

Name of Collection

Fredericton Historical Aerial Photo Orthomosaic 1931

Description of Collection

Historical aerial photo mosaic of Fredericton, September 5th, 1931. Created from a series of 24 aerial photo survey images. The images that comprise the mosaic were provided as digital TIFFs (600-800dpi) 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* (3CT-NB, Dr. Sasha Mullally, Dr. Yun Zhang) by the National Air Photo Library in 2022. The digital collection is currently held on the UNB GGE Remote Sensing server, *datavault*.

Capture

Photographic Capture

Roll	A4232
Air Photos in Mosaic	051-073

Flight structure

Single flight over one day

Relationship between images

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

Geographic scope of the flight

Fredericton and surrounding area.

Purpose of the flight

Unknown

Employing organization or company

Unknown

Commissioning body

Canadian Federal Government

Original Custody & Early Handling

Initial owner/custodian

Aerial photo negatives and prints initially held by the National Air Photo Library in Ottawa, ON.

Length of time held by original custodian

Within the year of capture (1931) to present.

Original format

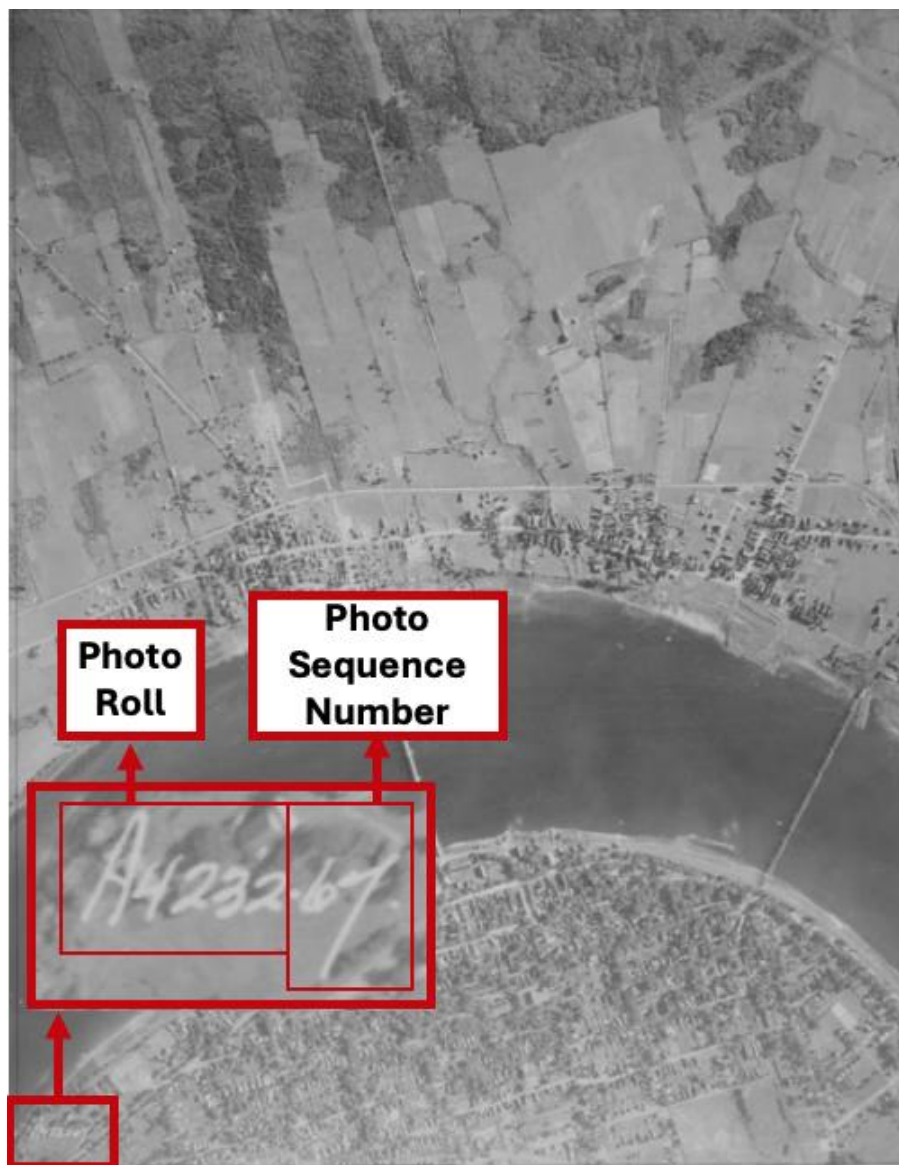
70mm film and contact prints.

Evidence of original sequencing or labeling

Individual imagery is labeled within each image and contains numbering and sequencing based on survey flight lines (Fig. 1). An internal historical flight index document used by the National Air Photo Library also contains air photo roll and photo sequencing (Fig. 2).

Figure 1

Fredericton 1931 aerial photo flight sequencing labels



National Air Photo Library internal historical flight index document



Chain of custody summary

The imagery in the mosaic originates from the National Air Photo Library and has been held there as contact prints and original 70mm negatives from its collection year (1931) to the present. Digital imagery was then acquired by the Geodesy and Geomatics Engineering Department (GGE, Remote Sensing Group/Dr. Yun Zhang) at the University of New

Brunswick (UNB) for the *Three Cities New Brunswick Project* (3CT-NB, Dr. Sasha Mullally, Dr. Yun Zhang).

All digitized imagery was processed by the geomatics analyst in the 3CT-NB Project in GGE at UNB (2022), and is currently held within the UNB GGE Remote Sensing 3CT-NB project server, *datavault*.

Source of acquisition for AIM Project & Format

National Air Photo Library

24 TIFFs (800dpi, 600dpi (A4232-061))

Known storage environments

Film vault (film negatives) and climate controlled storage (contact prints) at the National Air Photo Library, Ottawa, ON.

Technical Provenance

The imagery was georeferenced in ArcGIS Pro (2022), mosaicked in PCI Geomatica (2022), then refined and mosaicked again in PCI Geomatica (2025).

Additional information and sources

National Air Photo Library internal document of historical flight index information