

# Harrop-Procter's approach to setting an AAC

BCCFA conference  
June 2015



# Outline

- Community process
- AAC netdowns
- Scenarios



# Community process

- Process tied to new Management Plan
- 18 month iterative process of landbase/ AAC analysis and board/ community discussions
- Three public meetings over 12 months
- In-depth board discussion of scenarios and options





# Management Plan / AAC mandate

- Low risk approach to water
- Riparian and headwaters protection
- Protect ecologically sensitive and rare sites
- Old growth reserves and recruitment
- Protect key wildlife habitat
- Maintain visual quality
- Realistic assessment of economic operability
- Incorporate partial cutting approach



Community Forest Agreement K18  
Timber Supply Analysis - August 2012  
Interim Map  
Medium to Base Case Timber Harvesting Landbase

Areas Wholly Reserved from Timber Harvesting Landbase

- Overlap of woodland and woodland adjacent
- The Glen woodland from TSM mapping
- Riparian Forest Areas with potential for water quality improvement
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Areas Partially Reserved from Timber Harvesting Landbase

- Areas with Forest Quality Class 1 from Forest Quality Measurements
- Riparian Forest Areas

Potential Timber Harvesting Landbase

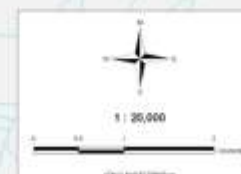
- Potential Timber Harvesting Landbase

Water Features

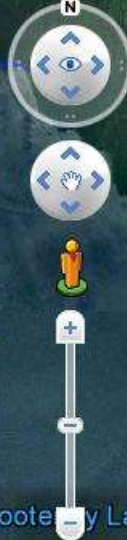
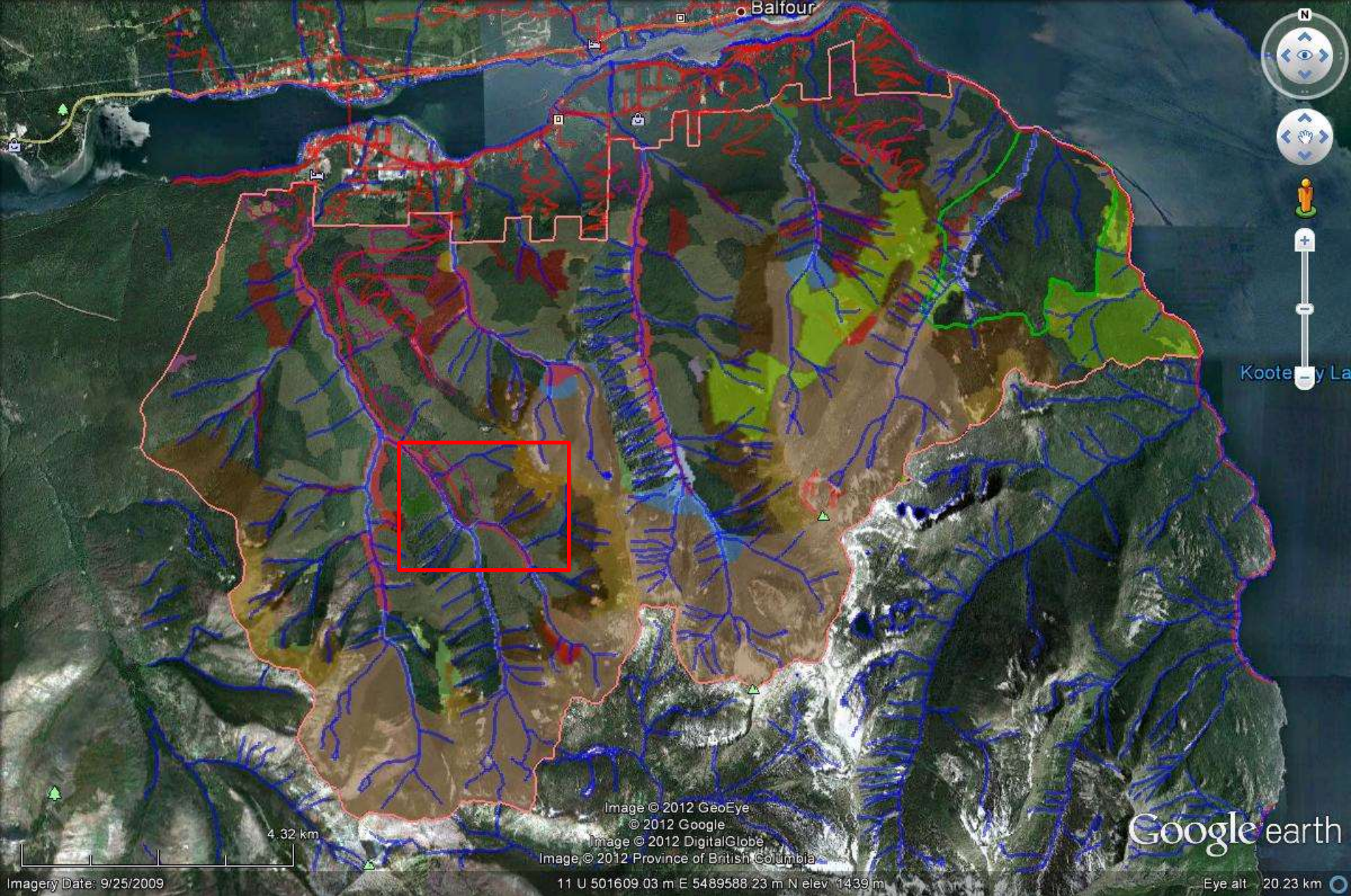
- Lake or Pond
- Stream
- Watercourse

Transportation

- Road
- Rail Road
- Rough Road
- Footpath







Kootenay La

Google earth

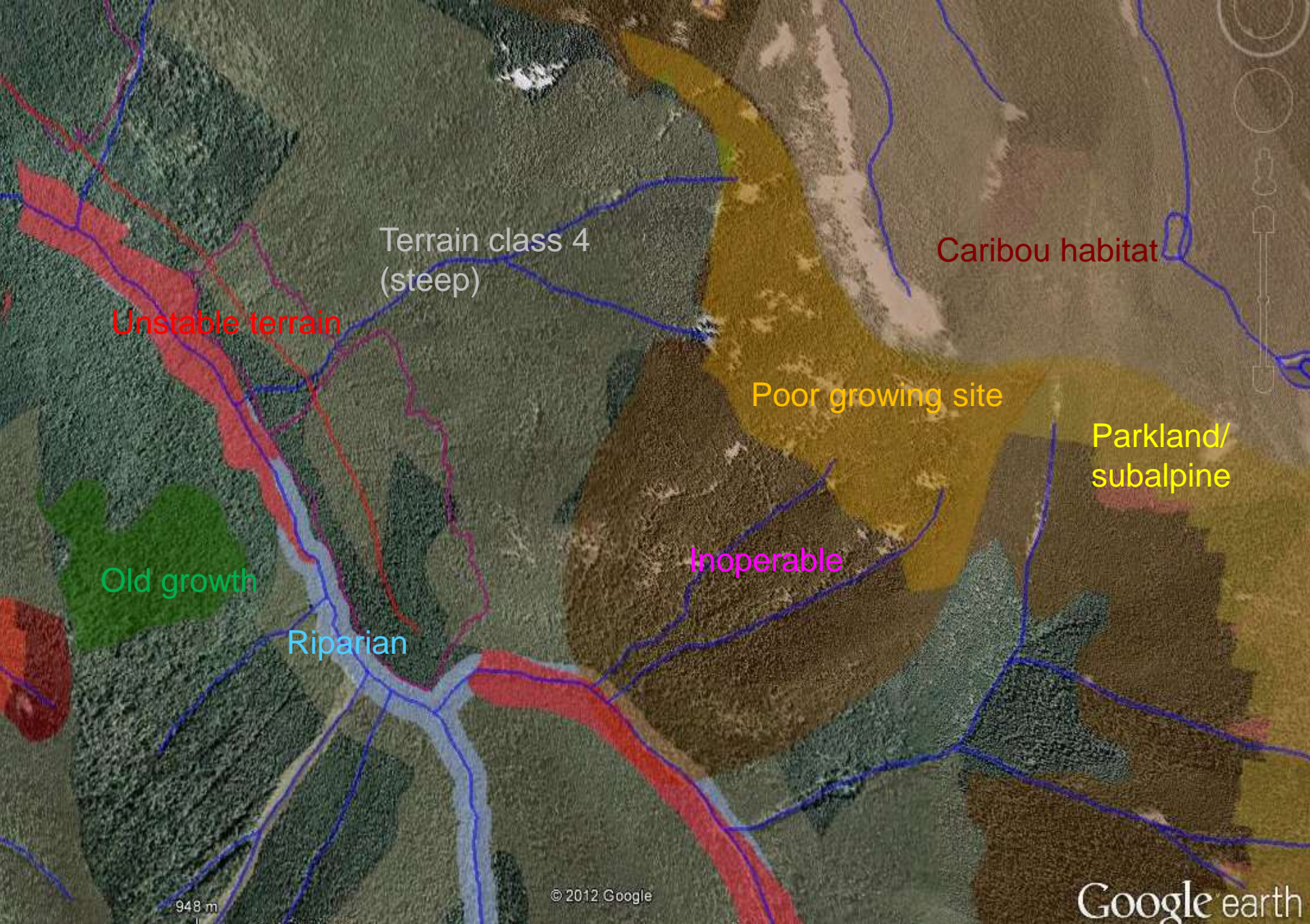
Image © 2012 GeoEye  
© 2012 Google  
Image © 2012 DigitalGlobe  
Image © 2012 Province of British Columbia  
11 U 501609 03 m E 5489588 23 m N elev 1439 m

