HAZARDS MAPPING AND TRADITIONAL KNOWLEDGE



Cyrielle Laurent









- Permafrost mapping requested by the community
- Long terms observations of changes
 - Elders stories
 - Land users observations

Recommendations

- Build the project with communities
- Include trainings and workshops
- Build awareness

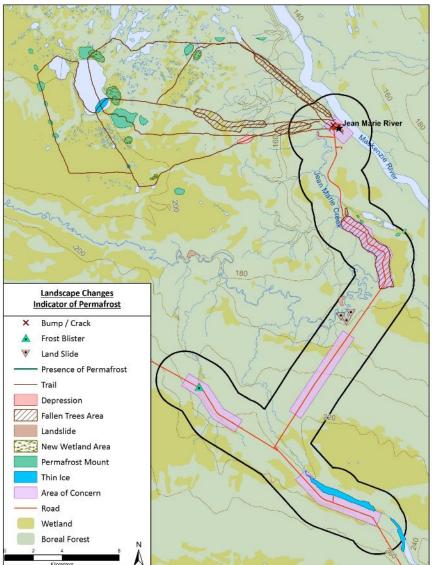








- Formal conversations (meetings and workshops)
- Informal conversations
- Hire field assistant(s) from the community
- Participatory mapping
 - Combines the tools of modern cartography with interviews or focus groups





HOW TO INCLUDE TK IN MAPPING PROCESS?



- Participatory mapping will guide the field work
- Integrate TK in spatial database
- Use TK as a component of mapping model
- Keep the community involved
 - Data validation meeting





₽infra	File Geodatabase Feature
₽land	File Geodatabase Feature
₽political_bnd	File Geodatabase Feature
⊕ tech	File Geodatabase Feature
₽TK	File Geodatabase Feature
₽veg	File Geodatabase Feature
चwater	File Geodatabase Feature
₩ildlife	File Geodatabase Feature





PERMAFROST BRINGS CHALLENGES

- Reduced access and travel safety on the land
- Difficulties to practice traditional activities
- Reduced country food



