

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-01168	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 WOLFE ISLAND	
19 82 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE A. Y. Bryson, CDR		SURVEY TP. <u>01168</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III FINAL</u> JOB <u>PH. CM-8205</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 ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation February 15, 1984 Office October 31, 1984		Field 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 New York Central	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME DATE	
1. AEROTRIANGULATION METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		L. Harrod July 1984	
2. CONTROL AND BRIDGE POINTS METHOD: <u>Calcomp 718</u> PLOTTED BY		L. Harrod July 1984	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: <u>Wild B-8</u> CHECKED BY		D. Norman July 1984	
SCALE: <u>1:20,000</u> CHECKED BY		P. Evans Sept. 1984	
4. MANUSCRIPT DELINEATION METHOD: <u>Smooth drafted</u> PLANIMETRY BY		W. McLemore Sept. 1984	
SCALE: <u>1:20,000</u> CHECKED BY		N.A.	
HYDRO SUPPORT DATA BY		P. Evans Oct. 1984	
CHECKED BY		F. Mauldin Oct. 1984	
5. OFFICE INSPECTION PRIOR TO RECORD FINAL REVIEW BY		N.A.	
6. APPLICATION OF FIELD EDIT DATA BY		N.A.	
7. COMPILATION SECTION REVIEW Class III BY		N.A.	
8. FINAL REVIEW Class III BY		F. Mauldin Oct. 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr. Dec. 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr. Feb 1985	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		J. Sched March 1985	
NOAA FORM 76-36A		SUPERSEDES FORM C & GS 181 SERIES	

NOAA FORM 76-36B
(3-72)

TP-01168

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

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 STAGE REFERENCE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern MERIDIAN 75th	☒ STANDARD ☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
82 B(C) 9365 - 9367	Oct. 24, 1982	09:45	1:50,000	243.9 ft.	
82 B(C) 9387 - 9389	Oct. 24, 1982	10:51	1:50,000	243.9 ft.	
82 B(C) 9454 - 9458	Oct. 24, 1982	11:50	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	SOUTH	WEST
No survey	TP-01169 & TP-01170	No survey	No survey

REMARKS

TP-01168

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (PHOTO IDENTIFICATION) ☐ FIELD EDIT OPERATION				
OPERATION		NAME		DATE
1. CHIEF OF FIELD PARTY		R. Tibbetts		July 1983
2. HORIZONTAL CONTROL		RECOVERED BY R. Daniel		July 1983
		ESTABLISHED BY N.A.		
		PRE-MARKED OR IDENTIFIED BY R. Daniel		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 R. Daniel		July 1983
		LOCATED (Field Methods) BY N.A.		
		IDENTIFIED BY R. Daniel		July 1983
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			2. VERTICAL CONTROL IDENTIFIED	
			None	
PHOTO NUMBER	STATION NAME		PHOTO NUMBER	STATION DESIGNATION
82B(C) 9457	NINE MILE POINT LIGHT, 1982			
3. PHOTO NUMBERS (Clarification of details)				
None				
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED				
None				
PHOTO NUMBER	OBJECT NAME		PHOTO NUMBER	OBJECT NAME
82B(C) 9457	NINE MILE POINT LIGHT (NINE MILE POINT LIGHT, 1982)			
5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE			6. 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)				
1 Form 76-53, CSI Card		3 Forms 76-52 (Covers entire project)		
1 Form 76-86		3 Forms 76-156 (Covers entire project)		
2 Forms 76-19				
2 Forms 75-63				

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-01168

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	October 1984	Final Class III manuscript	March 1985	March 1985
No field edit was performed prior to Final Review	December 1984			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES COUNT	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4		March 1985	Landmarks for charting
2		March 1985	Aids for charting

