

## Forestry Adaptation Working Group

Teleconference –June 8 2017, 14:00-15:00 Eastern Time

### Participants

Jason Edwards (NRCan), Vincent Roy (NRCan), Brian Sieben (NWT), Kathy Hopkins (BC), Paul Nikiema (Man), Nolden Craig (NB), Mark Johnston (Sask Research Institute) and Catherine Lafleur (NRCan)

### Agenda/Ordre du jour

#### 1- Check-in

As a follow-up to last meeting, we are still looking for speakers for our FaCOP webinar series.

**ACTION ALL:** Send suggestions of speakers with a potential title

#### 2- Follow-up from the Adaptation Plenary meeting (10-11 May)/ Suivi de la plénière en adaptation (10-11 mai)

- Vincent presented at a panel with chairs of the agriculture and biodiversity Working Groups.
- Presentations were made on the Visitor Leadership program and the US Global change research program.
- Brian mentioned the potential contribution of the forest sector to the proposal of the National Centre of Excellence in Adaptation. **ACTION:** Vincent will share the deck. On the website (<https://uwaterloo.ca/climate-centre/join-adaptation-network>) you can comment the current focus of the program.
- There was a session on indigenous engagement.

#### 3- Regional integrated assessments from CFS/Évaluations régionales intégrées du SCF (Catherine Lafleur)

Catherine Lafleur ([catherine.lafleur@canada.ca](mailto:catherine.lafleur@canada.ca)) presented the regional integrated assessments initiative from CFS. CFS is looking for collaborators to expand the focus across sectors.

#### 4- What's new in your jurisdiction-organisation/ Des nouvelles de votre juridiction-organisation

- Sask Research Council/Sask : A natural hazard risk assessment is currently underway and wildfire is on particular interest.
- BC: Report soon to come on the incorporation of CC in cumulative effects analysis. UBC is also planning a conference on the topic in 2018. BC has come up with a list of over 100 adaptation tools. Work is continuing on climate-based seed transfer
- NWT: Landscape conservation collaboratives (LCC) in the USA are in jeopardy and international partners should try to keep them alive.
- NB: New CC action plan is available
- CFS-Jason: Presented results from the Integrated Assessment to Alberta. Will present adaptation work to the NAFEW meeting in Edmonton (week June 19). On-going discussions at CCFM on a CC task force or other format

Next Meeting Date: Early September 2017

Ideas for next meeting:

- NRCan's call for proposal
- Reviewing the workplan and terms of reference

# Building a Network of Centres of Excellence on Climate Adaptation



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**WATERLOO**

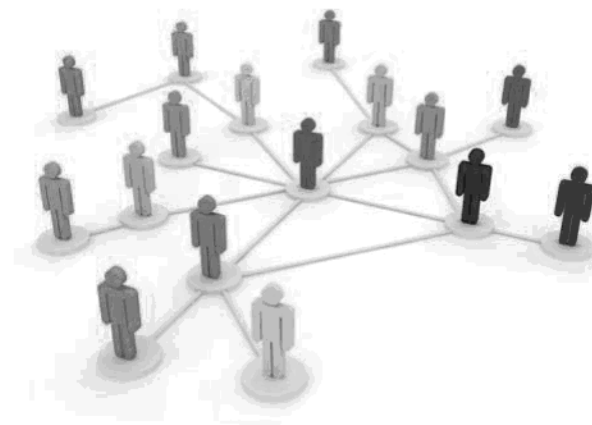


Page 04 to/à Page 23

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# For Further Information



Daniel Scott [daniel.scott@uwaterloo.ca](mailto:daniel.scott@uwaterloo.ca)

Elizabeth Atkinson [elizabeth.atkinson@uwaterloo.ca](mailto:elizabeth.atkinson@uwaterloo.ca)

Alain Bourque [bourque.alain@ouranos.ca](mailto:bourque.alain@ouranos.ca)

Website <https://uwaterloo.ca/climate-centre/adaptationnetwork>



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**WATERLOO**



**From:** Hopkins, Kathy L FLNR:EX  
**Sent:** Thursday, June 8, 2017 1:57 PM  
**To:** Paradine, Dennis FLNR:EX; Spittlehouse, Dave FLNR:EX; Aharonian, Dave FLNR:EX; Dymond, Caren FLNR:EX  
**Subject:** FW: Forestry Adaptation WG

Hi all,

Today on a call with the (pan-Canadian) Forestry Adaptation Working Group (FAWG), Catherine Lefleur gave an overview of the regional integrated assessments underway by CFS. Three to seven assessments are planned; they may vary in scope and scale; and the outcome is concrete implementation opportunities. This work (regional assessments) is one of three *Forest Change* initiatives funded to the tune of collectively \$1MM per year (gross). The other components are indicators and tools.

