

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

THIS MAP WILL NOT BE FIELD EDITED

Map No.

TP-01170

Edition No.

1

Job No.

CM-8205

Map Classification

CLASS III FINAL

Type of Survey

SHORELINE

LOCALITY

State

NEW YORK U.S.A. - ONTARIO CANADA

General Locality

ST. LAWRENCE RIVER

Locality

CAPE VINCENT

19 82 TO 19

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>01170</u>	
DESCRIPTIVE REPORT - DATA RECORD				☒ ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				☐ RESURVEY		MAP CLASS <u>III</u>	
				☐ REVISED		JOB <u>XX-CM-8205</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE A. Y. Bryson, CDR				TYPE OF SURVEY		JOB <u>PH-</u>	
				☐ ORIGINAL		MAP CLASS <u></u>	
				☐ RESURVEY		SURVEY DATES:	
				☐ REVISED		19 <u></u> TO 19 <u></u>	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation February 15, 1984 Compilation October 31, 1984				Control May 24, 1983			
II. DATUMS							
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: ☐ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL				OTHER (Specify) International Great Lakes Datum (1955)			
3. MAP PROJECTION Transverse Mercator Projection				4. GRID(S)			
				STATE New York		ZONE Control	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				L. Harrod, Jr.		July 1984	
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				D. Norman		July 1984	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				L. Harrod, Jr.		July 1984	
METHOD: <u>Calcomp 718</u> CHECKED BY				D. Norman		July 1984	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				C. Middleton, Jr.		Sept. 1984	
COMPILATION CHECKED BY				W. McLemore/J. Byrd		Sept. 1984	
INSTRUMENT: <u>Wild B-8</u> CONTOURS BY				N/A			
SCALE: <u>1:20,000</u> CHECKED BY				N/A			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				C. Middleton, Jr.		Sept. 1984	
CHECKED BY				W. McLemore, Jr.		Oct. 1984	
METHOD: <u>Smooth drafted</u> CONTOURS BY				N/A			
CHECKED BY				N/A			
SCALE: <u>1:20,000</u> HYDRO SUPPORT DATA BY				N/A			
CHECKED BY				N/A			
5. OFFICE INSPECTION PRIOR TO FINAL FINAL BY				W. McLemore, Jr.		Oct. 1984	
6. APPLICATION OF FIELD EDIT DATA BY				N/A			
CHECKED BY				N/A			
7. COMPILATION SECTION REVIEW <u>Class III</u> BY				W. McLemore, Jr.		Oct. 1984	
8. FINAL REVIEW <u>Class III</u> BY				L. O. Neterer, Jr.		Dec. 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				L. O. Neterer, Jr.		<u>Feb 1985</u>	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				<u>J. Schod</u>		<u>March 1985</u>	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				<u>R. Kornspan</u>		<u>April 1985</u>	

TP-01170

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(B) (B=152.74mm)	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE GAGE REFERENCE WATER LEVEL GAGE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY		ZONE Eastern	☒ STANDARD
		MERIDIAN 75th	☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE RIVER LEVEL
82 B(C) 9463 - 9466	Oct.24,1982	12:14	1:50,000	243.9 ft.
82 B(C) 9363 - 9367	Oct.24,1982	09:45	1:50,000	243.9 ft.

REMARKS Water levels at the time of photography are indicated as they were recorded from the Cape Vincent, New York gage.

2. SOURCE OF MEAN HIGH-WATER LINE:

The term "Mean High Water Line" is not applicable. The shoreline is defined as the visible line of contact on the photographs between land and water. Delineation of the shoreline was derived by photo interpretation of the above listed color compilation/bridging photographs.

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

This item is not applicable to this project.

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 (CM-8302)	SOUTH (CM-8302)*	WEST
TP-01169	*TP-01221	TP-01223, TP-01224	TP-01168

REMARKS

*Compilation on adjoining project CM-8302 has not yet started.