4.32 km

Imagery Date: 9/25/2009

Eye alt 20.23 km





Terrain class 4  
(steep)

Caribou habitat

Unstable terrain

Poor growing site

Parkland/  
subalpine

Old growth

Inoperable

Riparian

948 m

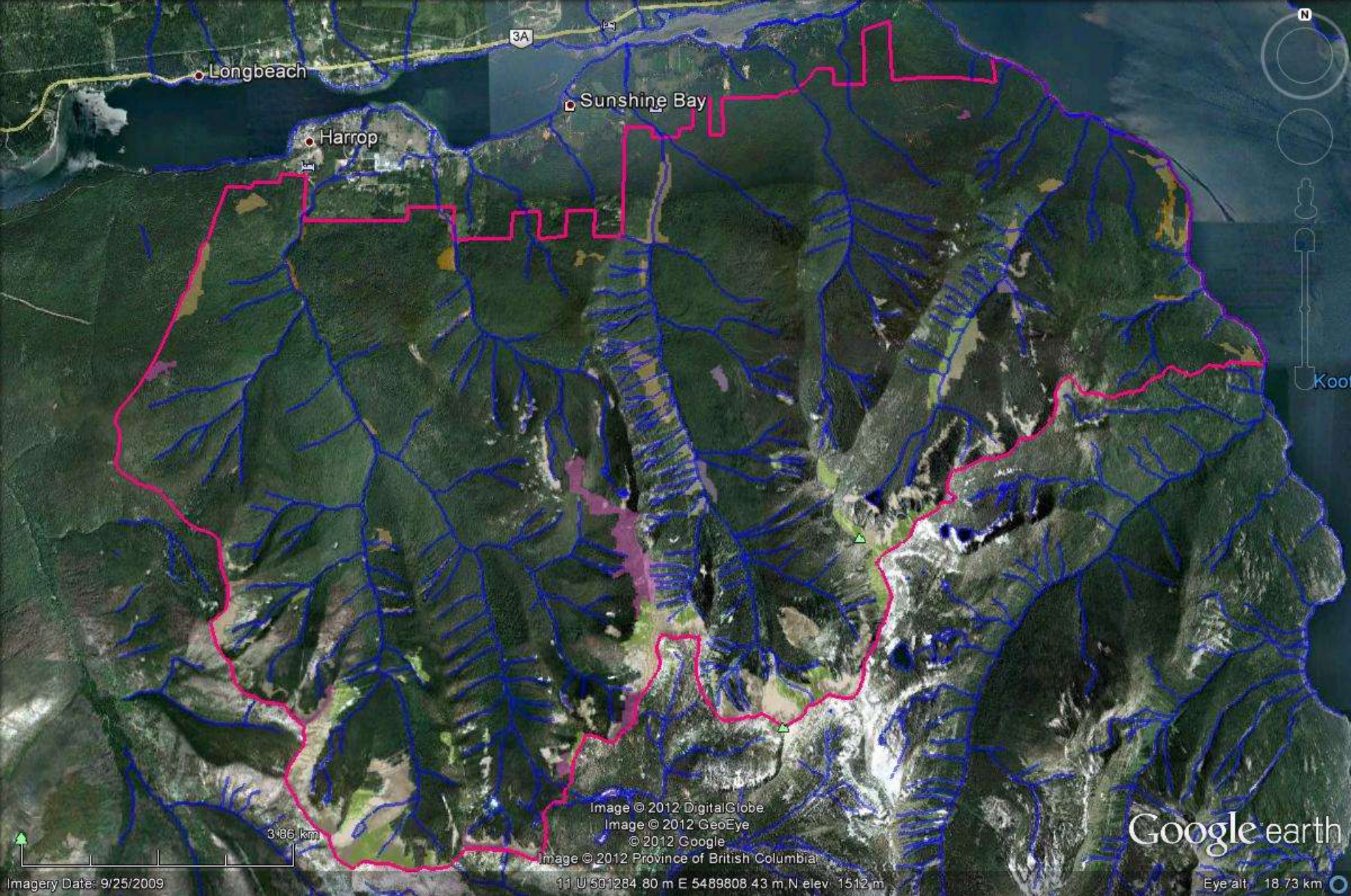
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Google earth