Brian Sieben shared information about building a ***network of centers of excellence for climate change adaptation***, including (attached) a deck prepared by Daniel Scott from University of Waterloo. For more on the proposed network, see the [UW website](#) which invites input from potential partners.

Brian also indicated that the Landscape Conservation Co-ops have been completely defunded; staff will be ending their work by Sept 30; and transition planning through meetings and con-calls has been curtailed. It's uncertain whether the LCC website and resources there-on can be saved.

FYI

*Kathy*

**Kathy Hopkins** RPF

Technical Adviser, Climate Change  
BC Ministry of Forests, Lands and Natural Resource Operations  
Climate Change and Integrated Planning Branch  
Phone 250-387-2112 or 604-594-9568  
Website: [Natural Resources and Climate Change](#)  
<http://www2.gov.bc.ca/gov/content/environment/natural-resource-stewardship/natural-resources-climate-change/>

Kathy

**From:** Roy, Vincent (NRCan/RNCan) [<mailto:vincent.roy@canada.ca>]  
**Sent:** Thursday, June 8, 2017 12:29 PM  
**To:** Brian Sieben; Doreen Churchill; Dwayne Dye; Edwards, Jason (NRCan/RNCan); Eric Domaine; Houle, Daniel; Jeremy Gullison ([Jeremy.Gullison@gnb.ca](mailto:Jeremy.Gullison@gnb.ca)); Jim MacLellan; Kate Lindsay; Hopkins, Kathy L FLNR:EX; Ext-PCH, johnstonsrskca (Ext.); Mike Montigny; Mike Undershultz; Ngaire Roubal; Paul Nikiema; Rpbm Sharples; Warren, Fiona (NRCan/RNCan); Lafleur, Catherine (NRCan/RNCan); Johnston, Mark  
**Subject:** RE: Forestry Adaptation WG

Hi/Bonjour

I send you the presentation about the initiative of building a network of Centres of Excellence on climate adaptation that was made at the adaptation plenary in May in Ottawa.

You can also indicate your interest in this Climate Change Adaptation NCE at:

<https://uwaterloo.ca/climate-centre/join-adaptation-network>

Attached is also the minutes of our meeting.

Bonne fin de journée

Vincent

-----Rendez-vous d'origine-----

**De :** Lee, Melissa (NRCan/RNCan) **De la part de** Roy, Vincent (NRCan/RNCan)

**Envoyé :** 30 mai 2017 11:57

**À :** Roy, Vincent (NRCan/RNCan); Brian Sieben; Doreen Churchill; Dwayne Dye; Edwards, Jason (NRCan/RNCan); Eric Domaine; Houle, Daniel; Jeremy Gullison ([Jeremy.Gullison@gnb.ca](mailto:Jeremy.Gullison@gnb.ca)); Jim MacLellan; Kate Lindsay; Kathy Hopkins; Mark Johnston; Mike Montigny; Mike Undershultz; Ngaire Roubal; Paul Nikiema; Rpbm Sharples; Warren, Fiona (NRCan/RNCan); Lafleur, Catherine (NRCan/RNCan)

**Cc :** Johnston, Mark

**Objet :** Forestry Adaptation WG

**Date :** 8 juin 2017 11:00-12:00 (UTC-08:00) Pacifique (É.-U. et Canada).

**Où :** Teleconference

\*\*\*Update June 7 with agenda

Agenda:

1. check-in
2. Follow-up from the Adaptation Plenary/ Suivi de la Plénière en Adaptation (Vincent et autres participants)
3. Regional integrated assessments from CFS/Évaluations régionales intégrées du SCF (Catherine Lafleur)
4. Round table/ tour de table

Hello/Bonjour,

Please join Vincent for the next meeting of the Forestry Adaptation WG.

Teleconference: 1-877-413-4791

Conference ID: 4711374

Moderator: Vincent

Merci,

Melissa (for Vincent)

## CCFM CCTF Considerations

June 27, 2017

In response to questions provided by Russ Francis, here is some information and estimates of potential future work for the CCFM CCTF.