TP-01170

HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION (PHOTOIDENTIFICATION) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	July 1983
2. HORIZONTAL CONTROL	RECOVERED BY C. Middleton, Jr.	July 1983
	ESTABLISHED BY C. Middleton, Jr.	July 1983
	PRE-MARKED OR IDENTIFIED BY C. Middleton, Jr.	July 1983
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY C. Middleton, Jr.	July 1983
	LOCATED (Field Methods) BY N.A.	
	IDENTIFIED BY C. Middleton, Jr.	July 1983
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE BY ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N.A.
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Photo-identified

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82B(C) 9377	TIBBETTS POINT LIGHTHOUSE (USLS), 1872		
82B(C) 9465	MARSKELL, 1983		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
82B(C) 9377	TIBBETTS POINT LIGHT (TIBBETTS POINT LIGHTHOUSE (USLS), 1872)		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

2 NOAA Forms 76-53 (CSI Cards)

3 NOAA Forms 76-52 (Cover entire project)

2 NOAA Forms 76-86

3 NOAA Forms 76-156 (Cover entire project)

4 NOAA Forms 75-63

TP-01170
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	October 1984	Class III manuscript	None	None
No field edit was performed prior to Final Review	December 1984	Final Class III map	March 1985	March 1985

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES SOURCES	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		March 1985	Aids to Navigation for Charting
2		March 1985	Landmarks for Charting

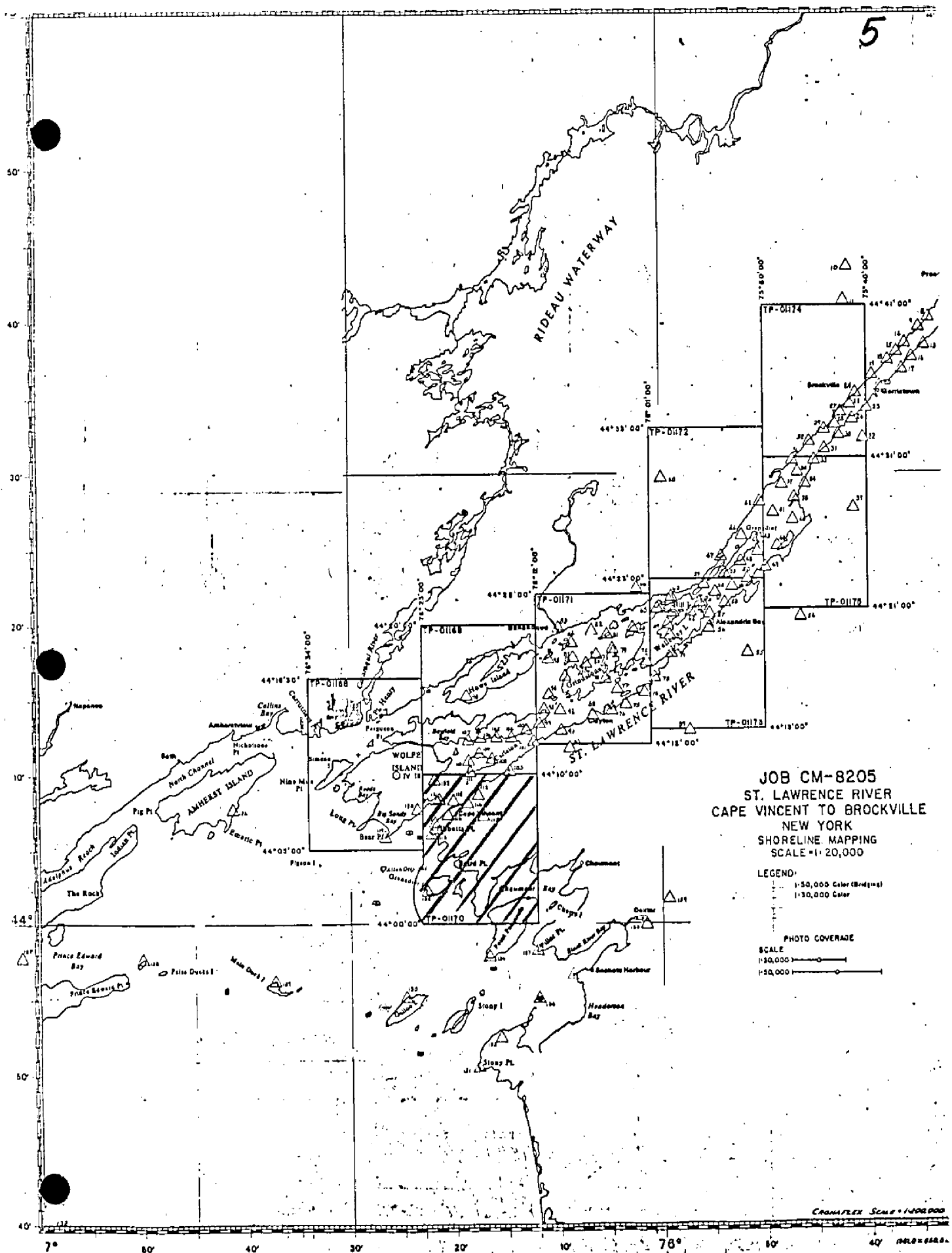
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 367 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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



