

## CFS Activities Relevant to ABoVE

(Maximum 2 page)

<b>1. Project Title</b>
National Forest Inventory
<b>2. Investigators (include email). a) Project Lead; b) CFS collaborators, c) external collaborators (individuals/institutions)</b>
<p>Graham Stinson (Manager, NFI); <a href="mailto:graham.stinson@canada.ca">graham.stinson@canada.ca</a></p> <p>The key collaborators to be aware of are the provincial and territorial government collaborators from jurisdictions in the ABoVE study domain:</p> <p>Lisa Smith Northwest Territories Environment and Natural Resources <a href="mailto:lisa_smith@gov.nt.ca">lisa_smith@gov.nt.ca</a> (867) 874-2009</p> <p>Kirk Price Yukon Energy, Mines and Resources <a href="mailto:kirk.price@gov.yk.ca">kirk.price@gov.yk.ca</a> (867) 633-7914</p> <p>Matt Makar British Columbia Ministry of Forests, Lands and Natural Resource Operations <a href="mailto:Matt.Makar@gov.bc.ca">Matt.Makar@gov.bc.ca</a> (250) 828-4427</p> <p>Darren Aitkin Alberta Agriculture and Forestry <a href="mailto:Darren.Aitkin@gov.ab.ca">Darren.Aitkin@gov.ab.ca</a> (780) 644-5581</p> <p>Lane Gelhorn Saskatchewan Ministry of Environment <a href="mailto:lane.gelhorn@gov.sk.ca">lane.gelhorn@gov.sk.ca</a> (306) 953-2444</p> <p>Jim Boyd Manitoba Conservation and Water Stewardship <a href="mailto:jaboyd@gov.mb.ca">jaboyd@gov.mb.ca</a> (204) 330-7760 (mobile)</p>
<b>3. Project Description (200 words maximum)</b>

Please refer to our website: <https://nfi.nfis.org/en/faq>

#### **4. Timelines and current funding (level and source)**

Please refer to our website: <https://nfi.nfis.org/en/history>

Funding level is currently \$700 thousand O&M from CFS plus nearly \$2 million from provinces and territories, but this level of funding is subject to change.

#### **5. Reference (1-2 key publication, website)**

<https://nfi.nfis.org/en/>

**6. ABoVE question being mainly addressed (please highlight)**

1. How are environmental changes affecting critical ecosystem services - natural and cultural resources, human health, infrastructure, and climate regulation - and how are **human societies** responding?

2. What processes are contributing to changes in **disturbance** regimes and what are the impacts of these changes?

3. What processes are controlling changes in the distribution and properties of **permafrost** and what are the impacts of these changes?

4. What are the causes and consequences of changes in the **hydrologic system**, specifically the amount, temporal distribution, and discharge of surface and subsurface water?

5. How are **flora and fauna** responding to changes in biotic and abiotic conditions, and what are the impacts on ecosystem structure and function?

6. How are the magnitudes, fates, and land atmosphere exchanges of **carbon** pools responding to environmental change, and what are the biogeochemical mechanisms driving these changes?

**7. Linkages with ABoVE:**

- a. **Data being collected/generated**
- b. **Expected key benefits and potential challenges from collaborating with ABoVE**
- c. **Ongoing and / or interest in future involvement in ABoVE**

Data are being collected and there is potential for synergies or mutual cross-leveraging of data collection activities (e.g. NFI data made available to ABoVE research teams; NASA data made available to NFI; NASA contributing to accelerated NFI ground plot measurement activities in the study domain; co-location of foundation aerial campaign flight lines over NFI permanent ground plots; etc.)