
Management of beavers
and their habitats
By
Michel Leclair

Présentation de Michel Leclair

- 1976-78 LAVÉRENDRIE PARK ,guide hunting and fishing
- Conservation Officer 1979-86 C.C.N., GATINEAU PARK
- 1996-99 OUTFITTER MIJOCAMA: owner
- 1986-2025 S.O.S. WILDLIFE: consultant, trapping wild animals in urban zones. (Gatineau park, Outaouais and Laurentian).
- 2007-2025 ECO-ODYSSEY: Setting up and operations of tourist attraction


Gatineau River
Gatineau Park
Hull
Ottawa River
Ottawa

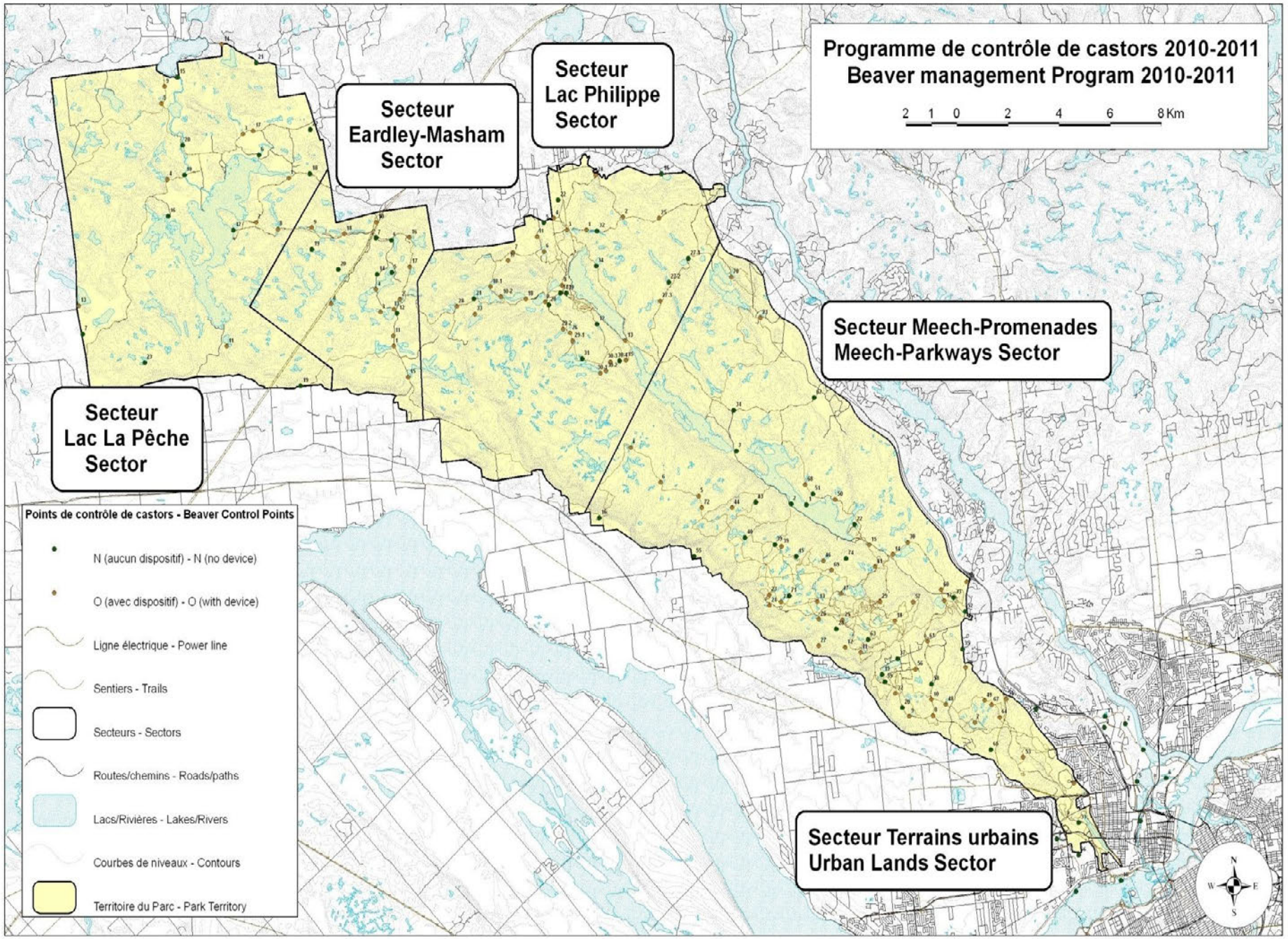
Gatineau Parc

- 15 minutes from the Parliament Hill
- 361 square kilometres
- 2.7 million visiors/year
- 350 kilometres of trails
- 200 kilometres of roads
- 1980: 385 beavers colony, 2024: 288

Gatineau Parc

Beaver control program

- 167 monitoring points
- 97 with control devices
- 164 beaver dams with devices
- 208 water control devices
- 51 tubulars or beaver fences
- 26 diversion dams


Programme de contrôle de castors 2010-2011
Beaver management Program 2010-2011
2 1 0 2 4 6 8 Km
Secteur Eardley-Masham Sector
Secteur Lac Philippe Sector
Secteur Meech-Promenades Meech-Parkways Sector
Secteur Lac La Pêche Sector
Secteur Terrains urbains Urban Lands Sector
Points de contrôle de castors - Beaver Control Points
N (aucun dispositif) - N (no device)
O (avec dispositif) - O (with device)
Ligne électrique - Power line
Sentiers - Trails
Secteurs - Sectors
Routes/chemins - Roads/paths
Lacs/Rivières - Lakes/Rivers
Courbes de niveaux - Contours
Territoire du Parc - Park Territory
N
W
E
S