JOB CM-8205
ST. LAWRENCE RIVER
CAPE VINCENT TO BROCKVILLE
NEW YORK
SHORELINE MAPPING
SCALE = 1:20,000

LEGEND:
1:50,000 Color (Bridges)
1:30,000 Color

PHOTO COVERAGE
SCALE
1:50,000
1:30,000
1:50,000

CORONA/LEX SCALE = 1:400,000
NAD 83 = 2011.0

(Lake Ontario)

6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01170

This 1:20,000 scale shoreline map is one of eight maps of project CM-8205, St. Lawrence River, Cape Vincent to Brockville, New York.

This project encompasses both the Canadian and United States sides of the St. Lawrence River from Kingston, Ontario, Longitude $76^{\circ}34'00''$ east to Brockville, Ontario, Longitude $75^{\circ}40'00''$.

Photographic coverage was provided in October 1982 for aerotriangulation and compilation with the "B" camera (focal length 152.74mm) at 1:50,000 and 1:30,000 scales. The 1:30,000 scale photography was not provided.

Field work prior to compilation accomplished in July 1983 involved the identification of horizontal control by photo-identification techniques to meet aerotriangulation requirements.

Analytic aerotriangulation was performed at the Washington Science Center in July 1984.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1982 color photography in October 1984.

No international boundary line was compiled on this map.

Final review was performed at the Atlantic Marine Center in December 1984. This map is to be registered as a Final Class III map.

This Descriptive Report is comprised of all information pertinent to the construction of this map.

The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-01170

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

PHOTOGRAMMETRIC PLOT REPORT
CM-8205
ST. LAWRENCE RIVER, NEW YORK

JULY 23, 1984

21. AREA COVERED

The area covered by this report is in the vicinity of the St. Lawrence River from Cape Vincent eastward to Brockville, New York. It is covered by eight 1:20,000-scale manuscripts, TP-01168-TP-01175.

22. METHOD

Four strips of 1:50,000-scale photography were bridged by analytic aero-triangulation methods. Original negatives were used in lieu of film positives. Strip 50-4 was adjusted to ground on the New York State Plane Coordinate System, New York Central Zone, using our Analytic Strip Adjustment program. Strips 50-1, 50-2, and 50-3 were adjusted by means of the block adjustment method. Photoidentified horizontal control stations were provided. Aids and landmarks were located on bridging photographs. Ratio values were determined for the 1:50,000-scale bridging photographs. Ruling of manuscripts and plotting of points were done on the Calcomp 718 plotter.

23. ADEQUACY OF CONTROL

The horizontal control provided was adequate but sparse. Tie points were used to supplement photoidentified control. The project will meet National Standards of Map Accuracy. There seemed to be several discrepancies involving station names. It seems that some of the names differ slightly between our key index on our project diagram and the report from the I.B.C. (International Boundary Commission). We decided to key our Descriptive Report Control Record (Form 76-41) to the I.B.C. report No. 5.

