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Open File

C.F.100 Photo Reconnaissance
Missions in the Bancroft,
Ontario, and Mont Tremblant,
Quebec, districts.

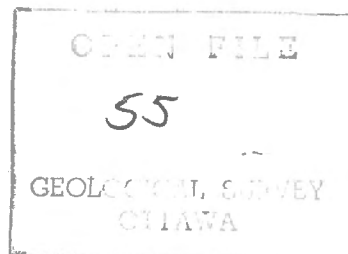
GSC
open file
55
C.1

NOTE ON OF 55 PHOTOS

30 April 1971

Air photo library at 615 Booth has a storage problem and left the rolls of film at Uplands. They can borrow them and let one scan them on the viewer for 70 mm at 615 Booth, but you would have to set up an appointment. They have a regular delivery service with Uplands.

per Jack MacDonald - Topo





MEMORANDUM

Dr. Harber

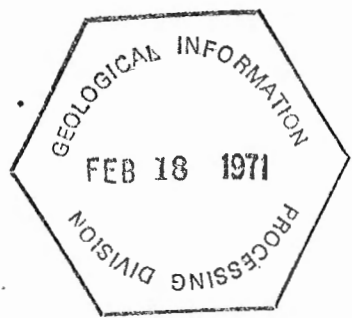
CLASSIFICATION

~~Dr. C.S. Lord.~~

TO
A

Dr. A. G. Darnley,
Chief,
Exploration Geophysics Division

YOUR FILE No.
Votre dossier



OUR FILE No.
Notre dossier 111-1-3 630031

FROM
De

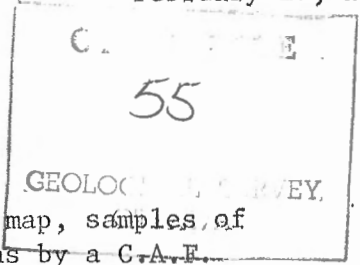
V. R. Slaney,
Remote Sensing Section,
Exploration Geophysics Division

DATE February 17, 1971

OLD

SUBJECT
Sujet

Request for Open File Announcement



Recommended
RS

Permission is requested for information (flight logs, index map, samples of photography) relating to 3 high altitude photography missions by a C.A.F. jet aircraft for GSC to be placed on Open File.

It is proposed to deposit the original imagery with the Air Photo Library (Remote Sensing Section) where it could be viewed and copies obtained as needed.

** see note attached*

I suggest the following for the distribution notice:

OPEN FILE

The following flight data, index maps and samples of imagery are being placed on Open File at the Library of the Geological Survey of Canada, 601 Booth Street, Ottawa 4, Ontario. A C.F. 100 jet photo reconnaissance aircraft fitted with 4 70 mm cameras flew 3 missions at 44,000' over test areas selected by the Geological Survey.

- Flight 1 West from Bancroft, Ontario, 15 miles long, scale 1:176,000. Films- Panchromatic, Infrared, Colour, False-colour.
- Flight 2 Southwest from Mont Tremblant, Quebec, 18 miles long, scale 1:176,000. Films- Colour, Panchromatic colour separation negatives, red, green, blue.
- Flight 3 West from Bancroft, Ontario, 50 miles long, scale 1:299,000. Films- Infrared, Colour, False-colour (negative), false-colour (positive).

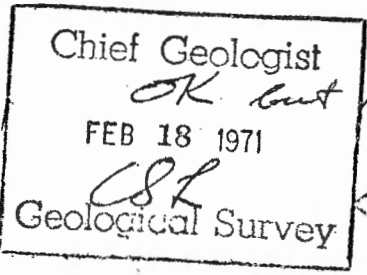
The photography took place between May and July 1968. Copies of flight data, index maps and imagery may be obtained from the Air Photo Library, 615 Booth Street, Ottawa 4.

do they agree?

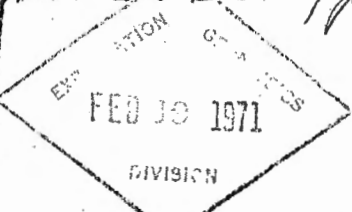
V.R. Slaney

V. R. Slaney

VRS/jm



OK but Air Photo Library people must be agreeable and advised



*Copy sent to
P. J. ... file 63003
18/2/71
D.*

HIGH ALTITUDE PHOTO MISSIONS, MONT TREMBLANT, QUEBEC
AND BANCROFT, ONTARIO

The following flight data, index maps and samples of imagery are placed on open file at the Library of the Geological Survey of Canada.

In the summer of 1968, the Canadian Armed Forces experimental photographic group, A.E.T.E. (Commander Major Laukes) carried out three flights over two test areas selected by the Geological Survey of Canada. The aircraft used was a CF 100 twin jet aircraft fitted with four 70 mm. Vinten cameras which were installed in the bomb bay. The cameras were not accessible in flight and there was no intervalometer to enable photographs to be exposed at set intervals.

On the first two flights the cameras were turned on and ran freely at the normal camera speed of four frames per second providing imagery with \pm 98% overlap.

On the third flight, the cameras were fired by the aircraft photograph/navigator in five second bursts which increased the effective length of photo line from about 15 miles in the first and second flights to 50 miles in the third flight.

Description of flights

A summary of the flight data is presented in illustration I while illustration 2 provides location map of the areas flown.