1. Of the 4 previous CCTF objectives, what work has been done to meet them? (e.g., has the pan-Canadian risk/vulnerability analysis of forest fires and pests been completed?)

Response: The CCFM CCTF workplan includes:

- a. Incorporating climate change impacts and adaptation into the CCFM's Criteria and Indicators (C&I) for sustainable forest management (SFM); Options for undertaking this work have been identified ( See attached workplan). Next step: develop a common methodology (\$25k) (Not started).
  - b. Continue to actively support cross-organizational networking and information sharing on adaptation. Ongoing. Funded in 2016-17 (\$20k).
  - c. Undertaking a pan-Canadian risk/vulnerability analysis (VA) of forest fires and forest pests under a changing climate; Some initial exploration has been done. The fire WG and Pests WG are set up quite differently, making a combined (fire-pests) approach unsuitable. Two separate climate change assessments are needed, one for fire, the other for pests.  
  
\$40 k was budgeted for a workshop: not yet actioned. Separate workshops with the different groups would likely be needed, as they are different people and meet at different times of the year. \$40k should be adequate to do both workshops. This is a first step towards vulnerability assessments. My estimate is we should likely budget \$50k for each VA in addition to workshop costs (CCTF has not discussed).
  - d. Undertaking an environment scan, gap analysis, and recommendations for mitigation efforts. Not started. \$20k budgeted.
2. If the scope and mandate of the CCTF is enlarged, what kind of budget would be needed? And would new CCTF members be required?

My earlier note suggested aligning new work with the Pan-Canadian Framework Working Group report on Adaptation and Climate Resilience. It contains options for:

- Building resilience through infrastructure: Would rely on engineering expertise (new people, separate sub-group) . Could potentially be furthered in part by partnering with Canadian Standards Association. Suggest a problem assessment as a first step.
- Enhancing ecosystem resilience: Possible that existing CCTF members may be well positioned, however a broader scan may be warranted: e.g. to deal with issues such as the threat of invasives, climatic effects on species at risk, etc. and,
- Reducing risks: (existing CCTF members in concert with fire and pests WGs).

Funding required would depend on the approach taken. The work on these is scalable.



3. What is the advantage to BC of continuing /expanding the CCTF? [Presumably, we would continue doing related work regardless.]

Some of this work is national in scale and cannot be pursued effectively in isolation (e.g. climate change relevant criteria and indicators of SFM). Secondly, there are economies of scale in partnering with other jurisdictions where a small contribution from each enables significant gains across the board. Also, fire, insects, and invasive species don't stop at jurisdictional borders, so collaboration to reduce risks enables greater likelihood of success.

Budget estimate:

Carry-over from CCTF 2016-17 Workplan	
Objective	Proposed budget
Options to incorporate climate change into Criteria and Indicators	\$25,000
Forestry Adaptation Community of Practice	\$20,000
Climate change into Working Group work plans	\$40,000
Environment scan, gap analysis, and recommendations for future (new)	\$20,000
Sub- Total – existing workplan	\$105,000 **
Potential new work*	
Vulnerability Assessment for fire (may take 2 FY years to complete)	\$50k
Vulnerability Assessment for pests (may take 2 FY years to complete)	\$50k
Forest infrastructure problem assessment	\$25k
Sub- Total – emerging priorities	\$125
Total over 2 years (2017-19)	\$230 k

\* note: this estimate has not received CCTF input

**Canadian Council of Forest Ministers  
Climate Change Task Force  
2016-17 Work Plan and Budget Proposal**

**ISSUE**

The Climate Change Task Force (CCTF) worked from 2008 to 2013 to develop a framework for climate change vulnerability assessment and to produce information to enable informed decisions about climate change adaptation. The CCTF prepared a report with recommendations for moving forward, and CCFM Deputy Ministers endorsed the recommendations in late 2014. In 2015-16, the Climate Change Task Force was granted a specific and time-limited mandate to deliver on three of those recommendations. Progress was made on all in 2015-16, and this work plan and budget proposal requests a mandate and budget to continue work in 2016-17. At the end of this proposal, an opportunity for a broader, longer-term mandate for CCTF is outlined in very general terms as a point for discussion.

This work plan outlines recommended next steps for the CCTF's existing task-focused mandate. It also recommends actions to develop options for a continued mandate on climate change within the CCFM.