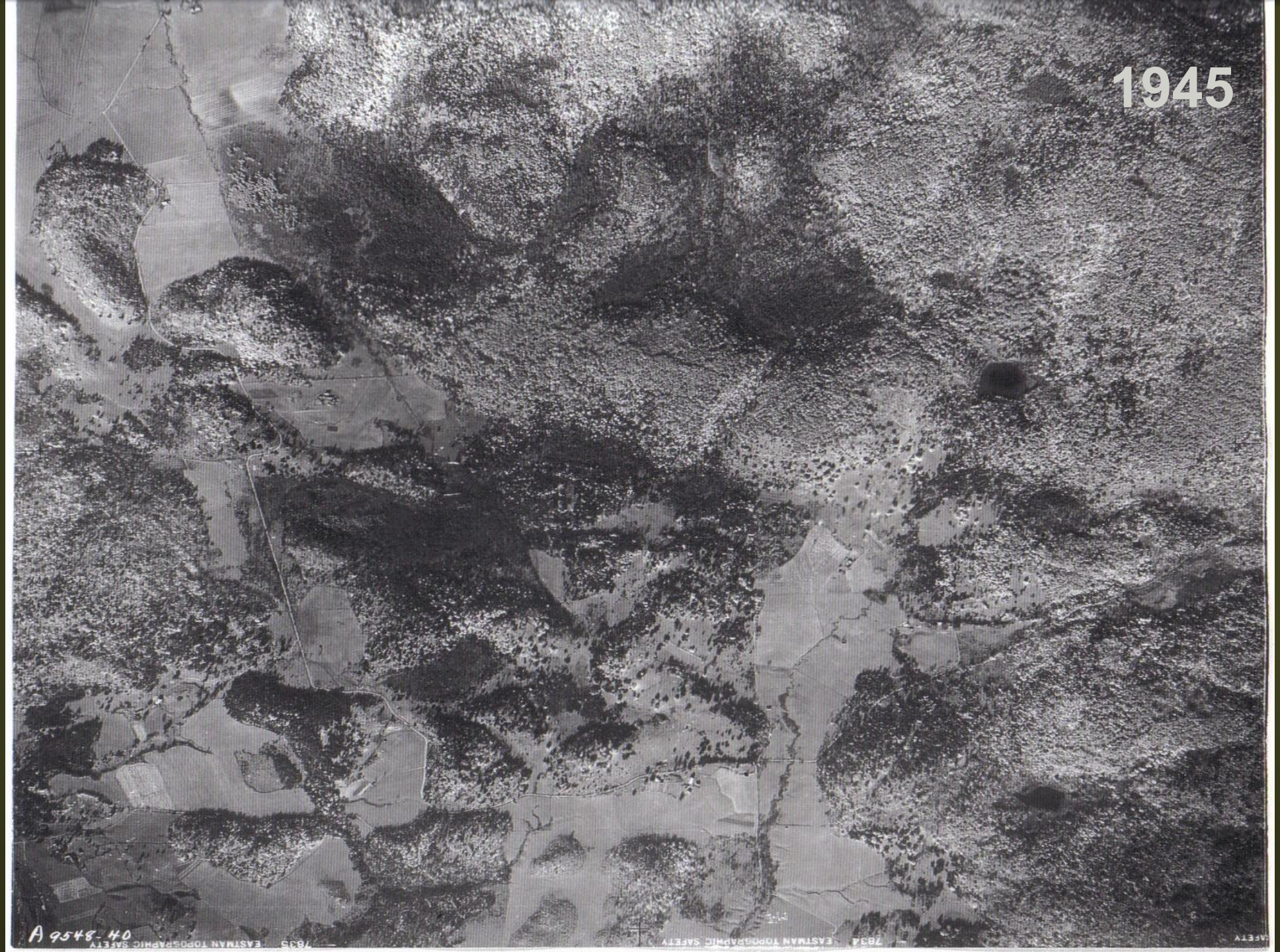
- From the beginning of the colony fur trade was an economic appeal
- 1700-1800 the century fur
- In 1750 an estimated 2 million beavers were already killed
- Up to 200,000 beaver pelts for a good year
- A large beaver skin can make 18 hats

L’arrivée des européens: la traite des fourrures

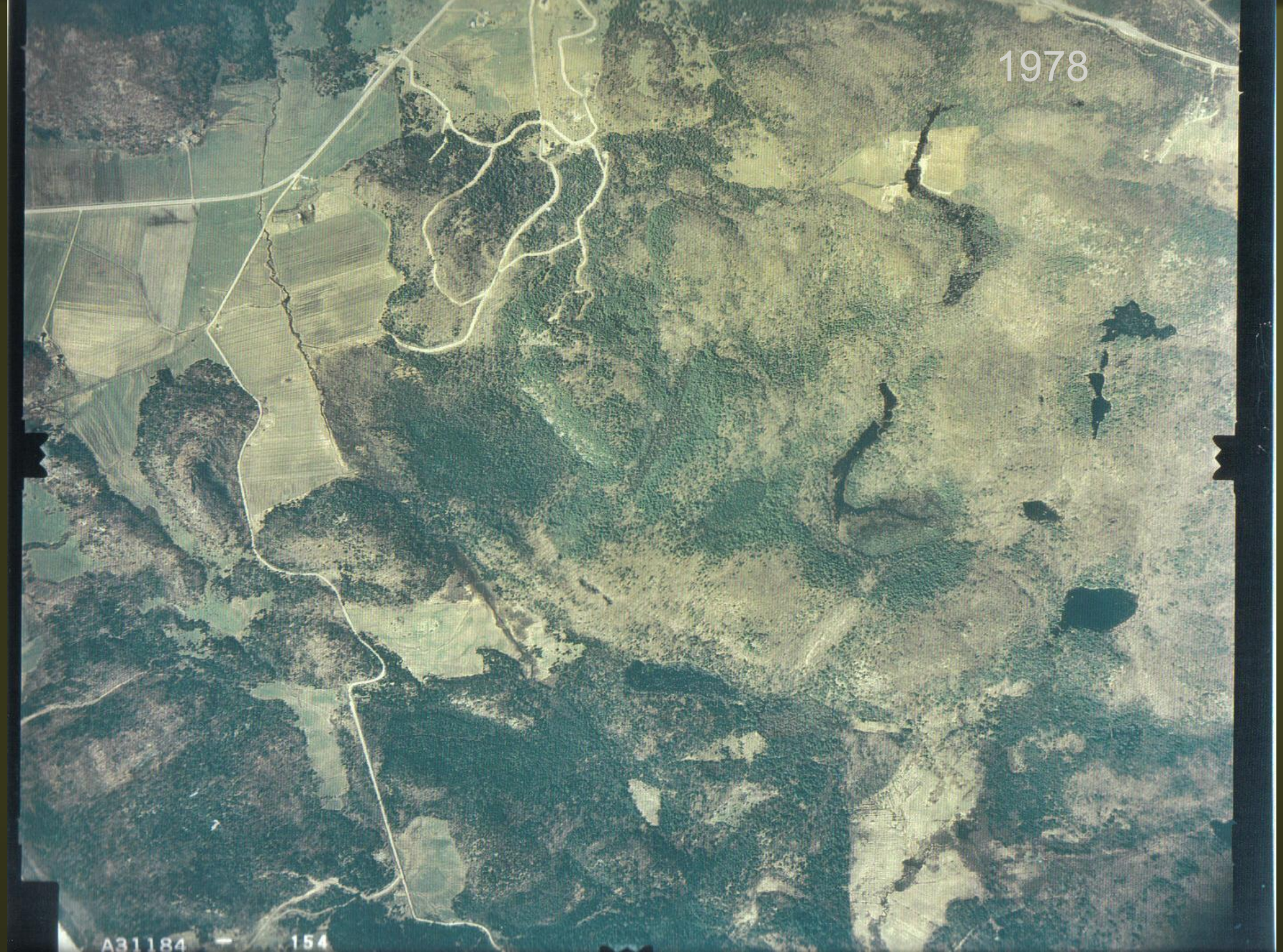
Beaver decline and almost disappearance

- Beaver disappearance in many regions of the United States and Canada
- 1934, Quebec passed a law to protect the beaver for 10 years
- Fluctuations in the price of beaver skin:
- - 1917 = 12 $ (156 $)
- - 1928 = $ 30 (329 $)
- - 1932 = 13 $ (172 $)
- - 1945 = 52 $ (567 $)
- - 2000 = $ 30 (Federation of Quebec Trappers)
- - 2025 = 50 $ (North Bay auction)