Flight 1: Mont Tremblant. Four standard films, Colour, Colour-infrared, Panchromatic and Infrared, exposed simultaneously for comparison.

Stereo coverage (60% overlap) is provided by the following frames:

Roll S68/5 Pan + Wratten 12	Nos. 84, 110, 132, 202, 273, 343, 418, 467
Roll S68/6 Colour 8442	Nos. --- --- --- 7, 83, 160, 244, 299
Roll S68/7 Infrared	Nos. -- 1, 27, 106, 184, 263, 349, 403
Roll S68/8 Colour I.R.	Nos. 2, 33, 56, 135, 216, 294, 380, 436
8443 + Wratten 12	

Flight 2: Bancroft. Three cameras carried Panchromatic film and Wratten colour separation filters (red, green and blue pass) and the fourth camera, colour film.

Stereo cover (60% forward overlap) is provided by the following frames:

Roll S68/1	Pan. + Green pass filter	Nos. 5, 25, 97, 170, 256, 336, 413
Roll S68/2	Pan. + Red pass filter	Nos. 5, 25, 90, 164, 233, 304, 374
Roll S68/4	Pan. + Blue pass filter	Nos. 6, 10, 84, 165, 242, 324, 399
Roll S68/3	Colour 8442	Nos. 3, 21, 93, 175, 251, 330, 406

Flight 3: Bancroft. Lenses with a focal length of 1.75" were used to give negative scales of 1:299,000.

Colour, infrared and colour-infrared film (in two cameras) was exposed.

The flight began with a low level pass over Uplands Airport to test cameras and exposures, 2-4 tenth cloud and heavy haze over Bancroft marred the photography but provided evidence of the relative haze penetrative qualities of the films.

Copies of the photography may be obtained from:

National Air Photo Library,
Remote Sensing Distribution Centre,
Department of Energy, Mines and Resources,
615 Booth Street,
Ottawa, Ontario, Canada.

The cost for the photography is:

Flight 1 (stereo coverage as listed)	\$19.00
Flight 2 (stereo coverage as listed)	\$9.00
Flight 3 (complete coverage)	\$308.00

Please note that these prices are presently under review and are subject to change without notice.

SUMMARY OF FLIGHT DATA

- (1) Mont Tremblant: Cameras were free running at four frames per second. The weather was sunny with very light haze and visibility of over twenty miles.
- (2) Bancroft: Cameras were free running at four frames per second. The weather was sunny with no haze and visibility of over twenty miles.
- (3) Uplands & Bancroft: Cameras were operated in five second bursts at ten second intervals. The weather was clear at Uplands, but Bancroft had three tenths scattered cumulus cloud cover and thick haze. The visibility was from ten to fifteen miles.

Area/ Date	Roll No.	Film	Filter**	Wavelength Sensitivity (microns)	Altitude A.G.L. (feet)	Lens "F" (ins)	Lens f-stop	Rated Shutter Speed	Devel- opment	Film Scale (approx.)
(1) Mont Tremblant 3 May 68	S68/5	Plus X Aero 5401	12	0.5-0.7	44,000	3	5.6-8.0	1/1000	Neg.	1:176,000
	S68/6	Ektachrome 8442*	1a	0.39-0.7	44,000	3	5.6-8.0	1/1000	Neg.	1:176,000
	S68/7	Infrared (IR) 5424	89b	0.7-0.9	44,000	3***	5.6	1/1000	Neg.	1:176,000
	S68/8	Ektachrome-IR 8443	12	0.5-0.9	44,000	3	4.0-5.6	1/1000	Neg.	1:176,000
(2) Bancroft 6 May 68	S68/1	Plus X Aero 5401	57	0.48-0.59	44,000	3	2.8-4.0	1/1000	Neg.	1:176,000
	S68/2	Plus X Aero 5401	25	0.59-0.7	44,000	3	4.0-5.6	1/1000	Neg.	1:176,000
	S68/3	Ektachrome 8442	1a	0.4-0.7	44,000	3	5.6-8.0	1/1000	Neg.	1:176,000
	S68/4	Plus X Aero 5401	2a+47	0.41-0.5	44,000	3	2.8	1/1000	Neg.	1:176,000
(3) Uplands & Bancroft 15 July 68	S68/9	Ektachrome 8442	1a	0.4-0.7	1,000 & 44,000	1.75	5.6-8.0	1/1000	Pos.	1:6,800 & 1:299,000
	S68/10	Ektachrome-IR 8443	12	0.5-0.9	1,000 & 44,000	1.75	4.0-5.6	1/1000	Pos.	1:6,800 & 1:299,000
	S68/11	Infrared (IR) 5424	89b	0.7-0.9	1,000 & 44,000	1.75	4.0-5.6	1/1000	Neg.	1:6,800 & 1:299,000
	S68/12	Ektachrome-IR 8443	12	0.5-0.9	1,000 & 44,000	1.75	4.0-5.6	1/1000	Neg.	1:6,800 & 1:299,000

* camera jammed @ 75' ** Wratten Filters *** Lens focal distance extended for Infrared (IR) film

SUMMARY OF FLIGHT DATA

Illustration I.

see over for notes.