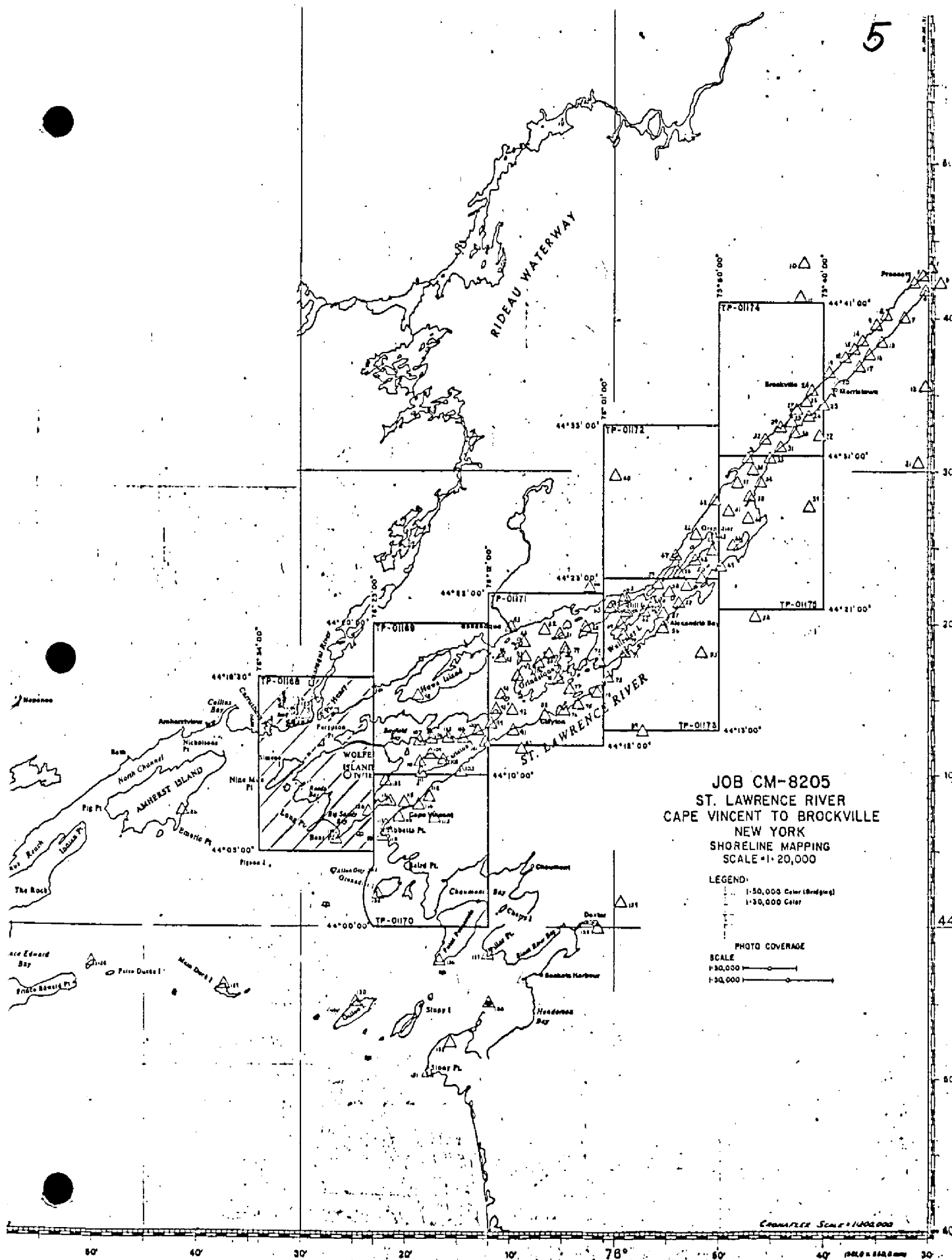
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01168

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.

The 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 the 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 relevant data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-01168

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 aerotriangulation 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.

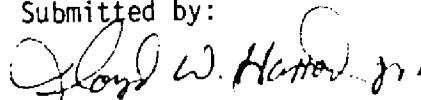
24. SUPPLEMENTAL DATA

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
			-4.4
	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