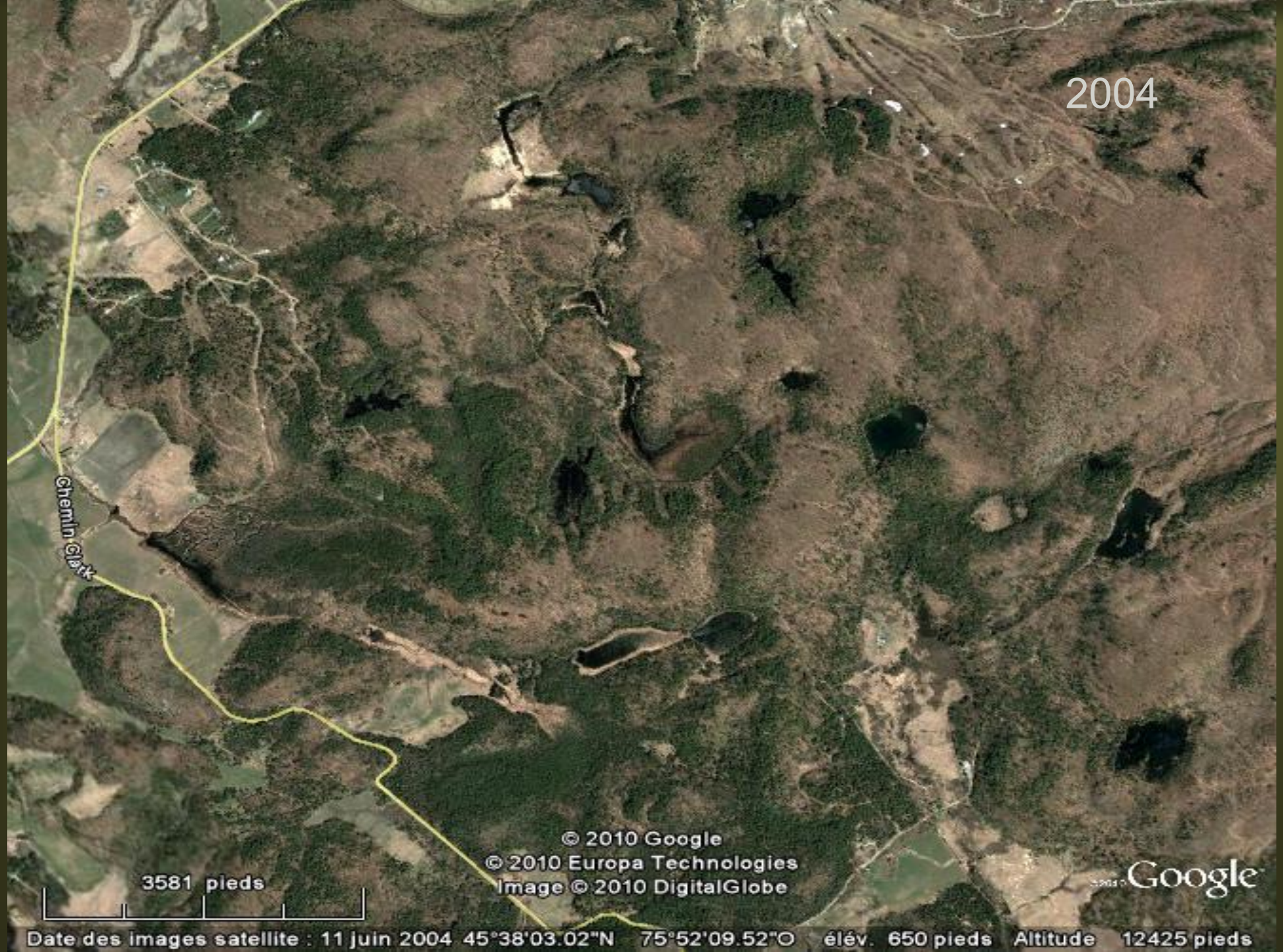
1975 le castor devient l’emblème du Canada

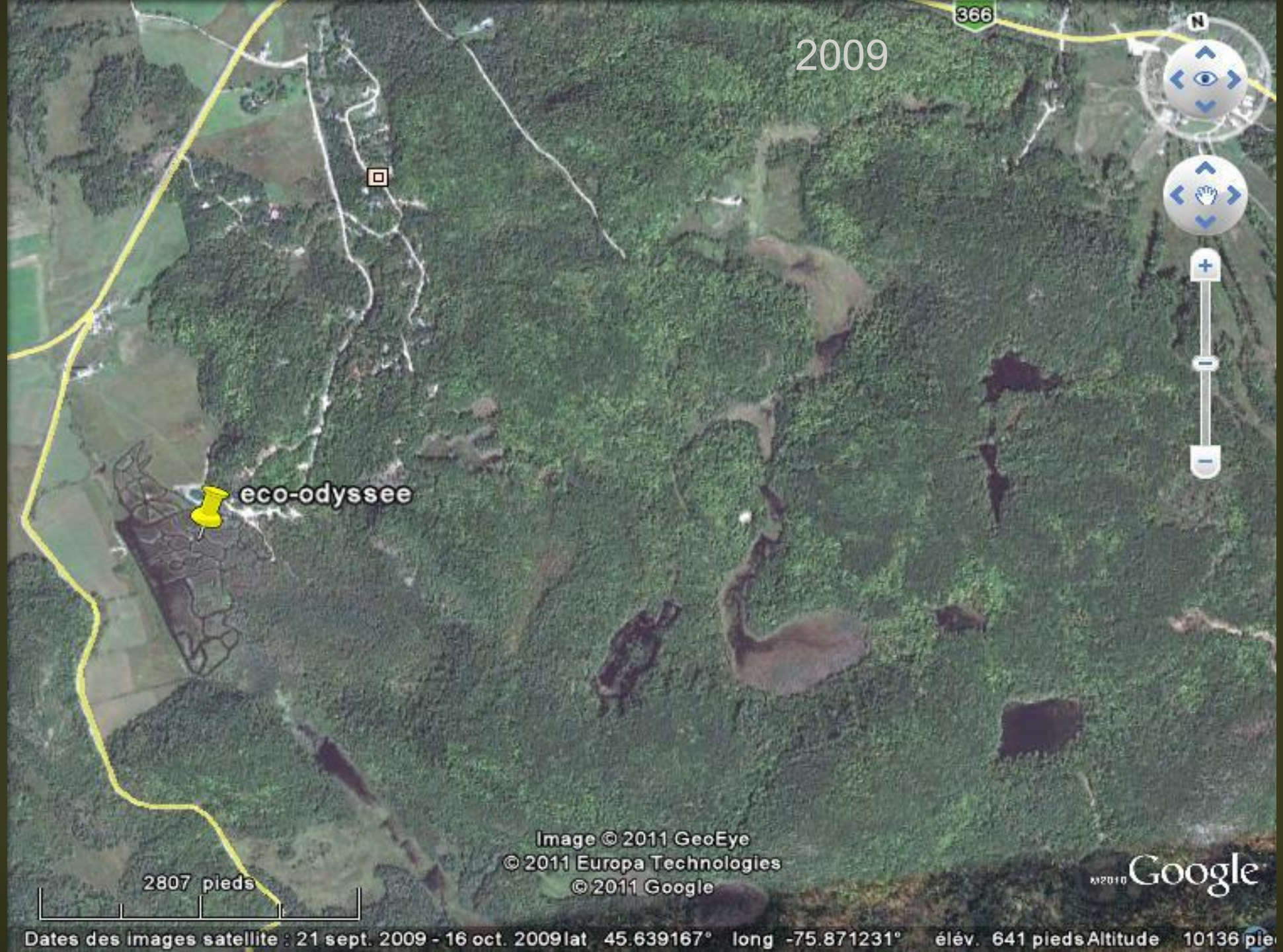

1945
A 9548-40
EASTMAN TOPOGRAPHIC SAFETY


1969
A30187-100


1978
A31184 — 154


1983


2004
Chemin Clark
© 2010 Google
© 2010 Europa Technologies
Image © 2010 DigitalGlobe
3581 pieds
Google
Date des images satellite : 11 juin 2004 45°38'03.02"N 75°52'09.52"O élév. 650 pieds Altitude 12425 pieds