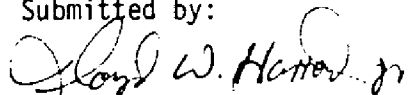
24. SUPPLEMENTAL DATA

Vertical control was taken from USGS quads.

25. PHOTOGRAPHY

The coverage and quality of the photographs proved adequate for the project.

Submitted by:



Lloyd W. Harrod, Jr.

Approved and Forwarded:



Don O. Norman
Chief, Aerotriangulation Unit

ST. LAWRENCE RIVER, NEW YORK
CM-8205

FIT TO CONTROL - X AND Y IN FEET

BLOCK ADJUSTMENT - STRIPS 1, 2, AND 3

		<u>X</u>	<u>Y</u>
1	150 (IWC) (Morristown Point-U.S.L.S.) New York 1873		
	Sub Pt. 2 (438101)	-1.1	-0.1
	Sub Pt. 1 (438102)	1.2	1.8
	Bay State Shoal, Light New York, 1940		
	(442142)	0.6	-0.4
2	Reference Monument 60, New York 1911		
	Sub Pt. 1 (442101)	1.8	4.5
	Sub Pt. 2 (442102)	-0.6	3.4
	Bridge Island, Light Ontario 1940	(443151)	3.5
			-0.3
4	Shak Fr. Lt.	(385100)	-2.1
		(385101)	-1.7
			-5.7
			-7.2
5	Nine Mile Point Light	(457100)	-1.1
		(457101)	1.8
		(457102)	-3.9
			5.4
			5.1
			7.5
	Sister Island Light New York 1940	(354141)	2.4
			-3.1
	Sunken Rock Light U.S.L.S. New York 1933		
	(356155)	2.1	-7.9
	Sunken Rock Shoal Light U.S.L.S.		
	New York 1933	(356154)	-8.1
			-6.8
3	X Sub New York 1940	Sub Pt. 1 (357101)	-1.0
		Sub Pt. 2 (357102)	-3.3
			-4.7
			-4.4
	Lindoe Island Light Ontario 1940	(357155)	-13.0
			7.2
	Clayton Municipal Standpipe, 1942	(360142)	-0.8
			-6.3
	Bartlett Point Light (U.S.L.S.)		
	New York 1933	(360151)	3.7
			-4.1
	Wolf Island Light, Ontario 1940	(361151)	-1.2
			-6.7
6	Tibbetts Point Lighthouse (U.S.L.S.)		
	New York 1872	(377100)	0.3
		(377101)	- .3
		(377102)	-1.0
			-4.8
			1.3
			-2.1

STRIP 4

Strip Adjustment

			<u>X</u>	<u>Y</u>
▲ 7	Marskell, 1983	Sub Pt. 2 (465101)	-0.6	-0.04
		Sub Pt. 1 (465102)	1.0	-0.7
▲ 8	Mort, 1983	Sub Pt. 1 (373101)	-0.9	0.6
		Sub Pt. 2 (373102)	-4.0	1.8
▲ 9	Dexter 2, 1946	Sub Pt. 1 (469101)	-0.2	1.3
		Sub Pt. 2 (469102)	0.2	-0.2
▲	Tie	(463801)	-0.4	0.3
	Tie	(463802)	-1.7	3.2
	Tie	(463803)	-2.5	2.1