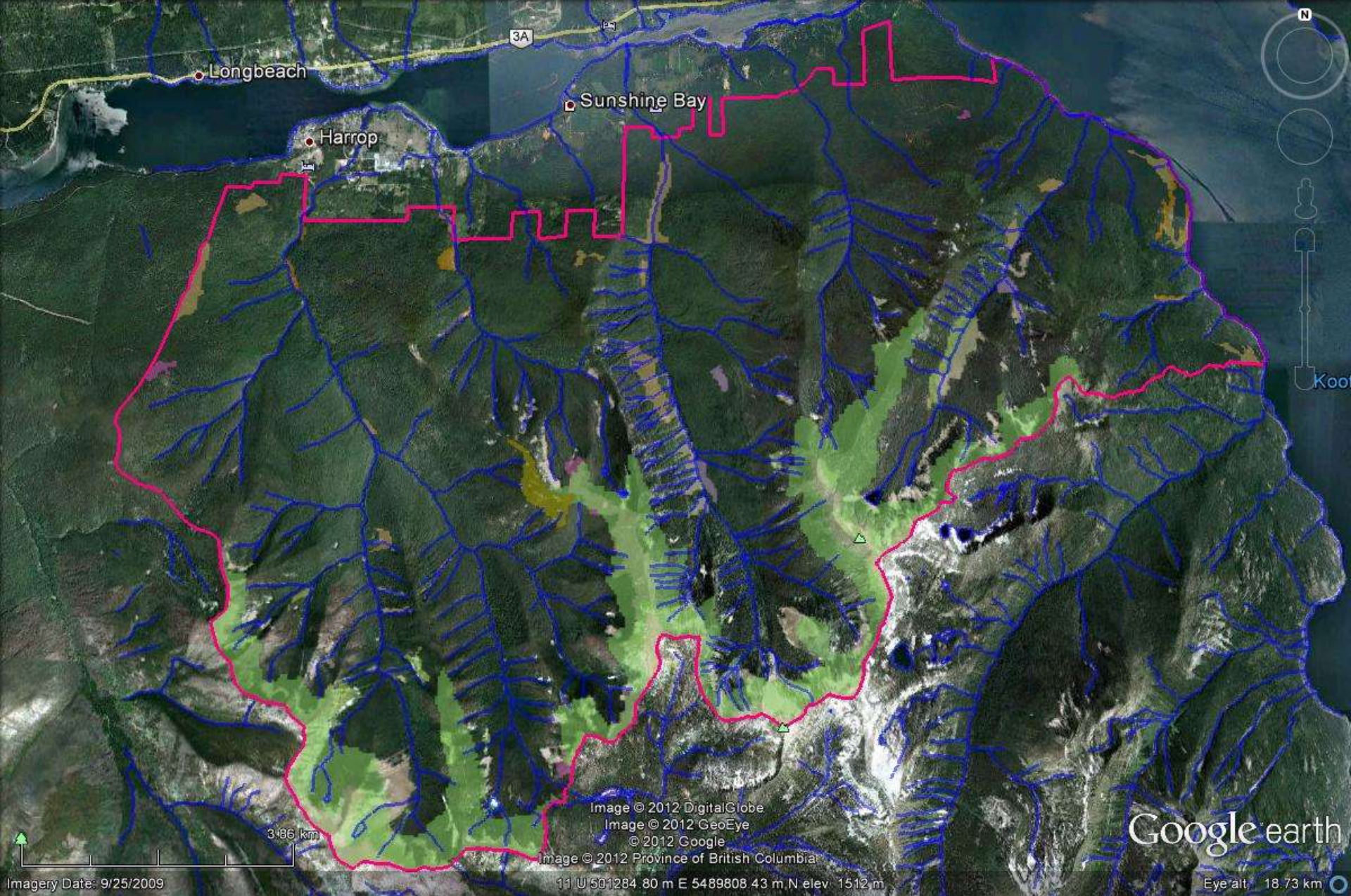




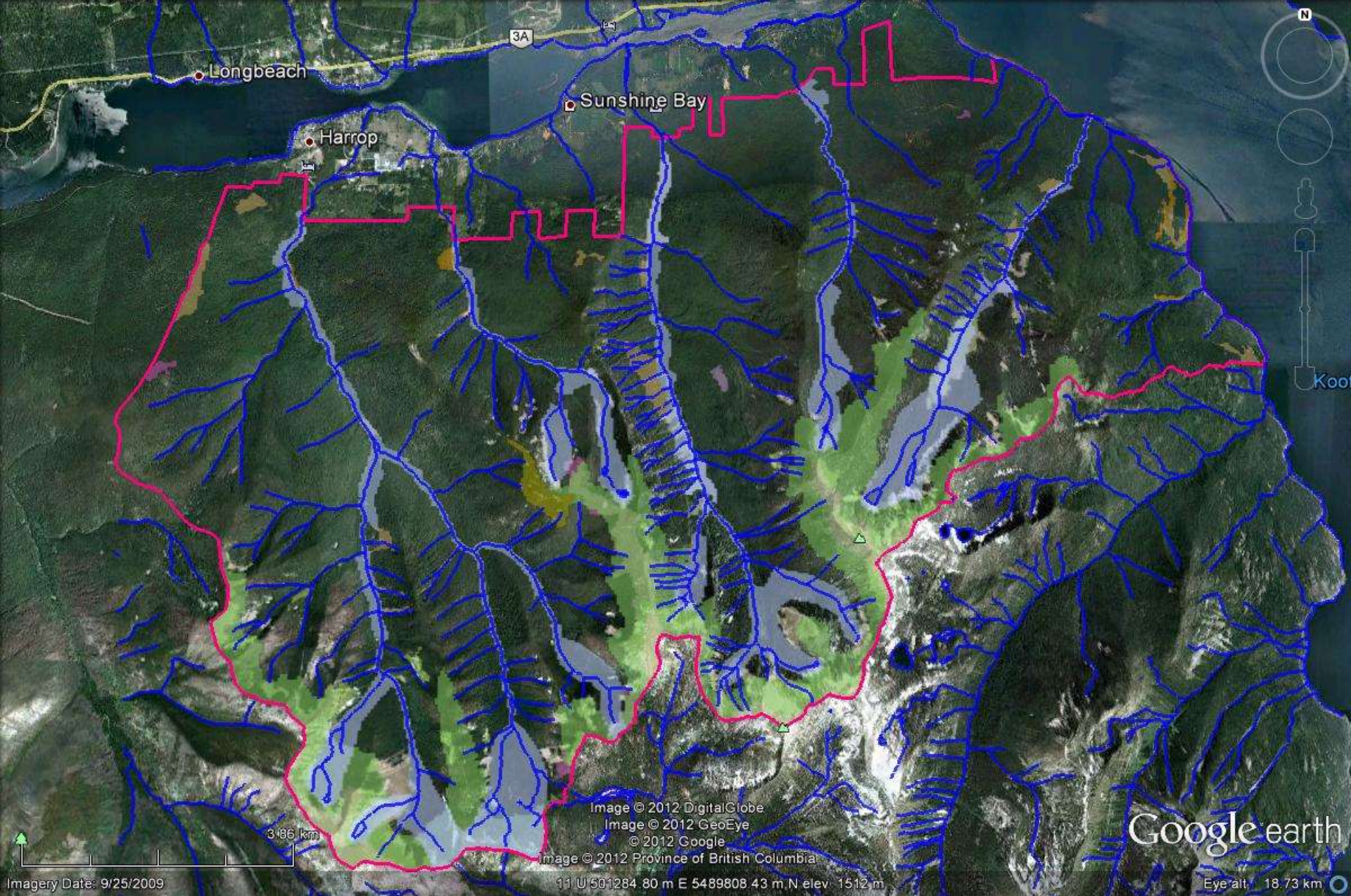












Longbeach

Harrop

Sunshine Bay

Kootenai

3.96 km

Image © 2012 DigitalGlobe

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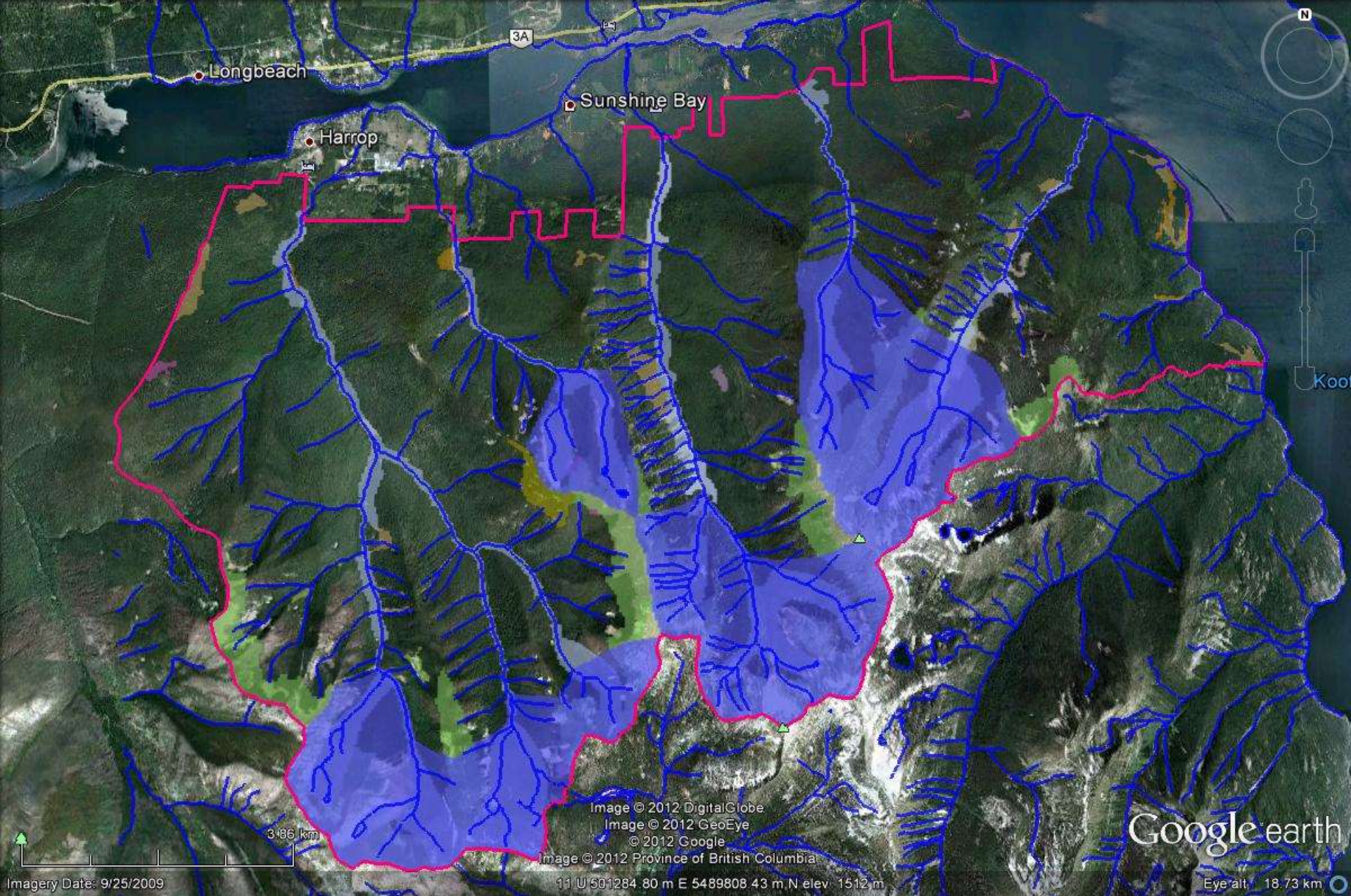
11 U 501284 80 m E 5489808 43 m N elev. 1512 m