2009
366
N
eco-odyssee
Image © 2011 GeoEye
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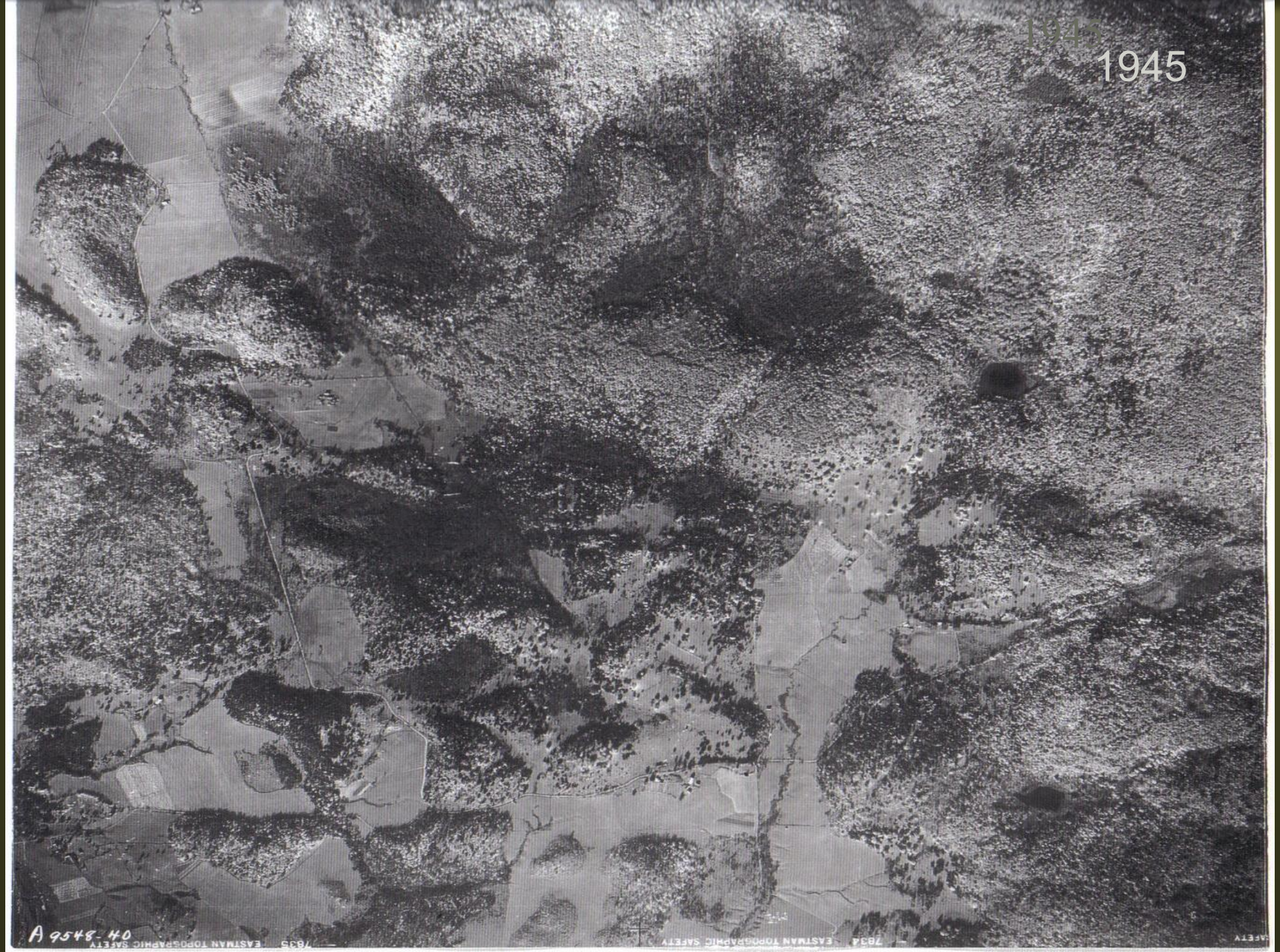
2807 pieds
Google
Dates des images satellite : 21 sept. 2009 - 16 oct. 2009 lat 45.639167° long -75.871231° élév. 641 pieds Altitude 10136 pie


1945
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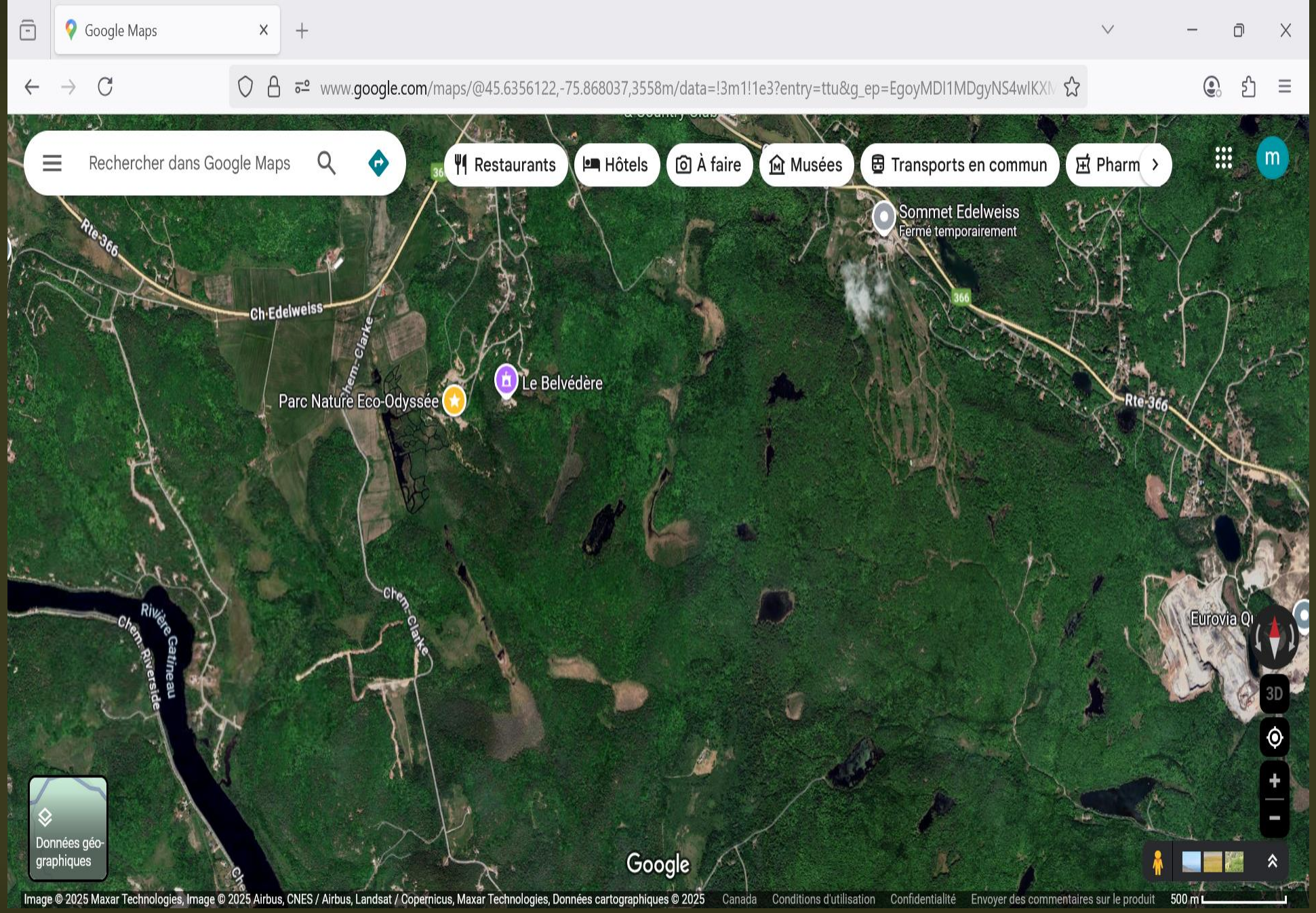
EASTMAN TOPOGRAPHIC SAFETY
7834 EASTMAN TOPOGRAPHIC SAFETY


Google Maps
www.google.com/maps/@45.6356122,-75.868037,3558m/data=!3m1!1e3?entry=ttu&g_ep=EgoyMDI1MDgyNS4wIKXM
Rechercher dans Google Maps
Restaurants
Hôtels
À faire
Musées
Transports en commun
Pharm
Sommet Edelweiss
Fermé temporairement
Rte-366
Ch-Edelweiss
Chem-Clarke
Le Belvédère
Parc Nature Eco-Odyssée
Rivière Gatineau
Chem-Riverside
Eurovia Qu
3D
Données géographiques
Google
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Canada
Conditions d'utilisation
Confidentialité
Envoyer des commentaires sur le produit
500 m