▲ Stations held in the Strip Adjustments

//

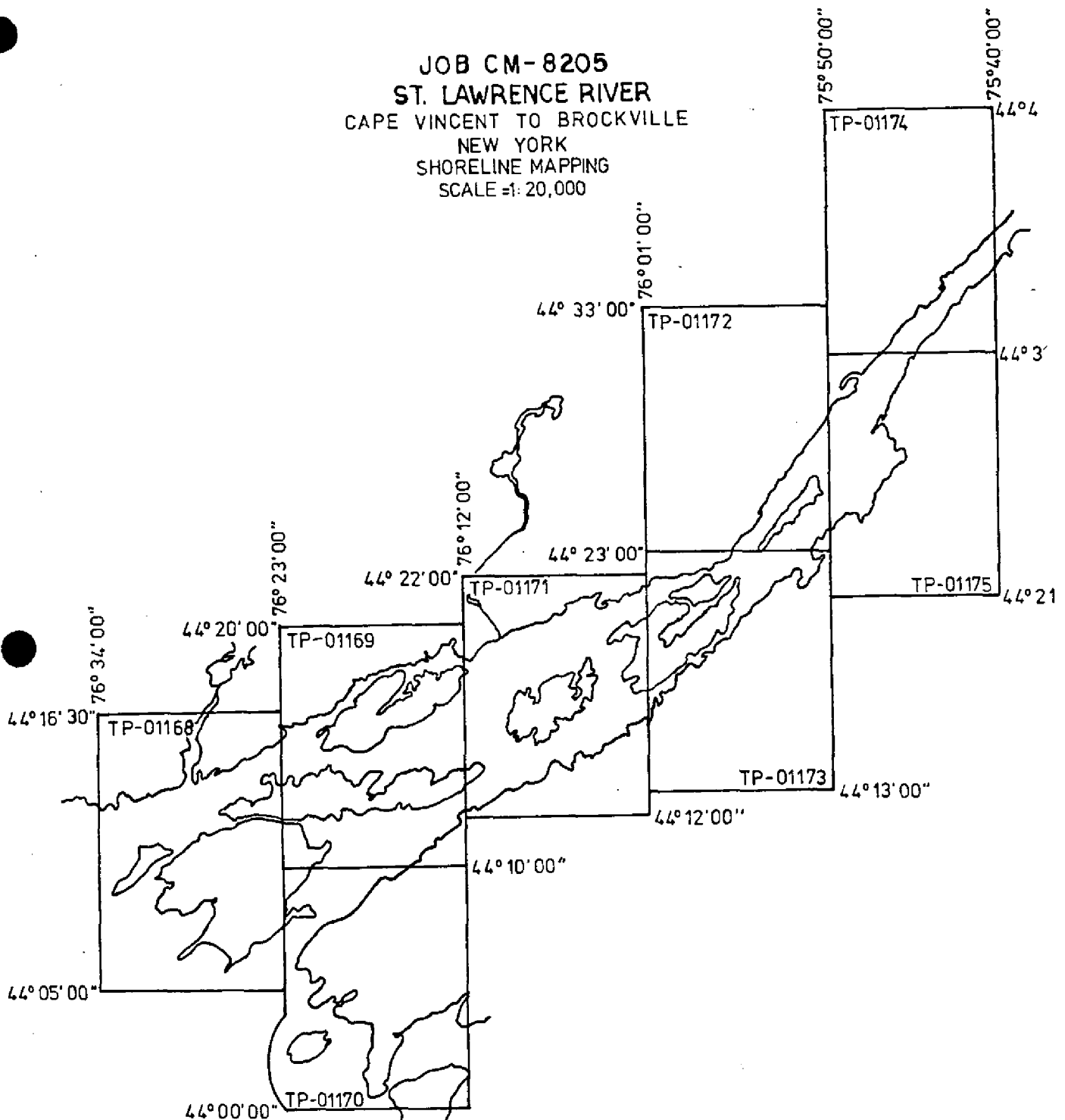
ST. LAWRENCE RIVER, NEW YORK
CM-8205

July 1984

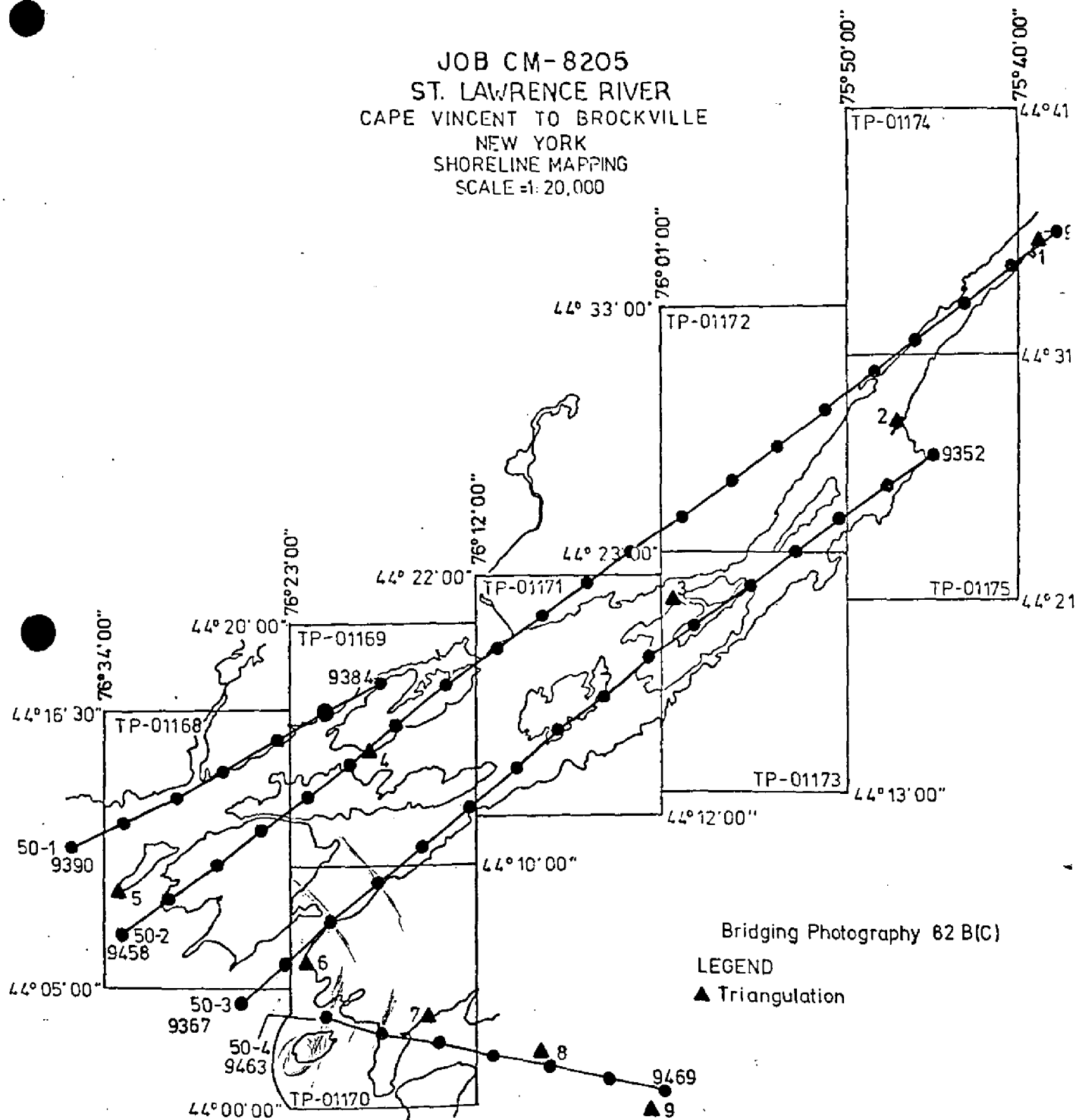
Ratio values for 1:50,000-scale color bridging photography.

82-B(C) 9438-9458	X2.51
9352-9367	X2.51
9384-9390	X2.52
9463-9469	X2.52

JOB CM-8205
ST. LAWRENCE RIVER
CAPE VINCENT TO BROCKVILLE
NEW YORK
SHORELINE MAPPING
SCALE = 1:20,000



JOB CM-8205
ST. LAWRENCE RIVER
CAPE VINCENT TO BROCKVILLE
NEW YORK
SHORELINE MAPPING
SCALE = 1: 20,000



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODEIC DATUM		GEOGRAPHIC POSITION		REMARKS
				STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
TP-01170	CM-8205	IBC POS 206	(118) 377100	N.A. 1927	New York	ϕ 44° 06' 02.237"	λ 76° 22' 14.204"	
TIBBETTS POINT LIGHTHOUSE (USLS), 1872		FIELD DATA	465100			ϕ 44° 03' 43.9702"	λ 76° 14' 38.1506"	
MARSKELL, 1983						ϕ	λ	
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COMPILATION REPORT
TP-01170

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 1:50,000 scale bridging/compilation color photographs. A small portion of shoreline at the southwestern end of Grenadier Island was graphically delineated from ratio photography 82 B(C) 9463 as no stereo coverage was available.