SUMMARY OF FLIGHT DATA

NOTES

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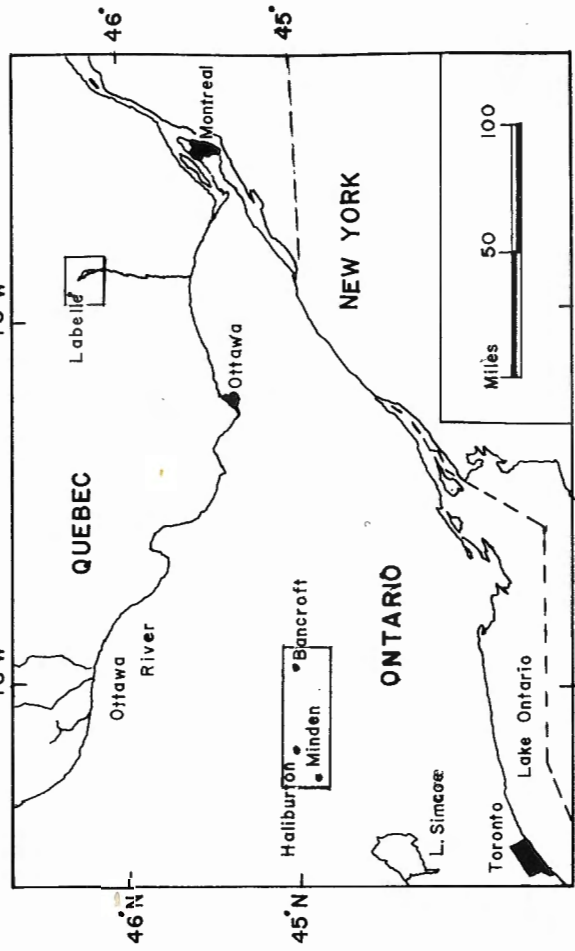
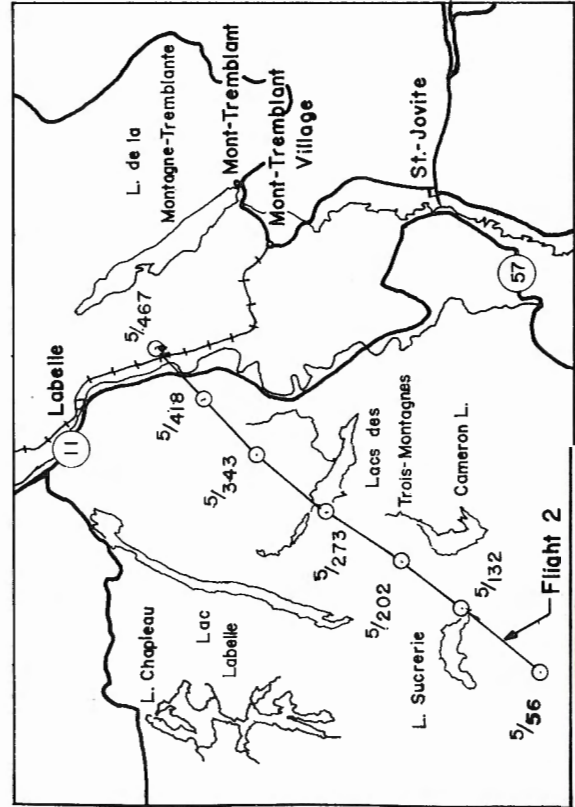
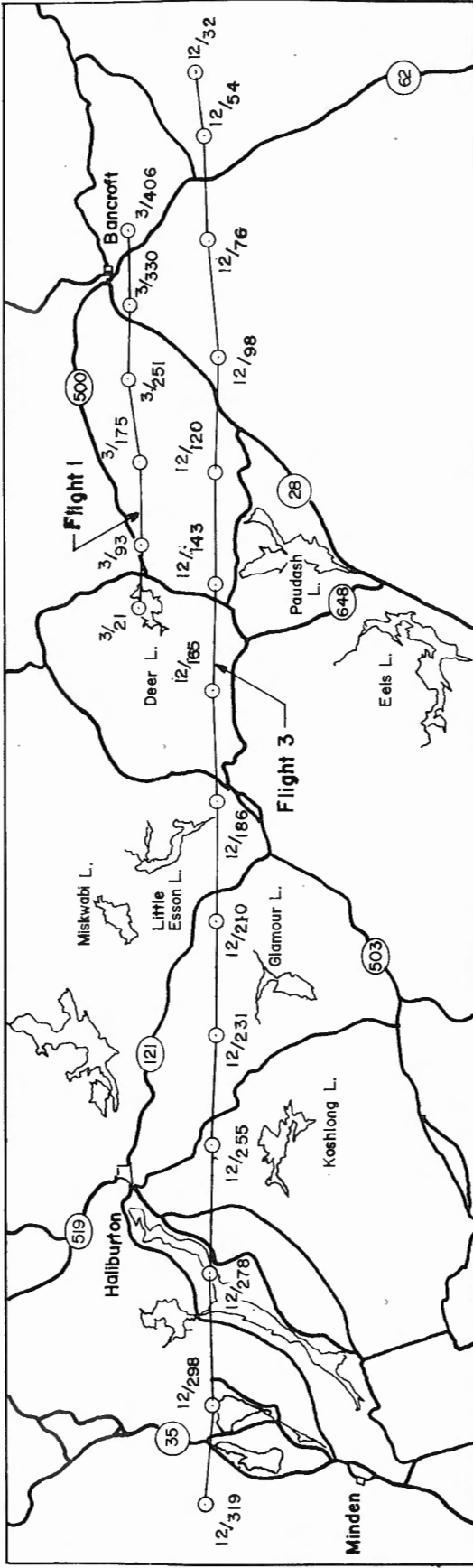


Illustration 2.