**OBJECTIVES AND DELIVERABLES FROM EXISTING MANDATE**

Continuing from 2015-16, this proposal is structured around the three recommendations contained in the CCTF report *Climate change adaptation and Canada's forest sector: moving forward*.

**Objective 1: Incorporate climate change impacts and adaptation into the CCFM's Criteria and Indicators (C&I) for sustainable forest management (SFM).**

Context:

The Technical Advisory Group (TAG) of CCTF has completed the first part of its mandate with the production of an internal report that was distributed to the CCTF members in December 2015 on potential options for incorporating climate change into the Criteria and Indicators (C&I) framework. A 2-page executive summary focussing on options is intended to be developed by March 2016 for presentation to CCFM DMs. A range of options exists, and further direction from CCFM will be required to precisely define a work plan.

In brief, the options that will be prepared for presentation can be summarized as follows:

- Option 1: No change to the C&I framework, and reporting would still be done separately by jurisdictions as is currently the case. However, CCFM would produce a guidance document in 2016-17 to provide to jurisdictions on how existing indicators could be interpreted from a climate change perspective, and on how prospective analyses of existing indicators could be done, based on CCFM guidebook.
- Option 2: No change to the C&I framework, but the CCFM itself instead of jurisdictions would report on existing indicators, and would add a climate change interpretation to the reporting. Either retrospective or more powerful prospective analyses could be used as the basis for reporting on climate change aspects.
- Option 3: This largest option would see review and modification of the full C&I framework through a consultative process in order to comprehensively build in climate change

considerations. Subsequent reporting could be by jurisdictions (as per Option 1) or by CCFM (as per Option 2).

#### Recommendation:

Either Option 2 or 3 involve considerable work and/or changes to current practices and would need to be carefully considered by CCFM before any decision to proceed as they. Such a decision is likely best made in the context of broader determination by CCFM about its desired direction on climate change (see Opportunity at end of this document). In the meantime, the modest recommended next step therefore is Option 1, including a contract to develop common methodology for the use of existing indicators in prospective analyses of climate change. It would be up to jurisdictions to determine how they would adopt and implement the methodology. Jurisdictions would remain responsible to make their own decisions about reporting as is currently the case. This is considered a no-risk option as the product would be useful in any larger option that might subsequently be pursued.

The CCFM might also wish to ask the CCTF to more fully develop a costed plan for Options 2 or 3.

#### Costs:

- Consultant retained to help develop a common methodology = \$25k (by December 2016)

#### Benefits/Outcomes:

- Common guidance for all jurisdictions to incorporate climate change analyses into current C&I framework leads to enhanced national understanding of climate change vulnerabilities based on uptake and implementation by jurisdictions.

#### **Objective #2: Continue to actively support cross-organizational networking and information sharing on adaptation.**

#### Context:

The Forestry Adaptation Community of Practice (FACoP) is an online space dedicated to persons interested in climate change impacts and adaptation options for forestry in Canada. The purpose of this space is to share information and best practices on current activities in the area of climate change vulnerability and adaptation assessment in Canada's forest sector. The FACoP was developed on behalf of the CCFM during the CCTF phase II work plan and we are seeking continued funding for 2016-2017.

#### Approach:

- Continue the existing FACoP, which has currently 350 members across Canada, to support networking and information sharing.
- FACoP produces a monthly newsletter with updates on Adaptation resources (conferences, publications, reports, presentations...) and has a virtual library with documents relevant to forestry adaptation.

- FAcOP hosts a forestry adaptation webinar series with a target of 8-10 webinars per year. Webinar topics and speakers are suggested by the FAcOP membership.
- A survey of FAcOP members regarding utility of the FAcOP resources and options for continued or expanded future use of the platform and/or funding will be completed by March 2017.

Costs:

- Contract to maintain the web site, produce the newsletters and arrange logistics for 8-10 webinars every year = \$20k

Benefits/Outcomes:

- Information sharing through newsletters and a series of 8 webinars to showcase adaptation work in forestry in Canada.
- Document and disseminate adaptation best practices and lessons learned in order to mainstream adaptation into sustainable forest management activities.

