

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-01174

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

BROCKVILLE

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 ☒ ORIGINAL ☐ RESURVEY ☐ REVISED		SURVEY TP. <u>01174</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III FINAL</u> JOB <u>CM-8205</u>	
DESCRIPTIVE REPORT - DATA RECORD					
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED			
OFFICER-IN-CHARGE A. Y. Bryson, CDR		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
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 _____ ZONE _____		
5. SCALE 1:20,000			STATE New York ZONE Central		
III. HISTORY OF OFFICE OPERATIONS					
OPERATIONS		NAME		DATE	
1. AEROTRIANGULATION BY METHOD: <u>Analytical</u> LANDMARKS AND AIDS BY		L. Harrod, Jr. D. Norman		July 1984 July 1984	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Calcomp 718</u> CHECKED BY		L. Harrod, Jr. D. Norman		July 1984 July 1984	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:20,000</u> CHECKED BY		P. Evans F. Mauldin N.A. N.A.		Nov. 1984 Nov. 1984	
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: <u>Smooth Drafted</u> CHECKED BY SCALE: <u>1:20,000</u> CONTOURS BY HYDRO SUPPORT DATA BY CHECKED BY		P. Evans W. McLemore, Jr. N.A. N.A. N.A. N.A.		Nov. 1984 Jan. 1985	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		W. McLemore, Jr.		Jan. 1985	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		N.A. N.A.			
7. COMPILATION SECTION REVIEW <u>CLASS III</u> BY		W. McLemore, Jr.		Jan. 1985	
8. FINAL REVIEW <u>CLASS III</u> BY		L. O. Neterer, Jr.		Feb. 1985	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr.		Feb 1985	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		J. Schad		March 1985	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		R. Kornspan		April 1985	

TP-01174

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 (B) (B=152.74mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	☒ STANDARD
				MERIDIAN 75th	☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
82 B(C) 9438 - 9442	Oct. 24, 1982	11:50	1:50,000	243.9 feet	

REMARKS Water level at the time of photography is indicated as it was 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:

Not applicable.

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
No survey	No survey	TP-01175	TP-01172
REMARKS			

TP-01174

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 N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
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 N.A. LOCATED (Field Methods) BY N.A. IDENTIFIED BY N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ 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

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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)

3 NOAA Forms 76-52 (Cover entire Project)
3 NOAA Forms 76-156 (Cover entire Project)

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	January 1985	Class III manuscript		
No field edit was performed prior to Final Review	February 1985	Class III map (Final)	March 1985	March 1985

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		March 1985	Landmarks for charting
2		March 1985	Aids to navigation for charting