LOCATION OF FLIGHT LINES



568/3
904 E/895

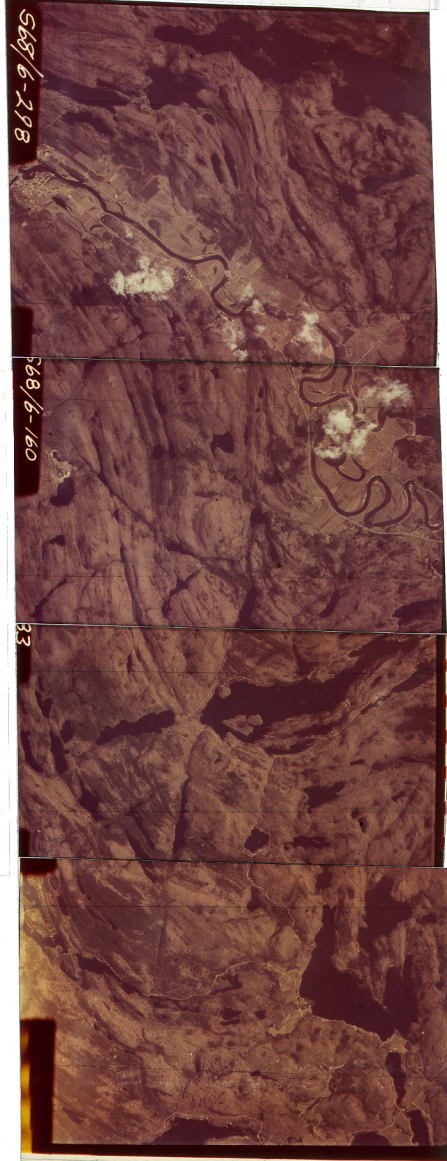
03

Flight 2, Roll S68/3

BANCROFT.

Film, Colour 8442.

Scale 1:176,000.



