ABoVE WG Coordination & Synthesis Activities

Carbon Dynamics:

Changes in seasonal amplitude of CO2 concentrations

CH4 data/knowledge gaps

Aquatic carbon fluxes

Partitioning net ecosystem exchange components

C Flux measurements in permafrost ecosystems (with Hydrology/Permafrost WG)



Hydrology / Permafrost:

Active Layer Distribution - synthesize & assess active layer depths (with SAR WGs)

Freeze-thaw dynamics and timing (with C Dynamics WG)

Lake trends – comparison of methods & long-term trends in lake area, and drivers

Snow properties – crosscutting synthesis activity with Wildlife WG

Fire Disturbance:

Wildfire soil carbon combustion synthesis

Post-fire forest regrowth composition & trajectories (with Veg Dynamics WG)

Vegetation Dynamics:

Succession/recovery following disturbances (with Fire WG)

Forest greening/browning including role of climate & insects in forest decline Tundra greening/browning including shrub expansion & densification



Breakout 2 charge

Discuss research synthesis ideas & activities.

Consider synergies & ways to inform & leverage efforts. If possible, outline contents of publications as a working framework.

Field mmts & remote sensing

- What are the key knowledge gaps & needs?
- Ways to fill primary data gaps & needs?
- Complementarity in mapping & scaling efforts?
- How can data / observations inform management needs?

Modeling efforts

- Broader suite of in situ mmts for cal-val?
- What data are lacking wrt informing & assessing models?
- How can models best inform vulnerability assessments?
- Model-data framework, comparisons, benchmarking

Breakouts (rooms)

- > 5 breakout groups
- 1. Wildlife & Ecosystem services (Boelman, North)
- 2. Fire Disturbance (Mack, East)
- 3. Vegetation dynamics (Goulden, Municipal / Superior)
- 4. Carbon dynamics (Natali or Commane, Federal)
- 5. Hydrology & Permafrost (Watts, South)

Self-select to breakouts (diversify if possible)

If you have multiple project participants, go to different WGs

Assign / volunteer a rapporteur