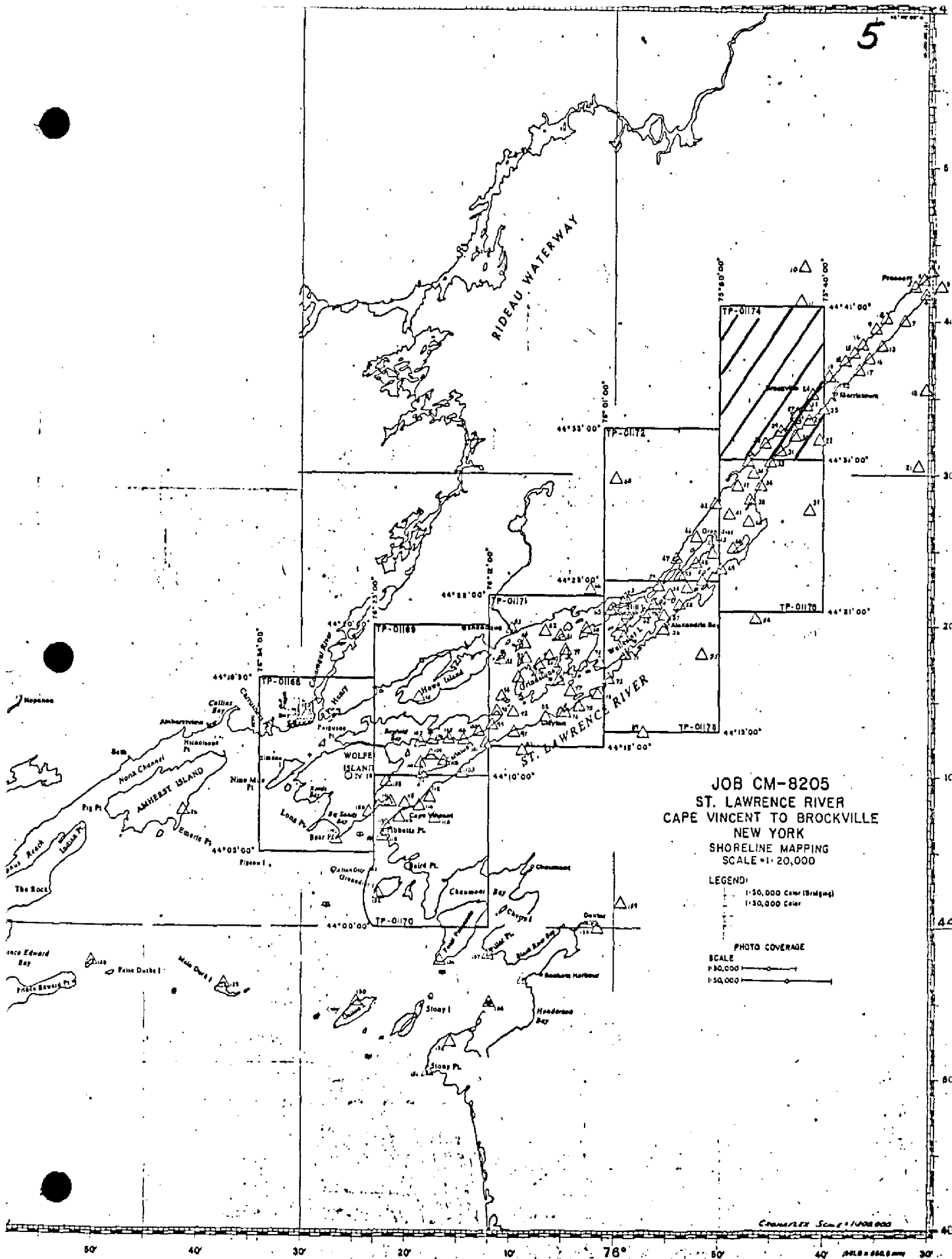
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 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 ☐ 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)
1:50,000 Color

PHOTO COVERAGE

SCALE
1:50,000
1:50,000

CORNER/EX. Scale = 1:100,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01174

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 side 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, was accomplished in July 1983 and 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 January 1985.

No international boundary line was compiled on this map.

Final review was performed at the Atlantic Marine Center in February 1985.

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-01174

There was no complete 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 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.

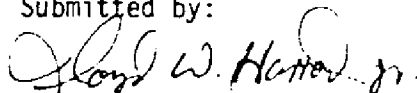
24. SUPPLEMENTAL DATA

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	-5.7
		(385101)	-1.7	-7.2
5	Nine Mile Point Light	(457100)	-1.1	5.4
		(457101)	1.8	5.1
		(457102)	-3.9	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	-4.7
		Sub Pt. 2 (357102)	-3.3	-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	-4.8
		(377101)	-0.3	1.3
		(377102)	-1.0	-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