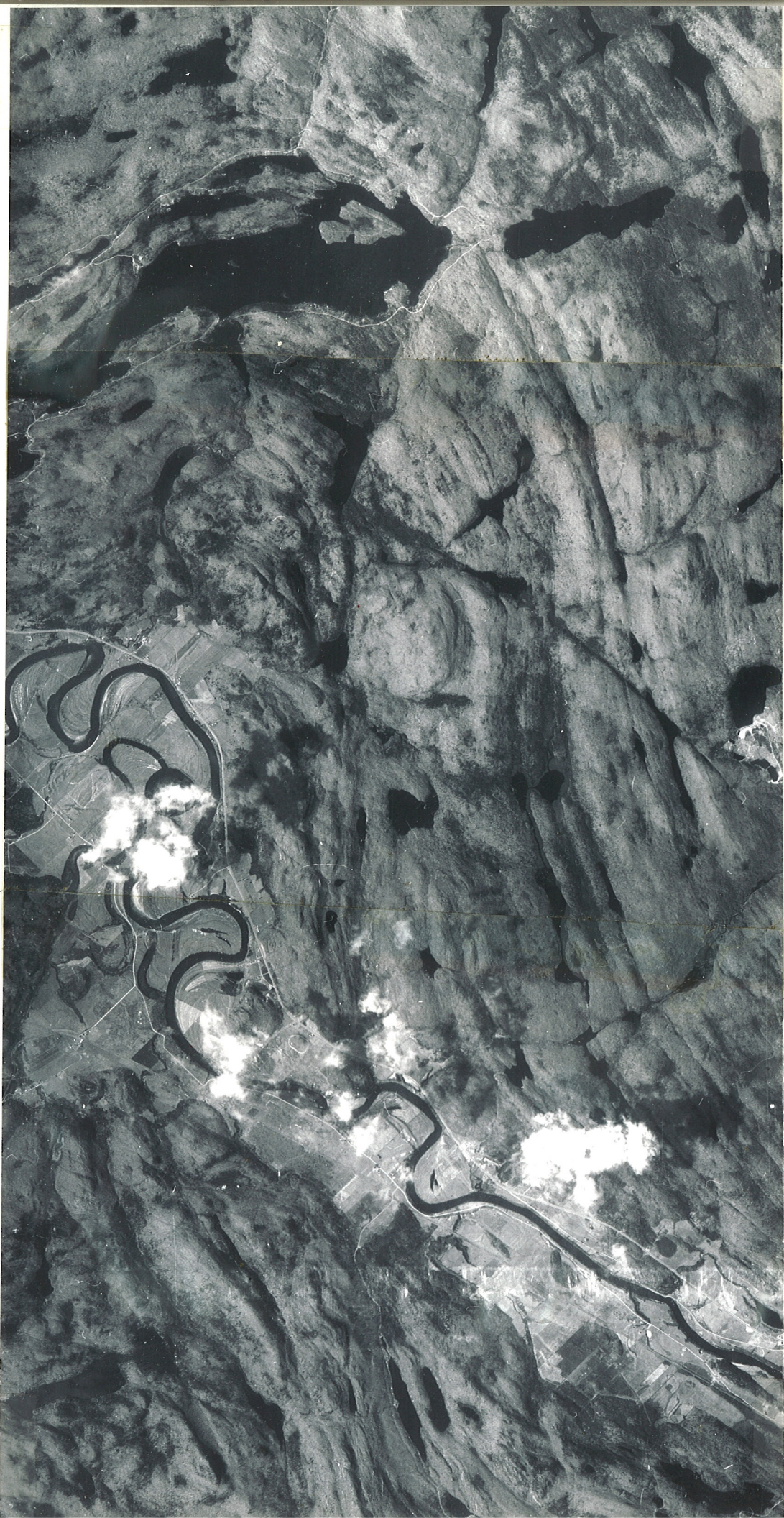
568/6
862-9/895

091-9/895

Flight 1, Roll S68/6

MONT TREMBLANT

Film, Colour 8442.



Flight 1, Roll S68/5

MONT TREMBIANT

Film, Plus X, minus Blue
filter

Negative scale, 1:176,000

Print scale 1:75,000.



Flight 1, Roll S68/7.

MONT TREMBLIANT

Film, Infrared 5424, 89b
filter.

Negative scale, 1:176,000

Print scale 1:75,000



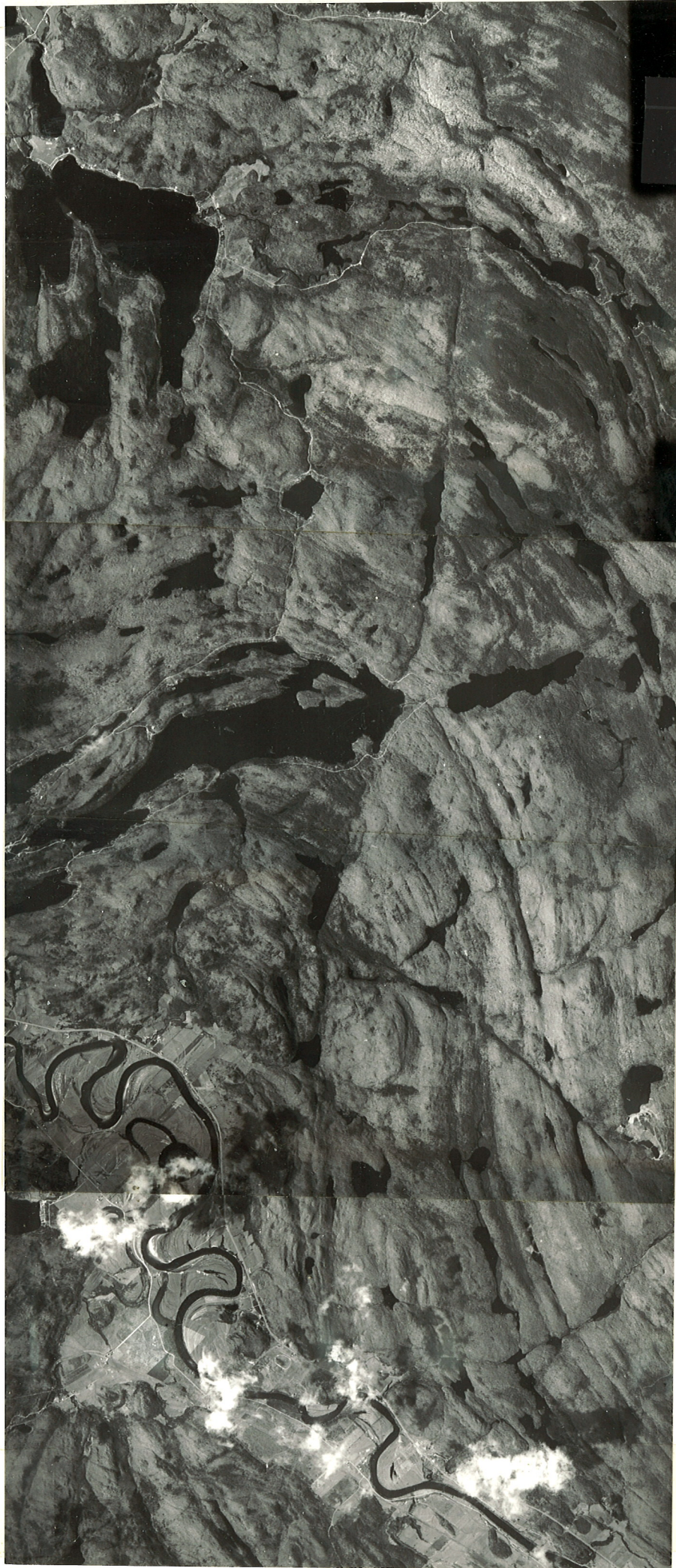
Flight 1, Roll S68/8

MONT TREMBLANT

Film, Colour-Infrared
8443, dev. Neg.

