



INFORMATION ON AN ONGOING PROJECT CONTRIBUTION AGREEMENT

Scanning Forests From the Sky

Current forest growth models fail to capture the complexity of mixed and managed forests, making it crucial to develop more precise tools that incorporate 3D remote-sensing and climate data for sustainable management.

PROJECT TITLE

Development of Climate-Informed
Airborne Laser Scanning (ALS)-Derived
Growth and Yield Models

ORGANIZATION

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CONTACT

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START DATE

December 1st, 2023

END DATE

March 31st, 2026

This project focuses on creating and using new tools to build growth and yield models for forests, using 3D remote-sensing (Airborne Laser Scanning [ALS]) and climate data. The researchers will develop and test these models in two different areas in Canada: the Petawawa Research Forest in Ontario and the Cranbrook Timber Supply Area in British Columbia.

Understanding how forests grow is crucial for effective planning and sustainable management. Although there have been significant investments in growth and yield programs across Canada, current models often do not accurately capture the complex structures of forests, especially those with a mix of tree species or those that are actively managed. This project aims to improve these models by combining ALS data with climate information, allowing for better predictions of future forest growth.

The results of this research will be valuable for forest planning and management, providing insights that could greatly influence strategies, especially for managing mixed-species and managed forests. By using advanced technologies and taking climate influences into account, this project aims to enhance forest management practices, supporting resilience and sustainability in Canada's forest ecosystems amid changing environmental conditions.