**Objective #3: Undertake a pan-Canadian risk/vulnerability analysis of forest fires and forest pests under a changing climate.**

Context:

Wildland fires and forest pests are highly sensitive to weather and climate. Separately and interactively, they have a major impact on the quality, quantity, and flow of wood fibre in Canada, which in turns affects forest industry competitiveness. CCFM has active wildland fire and forest pest working groups with strong individual domain experts.

CCFM DMs called at their June 2013 meeting for increased integration between the pest and fire working groups and the CCTF. This can be achieved by leveraging the CCTF's vulnerability assessment approach and having fire and pest experts work with climate change experts towards an integrated analysis of the potential effects of fire and pests on Canada's forests under a changing climate; to identify the possible implications for the forest sector; and to explore possible adaptation (or risk mitigation) options.

Dialogue in this direction was initiated in 2015-16. However, the complexity of the issues, competing work load demands on all agency staff, and a busy 2015 fire season resulted in more modest progress than projected a year ago.

Approach:

- Continue dialogue between Climate Change Task Force and experts with the Forest Pest and Wildland Fire working groups.
- Convene technical experts in climate change, fire, and pests for knowledge exchange towards more integrated work planning incorporating climate change.
- Scope an integrated analysis of the potential effects of climate change on fire and pests and assessment of potential adaptation or risk mitigation options for incorporation into future work planning.

- By December 2016, begin more explicit incorporation of climate change dimensions into the 2016-2017 work plans of CCFM fire and pest working groups.

#### Costs:

- Technical workshop costs (expert travel, logistics, etc) = \$40k
- No new funding required for 2016/17 as the \$40k approved for 2015-16 remains unspent and can be carried forward.

#### Benefits/Outcomes:

- Knowledge transfer of climate change scenarios and impacts to other forest specialist groups
- Incorporation of assessment of climate change vulnerabilities into the ongoing work plans of CCFM working groups on pests and fire

### **PROPOSED NEW DIRECTION: Positioning CCFM for Future Work on Climate Change**

#### Context:

The CCTF has had a specific, time-limited mandate to focus on the vulnerability of forests to climate change and measures to help adapt. While recognizing the importance of this existing mandate, the CCTF sees an opportunity to evolve and grow this mandate to include topics and issues related to climate change mitigation, and the linkage between mitigation and adaptation.

Governments have a critical role to play in advancing global efforts to address the changing climate around us, and forests can help to mitigate that change. Specifically, forests can be significant greenhouse gas (GHG) sources and significant carbon sinks as a result of natural processes (such as fire, insect infestations and tree growth) and of human activities (such as harvesting, afforestation and deforestation). The important role of resilient forests and landscapes in mitigating human actions was recently formally recognized in the agreement reached at COP21 in Paris, building on the Warsaw Framework for REDD+. Members of the CCTF believe there is a broader need and opportunity for the CCFM to engage in and support national efforts around climate change mitigation and adaptation.

Various groups and committees are already active in other parts of the climate change space. For example, the National Forest Sinks Committee (NFSC) continues to provide significant national leadership on issues related to forest carbon. The CCTF has the opportunity to consult or link with the NFSC to further explore opportunities and needs related to criteria and indicators for carbon, and related measurement and reporting. Any future work under the CCFM would need to be properly scoped to ensure it focuses on the right areas and avoids any duplication.

The CCTF has not undertaken specific analysis in these directions. However, the possible range of topics is broad and could involve the development of information, guidance, or strategies that address topics such as but not limited to forest carbon, monitoring and reporting, limiting deforestation, minimizing disturbance, enhancing afforestation and forest restoration, or promoting new and emerging climate-friendly uses of wood.

Recommended approach:

- Conduct a high-level environmental scan and gap analysis, to include consideration of current activities of other organizations.
- Develop a recommendation or options for CCFM Deputy Ministers to define and scope possible continued work by the CCFM on climate change mitigation and adaptation, and an appropriate mechanism for delivery (e.g. continued task force, full working group, and other options).

Benefits/outcomes:

- Opportunity for CCFM to consider more specific options for continued work on climate change adaptation and/or new work on climate change mitigation.
- Opportunity to more clearly link and leverage relevant work on climate change being undertaken by other groups to CCFM priorities and activities.

#### **BUDGET SUMMARY**

Objective	Proposed budget
Options to incorporate climate change into Criteria and Indicators	\$25,000
Forestry Adaptation Community of Practice	\$20,000
Climate change into Working Group work plans	\$40,000
Environment scan, gap analysis, and recommendations for future (new)	\$20,000
Total	\$105,000 **

\*\* Approval is requested to carry unused funds forward, estimated at \$90,000. Given in-year slippage that often occurs, those existing resources may be sufficient to deliver the proposed work plan with no new funds required.