Google earth

Eye alt. 18.73 km

Imagery Date: 9/25/2009





Longbeach

Harrop

Sunshine Bay

Kootenai

3.96 km

Image © 2012 DigitalGlobe

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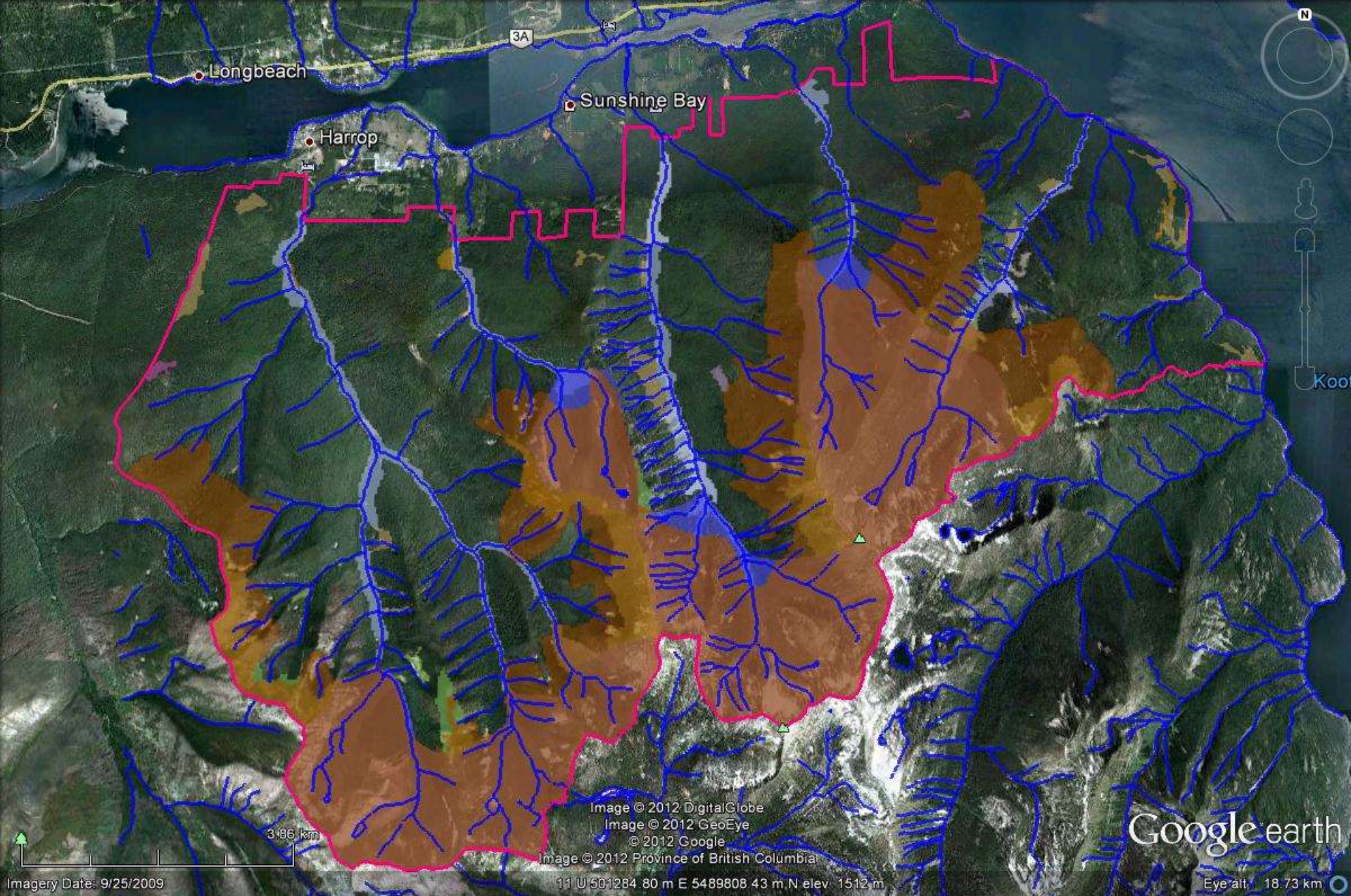
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Google earth

