00858 I
Job No.
CM-7405
Map Classification
Type of Survey
Shoreline
LOCALITY
State
New York
General Locality
Hudson River
Locality
Kingston to Saugerties
19 75 TO 19
REGISTRY IN ARCHIVES
DATE

*U. S. GOVERNMENT PRINTING OFFICE:1976-669-248

MAP NOT INSPECTED BY

QUALITY CONTROL OF PHOTOGRAMMETRY BRANCH

PRIOR TO REGISTRATION

1	of	14
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NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF CO	MMERCE	TYPE OF SURVEY	SUBVEY	rp. <u>00858</u>
(3-72) NATIONAL OCEANIC AND ATMOSPHER	IC ADMIN.			, -
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DESCRIPTIVE REPORT - DATA RECORD		RESURVEY	MAP CLASS	; III
		REVISED	JOB F	MC <u>CM-7405</u>
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	L	
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Rockville, Md.		ORIGINAL		i — — — —
OFFICER-IN-CHARGE		RESURVEY	SURVEY D	ATES:
Lawrence W. Fritz		REVISED	19TO 19) <u> </u>
I. INSTRUCTIONS DATED				
1. OFFICE		2	FIELD	
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Aerotriangulation 9/4/75		Field 4/2/7		
Compilation 5/19/82		Field 4/15/	75	•
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2. VERTICAL: MEAN LOWER LOW-WA	TER	Hudson River	Datum	
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3. MAP PROJECTION		<u> </u>	GRID(S)	
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5. SCALE	•	STATE	ZONE	50
1:20,000				
III. HISTORY OF OFFICE OPERATIONS				
OPERATIONS		NAME		DATE
1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND	BY AIDS BY	D. O. Norman		12/4/75
		J. Perrow H. Jones		12/4/75 7/1/77
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	ETRY BY	E. Allen		9/82
	CKED BY	P. Dempsey		9/82.
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5. OFFICE INSPECTION PRIOR TO FIELD EDIT	вү	P. Dempsey		10/82
6. APPLICATION OF FIELD EDIT DATA	BY CKED BY	N/A N/A		_
7. COMPILATION SECTION REVIEW	BY	P. Dempsey		2/83
8. FINAL REVIEW	ВҮ	E. D. Allen		8/84 8/84
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. DAUGHERTY	•	NOU 1984

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

COMPILATION SOURCES

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	HISTORY OF FIELD	OPERATIONS		
I. A FIELDYNSPECTION	OPERATION FIEL	D EDIT OPERATION		
	OPERATION	N.	AME	DATE
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2. HORIZONTAL CONTRO	RECOVERED'BY L ESTABLISHED BY	L. H. Davis		11
	PRE-MARKED OR IDENTIFIED BY	Lawrence H D	avis	4/75
	RECOVERED BY	N.A.		
3. VERTICAL CONTROL	ESTABLISHED BY	11	'	
	PRE-MARKED OR IDENTIFIED BY	11		
	RECOVERED (Triangulation Stations) BY	N.A	•	
4. LANDMARKS AND	LOCATED (Field Methods) BY	59		
AIDS TO NAVIGATION	IDENTIFIED BY	11		
	TYPE OF INVESTIGATION			1
5. GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY			
	🛣 NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N.A.		
7. BOUNDARIES AND LIM	ITS SURVEYED OR IDENTIFIED BY	19		
II. SOURCE DATA				
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HOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT TP-00858

This 1:20,000-scale shoreline map is one of seven maps in project CM-7405 which covers the shoreline of the Hudson River from Poughkeepsie to Troy, New York.

Field operations consisted of aerial photography and recovery, establishment, and premarking of horizontal control necessary for aerotriangulation.

Natural color photography was taken in 1975 at scales of 1:60,000 and 1:20,000. Basic aerotriangulation and compilation photographs (1:60,000 scale) were taken with the Wild RC-10(C) camera. Supplemental color photographs (1:20,000 scale) were taken with the Wild RC-8(E) camera for use in shoreline delineation.

