Charge to Thematic Breakout groups

Consider synergies & ways to inform & leverage individual project efforts.

Discuss research synthesis ideas & activities.

Incorporate Phase2 projects in Phase1 activities

If possible, outline contents of publications as a working framework.

Field & Remote Sensing measurements

- What are the (remaining) key knowledge gaps & needs?
- Ways to fill primary data gaps & needs?
- What complementarity in mapping & scaling efforts?
- How might data / observations inform management needs?

Informing 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?
- Utilize model-data framework, comparisons, benchmarking?

Charge to Thematic Breakout groups

- What Phase 1 activities will continue & which if any will expire?
 - For those continuing, how will they change with phase 2?
 - For those expiring, what is the history?
 - Completed, publication(s) expected
 - Abandoned due to.... (no lead, no longer relevant, no support)
- > Specifically revisit synthesis activities & update those
 - What are the ongoing synthesis efforts?
 - Who specifically is leading / will lead them?
 - What publications are expected

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



Thematic Breakouts

- > 5 breakout groups (chair): rooms
- 1. Fire Disturbance (Laura B-C): Room 150
- 2. Ecosystem Services / Knowledge co-production (Natalie Boelman): Room 155
- 3. Carbon Dynamics (Colm Sweeney): Plenary Room
- 4. Vegetation Dynamics (Howie Epstein): Room 165
- 5. Hydrology and Permafrost (Mahta M): Room 160

Self-select to breakouts

If you have multiple project participants, go to different WGs

Assign / volunteer a rapporteur