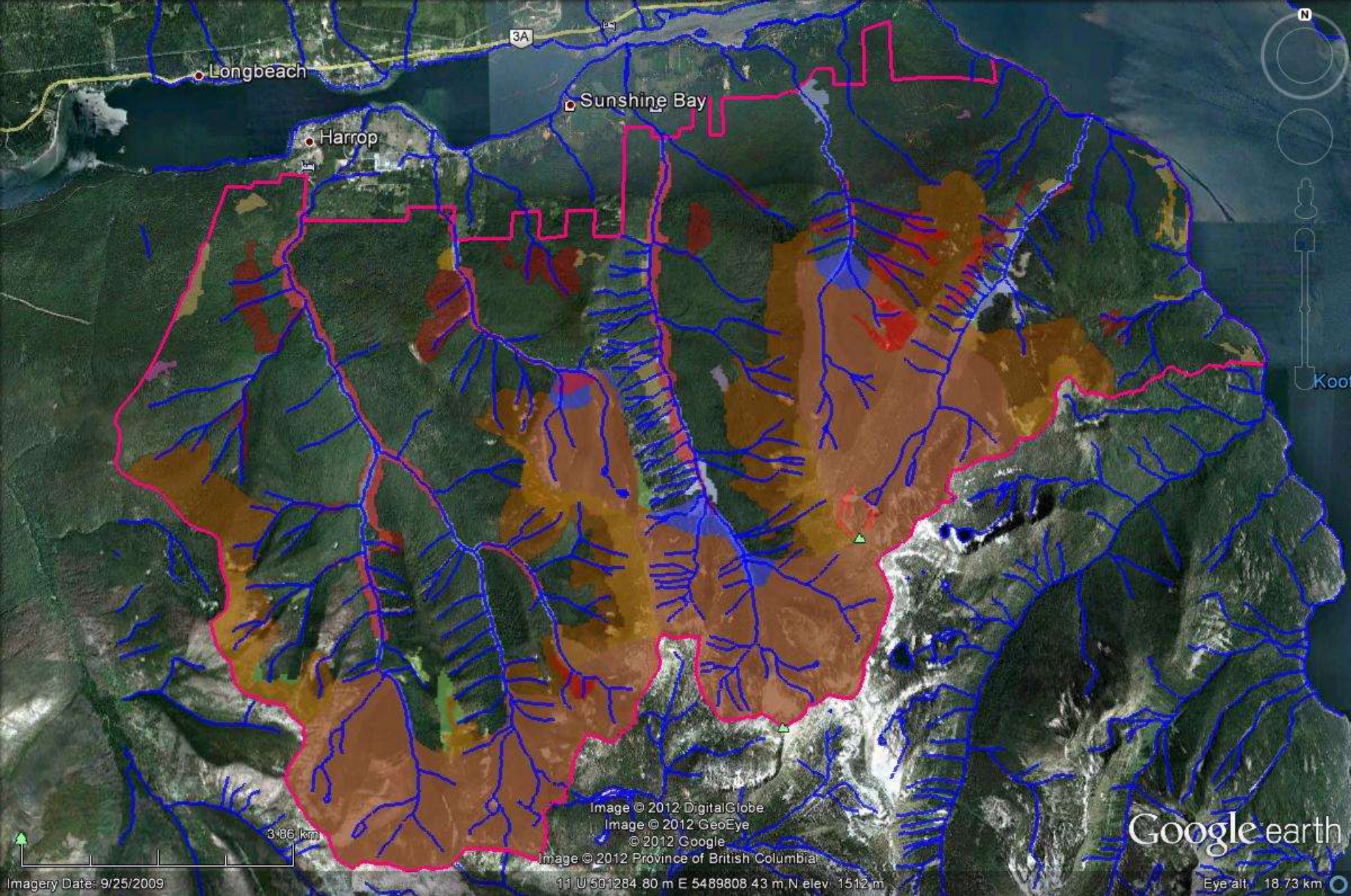
Eye alt. 18.73 km

Imagery Date: 9/25/2009

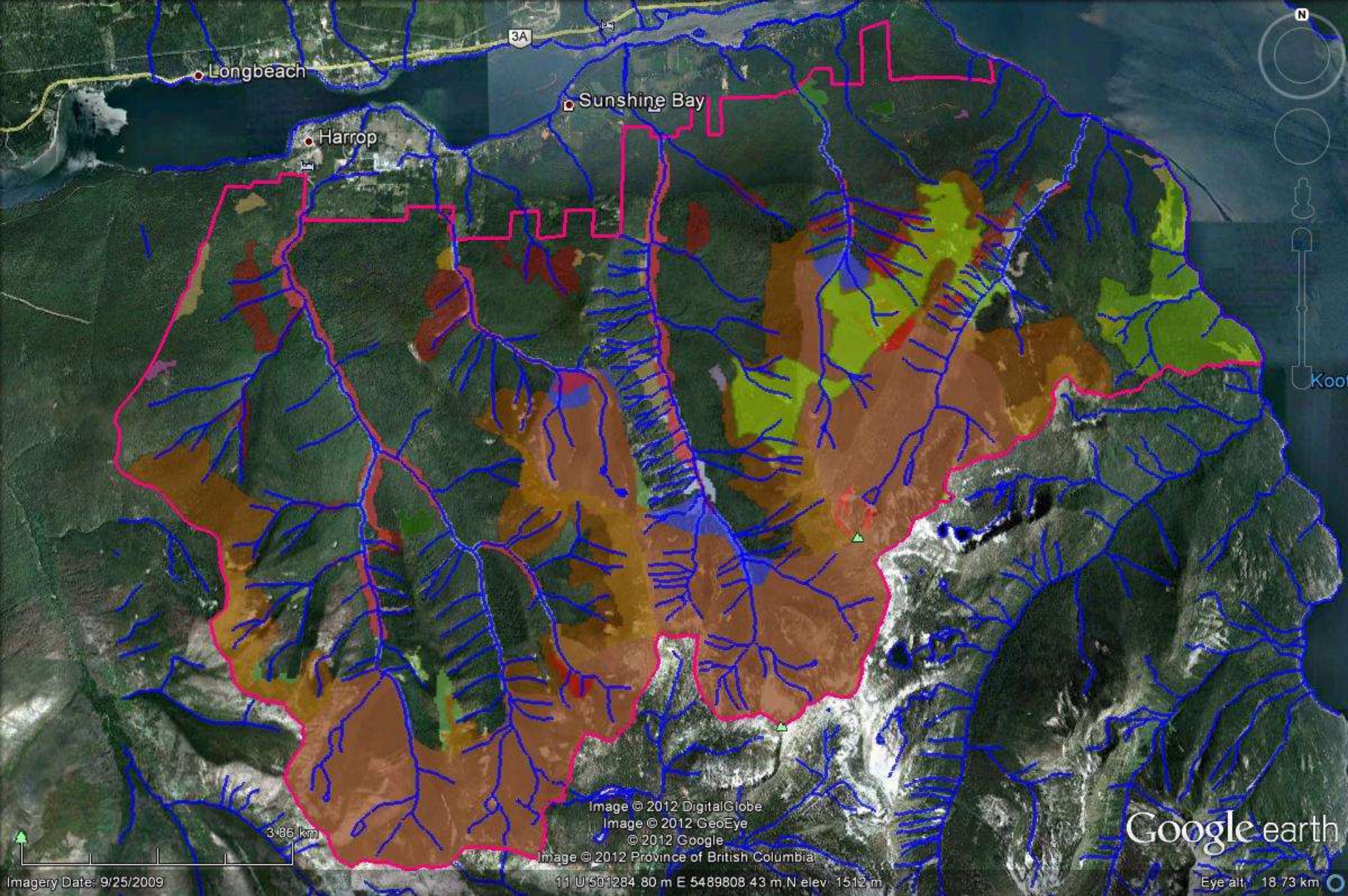




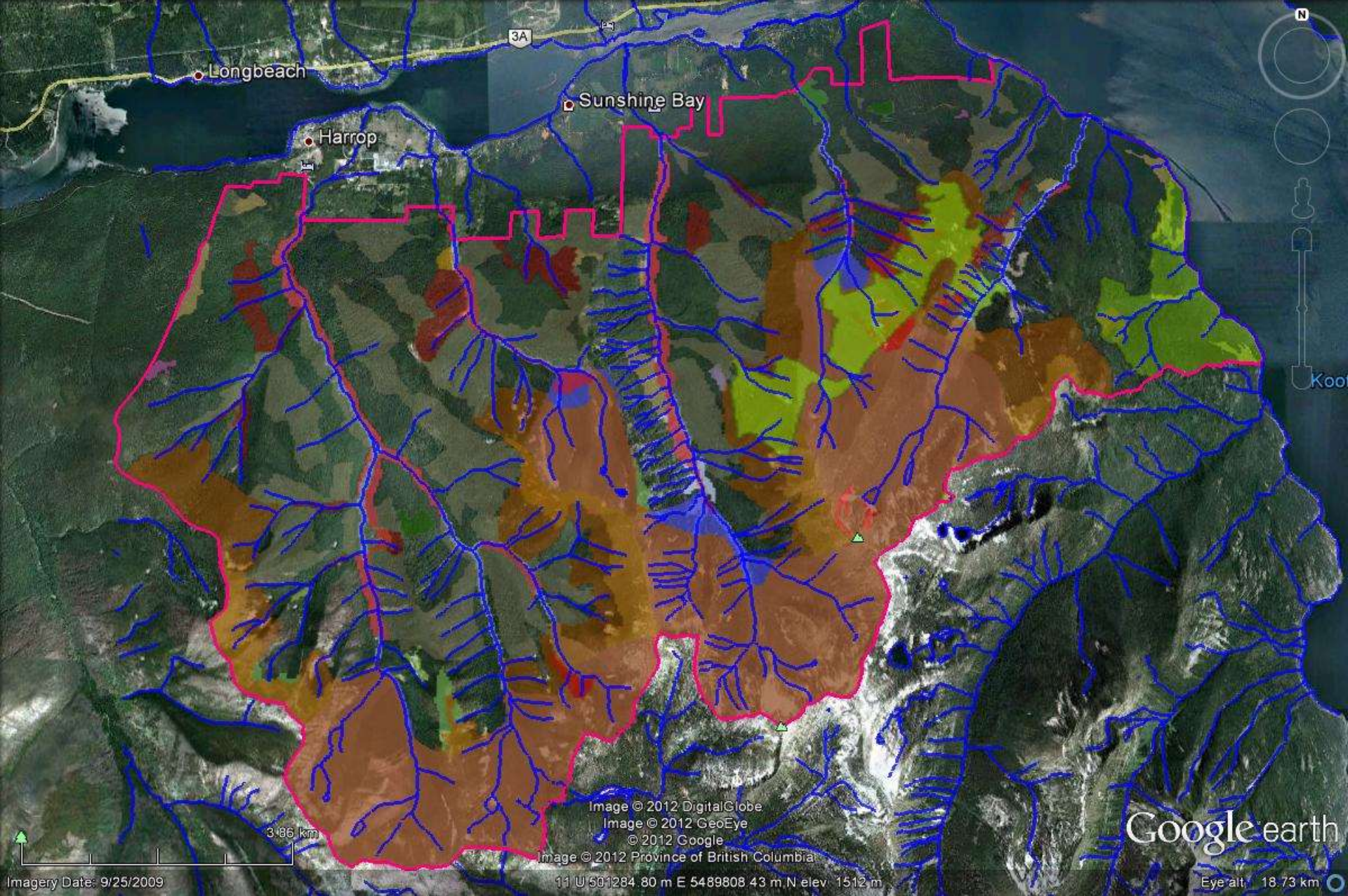




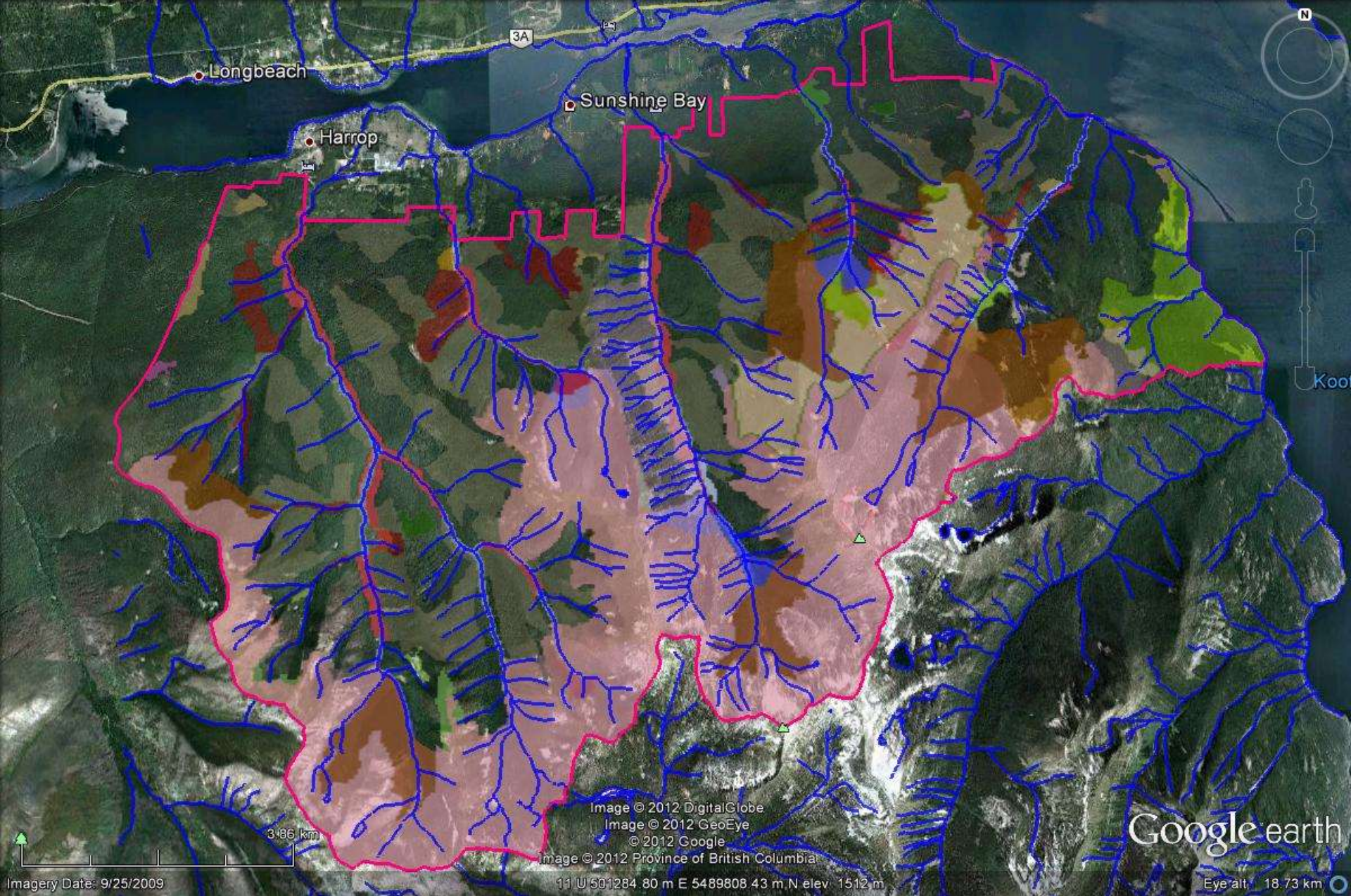




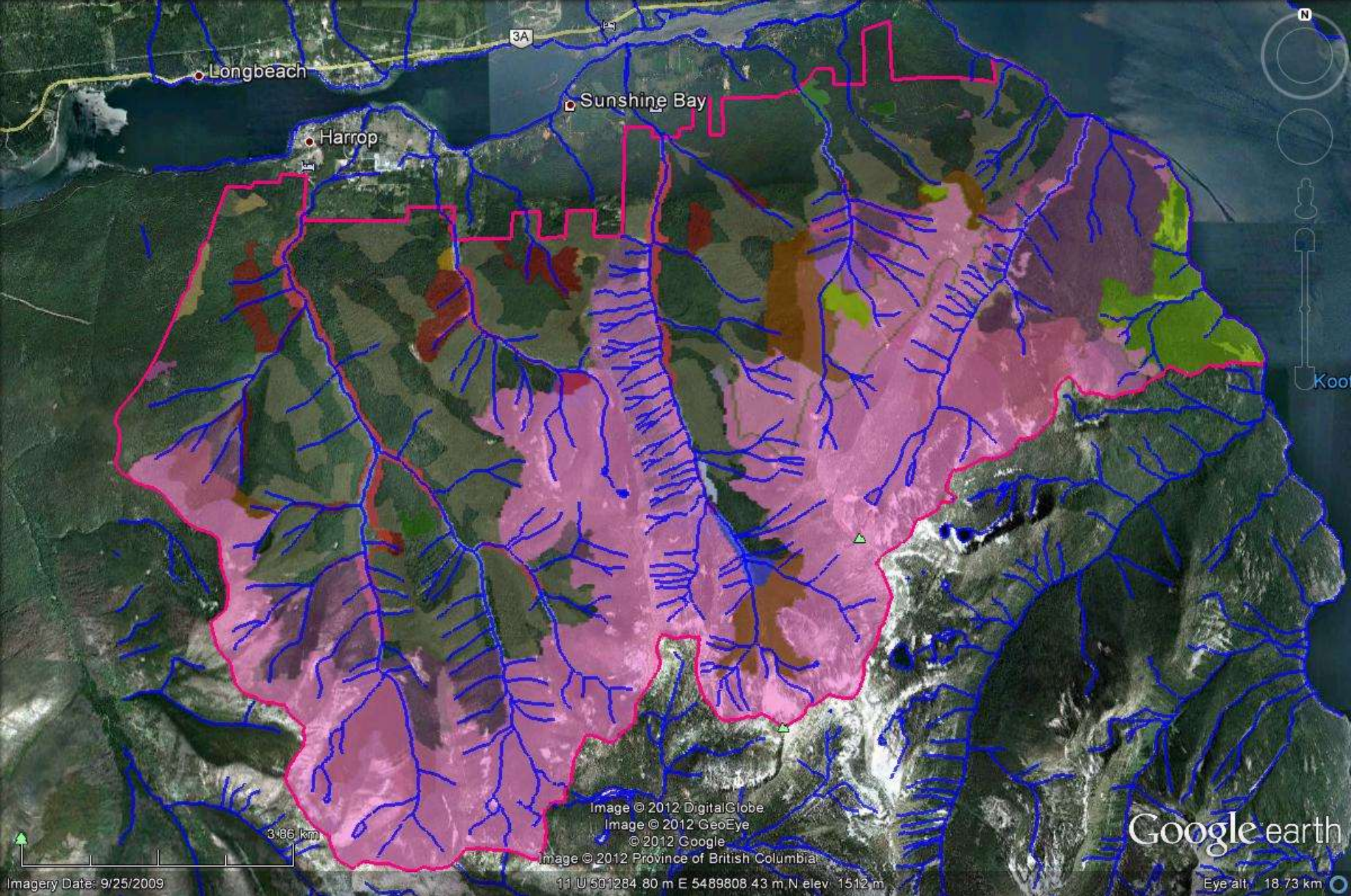




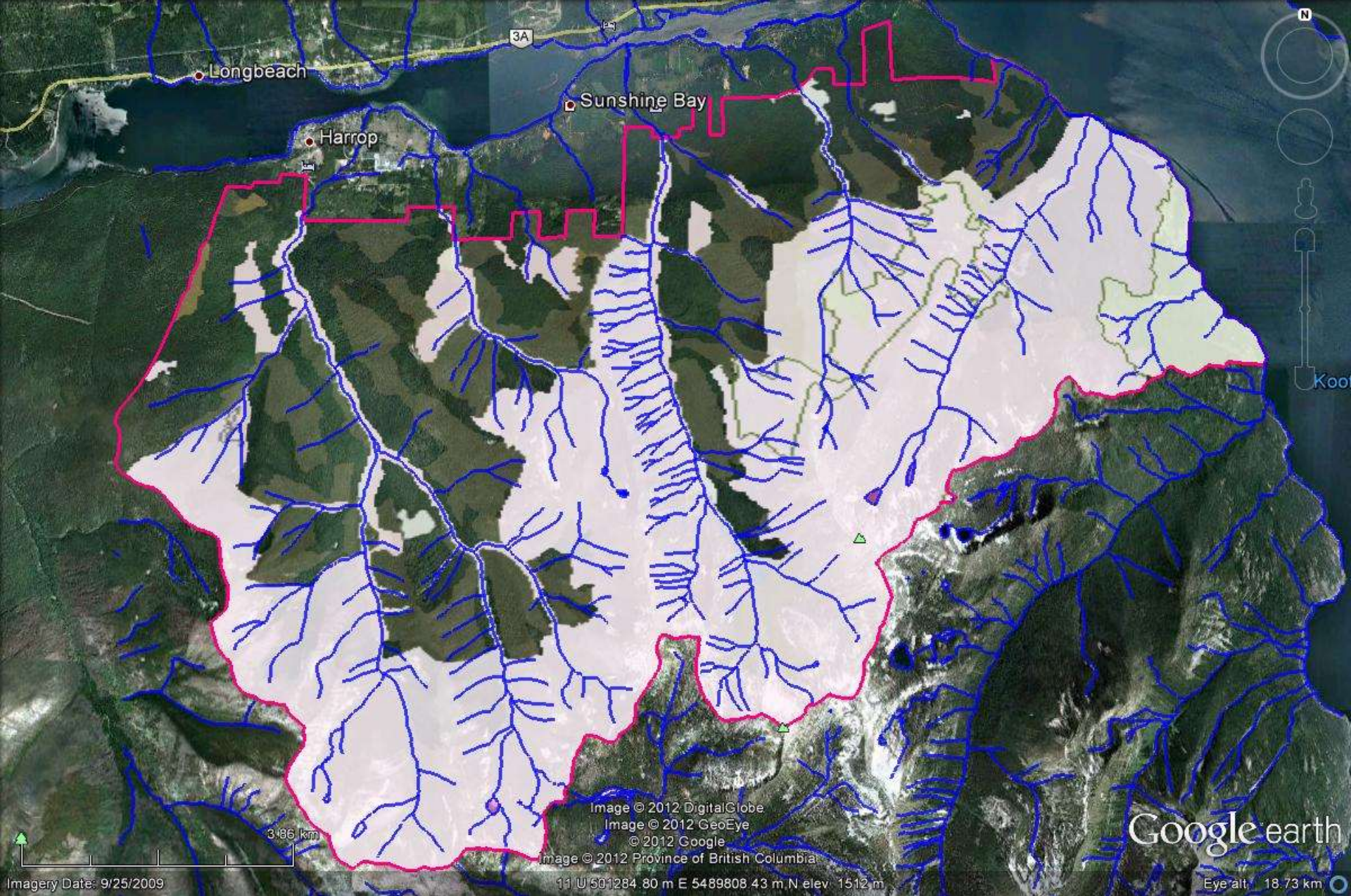




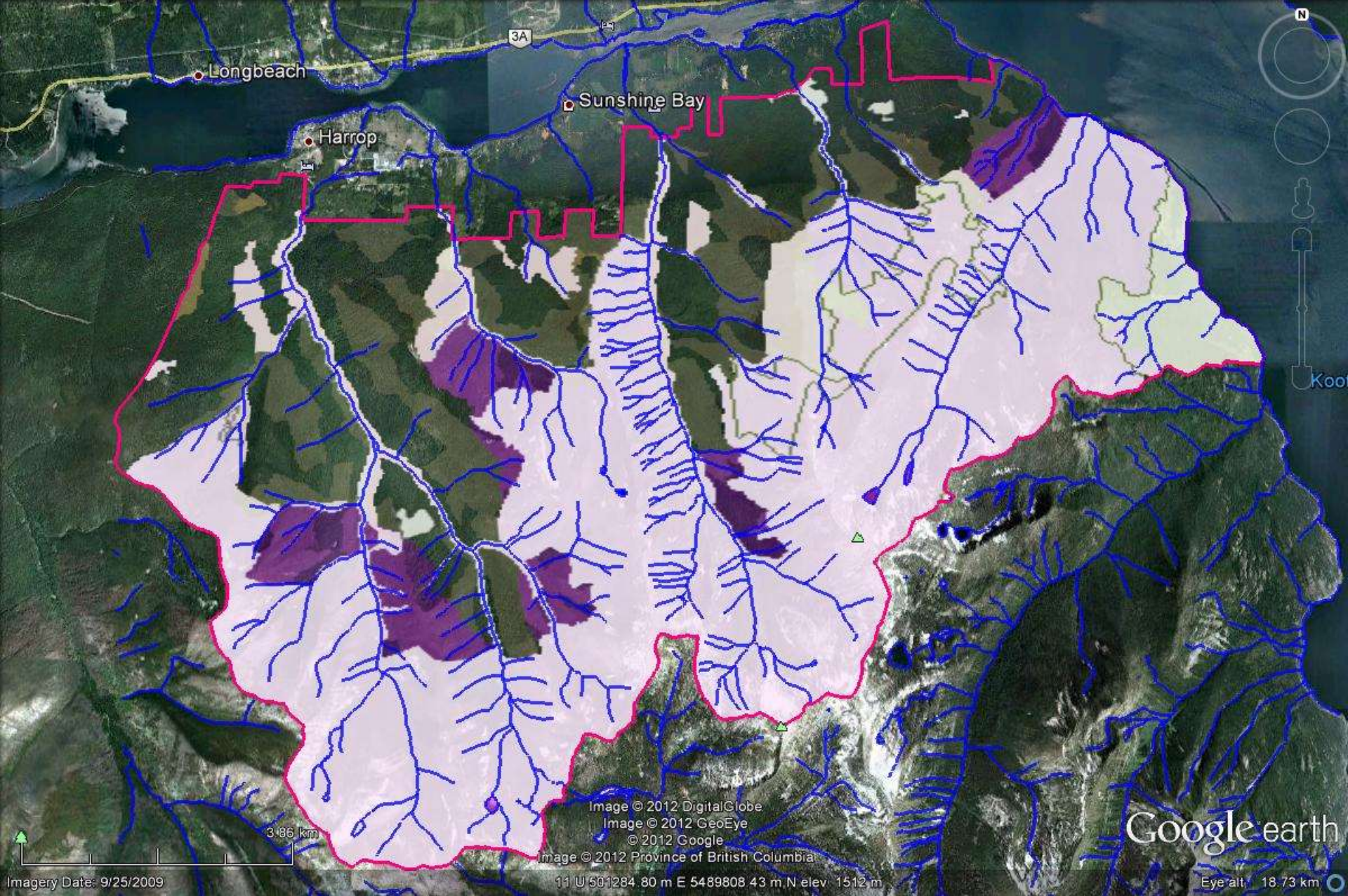




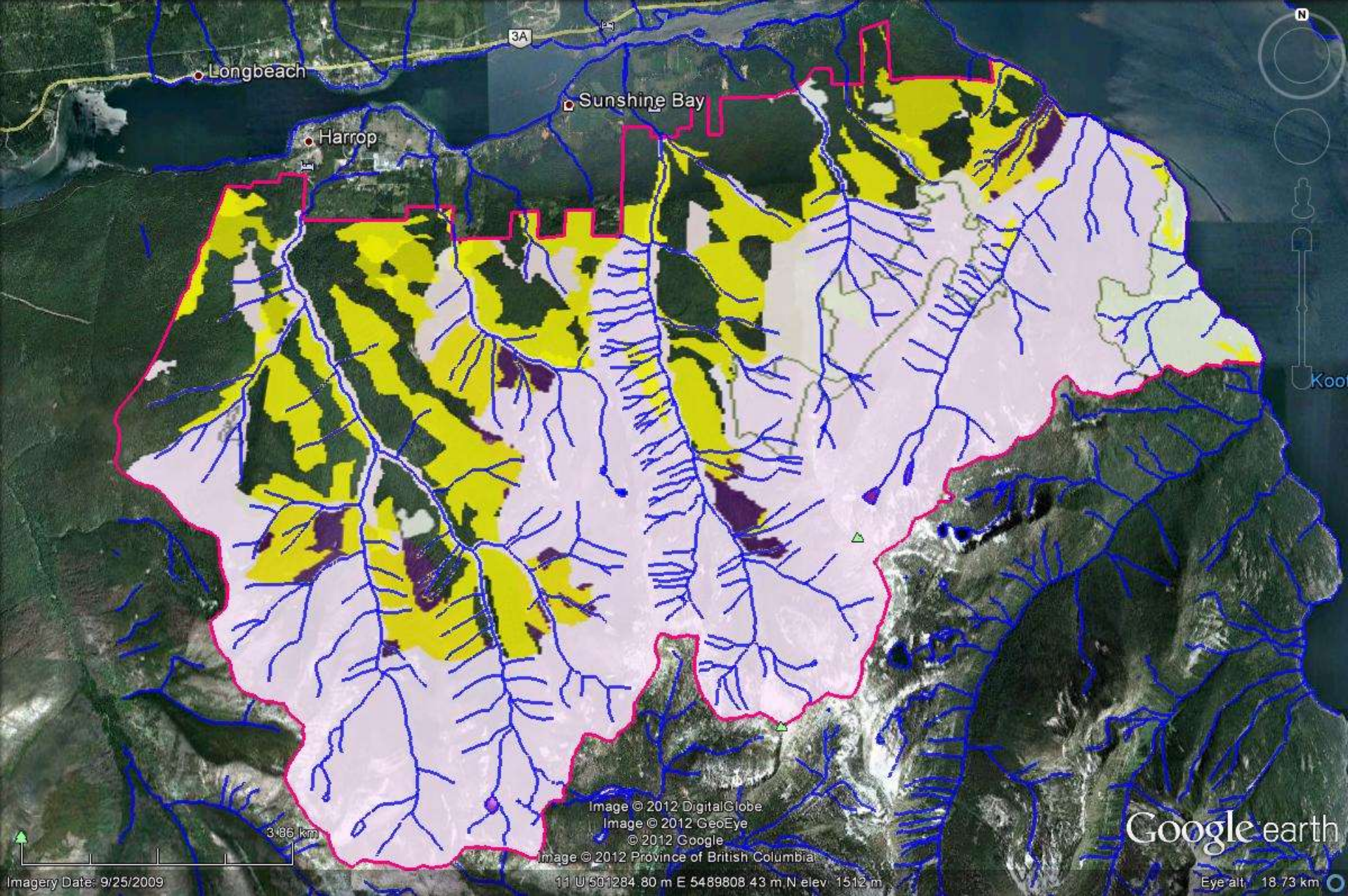




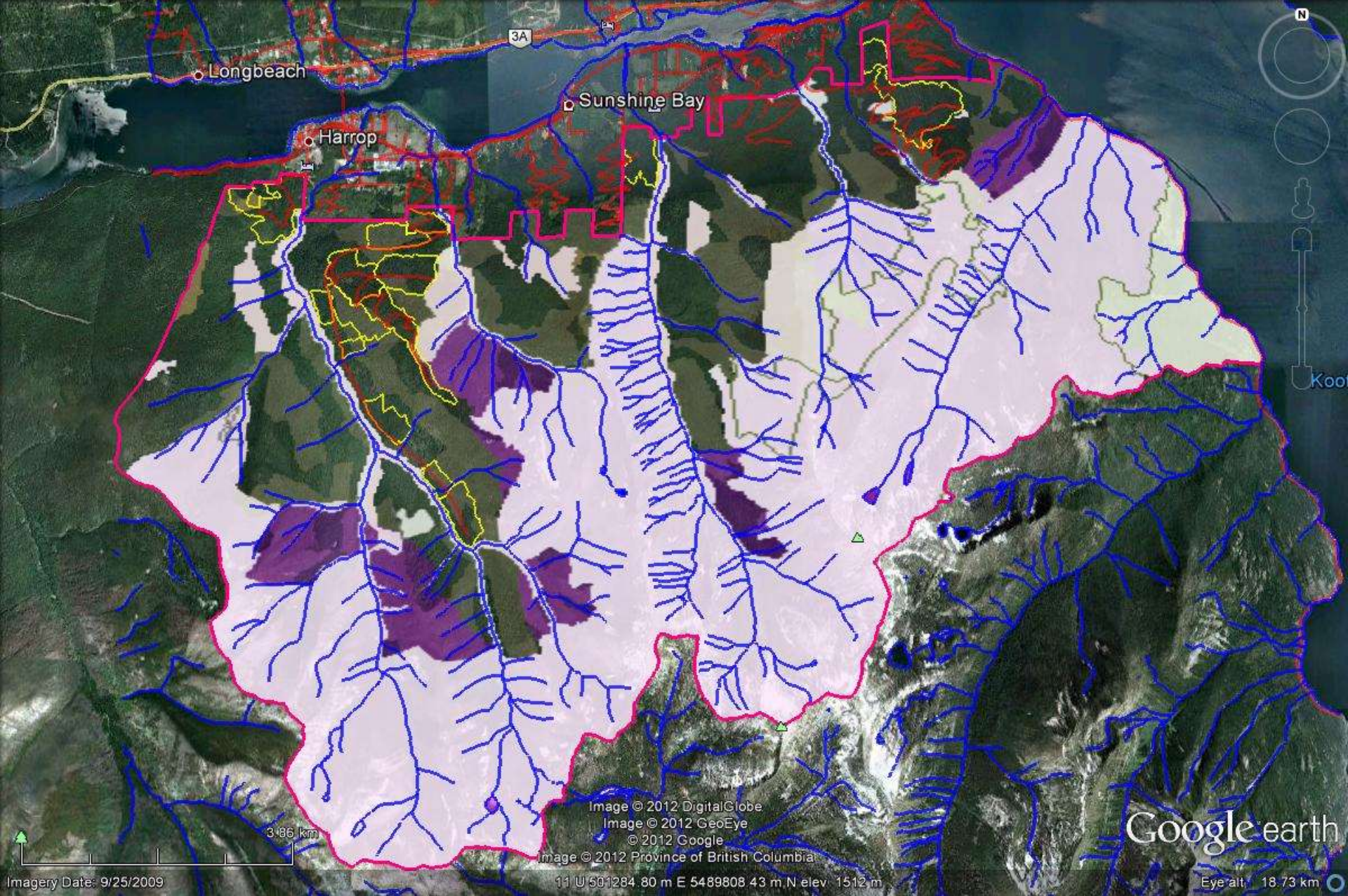














An aerial photograph showing a vast, dense forest covering a rolling hillside. The trees are mostly green, with some patches of brown and orange visible, suggesting some autumnal change or dead