**From:** Hopkins, Kathy L FLNR:EX  
**Sent:** Thursday, June 29, 2017 7:39 AM  
**To:** Francis, Russ FLNR:EX  
**Cc:** Paradine, Dennis FLNR:EX  
**Subject:** Queries for CCTF BN

Hi Russ,  
Thanks for tracking me down yesterday. Attached is the information you were asking for. I hope it's what you need.  
Call if you have any questions,

*Kathy*

**Kathy Hopkins** RPF  
Technical Adviser, Climate Change  
BC Ministry of Forests, Lands and Natural Resource Operations  
Climate Change and Integrated Planning Branch  
Phone 604-594-9568  
Website: [Natural Resources and Climate Change](#)

**From:** Hopkins, Kathy L FLNR:EX  
**Sent:** Tuesday, June 27, 2017 9:19 AM  
**To:** Paradine, Dennis FLNR:EX  
**Subject:** RE: For your review: re: Queries for CCTF BN - requested by Weds June 28

Hi Dennis,  
Here is a draft response to Russ Francis. Your strategic eye would be appreciated on this before we send it over.  
Kathy

**From:** Paradine, Dennis FLNR:EX  
**Sent:** Monday, June 26, 2017 4:28 PM  
**To:** Francis, Russ FLNR:EX; Hopkins, Kathy L FLNR:EX  
**Subject:** RE: Queries for CCTF BN - requested by Weds June 28

Wrong Hopkins –over to you Kathy

Dennis

**From:** Francis, Russ FLNR:EX  
**Sent:** Monday, June 26, 2017 4:25 PM  
**To:** Paradine, Dennis FLNR:EX; Hopkins, Breanna FLNR:EX  
**Subject:** RE: Queries for CCTF BN - requested by Weds June 28

Hi Dennis and Kathy:

Are you able to help with this by Weds this week?

Many thanks.

Cheers

Russ  
7-3963

**From:** Francis, Russ FLNR:EX  
**Sent:** Wednesday, June 14, 2017 3:59 PM  
**To:** Paradine, Dennis FLNR:EX; Hopkins, Breanna FLNR:EX  
**Cc:** Craig, Shannon FLNR:EX  
**Subject:** Queries for CCTF BN

Hi Dennis and Kathy:

As you may know, I am completing a BN on the future of the CCTF.

Would appreciate it if you could suggest some comments on the following issues:

1. Of the 4 previous CCTF objectives, what work has been done to meet them? (e.g., has the pan-Canadian risk/vulnerability analysis of forest fires and pests been completed?)
2. If the scope and mandate of the CCTF is enlarged, what kind of budget would be needed? And would new CCTF members be required?
3. What is the advantage to BC of continuing /expanding the CCTF? [Presumably, we would continue doing related work regardless.]

If you are able to provide suggestions by Weds June 21, that would be great.

Many thanks

Cheers  
Russ

Russ Francis  
Strategic Policy and Intergovernmental Relations  
Ministry of Forests, Lands and Natural Resource Operations

250-387-3963



## CCFM CCTF Considerations

June 27, 2017

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#### Recommendation:

Either Option 2 or 3 involve considerable work and/or changes to current practices and would need to be carefully considered by CCFM before any decision to proceed as they. Such a decision is likely best made in the context of broader determination by CCFM about its desired direction on climate change (see Opportunity at end of this document). In the meantime, the modest recommended next step therefore is Option 1, including a contract to develop common methodology for the use of existing indicators in prospective analyses of climate change. It would be up to jurisdictions to determine how they would adopt and implement the methodology. Jurisdictions would remain responsible to make their own decisions about reporting as is currently the case. This is considered a no-risk option as the product would be useful in any larger option that might subsequently be pursued.

The CCFM might also wish to ask the CCTF to more fully develop a costed plan for Options 2 or 3.

#### Costs:

- Consultant retained to help develop a common methodology = \$25k (by December 2016)

#### Benefits/Outcomes:

- Common guidance for all jurisdictions to incorporate climate change analyses into current C&I framework leads to enhanced national understanding of climate change vulnerabilities based on uptake and implementation by jurisdictions.