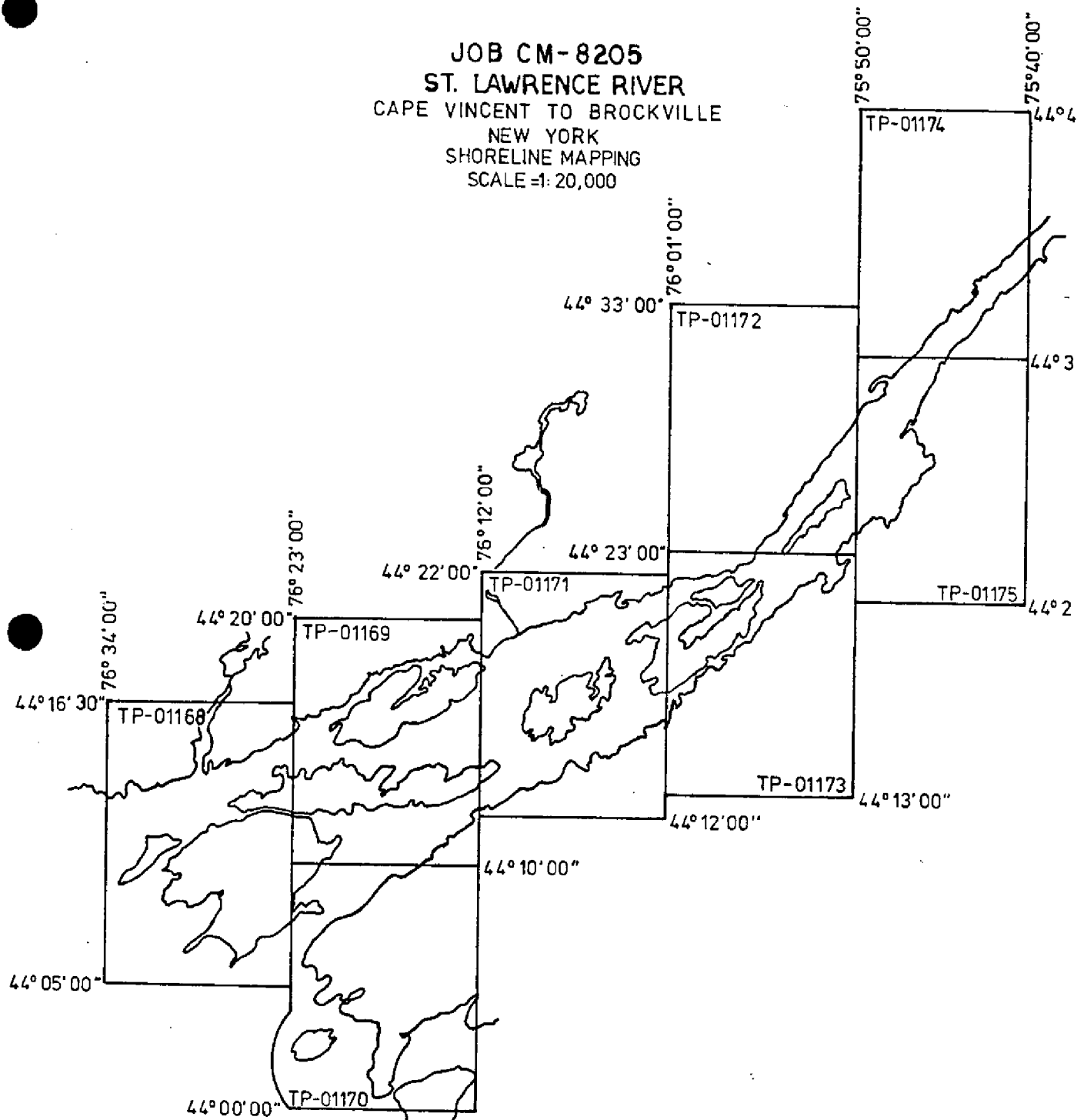
ST. LAWRENCE RIVER, NEW YORK
CM-8205

July 1984

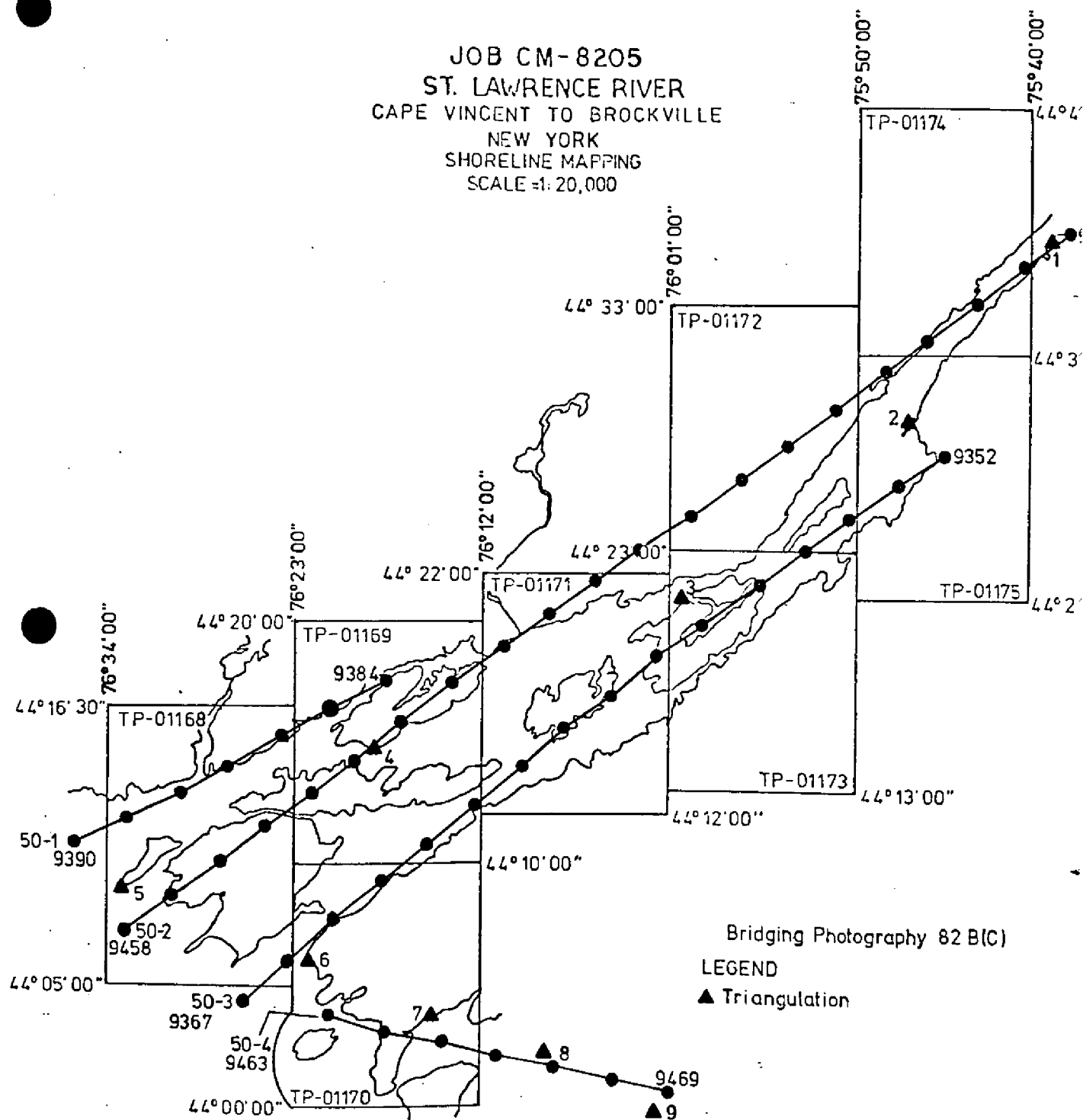
Ratio values for 1:50,000-scale color bridging photography.

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



COMPILATION REPORT

TP-01174

31 - DELINEATION

Stereo instrument compilation methods were used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs.

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

32 - CONTROL

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 by 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. Based on the International Great Lakes Datum (1955) the water level taken at Cape Vincent, New York gage was 243.9 feet.

36 - OFFSHORE DETAILS

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

37 - LANDMARKS AND AIDS

Appropriate 76-40 forms are submitted with this report.

38 - CONTROL FOR FUTURE SURVEYS

None.

TP-01174

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangle: Morristown, NY, dated 1963, scale 1:24,000.

A comparison was made with the following Canadian Dept. of Energy, Mines and Resources Quadrangles: Lyn, Canada-U.S.A., 31B/12c, dated 1976, scale 1:25,000; and Brockville, Canada-U.S.A., 31B/12b, dated 1972, scale 1:25,000.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 14770, 13th edition, dated May 23, 1982, scale 1:15,000; 14764, 24th edition, dated September 9, 1978, scale 1:30,000; and 14765, 27th edition, dated March 27, 1982, scale 1:30,000.