trees. The terrain is uneven, with ridges and valleys. The lighting is bright, casting shadows that define the forest's texture.

**Harrop cr**

**11 N 0494771 5488868**

**Detailed Aerial Flight 2005**

**08/08/2005**





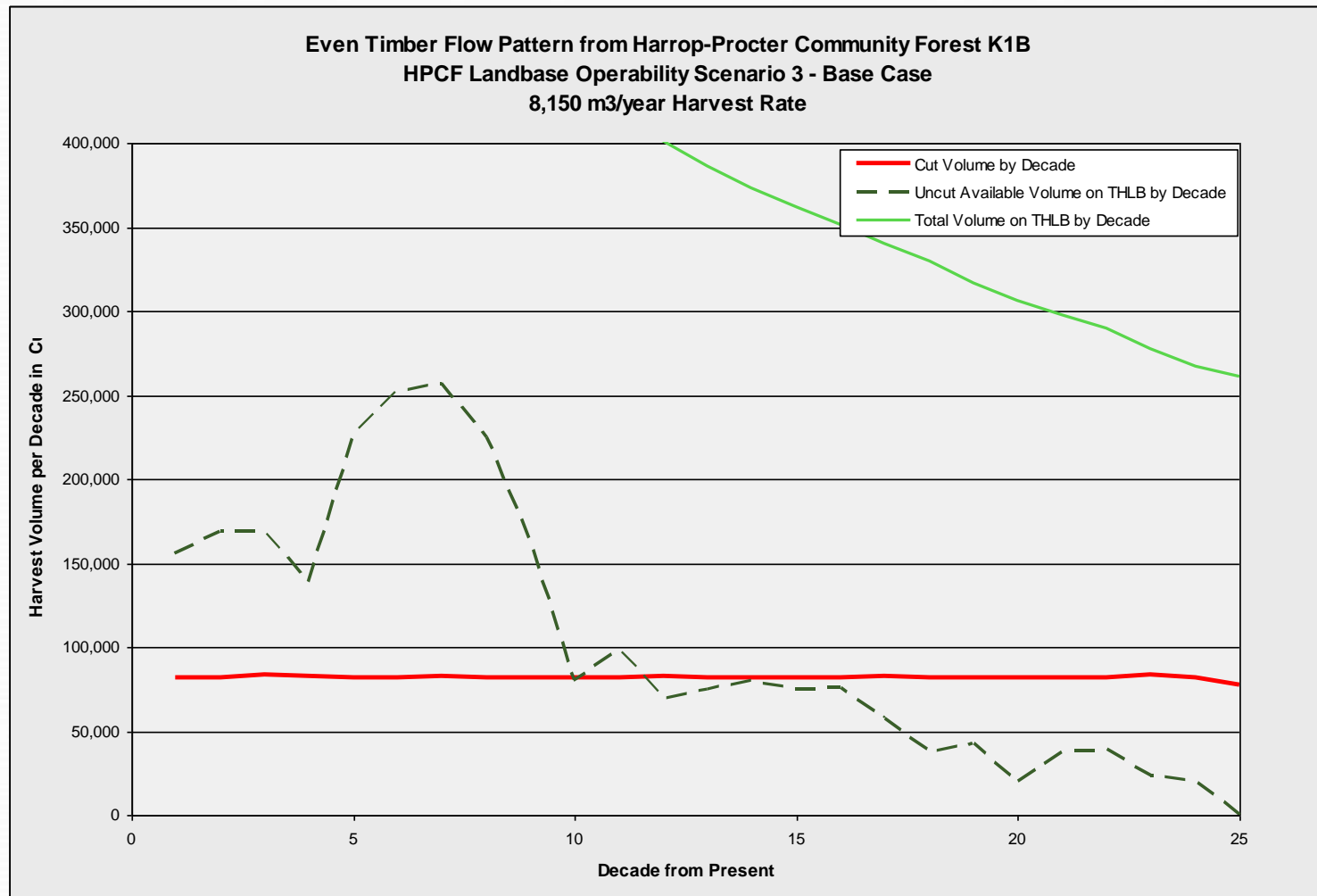






# The model:

## ‘Base case’ — even-flow for 250 years





# Operability Scenarios and Sensitivity analyses

Scenario	Harvest Rate at:					
	Year 1	Year 50	Year 100	Year 150	Year 200	Year 250
Base Case	8,150	8,150	8,150	8,150	8,150	8,150
Base Case - Accelerated Initial Harvest	10,000	10,000	7,558	8,029	8,000	7,126
Base Case - Accelerated Initial Harvest 2	12,000	11,000	6,500	6,500	6,500	6,500