The damages

HABITAT

- Cyclique 90%
- Permanent 10%


Habitats


2003 10 28

Dams Construction: behavior, and palpation


2003 5 26


2003 5 26


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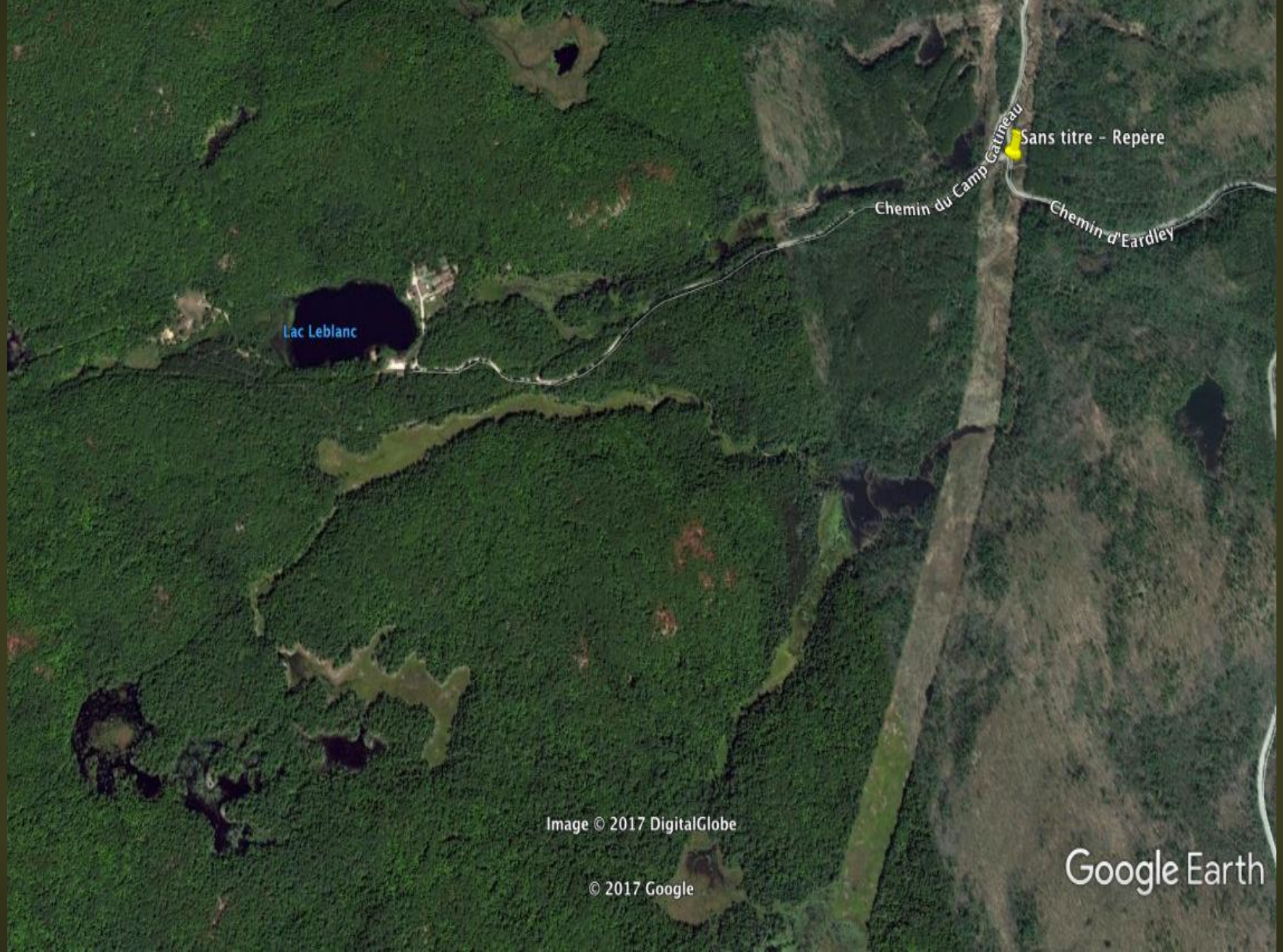
Google


Sans titre - Repère
Chemin du Camp-Gatineau
Chemin d'Eardley
Lac Leblanc
Image © 2017 DigitalGlobe
© 2017 Google
Google Earth

Synthesis biology, habitats and dames

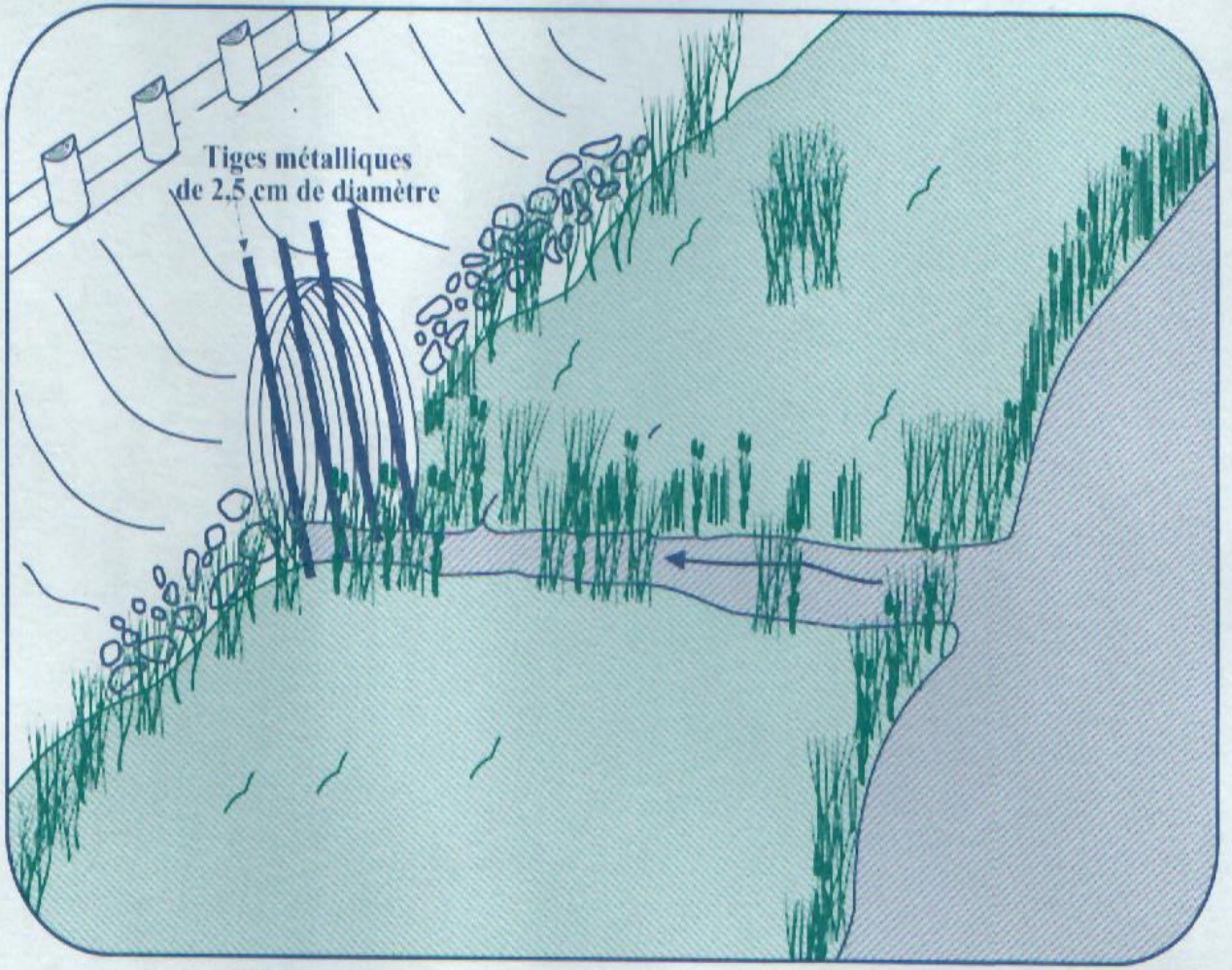
- The beaver is a large rodent responsible for creating numerous wetlands
- It creates a habitat for him and several other species
- Its habitat is characterized by dams and huts
- His behavior to build a dam is dictated by sound and water palpation