A comparison was made with the following Canadian Hydrographic Service Charts: 1417, 7th edition, dated February 17, 1984, scale 1:25,000 (with 1:15,000 inset); and 1418, 42nd edition, dated October 19, 1984, scale 1:25,000.

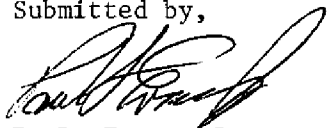
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

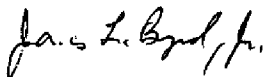
None.

Submitted by,



P. L. Evans, Jr.
Cartographic Technician
20 November 1984

Approved,



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

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

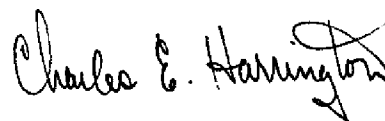
TP-01174 FTM

American Island
Anchorage Bay
Battersby Island
Birch Point
Blackstone Bay
Blockhouse Island
Brockville
Brockville Narrows
Brockville Rock
Butternut Bay
Butternut Bay (locality)
Canadian National (RY)
Chub Island
Cockburn Island
Cole Bay
Delack Point
DeRottenburg Island
DeWatteville Island
Eagers Bay
Everest Island
Fisher Island
Fulford Point
Grants Creek
Harvey Island
Heathers Point
Hillcrest Point
Holmes Point

Hudsons Point
Lily Bay
McCoy Island
McDonald Bay
McDonald Point
Mile Island
Mollys Gut
Needles Eye Island
New York
Old Man Island
Ontario
Oriental Island
Point Comfort
Prince Alfred Island
Refugee Island
Royal Island
St. Lawrence River
Sheaffe Island
Skelton Island
Smith Island
Snake Island
Sparrow Island
Stovin Island
Twin Sisters Islands
Victoria Island
Woodridge

Myers Island WTM

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT TP-01174

SHORELINE

61. GENERAL STATEMENT

See Summary included with this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S.G.S. Quadrangle: Morristown, New York, dated 1963, scale 1:24,000.

A comparison was made with the following Canadian Dept. of Energy, Mines and Resources Quadrangles: Lyn, 31B/12c, Canada-United States; and Bröckville, 31B/12b, Canada-United States. Both are the 2nd edition, dated 1976 and are at 1:25,000 scale.

64. CONTEMPORARY HYDROGRAPHIC SURVEYS

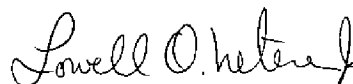
There is no contemporary hydrographic survey within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 14764, 24th edition, dated September 9, 1978, scale 1:30,000; 14765, 27th edition, dated March 27, 1982, scale 1:30,000; and 14770, 13th edition, dated May 23, 1981, scale 1:15,000.

A comparison was made with Canadian Hydrographic Service Charts: 1417, 7th edition, dated February 17, 1984, scale 1:25,000; and 1418, 42nd edition, dated October 19, 1984, scale 1:25,000.

Submitted by,



Lowell O. Neterer, Jr.
Final Reviewer
February 14, 1985

TP-01174

Approved for forwarding,


Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,


Acting Detachment Chief,
Chief, Photogrammetric Section, Rockville
Ronald K. Brewer
Chief, Photogrammetry Branch,
Rockville

