

## Name of Collection

Fredericton Historical Aerial Photo Orthomosaic 1951

## Description of Collection

Historical aerial photo Orthomosaic of Fredericton, October 1951. Created from a series of 33 aerial photo survey images collected over three flight days in October 1951. The images that comprise the Orthomosaic were provided digitally to the Geodesy and Geomatics Engineering Department (Remote Sensing Group/Dr. Yun Zhang) at the University of New Brunswick for the *Three Cities New Brunswick Project* (Dr. Sasha Mullally, Dr. Yun Zhang) by the Nova Scotia Aerial Photography Library via special permission by Danny Crain (*Director of Information Systems and Departmental Services Branch, New Brunswick Department of Natural Resources*, February 2023).

## Capture

### Photographic Capture

Roll	Capture Date	Pilot	Navigator	Camera Operator	Air Photos in Orthomosaic	Time of Day
2231	October 10th, 1951	Bach		Gormley	063, 064, 065, 066, 067	1040 - 1115
2241	October 15th, 1951	W. Ross	N. Parent	E. Young	107, 108, 109, 110, 111, 112, 113	1055-1142
2238	October 17th, 1951	Bach		Gormley	305, 306, 307, 308, 308, 310, 311, 312	1216-1253
2238	October 17th, 1951	Bach		Gormley	407, 408, 409, 410, 411, 412, 413	1255-1325
2241A	October 17th, 1951	W. Ross	N. Parent	E. Young	065, 066, 067, 068, 069, 070, 071	1252-1328

### Flight structure

Multiple flights over multiple days.

## Relationship between images

Aerial photo survey captured as individual images along survey flight lines.

## Geographic scope of the flight

Fredericton and surrounding areas

## Purpose of the flight

Unknown

## Employing organization or company

Kenting Aviation

## Commissioning body

Province of New Brunswick Department of Natural Resources

# Original Custody & Early Handling

## Initial owner/custodian

New Brunswick Department of Natural Resources

## Length of time held by original custodian

Unknown

## Original format

Kodak Aero Super XX Film (panchromatic)

Analog print

## Evidence of original sequencing or labeling

Individual imagery contains numbering and sequencing based on the available film report issued by Kenting Aviation. See figure below.

**KENTING AVIATION / PHOTOGRAPHIC SURVEY**  
**FILM REPORT**

Operating Base FREDERICTON, NB Date OCTOBER 10/51 Report No. 459  
Aircraft ANSON D5V Time Zone AST Job No. 383  
Type of Photography VERTICAL Type of Film SUPER XX Flight No. DSV 101  
Camera Type & No. 680-115 Mag. No. 107 Roll No. 2231  
F.L. of Lens 68 Lens No. 195619 Total Exposures on this Report 341  
Filter Wings-blue Intervalometer No. 160 Total Exposures on Completed Roll 342  
Light Conditions (✓) Clear ( ) Haze ( ) Bright ( ) Dull ( )  
Flying Conditions ( ) Smooth ( ) Bumpy ( ) Rough ( ) Average Temp. \_\_\_\_\_

LINE	HDG	EXPOSURE NO'S	TIME	TIME INTERVAL	ALTITUDE		POSITION LAT. & LONG	REMARKS APERTURE, SHUTTER, ETC.	ANNO NEGAT
					IND.	TRUE			
4540	W	159-177	FOG	22		8500	6005-60750	f8 1/100 Complete	1-
		275	FOG						
4539-	E	276-375	1118-1117	17	"	"	6750-6605	" " Complete	98
4538	W	376	FOG	20		6605-6750	" " Complete	10	
		377-467	1152-1226						
		468-500	Wound off						

END OF ROLL

100 - 1000  
KENTING CO.

383-4540  
2231-63

film in vault

## Transfer to Archives

*Tracking how the material moved through institutions.*

## Chain of custody summary

Early chain of custody unknown. New Brunswick Department of Natural Resources air photo library in Fredericton currently retains certain analog prints of the imagery within the Orthomosaic (incomplete due to prints becoming lost over time), and the Nova Scotia Aerial Photography Library contains digital versions of the all the imagery in the Orthomosaic, as well as the negatives in their vault.

## Source of acquisition for AIM Project & Format

Service Nova Scotia, Nova Scotia Aerial Photography Library, 33 digital images (TIFFs) in March 2025.

160 Willow Street, Amherst, NS, B4H-3W5

## Known storage environments

Film currently in vault at Nova Scotia Geomatics Centre, Nova Scotia Aerial Photography Library in Amherst, NS and select analog images at the Department of Natural Resources New Brunswick in Fredericton, NB.

## Technical Provenance

The imagery was georeferenced and orthomosaicked in ArcGIS Pro in August of 2025. Visual artifacts occurred in the result due to internal memory failure, which was not detected until after the Orthomosaic was complete.

## Additional information and sources

The following historical documents are also available for this collection:

- Flight Index
  - Fredericton Southside and partial Northside
  - Fredericton Northside beyond Nashwaaksis and Marysville
- Film reports for all rolls contained in the Orthomosaic