Problems interventions and solution

Problems, interventions and installations visible problems: culvert


2003 6 9

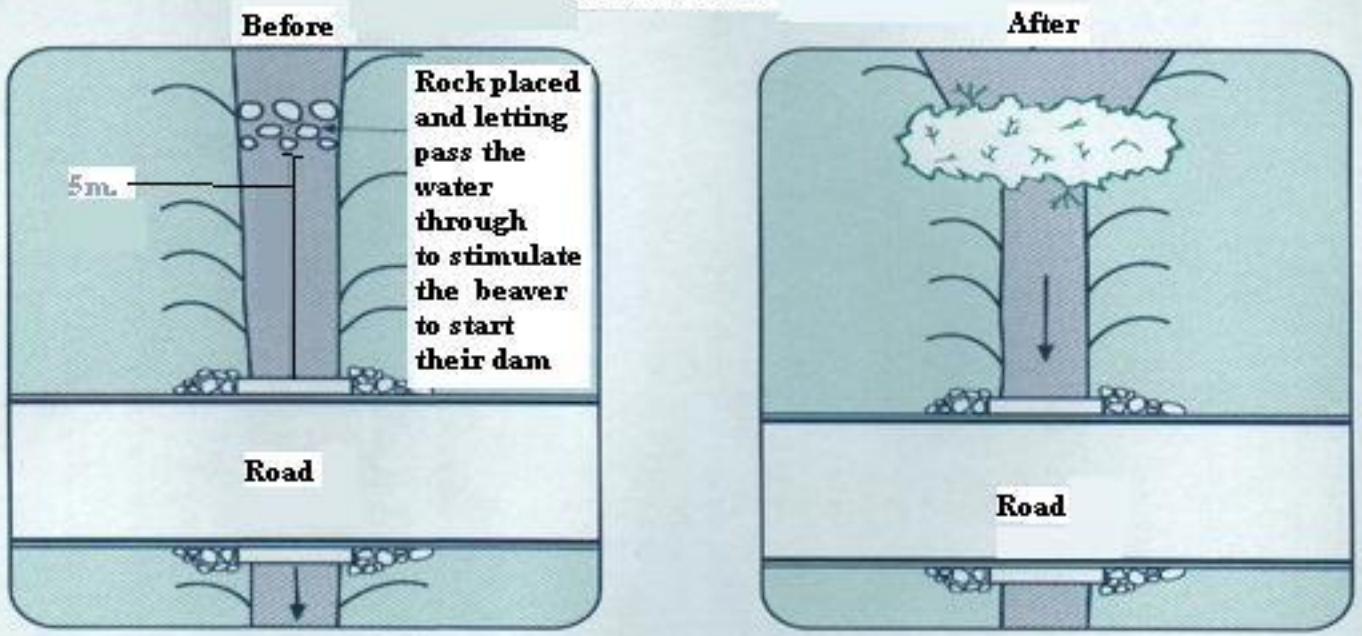
Can we prevent culvert obstructions?



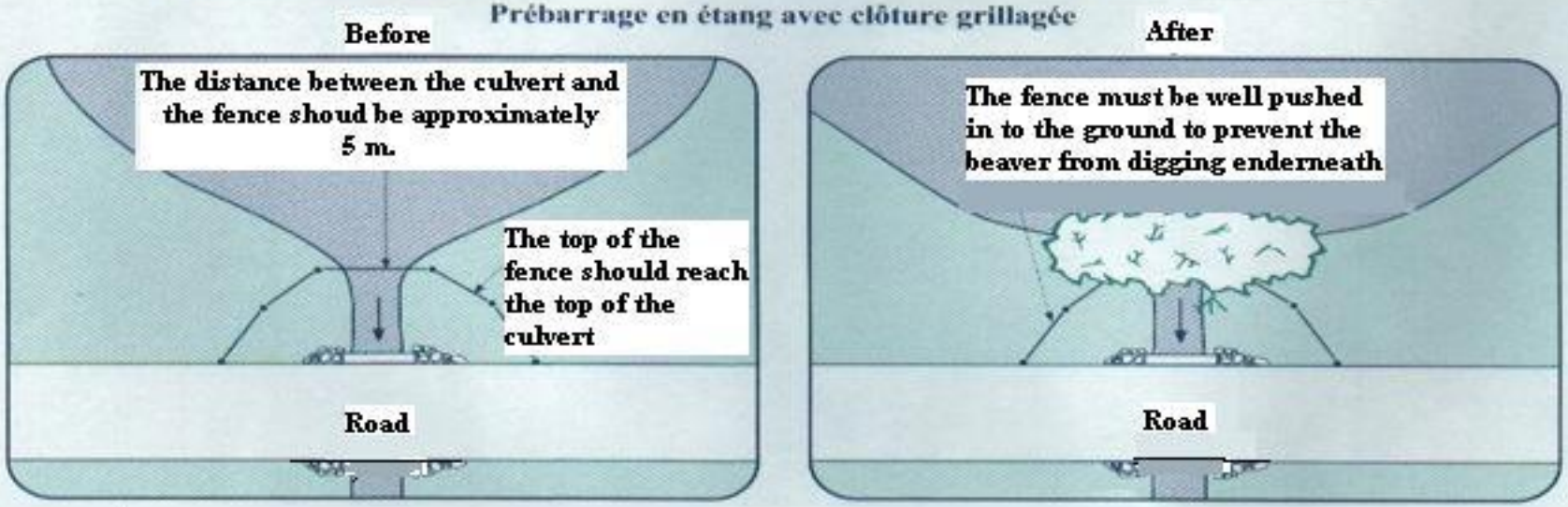
Matériaux requis	Coût	Installation	Entretien	Efficacité	Durabilité
	$			☆☆	