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

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated July 23, 1984.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the photographs. The shoreline compiled was the visible line of contact between land features and the water surface at the time of photography. The water level taken at Cape Vincent, New York gage was 243.9 feet at the time of photography and was based on the International Great Lakes Datum (1955).

36 - OFFSHORE DETAILS

Offshore details were compiled by instrument methods as described in Item #32.

37 - LANDMARKS AND AIDS

Appropriate copies of the 76-40 forms are submitted with this report.

38 - CONTROL FOR FUTURE SURVEYS

None.

TP-01170

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5 of this Descriptive Report.

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S.G.S. Quadrangles: Chaumont, NY, dated 1958, scale 1:24,000; Cape Vincent South, NY, dated 1958, scale 1:24,000; Cape Vincent North, NY, dated 1958, scale 1:24,000; and Saint Lawrence, NY, dated 1958, scale 1:24,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 14767, 16th edition, dated September 25, 1982, scale 1:30,000 with 1:10,000 inset; 14768, 16th edition, dated June 12, 1982, scale 1:30,000; 14811, 13th edition, dated April 28, 1984, scale 1:30,000; 14802, 26th edition, dated March 28, 1981 scale 1:80,000; 14800, 26th edition, dated May 12, 1984, scale 1:400,000; and 14500, 23rd edition, dated July 17, 1982, scale 1:500,000.

A comparison was made with the following Canadian Hydrographic Service Chart: 1421, 36th edition, 1:30,000 scale, dated September 7, 1984.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

William T. Middleton, Jr.

for
C. S. Middleton, Jr.
Cartographic Technician
September 28, 1984

Approved,

James L. Byrd, Jr.

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

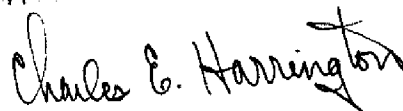
CM-8205 (St. Lawrence River, New York)

TP-01170

Band Point
Basin Harbor
Bayview
Bedford Corners
Button Bay
Cape Vincent (locality)
Carrying Place
Chaumont Bay
Clines Point
Dablon Point
Fox Creek
Fox Island
Fuller Bay
Grass Bay
Hickory Point
Hinckley Point
Hornes Point
Kents Creek
Lake Ontario
Little Fox Creek
Little Grenadier Island
Long Bay

Mud Bay
New York
North Shore
Ontario
Point Alexandria
Point Peninsula
Point Peninsula (locality)
Ponds Corner
Poplar Tree Bay
Roxy Islands
St. Lawrence River
Scotch Brook
Shaver Creek
Sunnybank
The Isthmus
Three Mile Bay
Three Mile Bay (locality)
Three Mile Point
Tibbetts Point
Wilson Bay
Wilson Point
Wolfe Island

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT TP-01170
SHORELINE

61. GENERAL STATEMENT

See Summary included with this report.

The neat limits of this map were extended in the area of Grenadier Island to include its southwestern tip.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not-applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S. Geological Survey Quadrangles: Cape Vincent North, New York; Cape Vincent South, New York; Chaumont, New York; and Saint Lawrence, New York. All dated 1958 and are 1:24,000 scale.