Negative scale 1:176,000

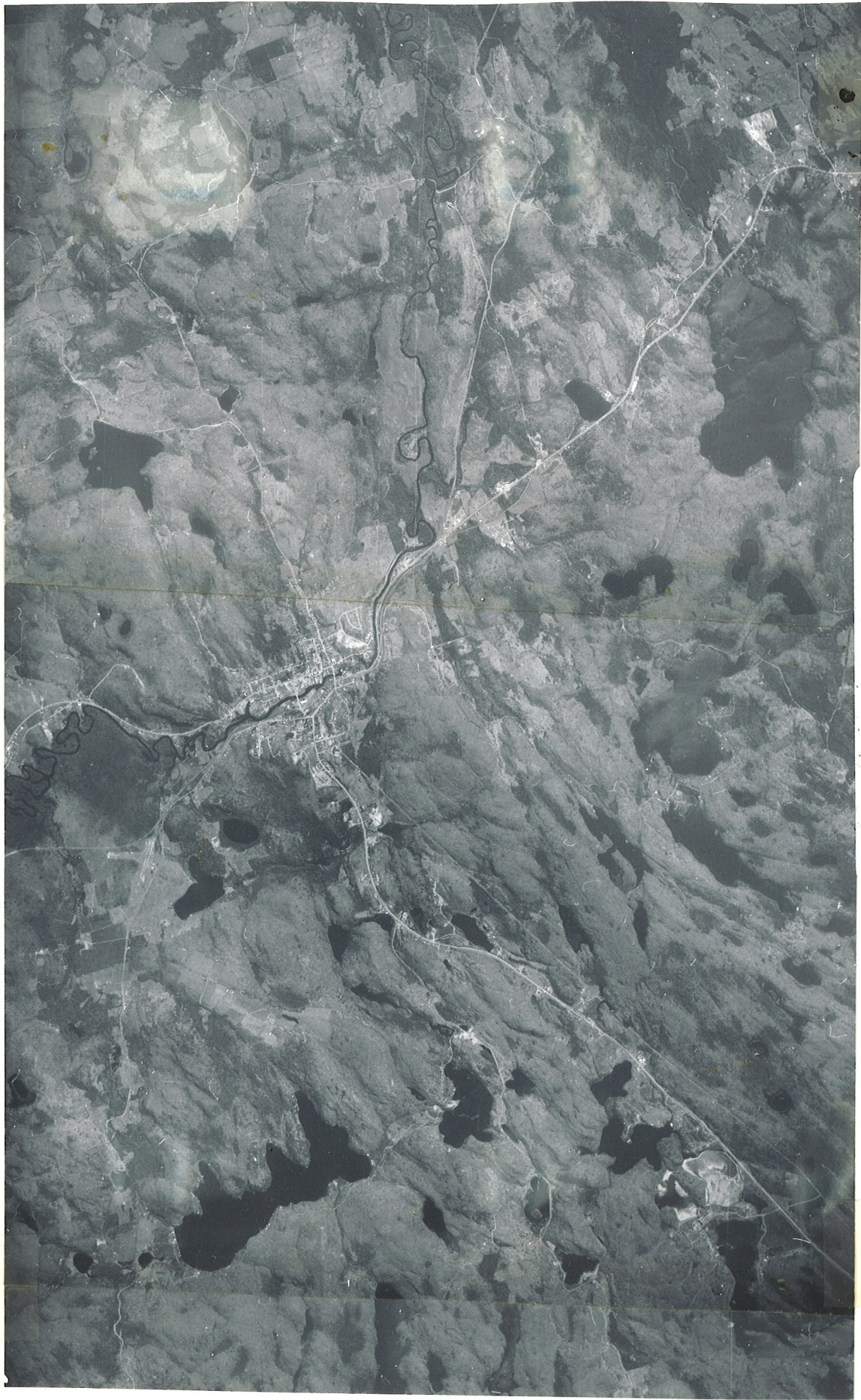
Colour print scale 1:90,000



Flight 1, Roll S68/8

MONT TREMBLIANT

Film, Colour-Infrared 8443
developed negative
Negative scale 1:176,000
B+W print scale 1:90,000



GREEN RECORD.