Two strips of 1:60,000-scale photographs were bridged using analytic aerotriangulation methods. Sufficient tie points were selected between the bridged and 1:20,000-scale photographs for compilation by either instrument or graphic methods. The aerotriangulation control proved adequate and met the National Standards of Map Accuracy.

Tidal stages concurrent with photographs (1:20,000 scale) were furnished by the Corps of Engineers. This data is based on the Hudson River Datum and was used in determining the tidal stage at the Albany gage site.

Compilation was performed by Coastal Mapping Unit, Rockville, Maryland. The map delineation was based on office interpretation of 1:60,000-scale natural color photographs. Graphic compilation methods using the supplemental photographs (1:20,000 scale) was employed to compile the high water line and to complement the interpretation of other detail. When features were too small or too numerous to show at scale, no attempt was made to show all. Instead, a representative pattern of the symbol or area outline was shown, augmented by an explanatory note.

Final review was performed by Coastal Mapping Unit (Rockville, Maryland). This map was found to be satisfactory and meets requirements of the National Standards of Map Accuracy.

FIELD INSPECTION

TP-00858

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report
Hudson River
Poughkeepsie to Troy
New York
CM-7405
December 4, 1975

- 21. <u>Area Covered</u>: This report pertains to the Hudson River between Poughkeepsie and Troy, New York. The sheets are TP-00853 through TP-00859. All are 1:20,000 scale.
- 22. Method: Two strips of color photography at 1:60,000 scale were bridged by analytic aerotriangulation methods and adjusted to ground in the New York East zone state plane coordinated system. Points were established for determining ratios of 1:20,000 scale support photography. Points for setting models were plotted on the Coradomat.
- 23. Adequacy of Control: The control was adequate.
- 24. <u>Supplemental Data</u>: U.S.G.S. topographic quadrangles were used to determine elevation for strip adjustment.
- 25. Photography: The photography was adequate.

Submitted by

Don O. Norman

Don O. Norman

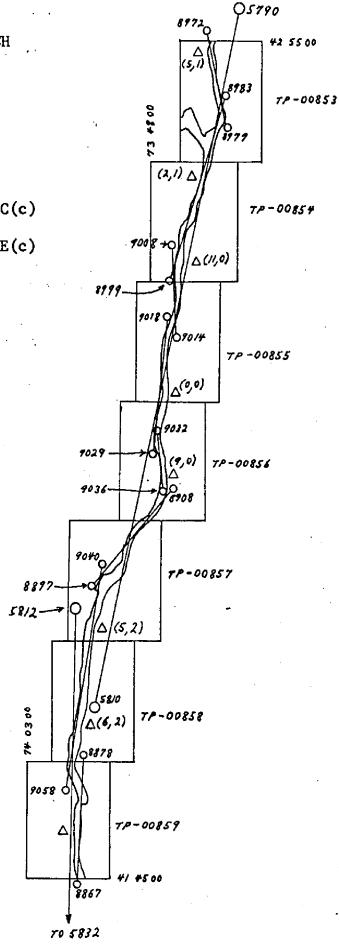
John D. Perrow, Jr.

Approved by

Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH
HUDSON RIVER
POUGHKEEPSIE TO TROY
NEW YORK
JOB CM-7405
DECEMBER, 1975

Obridging photography
1:60000 scale 75C(c)
oratio photography
1:20000 scale 75E(c)



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COMPILATION REPORT TP-00858

September 1982

31. Delineation

Planimetry was compiled from the natural color photographs using the Wild B-8 stereoplotter. There was no mean high water or mean low water tide-coordinated infrared photographs. All detail was compiled from 1:60,000-scale bridging photographs and verified with black and white 1:20,000-scale photographs.

32. Control

See attached Photogrammetric Plot Report dated December 4, 1975, for horizontal control. Vertical control was taken from USGS quadrangles.