#### **Objective #2: Continue to actively support cross-organizational networking and information sharing on adaptation.**

#### Context:

The Forestry Adaptation Community of Practice (FACoP) is an online space dedicated to persons interested in climate change impacts and adaptation options for forestry in Canada. The purpose of this space is to share information and best practices on current activities in the area of climate change vulnerability and adaptation assessment in Canada's forest sector. The FACoP was developed on behalf of the CCFM during the CCTF phase II work plan and we are seeking continued funding for 2016-2017.

#### Approach:

- Continue the existing FACoP, which has currently 350 members across Canada, to support networking and information sharing.
- FACoP produces a monthly newsletter with updates on Adaptation resources (conferences, publications, reports, presentations...) and has a virtual library with documents relevant to forestry adaptation.

- FAcOP hosts a forestry adaptation webinar series with a target of 8-10 webinars per year. Webinar topics and speakers are suggested by the FAcOP membership.
- A survey of FAcOP members regarding utility of the FAcOP resources and options for continued or expanded future use of the platform and/or funding will be completed by March 2017.

Costs:

- Contract to maintain the web site, produce the newsletters and arrange logistics for 8-10 webinars every year = \$20k

Benefits/Outcomes:

- Information sharing through newsletters and a series of 8 webinars to showcase adaptation work in forestry in Canada.
- Document and disseminate adaptation best practices and lessons learned in order to mainstream adaptation into sustainable forest management activities.

**Objective #3: Undertake a pan-Canadian risk/vulnerability analysis of forest fires and forest pests under a changing climate.**

Context:

Wildland fires and forest pests are highly sensitive to weather and climate. Separately and interactively, they have a major impact on the quality, quantity, and flow of wood fibre in Canada, which in turns affects forest industry competitiveness. CCFM has active wildland fire and forest pest working groups with strong individual domain experts.

CCFM DMs called at their June 2013 meeting for increased integration between the pest and fire working groups and the CCTF. This can be achieved by leveraging the CCTF's vulnerability assessment approach and having fire and pest experts work with climate change experts towards an integrated analysis of the potential effects of fire and pests on Canada's forests under a changing climate; to identify the possible implications for the forest sector; and to explore possible adaptation (or risk mitigation) options.

Dialogue in this direction was initiated in 2015-16. However, the complexity of the issues, competing work load demands on all agency staff, and a busy 2015 fire season resulted in more modest progress than projected a year ago.

Approach:

- Continue dialogue between Climate Change Task Force and experts with the Forest Pest and Wildland Fire working groups.
- Convene technical experts in climate change, fire, and pests for knowledge exchange towards more integrated work planning incorporating climate change.
- Scope an integrated analysis of the potential effects of climate change on fire and pests and assessment of potential adaptation or risk mitigation options for incorporation into future work planning.

- By December 2016, begin more explicit incorporation of climate change dimensions into the 2016-2017 work plans of CCFM fire and pest working groups.

#### Costs:

- Technical workshop costs (expert travel, logistics, etc) = \$40k
- No new funding required for 2016/17 as the \$40k approved for 2015-16 remains unspent and can be carried forward.

#### Benefits/Outcomes:

- Knowledge transfer of climate change scenarios and impacts to other forest specialist groups
- Incorporation of assessment of climate change vulnerabilities into the ongoing work plans of CCFM working groups on pests and fire

### **PROPOSED NEW DIRECTION: Positioning CCFM for Future Work on Climate Change**

#### Context:

The CCTF has had a specific, time-limited mandate to focus on the vulnerability of forests to climate change and measures to help adapt. While recognizing the importance of this existing mandate, the CCTF sees an opportunity to evolve and grow this mandate to include topics and issues related to climate change mitigation, and the linkage between mitigation and adaptation.

Governments have a critical role to play in advancing global efforts to address the changing climate around us, and forests can help to mitigate that change. Specifically, forests can be significant greenhouse gas (GHG) sources and significant carbon sinks as a result of natural processes (such as fire, insect infestations and tree growth) and of human activities (such as harvesting, afforestation and deforestation). The important role of resilient forests and landscapes in mitigating human actions was recently formally recognized in the agreement reached at COP21 in Paris, building on the Warsaw Framework for REDD+. Members of the CCTF believe there is a broader need and opportunity for the CCFM to engage in and support national efforts around climate change mitigation and adaptation.