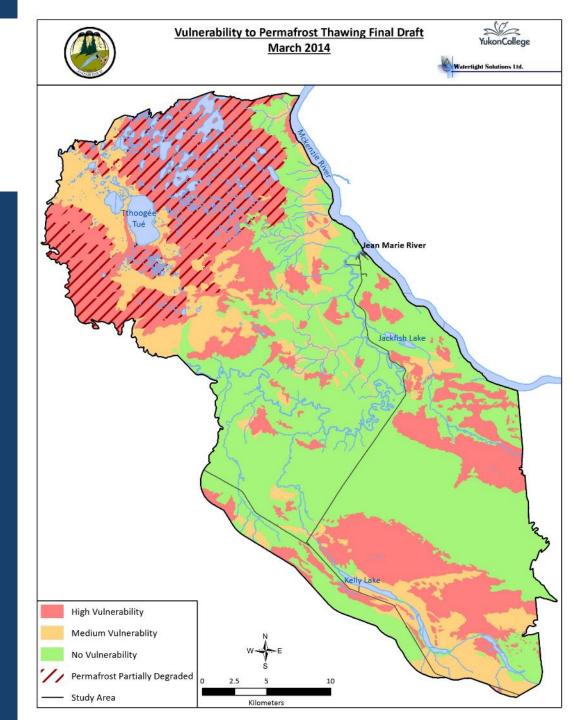






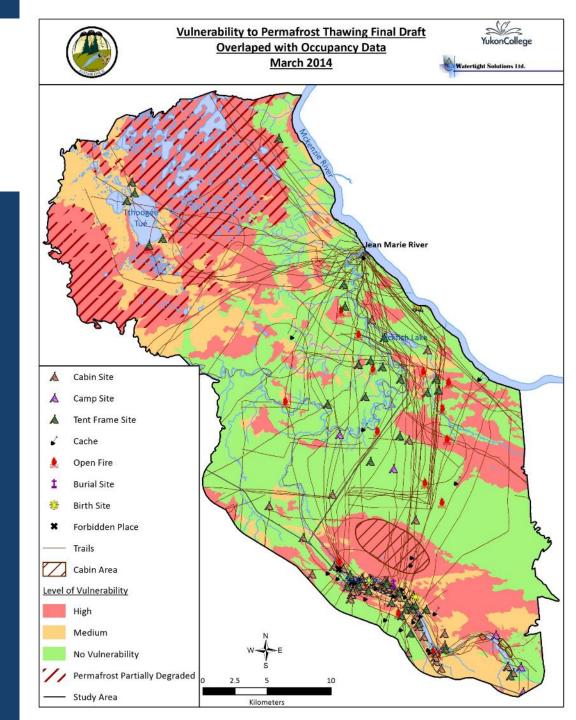


PERMAFROST MAP



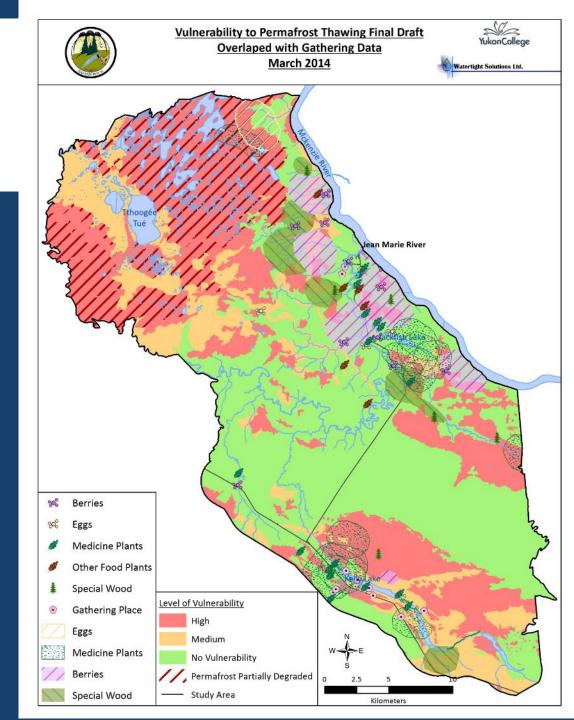


 57% of occupancy sites overlap with permafrost



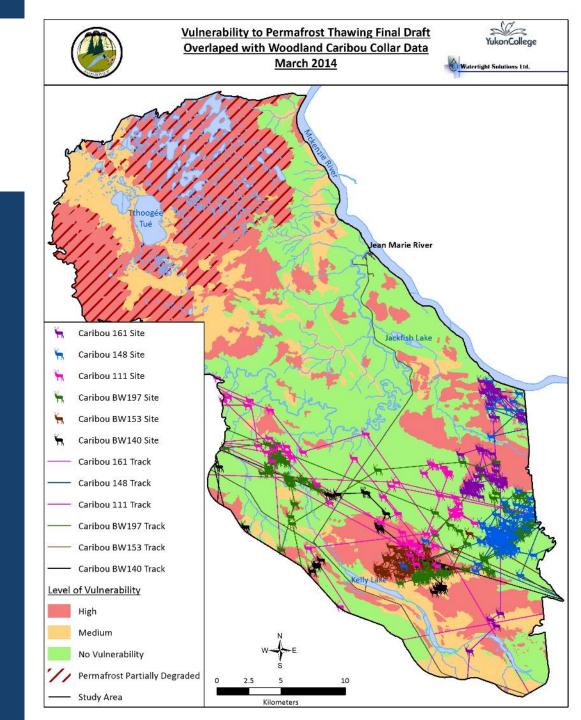


 33% of gathering sites overlap with permafrost



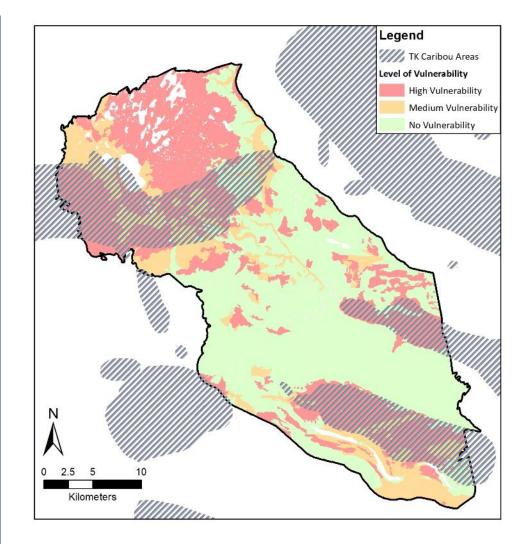


- 37% big game sites overlap with permafrost
- 38% caribou GPS points overlap with permafrost





- Impact of permafrost and forest fire on caribou habitat
- 88% overlap between caribou areas and permafrost



THANKYOU



Partners and funders







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