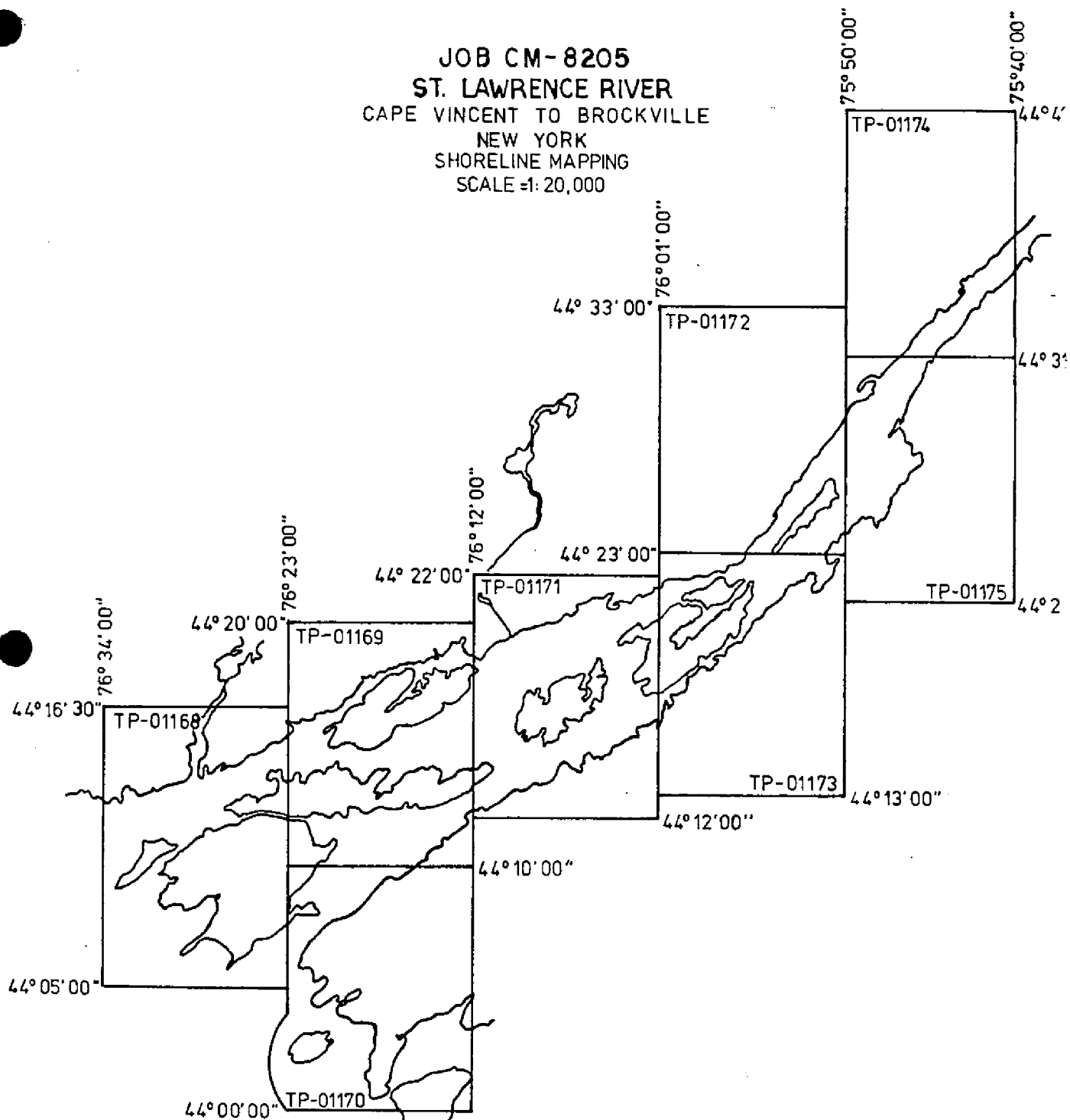
ST. LAWRENCE RIVER, NEW YORK
CM-8205

July 1984

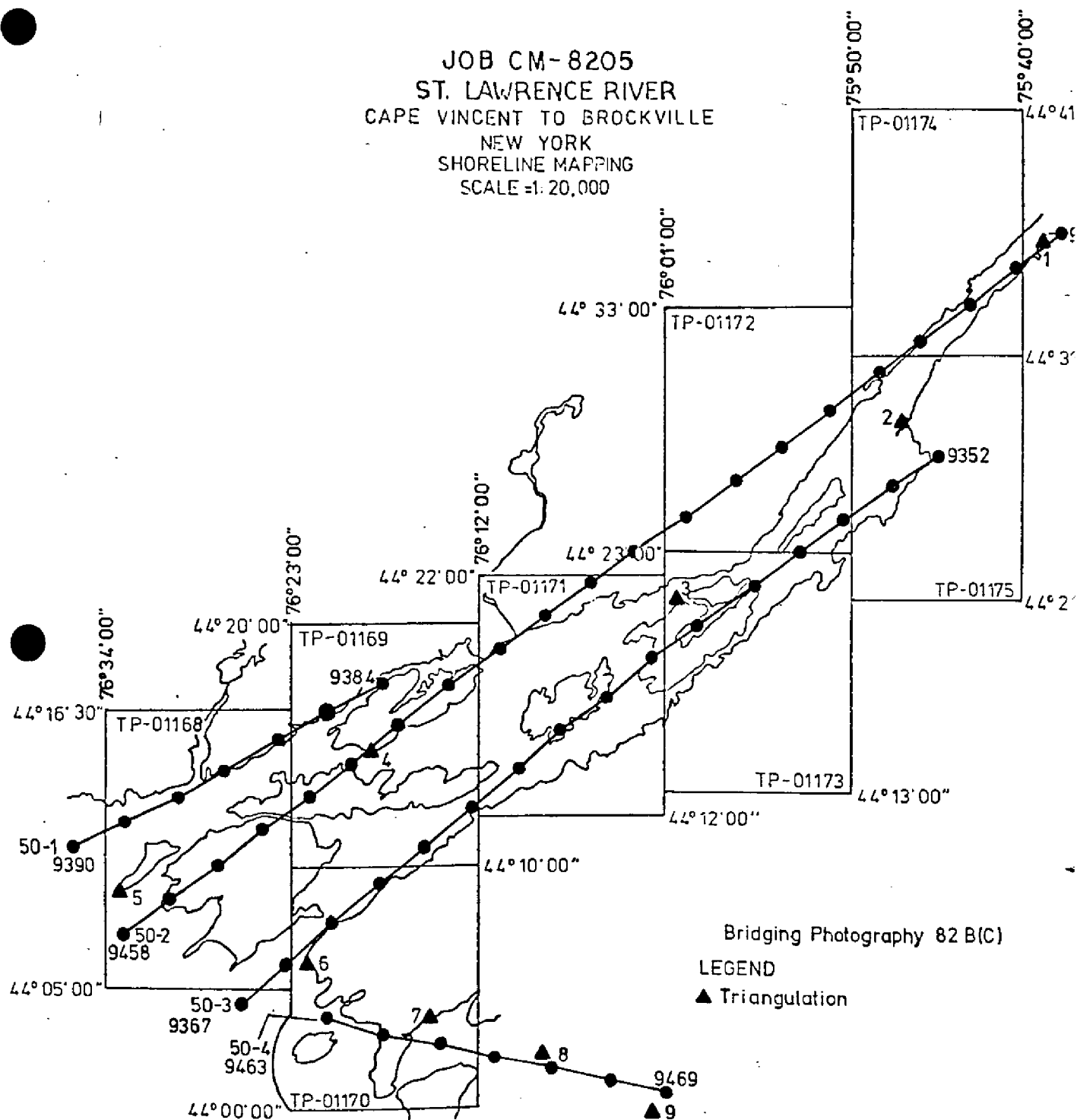
Ratio values for 1:50,000-scale color bridging photography.

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.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY	REMARKS
					N.A. 1927	COORDINATES IN FEET STATE New York ZONE Central	ϕ LATITUDE λ LONGITUDE			
TP-01168	CM-8205			457100						
		NINE MILE POINT LIGHT (CHS), 1982			X=		ϕ 44° 09' 05.528"			
					Y=		λ 76° 33' 22.321"			
					X=		ϕ			
					Y=		λ			
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COMPILATION REPORT
TP-01168

31 - DELINEATION

Delineation was accomplished using stereo instrument 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.

All photographs used to compile the map are listed on form 76-36B. The compilation 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 by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the compilation, color 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 detail was compiled by instrument method as described in Item #31. No unusual problems were encountered.