2003 10 28

Diversion dam



Prébarrage en étang avec clôture grillagée



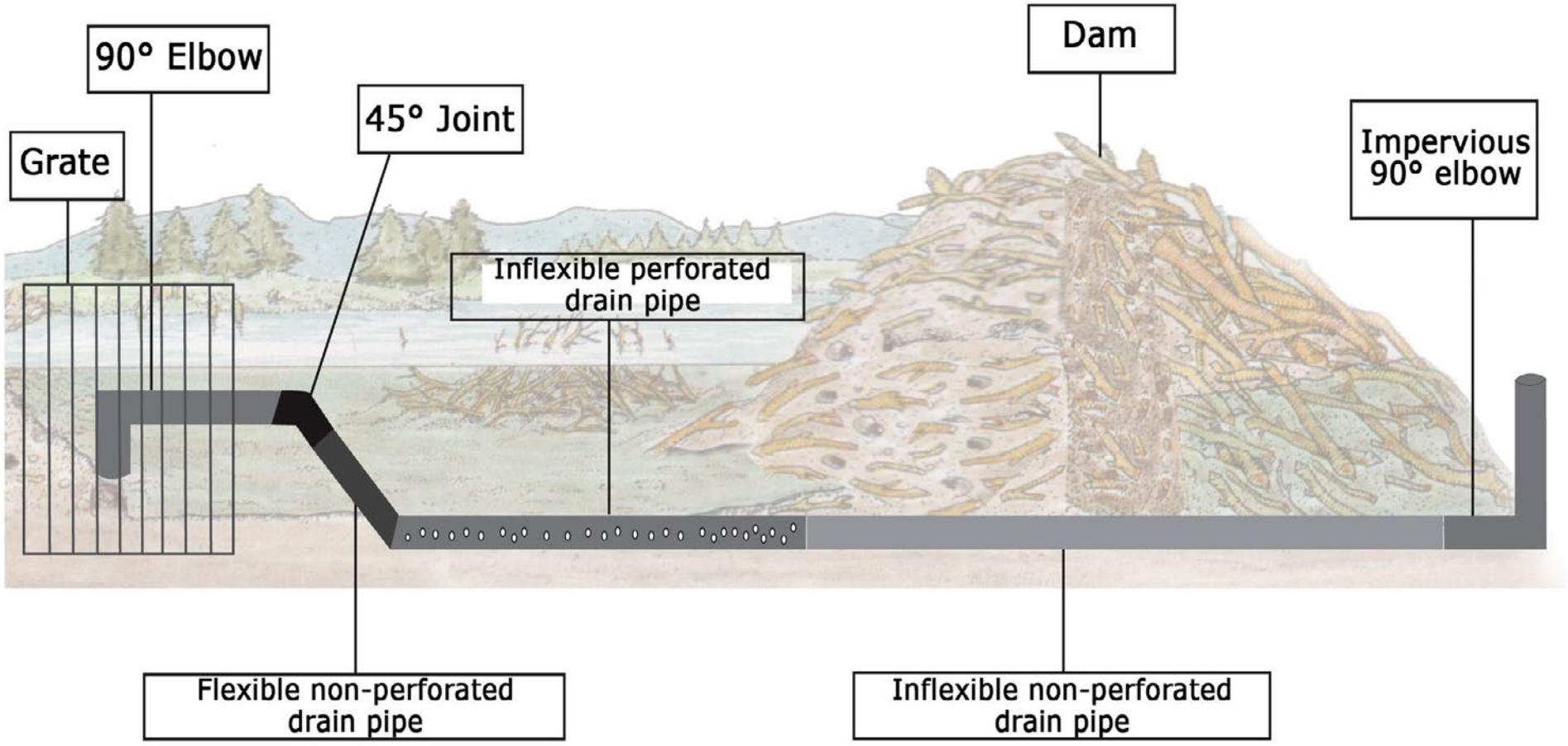
ASSESSMENT SITE


CAT
BEI

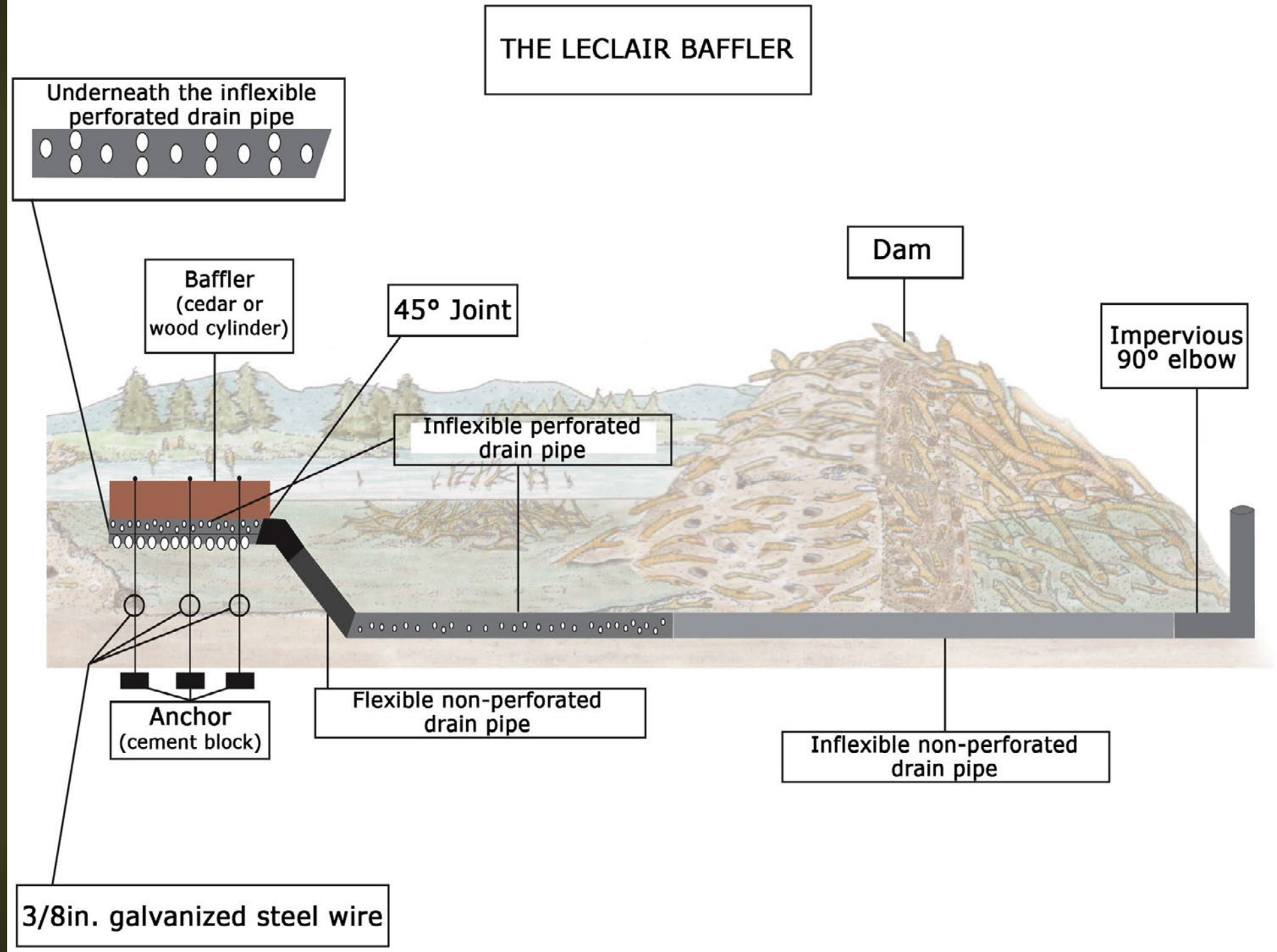
Can we control the water level In a beaver pond?