33. <u>Supplemental Data</u> - None

34. Contours and Drainage

Contours not applicable. Drainage was delineated using the Wild B-8 stereoplotter.

35. Shoreline and Alongshore Detail

The shoreline was delineated and alongshore detail identified by office interpretation of the bridging photographs. These photographs were adequate for the photointerpretation of this map. No field inspection was made prior to map compilation. Small piers were omitted when size was too small for the scale of this manuscript.

36. Offshore Detail

Wrecks and piles were searched for during compilation and located where possible.

37. Landmarks and Aids

Nine charted landmarks were located or verified during compilation. One aid was rebuilt in 1968 and should be verified by fieldman. Only those landmarks and aids that were visible on photographs are shown on this map.

38. Control for Future Surveys - None

39. Junctions

Refer to NOAA Form 76-36B, Item 5.

- 40. thru 45. Not Applicable
- 46. <u>Comparison with Existing Maps</u>

 Saugerties, N.Y., Scale 1:24,000, dated 1963

 Kingston East, N.Y., Scale 1:24,000, dated 1980
- 47. <u>Comparison with Nautical Charts</u>
 Chart 12347, 23rd Edition, January 1980/March 81, Scale 1:40,000

Submitted by,

Edward D. Allen

Approved and Forwarded:

Fank Wright

Chief, Coastal Mapping Section

REVIEW REPORT TP-00858 SHORELINE

AUGUST 1984

61. GENERAL STATEMENT

Shoreline and alongshore detail were compiled from office interpretation of the 1:60,000-scale natural color photographs using the Wild B-8 stereoplotter. The 1:20,000-scale photographs were graphically used as an aid and to complement the 1:60,000-scale photographs in interpreting the MHW line. Tidal data concurrent with the 1:20,000-scale photographs, based on the Hudson River Datum, was furnished by the Corps of Engineers. Refer to Summary bound with the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to Compilation Report, paragraph 46, bound with this Descriptive Report.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

Refer to Compilation Report, paragraph 47, bound with this Descriptive Report.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

67. PHOTOGRAPHS

Natural color photographs were taken in 1975 at scales of 1:60,000 and 1:20,000. Basic aerotriangulation and compilation photographs (1:60,000 scale) were taken with the Wild RC-10(C) camera, supplemental photographs (1:20,000 scale) with the Wild RC-8(E) camera.

Submitted by:

2'Duran

Edward D. Allen Cartographer

Approved and Forwarded:

Chief, Photogrammetric Section

Chief, Photogrammetry Branch

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7405 (Hudson River, New York)

TP-00858

Annandale-on-Hudson Astor Cove Astor Point Barrytown Clifton Point Conrail (RR) Cruger Island East Kingston Esopus Creek Flatbush Glasco Glenerie Glenerie Lake Park (locality) Goose Island Hudson River Kingston Kingston Point Lake Katrine Lake Katrine (locality) Magdalen Island Mills Point '

Mount Marion Mount Marion Park Mudder Kill North Bay Picnic Point Plattekill Creek Ponck Hockie Rhinecliff Rondout Rondout Creek _Saugerties Skillpot Island Sleightsburg South Bay Stony Creek Sycamore Point Tivoli Turkey Point Tyler Point Ulster Landing

Approved by:

Charles E. Harrington Chief Geographer

Nautical Charting Division

DISSEMINATION OF PROJECT MATERIAL

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Job Completion Report

Brown Jacket:

Aerotriangulation Photographs
Photogrammetric Plot Report Copy
Computer Listings
Tide Data

Field Control Report

NOAA Form 76-53 (Control Identification Cards)

NOAA Form 76-40

BUREAU ARCHIVES

Registered Map Descriptive Report

REPRODUCTION DIVISION

8x Reduction Negative of the Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standards