37 - LANDMARKS AND AIDS

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

TP-01168

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following Canadian Department of Energy, Mines and Resources Quadrangles: Canada, Ontario, Kingston Mills, 1:25,000 scale, 2nd edition, dated 1973; Canada, Ontario, Simcoe Island, 1:25,000 scale, 2nd edition, dated 1972; Canada, Ontario, Wolfe Island, 1:25,000 scale, 2nd edition, dated 1972; and Canada, Ontario, Bear Point, 1:25,000 scale, 1st edition, dated 1972.

47 - COMPARISON WITH NAUTICAL CHARTS

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

A comparison was made with the following Canadian Hydrographic Service Charts: 1421, scale 1:30,000, 26th edition, dated September 7, 1984; 1459, scale 1:12,000, 18th edition, dated May 4, 1984; and 2005, scale 1:30,000, 17th edition, dated March 26, 1982.

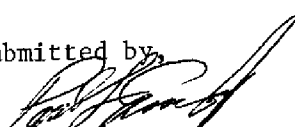
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

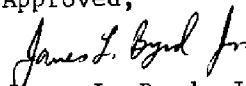
None.

Submitted by



P. L. Evans, Jr.
Cartographic Technician
October 5, 1984

Approved,



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

GEOGRAPHIC NAMES

FINAL NAME SHEET

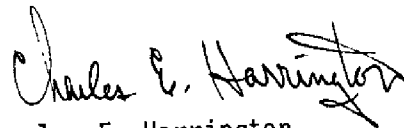
CM-8205 (St. Lawrence River, New York)

TP-01168

Abraham Head
Anglin Bay
Barkers Point
Barrett Bay
Barriefield
Bear Point
Bells Island
Bells Point
Big Sandy Bay
Boat Channel
Brophy Point
Browns Bay
Canadian National (RY)
Carruthers Point
Cartwright Point
Cataraqui Bay
Cataraqui River
Cedar Island
Dawson Point
Deadman Bay
Ferguson Point
Fort Henry (cultural)
Four Mile Point
Garden Island
Goose Island
Horseshoe Island
Kingston
Kingston Harbour
Knapp Point
Lake Ontario
Little Cataraqui Creek

Long Point
Lower Gap
Lucas Point
McDonell Bay
Madama Marsh
Marysville
Mill Point
Milton Island
Milton Point
Navy Bay
Nine Mile Point
Ontario
Point Frederick
Point Henry
Point Pleasant
Portsmouth Harbour
Ravensview
Reeds Bay
Reeds Creek
St. Lawrence River
Samson Point
Sand Bay (1)
Sand Bay (2)
Simcoe Island
Snake Island
Staley Point
The Spectacles
Whiskey Island
Wolfe Island
Yotts Point

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT TP-01168
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 Canadian Department of Energy, Mines and Resources Quadrangles: Bear Point 31C/1d, edition 1; Ontario-New York; Cataraqui 31C/7a, edition 2, Ontario; Simcoe Island 31C/2h, edition 2, Ontario; Wolfe Island 31C/1e, edition 2; Ontario: all four are dated 1972; Kingston Mills 31C/8d, edition 2, Ontario, dated 1973: all five 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 is no contemporary hydrographic survey within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS

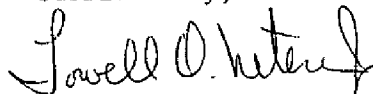
A comparison was made with the following NOS Charts: 14678, 16th edition, 1:30,000 scale, dated June 12, 1982; 14802, 26th edition, 1:80,000 scale, dated March 28, 1981; 14500, 23rd edition, 1:1,500,000 scale, dated July 17, 1982; and 14800, 26th edition, 1:400,000 scale, dated May 12, 1984.

A comparison was made with Canadian Hydrographic Service Charts: 1421, scale 1:30,000, 36th edition, dated September 7, 1984; 1459, scale 1:12,000, 18th edition, dated May 4, 1984; and 2005, scale 1:30,000, 17th edition, dated March 26, 1984.