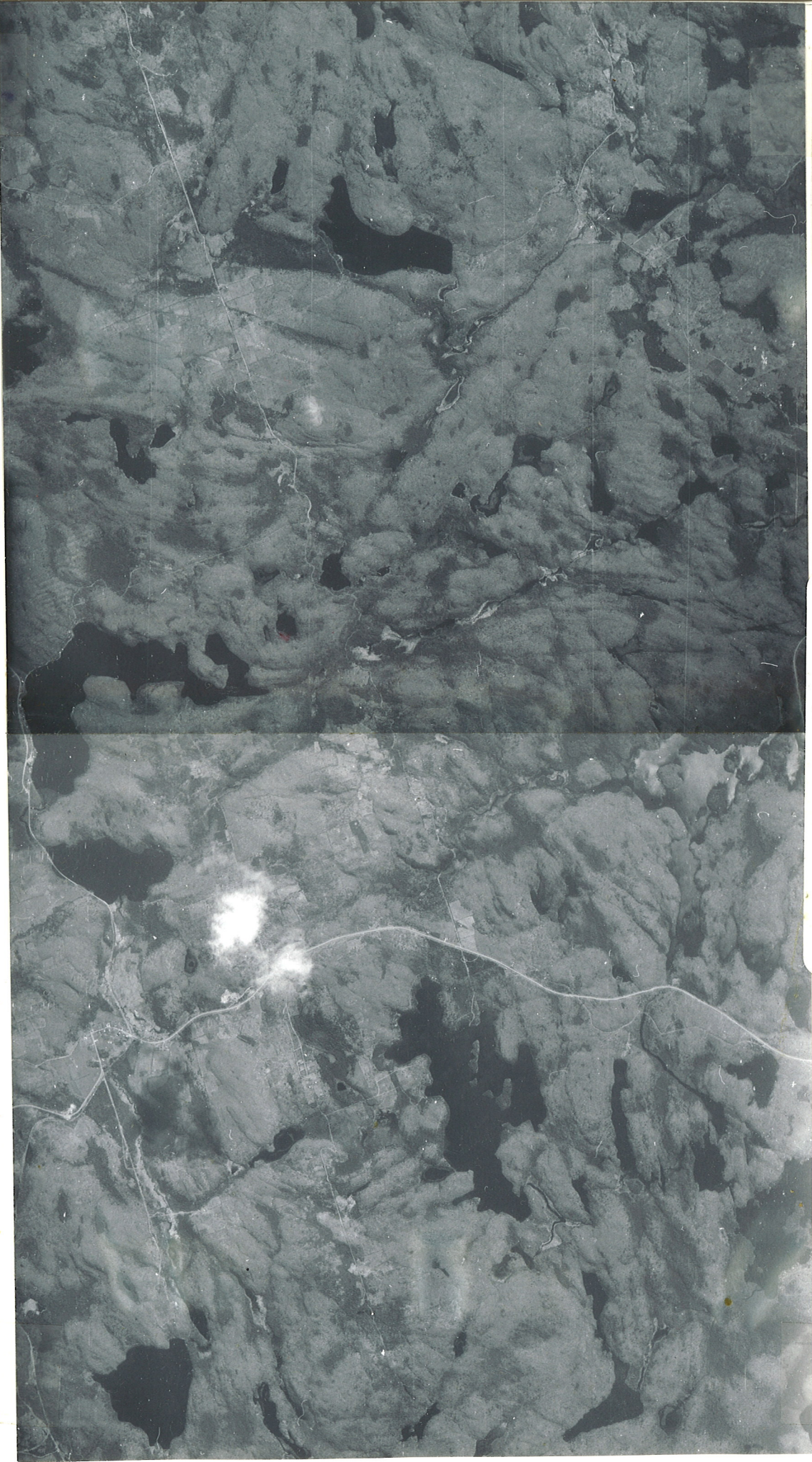
Flight 2, Roll S68/1

BANCROFT (east half)

Film Plus X 5401, 57 filte:

Negative scale 1:176,000

Print scale 1:75,000



GREEN RECORD.

Flight 2, Roll S68/1
BANCROFT (west half)
Film Plus X 5401,57 filter
Negative scale 1:176,000
Print scale 1:176,000



Flight 2, Roll S68/2

BANCROFT (East half)
Film, Plus X 5401, Red(25)
filter.