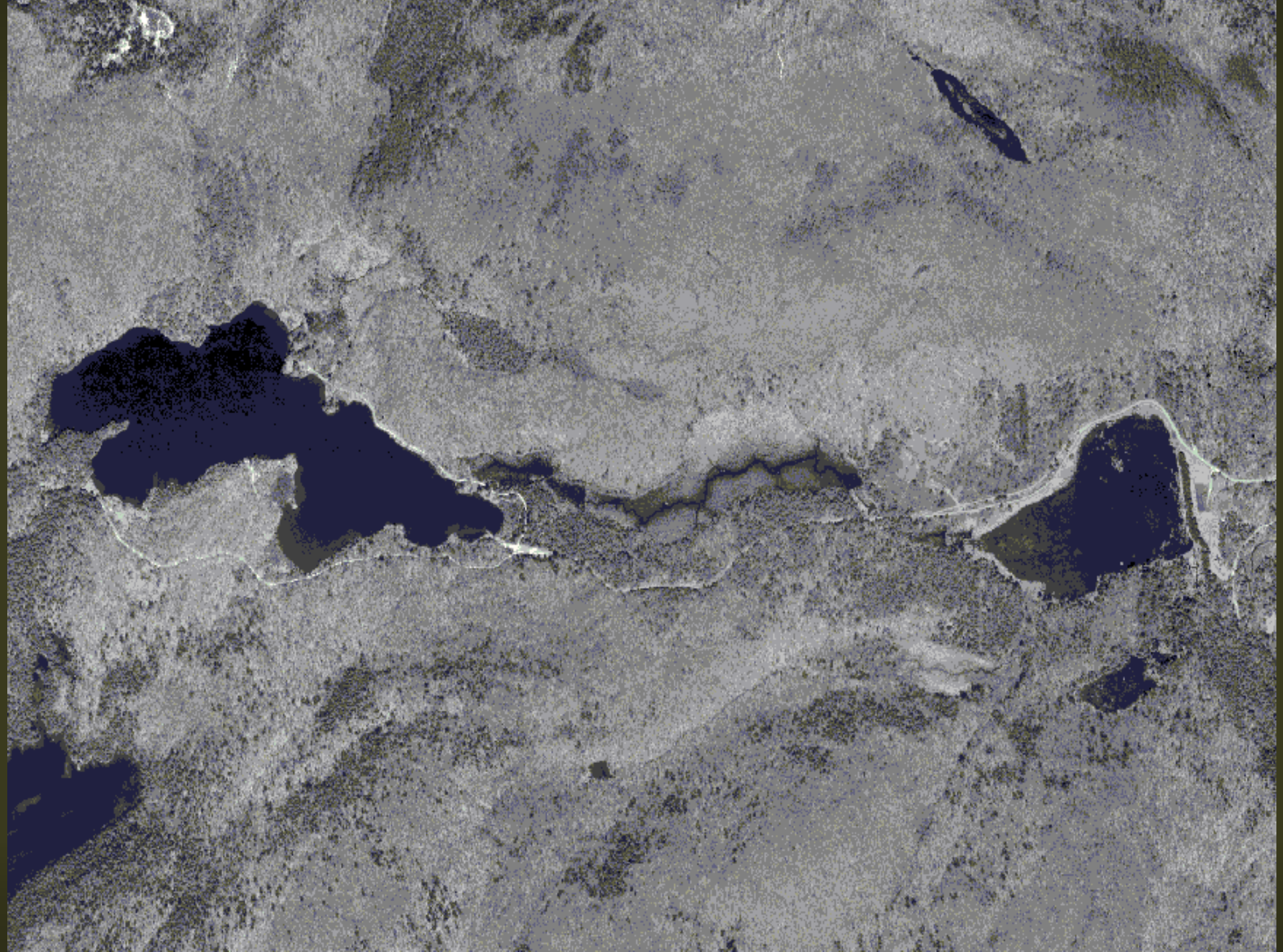

2003 6 13

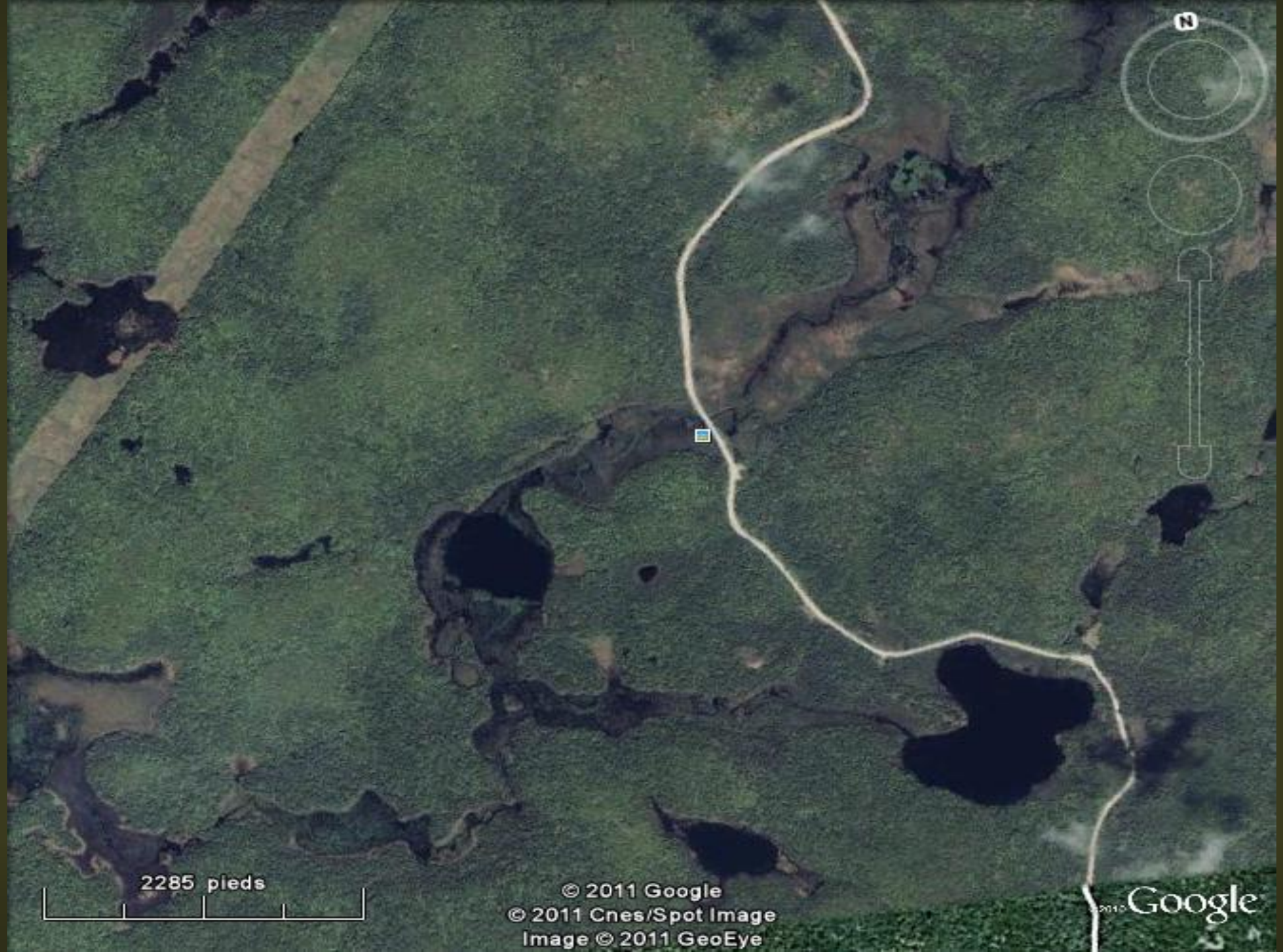
THE LECLAIR TRIANGLE



THE LECLAIR BAFFLER






N
2285 pieds
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Planning for a new territory

- Legal dispositions
- Steps to develop a territory
- Reaction problem
- Depredation
- Inspection and site assessment
- Summary of the required services

Short term

- **Inventory of sites problems in the area (current and historical);**
- **Identify approaches and specific solutions for the sites;**
- **Estimate costs of materials and labor to do the work;**
- **Establish a framework for implementation of point solutions to solve problems;**
- **Training of staff concerned to develop the territory**
- **this is the only approach that is sustainable in the short, medium and long term.**

Medium term

- **Evaluate the whole territory for sites that pose a potential risk to citizens and human infrastructure:; (eg new beaver activities, old unmaintained dam could collapse at increased rainfall.)**
- **Identify approaches and specific solutions for identified sites;**
- **Estimate costs of materials and labor to do the work;**
- **Establish a framework for implementation of point solutions to solve problems;**

Long-term

- Assess the dynamics of beaver populations in the territory concerned;
- Develop a beaver management plan for the entire country that seeks population stabilization.