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 17, 1984

TP-01168

Approved for forwarding,

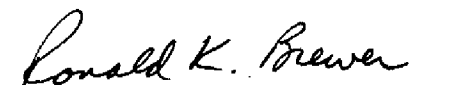


Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,



 Robert W. Lockley
Chief, Photogrammetric Section, Rockville


Chief, Photogrammetry Branch,
Rockville

[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	P. L. Evans, Jr
☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify) FIELD 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 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-Vls.' and date. EXAMPLE: V-Vis. 8-12-75 **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 367.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY							
NONFLOATING AIDS OR LANDMARKS FOR CHARTS				LOCALITY				DATE							
REPORTING UNIT (If field party, ship or office) Coastal Mapping Unit AMC, Norfolk, VA				STATE New York				St. Lawrence River							
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED				HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks. SURVEY NUMBER CM-8205 TP-01168				DATE 9/5/84							
OPR PROJECT NO.				DATUM				METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED			
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)				LATITUDE		LONGITUDE		OFFICE		FIELD		CHARTS AFFECTED			
				° /	D.M. Meters	° /	D.P. Meters								
LIGHT	Wolfe Island South Side Light			44 07	30.06	76 23	12.81	82B(C) 9366 10-24-82				14802 14768			
LIGHT	(Nine Mile Point Light, 1982)			44 09	05.528	76 33	22.321	82B(C) 9457 10-24-82		TRIANG REC, 7-14-83		14802 14768			
LIGHT	#Cedar Island Light			44 13	27.93	76 27	16.89	82B(C) 9387 10-24-82				14802 14768			
LIGHT	#Kingston Harbour Single Station Range Light			44 14	4.02	76 28	15.18	82B(C) 9387 10-24-82				14802 14768			
LIGHT	#Carruthers Point Range Front Light			44 12	29.83	76 32	59.90	82B(C) 9388 10-24-82				14802 14768			
LIGHT	#Porthsmouth Wharf Light			44 13	00.32	76 30	55.09	82B(C) 9388 10-24-82				14802 14768			
	#Aids found in Canadian Light List														

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	P. L. Evans, Jr.
☐ 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 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 *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.

NOAA FORM 76-40 (8-74)										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
Replaces C&GS Form 567.										NONFLOATING AID OR LANDMARKS FOR CHARTS									
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit AMC, Norfolk, VA		STATE New York		LOCALITY St. Lawrence River		DATE 9/5/84		ORIGINATING ACTIVITY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)									
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		METHODOLOGY		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)		POSITION		LATITUDE		LONGITUDE		OFFICE		FIELD							
				N.A. 1927		D.M. Meters		D.P. Meters											
				° /		° /		° /											
SILO	*			44 07	✓	05.16	✓	76 24	✓	26.87	✓	82B(C)9366 10-24-82	14802 14768						
TV MAST	*			44 09	✓	58.22	✓	76 25	✓	29.94	✓	82B(C)9455 10-24-82	14802 14768						
R MAST	*CKWS			44 10	✓	57.56	✓	76 27	✓	52.14	✓	82B(C)9456 10-24-82	14802 14768						
R MAST	*CKWS			44 10	✓	56.30	✓	76 27	✓	54.21	✓	82B(C)9456 10-24-82	14802 14768						
R MAST	*CKWS			44 10	✓	54.24	✓	76 27	✓	50.42	✓	82B(C)9456 10-24-82	14802 14768						
R MAST	*CKWS			44 10	✓	52.21	✓	76 27	✓	50.81	✓	82B(C)9456 10-24-82	14802 14768						
R MAST	*CKWS			44 10	✓	51.55	✓	76 27	✓	53.74	✓	82B(C)9456 10-24-82	14802 14768						
R MAST	*CKWS			44 10	✓	49.46	✓	76 27	✓	50.04	✓	82B(C)9456 10-24-82	14802 14768						
BELL TR	*			44 11	✓	27.87	✓	76 26	✓	35.14	✓	82B(C)9455 10-24-82	14802 14768						
R MAST	*CKLC			44 12	✓	36.41	✓	76 25	✓	01.61	✓	82B(C)9455 10-24-82	14802 14768						