Negative scale 1:176,000
Print scale 1:75,000

RED RECORD

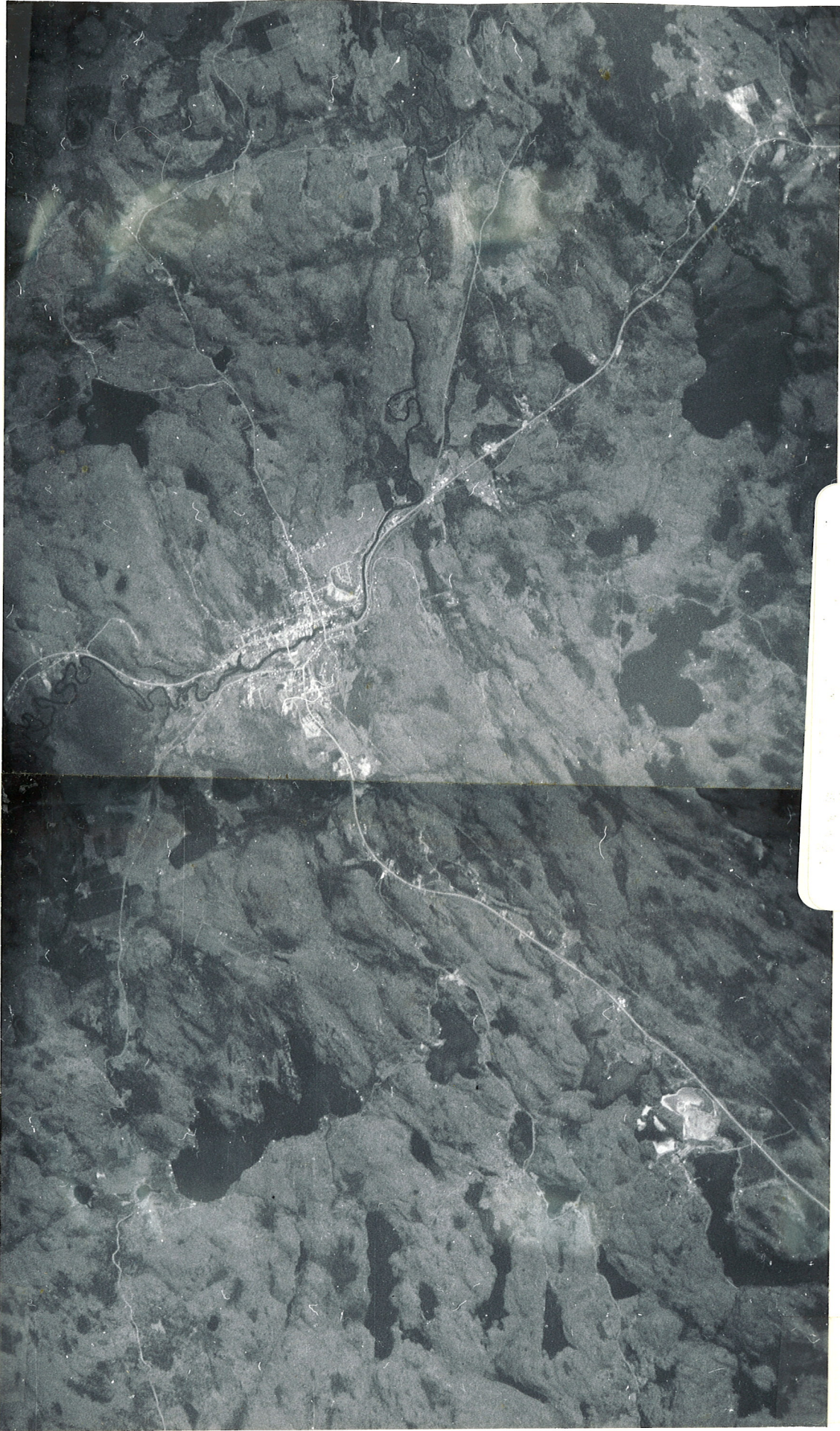


Flight 2, Roll S68/2

BANCROFT (West half
Film Plus X 5401 Red(25)
filter.

Negative scale 1:176,000
Print scale 1:75,000

RED RECORD. >



Flight 2, Roll S68/4

BANCROFT (east half)

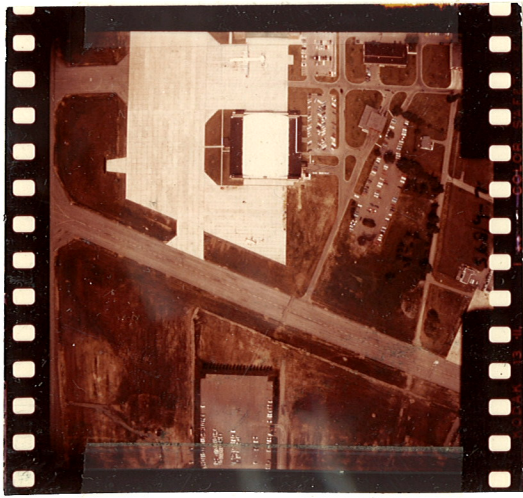
Film Plus X 5401 2a+47
filters
Negative scale 1:176,000
Print scale 1:75,000

BIUE RECORD.



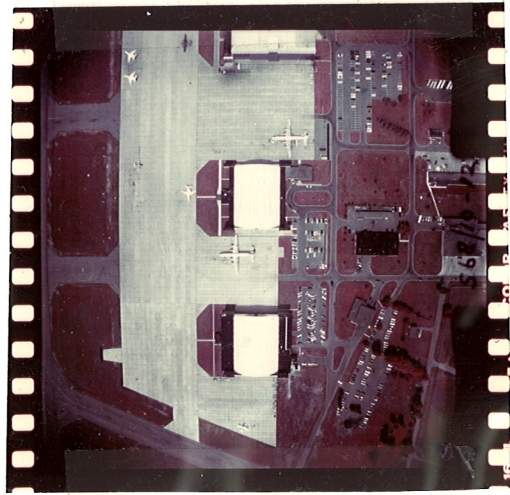
BLUE RECORD.

Flight 2, Roll S68/4
BANCROFT (west half)
Film, Plus X 5401, 2a+47 filters
Negative scale 1: 176,000
Print scale 1: 75,000



Flight 3 Uplands Airport
Low level test run.
Negative and Print scale
1:6,800

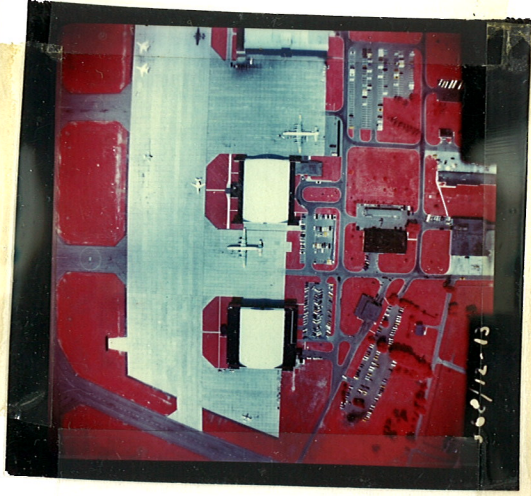
Roll S68/9 Colour 8442
processed Positive



Roll S68/10 Colour-Infrared
8443
processed Positive.



Roll S68/11 Infrared 5424
89b filter.
processed negative.



Roll S68/12 Colour-Infrared
8443
processed Negative.

Samples of Prints from
Flight 3, BANCROFT.
Scale 1: 299,000.

Roll S68/9 Colour 8442

Roll S68/10 Colour-Infrared
8443

Roll S68/11 Infrared 5424