NOAA FORM 76-40			1 4 2	4 H C C - 4 N C -	U.S. D	E PARTME	NT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
(B-74) Replaces C&GS Form 567	m 567.	NONFLOATING AIDS ORXIXAMEMARKS FOR CHARTS	NEWARKS	FOR CHAR	TS.			HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	*RTY
TTO BE CHARTED	REPORTING	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	ועודץ
TO BE REVISED		Ne	rk	Hudson River	River		9/82	COAST PILOT BRANCH	L & REVIEW GRP.
The following a	HAVE	HAVE NOT V been inspected from s	eaward to det	from seaward to determine their value as landmarks	alue as lar	dmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	N BOC	SURVEY NUMBER	DATUM	 					
	CM-7405	TP-00858	ż	A. 1927 POSITION			METHOD AND DATE OF LOCATION (See Instructions on reverse side)	E OF LOCATION on reverse side)	CHARTS
			FOLITIDE	HUE	POUT I PNOT	30			AFFECTED
NOHARTING	DESCRIPTION (Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	N k or aid to navigation. e applicable, in parenthese	•	D.M. Meters		// D.P. Meters	OFFICE	FIELD	
	Rondout Creek								
						}			
Light l			1,1° 55'	10.1	57.	6.94	75c(c)5817 8/5/75		12347
Light 2			41° 55	14.9 73°	57.	16.7	75c(c)5817 8/5/75	,	Ε
Light 4			1,75° 55'	20.4	581	04.1	75c(c)5817 8/5/75		=
	Middle Hudson River	ver							
Light	Astor Point Light,	1934	41° 59'	24.281	56.	04.033 T	Triangulation		12347
Light	Cruger Island Light,	, 1934	42° 02'	02.486	55'	47.439 T	Triangulation		11
Light 41		!	, †O	15.90	551	\ 6 0043	75c(c)5814 8/5/75		Ε
					<u> </u>		9		
							J		

vations based entirely upon ground survey methods.	EXAMPLE: F-2-6-L	sitions* require	tion 7 - n 8 -	# T	FERMINED Pable da:	EXAMPLE: 75E(C)6042 8-12-75	OFFICE [DENTIFIE] L. OFFICE [DENTIFIE] Enter the number day, and year) o) C C C I INSTRU	ACTIVITIES	FORMS, ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	TOTAL COMMENTS AND		OBJECTS INSPECTED FROM SEAWARD		TYPE OF ACTION	
id survey methods.	**PHOTOGRAMMETR	entry of method of H 8-12-75	ble III. POSITION Enter 'V-	EXAMPLE: Triang. F 8-12-75	s as follows: Jay When a angulat	지 전 10 H	month, FIELD (Cont'd) B. Photogr entry o date of	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION OF (Consult Photogrammetric Instructions No. 64,						-	NAKE	RESPONSIBLE PERSONNEL
	IC FIELD POSITIONS are dependent in part, upon control established		VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date.	Rec.	<pre>LATION STATEON(RECOVERED landmark(or(a)(d)which is also a tri- ! ion station is recovered, enter 'Triang. ith date of recovery.</pre>	graph/used to(locate) or identify the object. EXAMPLE: P-8-V 8-12-75 () (0') 74L(C)2982) T1	Cont'd) Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photo-	in on the second	REPRESENTATIVE	QUALITY CONTROL AND REVIEW GROUP	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	HYDROGRAPHIC PARTY	ORIGINATOR	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76–40 (2–71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