A comparison was also made with the Canadian Department of Energy, Mines and Resources Quadrangles: Bear Point 31C/1d, edition 1; Ontario-New York Wolfe Island, 31 C/1e, edition 2; Ontario, Bayfield, 31 C/1f, edition 3; Ontario-New York- all are dated 1972 and are 1:25,000 scale; and Kingston, 31 C, edition 5, Canada-United States, dated 1975, scale 1:250,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 14767, 16th edition, 1:30,000 scale, dated September 25, 1982; 14768, 16th edition, 1:30,000 scale, dated June 12, 1982; 14802, 26th edition, 1:80,000 scale, dated March 28, 1981; 14811, 13th edition, 1:30,000 scale, dated April 28, 1984; 14800, 26th edition, 1:400,000 scale, dated May 12, 1984; and 14500, 23rd edition, 1:1,500,000 scale, dated July 17, 1982.

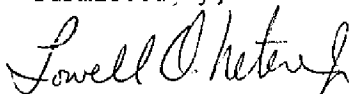
A comparison was made with the following Canadian Hydrographic Service Chart: 1421, 36th edition, 1:30,000 scale, dated September 7, 1984.

TP-01170

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by,



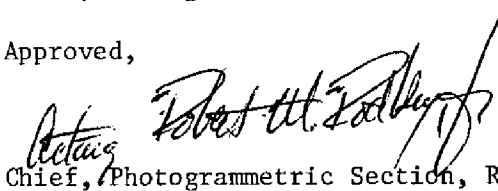
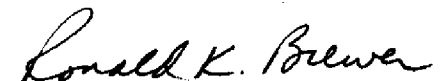
Lowell O. Neterer, Jr.
Final Reviewer
December 10, 1984

Approved for forwarding,



Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,


Chief, Photogrammetric Section, Rockville
Chief, Photogrammetry Branch,
Rockville

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	R. Tibbetts
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	C. Middleton, Jr.
☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify) ORIGINATOR	
FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE	
REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE	FIELD (Cont'd)
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	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
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	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
A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	
**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
NON-NAVIGATING AND/OR LANDMARKS FOR CHARTS				LOCALITY		DATE		☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)	
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (If field party, ship or office) Coastal Mapping Unit AMC, Norfolk, VA	STATE New York	St. Lawrence River		09/84			
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.		JOB NUMBER	SURVEY NUMBER	DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	CM-8205		TP-01170		N.A. 1927			
		LATITUDE		LONGITUDE		OFFICE		FIELD	
		° /	D.M. Meters	° /	D.P. Meters				
SILLO	*	44 01	22.29 ✓	76 17	06.27 ✓	82B(C) 9465 10-24-82		14802 14811	
SILLO	*	44 01	35.74 ✓	76 12	11.70 ✓	82B(C) 9466 10-24-82		14802 14811	
SILLO	*	44 03	38.37 ✓	76 15	24.08 ✓	82B(C) 9465 10-24-82		14802 14811	
SILLO	*	44 03	38.53	76 15	23.82	82B(C) 9465 10-24-82		14802 14811	
SILLO	*	44 04	12.82 ✓	76 12	17.71 ✓	82B(C) 9466 10-24-82		14802 14811	
SILLO	*	44 05	28.04 ✓	76 21	20.58 ✓	82B(C) 9366 10-24-82		14802 14811	
TANK		44 07	15.74 ✓	76 19	47.39 ✓	82B(C) 9365 10-24-82		14767 14768 14802	
SILLO		44 08	22.22 ✓	76 18	24.56 ✓	82B(C) 9364 10-24-82		14767	
SILLO	*	44 08	59.15 ✓	76 17	52.19 ✓	82B(C) 9364 10-24-82		14767 14802	
SILLO	*	44 09	00.12 ✓	76 17	40.10 ✓	82B(C) 9364 10-24-82		14767 14802	

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	C. Middleton, Jr.
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
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 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant 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 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

[illegible]

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	C. Middleton, Jr.

ORIGINATOR

- ☐ PHOTO FIELD PARTY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ OTHER (Specify)

FIELD ACTIVITY REPRESENTATIVE

OFFICE ACTIVITY REPRESENTATIVE

- ☐ REVIEWER
- ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64.)

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 (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
75E(C)2082

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
- P - Photogrammetric
- Vis - Visually
- 5 - Field identified
- 6 - Theodolite
- 7 - Planetable
- 8 - Sextant

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.

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

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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 Review.

[illegible]