Various groups and committees are already active in other parts of the climate change space. For example, the National Forest Sinks Committee (NFSC) continues to provide significant national leadership on issues related to forest carbon. The CCTF has the opportunity to consult or link with the NFSC to further explore opportunities and needs related to criteria and indicators for carbon, and related measurement and reporting. Any future work under the CCFM would need to be properly scoped to ensure it focuses on the right areas and avoids any duplication.

The CCTF has not undertaken specific analysis in these directions. However, the possible range of topics is broad and could involve the development of information, guidance, or strategies that address topics such as but not limited to forest carbon, monitoring and reporting, limiting deforestation, minimizing disturbance, enhancing afforestation and forest restoration, or promoting new and emerging climate-friendly uses of wood.

Recommended approach:

- Conduct a high-level environmental scan and gap analysis, to include consideration of current activities of other organizations.
- Develop a recommendation or options for CCFM Deputy Ministers to define and scope possible continued work by the CCFM on climate change mitigation and adaptation, and an appropriate mechanism for delivery (e.g. continued task force, full working group, and other options).

Benefits/outcomes:

- Opportunity for CCFM to consider more specific options for continued work on climate change adaptation and/or new work on climate change mitigation.
- Opportunity to more clearly link and leverage relevant work on climate change being undertaken by other groups to CCFM priorities and activities.

#### **BUDGET SUMMARY**

Objective	Proposed budget
Options to incorporate climate change into Criteria and Indicators	\$25,000
Forestry Adaptation Community of Practice	\$20,000
Climate change into Working Group work plans	\$40,000
Environment scan, gap analysis, and recommendations for future (new)	\$20,000
Total	\$105,000 **

\*\* Approval is requested to carry unused funds forward, estimated at \$90,000. Given in-year slippage that often occurs, those existing resources may be sufficient to deliver the proposed work plan with no new funds required.

**From:** [Hopkins, Kathy L FLNR:EX](#)  
**To:** [Paradine, Dennis FLNR:EX](#)  
**Subject:** RE: For your review: re: Queries for CCTF BN - requested by Weds June 28  
**Date:** Tuesday, June 27, 2017 9:19:00 AM  
**Attachments:** [CCFM CCTF Considerations.docx](#)  
[CCFM CCTF work plan budget proposal 2016-17\\_Final \(2\).docx](#)

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Hi Dennis,

Here is a draft response to Russ Francis. Your strategic eye would be appreciated on this before we send it over.

Kathy

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**From:** Paradine, Dennis FLNR:EX  
**Sent:** Monday, June 26, 2017 4:28 PM  
**To:** Francis, Russ FLNR:EX; Hopkins, Kathy L FLNR:EX  
**Subject:** RE: Queries for CCTF BN - requested by Weds June 28

Wrong Hopkins –over to you Kathy

Dennis

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**From:** Francis, Russ FLNR:EX  
**Sent:** Monday, June 26, 2017 4:25 PM  
**To:** Paradine, Dennis FLNR:EX; Hopkins, Breanna FLNR:EX  
**Subject:** RE: Queries for CCTF BN - requested by Weds June 28

Hi Dennis and Kathy:

Are you able to help with this by Weds this week?

Many thanks.

Cheers

Russ  
7-3963

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**From:** Francis, Russ FLNR:EX  
**Sent:** Wednesday, June 14, 2017 3:59 PM  
**To:** Paradine, Dennis FLNR:EX; Hopkins, Breanna FLNR:EX  
**Cc:** Craig, Shannon FLNR:EX  
**Subject:** Queries for CCTF BN

Hi Dennis and Kathy:

As you may know, I am completing a BN on the future of the CCTF.



Would appreciate it if you could suggest some comments on the following issues:

1. Of the 4 previous CCTF objectives, what work has been done to meet them? (e.g., has the pan-Canadian risk/vulnerability analysis of forest fires and pests been completed?)
2. If the scope and mandate of the CCTF is enlarged, what kind of budget would be needed? And would new CCTF members be required?
3. What is the advantage to BC of continuing /expanding the CCTF? [Presumably, we would continue doing related work regardless.]

If you are able to provide suggestions by Weds June 21, that would be great.

Many thanks

Cheers

Russ

Russ Francis

Strategic Policy and Intergovernmental Relations

Ministry of Forests, Lands and Natural Resource Operations

250-387-3963