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
NONFLOATING AIDS 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)	
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE			
Coastal Mapping Unit AMC, Norfolk, VA <td colspan="2">New York <td colspan="2">St. Lawrence River <td colspan="2">11/84 <td colspan="2"></td> </td></td></td>		New York <td colspan="2">St. Lawrence River <td colspan="2">11/84 <td colspan="2"></td> </td></td>		St. Lawrence River <td colspan="2">11/84 <td colspan="2"></td> </td>		11/84 <td colspan="2"></td>			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)	
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		POSITION		LONGITUDE		CHARTS AFFECTED	
				LATITUDE		LONGITUDE			
				D.M. Meters		D.P. Meters			
				° / ' "		° / ' "			
LIGHT	St. Lawrence Seaway Light 151	✓	44 31	✓	22.35	✓	26.94	✓	82B(C)9441 10-24-82
LIGHT	*# Crossover, Brockville, Range Front Light	✓	44 31	✓	35.78	✓	54.10	✓	82B(C)9441 10-24-82
LIGHT	# Crossover, Brockville, Range Rear Light	✓	44 31	✓	56.53	✓	47.37	✓	82B(C)9441 10-24-82
LIGHT	St. Lawrence Seaway Light 150	✓	44 31	✓	46.20	✓	18.11	✓	82B(C)9441 10-24-82
LIGHT	St. Lawrence Seaway Light 147	✓	44 32	✓	30.77	✓	10.32	✓	82B(C)9441 10-24-82
LIGHT	*DeWatteville Island Range Front Light	✓	44 32	✓	51.21	✓	02.49	✓	82B(C)9440 10-24-82
LIGHT	*DeWatteville Island Range Rear Light	✓	44 33	✓	00.22	✓	53.01	✓	82B(C)9440 10-24-82
LIGHT	Needles Eye Island Light 146	✓	44 33	✓	26.53	✓	13.82	✓	82B(C)9440 10-24-82
LIGHT	St. Lawrence Seaway Light 144	✓	44 33	✓	43.75	✓	53.02	✓	82B(C)9440 10-24-82
LIGHT	St. Lawrence Seaway Light 143	✓	44 33	✓	57.08	✓	22.56	✓	82B(C)9439 10-24-82

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	P. L. Evans, Jr.	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 74L(C)2982	
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field Identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 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.	

[illegible]

RESPONSIBLE PERSONNEL	
NAME	ORIGINATOR
	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
	FIELD ACTIVITY REPRESENTATIVE
P. L. Evans, Jr.	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 I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 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.
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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				ORIGINATING ACTIVITY	
NONFLOATING AID TO NAVIGATION 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)	
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE			
Coastal Mapping Unit AMC, Norfolk, VA		New York		St. Lawrence River		11/7/84			
The following objects HAVE ☐ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.		SURVEY NUMBER		DATUM		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)	
OPR PROJECT NO.		JOB NUMBER		N.A. 1927					
		CM-8205		TP-01174					
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE		FIELD	
		° / ' "	D.M. Meters	° / ' "	D.P. Meters				
STANDPIPE		44 32	✓ 56.01	75 42	✓ 14.86	82B(C)9440 10-24-82		14765 14764 14770	
STACK	*	44 34	✓ 48.91	75 42	✓ 11.29	82B(C)9439 10-24-82		14764 14770	
FLAGPOLE	*	44 35	✓ 13.20	75 40	✓ 52.34	82B(C)9439 10-24-82		14764 14770	
CLOCK TOWER		44 35	✓ 25.14	75 40	✓ 58.98	82B(C)9439 10-24-82		14764 14770	
TANK	*	44 35	✓ 39.17	75 41	✓ 46.60	82B(C)9439 10-24-82		14764 14770	
TANK	*	44 36	✓ 24.04	75 40	✓ 02.38	82B(C)9438 10-24-82		14764 14770	
TOWER	*	44 31	✓ 57.97	75 45	✓ 25.14	82B(C)9441 10-24-82		14765 14770	
SPIRE	(Brockville, Presbyterian Church Spire, (IBC), 1939)	44 35	✓ 25.383	75 41	✓ 12.099	82B(C)9439 10-24-82		14770	
SPIRE	(Brockville, United Church Spire, (IBC), 1939)	44 35	✓ 27.931	75 41	✓ 07.397	82B(C)9439 10-24-82		14770	
SPIRE		44 35	✓ 26.27	75 41	✓ 05.44	82B(C)9439 10-24-82		14770	

*Aerotriangulation position

RESPONSIBLE PERSONNEL		ORIGINATOR
TYPE OF ACTION	NAME	
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	P. L. Evans, Jr./W. McLemore, Jr.	OFFICE ACTIVITY REPRESENTATIVE
		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'		
(Consult Photogrammetric Instructions No. 64.)		
FIELD (Cont'd)		
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	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 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	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.	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		