NOAA FORM 76-4					Ö	. DEPARTM	ENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
(8-74)		TIME I GO DO THE CANA	TAN	TONAL OCE	ANIC AND A	ATMOSPHER	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	HYDROGRAPHIC PARTY	ARTY
Replaces C&GS Form 567		MENTALIA MINISTRICA LANDWARD FOR CHARLS	JMAKKS	רטא כוא	K 1.5			COPETIC PARTY PHOTO FIELD PARTY	TY
X TO BE CHARTED	ED REPORTING UNIT	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	YT!V!
TO BE REVISED		New York	и	Hudsc	Hudson River	٠,	9/82	QUALITY CONTROL & REVIEW GRP.	L & REVIEW GRP. NCH
The following objects	HAVE	HAVE NOT [X] been inspected from seaword to determine their value as landmarks	rward to det	termine their	r value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT N	JOB NUMBER	SURVEY NUMBER	DATUM	,					
	-	(N. A.	1927		METHOD AND DATE OF LOCATION	E OF LOCATION	
	CM-7405	TP-00858		POSITION	NO		(See Instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION		LATITUDE	300.	LONGITUDE	TUDE			AFFECTED
CHARTING	Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses	or aid to navigation. applicable, in parentheses)	, ,	// D.M. Meters	, ,	D.P. Meters	OFFICE	FIELD	
Bridge				00.8		0.70	75¢(ç)5817		1))
Tower			41 55		73 59		د/./۵/ <i>/</i> د		7.45ZT
Spire	sqd	Catholic Church		60.60	•	00.87	Triang.		E
	Spire, Gold Gross, 1933		41 55		73 57				
Spire		ional Church		34.21	•	28.71	Triang.		=
	Spire, 1933		41 55		73 58				
Wind Mill	Windmill, Small, 1934		•	22.21	•	31.48	Triang.		F
			41 59	[-	73 55				
Cupola			•	17.6	·····	41.3	75¢(č)5815		ŧ
			h2 00		73 56		5/8/15		:
Tank	Saugerties Martin Centine Company	ne Company	•	24.67	•	59.65	Triang.		E
	Tank, 1934		40 St	.,-	73 56				
Stack				20.9		45.2	75c(c)5814		÷
			ф0 Zħ	L	73 56		5/8/15		:
Pank				21.0		14.2	75c(g)5817		=
			41 55		73 58		5/8/15	:	
Spire	Kingston Trinity Lutheran	neran Church		07.463		20.808	Triang.		÷.
	CT ((Andringgment) artific		41 55		73 59				
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location and date of field work. EXAMPLE: F-2-6-L 8-12-75- POSITIONS are determined by field ns based entirely upon ground survents ban	2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant 分之 A. Field positions* require entry of method	EW POSITION DETERMINED nterprthe applicable dat P - Field P - Located Vis - Verified - Triangulation 5 -	OFFICE OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, and day, and year) of the photograph used to day, and year) locate the photograph used to day. In 1956 (c) 6042 EXAMPLE: 75E (c) 6042 The Policy of the publication of the photograph used to day. The Policy of the photograph and the photograph are day. The Policy of the photograph and the photograph are day. The Policy of the photograph and the photograph are day.	ter a remerting dustructions,	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES TOPE 1. 1.	POSITIONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD TO A) TOO STEED FROM SEAWARD TO A DUT OF	TYPE OF ACTION
**PHOTOGRAMMETRIC FIELD Fentirelŷ; or in part, by photogrammetric me	III. POSITION Enter 'V+ EXAMPLE:		FIELDS (Cont'd) TATE B. Photogram B. Photogram C. date of graphous EXAMPLE: C. CONT EXAMPLE: C. CONT EXAMPLE:	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION TO) URY 5.64 NG 81	7 CP	स ५१ (८) १८ का विकास विकास कर है। जा किस मान	RESPONSIBLE PERSONNEL
POSITIONS are dependent upon control established thods.	VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date. V-Vis. 8-12-75	<pre>iON STATION RECOVERED imark or aid which is also a tri- station is recovered, enter 'Triang. date of Precovery. Friang (Precovery.) 8-12-75</pre>	Cont'd) Photogrammetricafieldspositions** require entry of method of location or verification, date of field work and number of the photograph used toglocate or identify the object. EXAMPLE: P-8-V 8-12-75 C: 174L(C)2982	ື່ນ .	REPRESENT ATIVE	FIELD ACTIVITY REPRESENTATIVE	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)	ORIGINATOR

NOAA FORM 78-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.	
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INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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