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	ORIGINATOR ☐ 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	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 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 I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Visually 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.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NON-FLUORATING YARDS OR LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY									
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED										☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH <i>(See reverse for responsible personnel)</i>									
REPORTING UNIT (If field party, ship or office)		STATE		LOCALITY		DATE													
Coastal Mapping Unit		New York		St. Lawrence River		9/5/84													
AMC, Norfolk, VA																			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED									
		CM-8205		TP-01168		N.A. 1927													
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		LATITUDE		LONGITUDE													
				° /		° /		D.M. Meters		D.P. Meters									
R MAST	*CKLC	44 12	✓	34.69	✓	76 25	✓	00.97	✓	82B(C)9455	10-24-82	14802	14768						
R MAST	*CKLC	44 12	✓	33.00	✓	76 25	✓	00.34	✓	82B(C)9455	10-24-82	14802	14768						
R MAST	*CKLC	44 12	✓	31.32	✓	76 24	✓	59.72	✓	82B(C)9455	10-24-82	14802	14768						
SILLO	NE of 2	44 12	✓	35.31	✓	76 25	✓	45.49	✓	82B(C)9455	10-24-82	14802	14768						
SILLO	SW of 2	44 12	✓	35.1	✓	76 25	✓	45.8	✓	82B(C)9455	10-24-82	14802	14768						
STACK TALLEST OF 4	*	44 12	✓	59.70	✓	76 33	✓	13.94	✓	82B(C)9389	10-24-82	14802	14768						
STACK	*	44 13	✓	01.33	✓	76 31	✓	15.56	✓	82B(C)9388	10-24-82	14802	14768						
TR	*	44 13	✓	15.66	✓	76 31	✓	20.28	✓	82B(C)9388	10-24-82	14802	14768						
STACK	*	44 13	✓	05.21	✓	76 30	✓	49.92	✓	82B(C)9388	10-24-82	14802	14768						
STACK	*	44 13	✓	20.91	✓	76 29	✓	41.21	✓	82B(C)9388	10-24-82	14802	14768						

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	P. L. Evans, Jr.
☐ 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 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 **PHOTOGAMMETRIC 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.	

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETEDREPORTING UNIT
(Field Party, Ship or Office)
Coastal Mapping Unit

AMC, Norfolk, VA

New York

LOCALITY

St. Lawrence River

DATE

9/5/84

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NONREMOVING AID TO NAVIGATION LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY

- ☐
- HYDROGRAPHIC PARTY
-
- ☐
- GEODETIC PARTY
-
- ☐
- PHOTO FIELD PARTY
-
- ☒
- COMPILATION ACTIVITY
-
- ☐
- FINAL REVIEWER
-
- ☐
- QUALITY CONTROL & REVIEW GRP.
-
- ☐
- COAST PILOT BRANCH
-
- (See reverse for responsible personnel)

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

POSITION

N.A. 1927

METHOD AND DATE OF LOCATION
(See instructions on reverse side)CHARTING
NAMEDESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)LATITUDE
° / ' " D.M. MetersLONGITUDE
° / ' " D.P. MetersCHARTS
AFFECTED

TR

44 13

76 29

20.09

26.76

82B(C) 9388

10-24-82

14802
14768

TR

44 13

76 29

51.61

24.73

82B(C) 9388

10-24-82

14802
14768

R TR FR

44 13

76 29

57.09

10.04

82B(C) 9388

10-24-82

14802
14768

CHY

44 13

76 28

30.49

59.24

82B(C) 9387

10-24-82

14802
14768

DOME

44 13

76 29

45.36

0.0

82B(C) 9387

10-24-82

14802
14768CLOCK TR
& DOME

44 13

76 28

47.43

50.91

82B(C) 9387

10-24-82

14802
14768

TR

44 13

76 28

43.52

42.54

82B(C) 9387

10-24-82

14802
14768CLOCK
TR

44 13

76 28

48.40

4.64

82B(C) 9387

10-24-82

14802
14768

FP

44 13

76 27

47.24

39.92

82B(C) 9387

10-24-82

14802
14768

FP

44 13

76 27

49.60

35.37

82B(C) 9387

10-24-82

14802
14768

2-Sided

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	P. L. Evans, Jr.
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
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	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
I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: P - 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	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 Rev

[illegible]