Operability Scenario 2	9,950	9,950	9,950	9,950	9,950	9,950
Operability Scenario 4	7,125	7,125	7,125	7,125	7,125	7,125
Relaxed Cover Constraints	8,200	8,200	8,200	8,200	8,200	8,200
Terrain Class 4 Netdown of 30%	9,200	9,200	9,200	9,200	9,200	9,200
Site Index - 3 Meters	6,400	6,400	6,400	6,400	6,400	6,400
Site Index + 3 Meters	9,850	9,850	9,850	9,850	9,850	9,850
TIPSY Yield for Managed Stands	8,500	8,500	8,500	8,500	8,500	8,500
Pine Mortality	8,075	8,075	8,075	8,075	8,075	8,075



# Our approach (as it evolved)

- Let's be conservative about where we log
- We know, based on new ecosystem data, that current growth rates are underestimated by 25 – 30%
- BUT our forests will be changing because of climate change—more fires, more open forests
- So ... let's see what a more conservative landbase with a more realistic growth rate looks like, and consider climate change



Timber Flow Pattern from Harrop-Procter Community Forest K1B  
HPCF Landbase Operability Scenario 3 - Base Case + Elevated Initial Harvest Rate 1  
Harvest Rate: 10,000 m<sup>3</sup>/year for 50 Years, and 8,000 m<sup>3</sup>/year thereafter





# Choices

- Choose conservative operability scenario
- Choose active management for fire risks
- Consider climate change impacts—short-term vs long-term





# Discussion

