

## THE TYEE

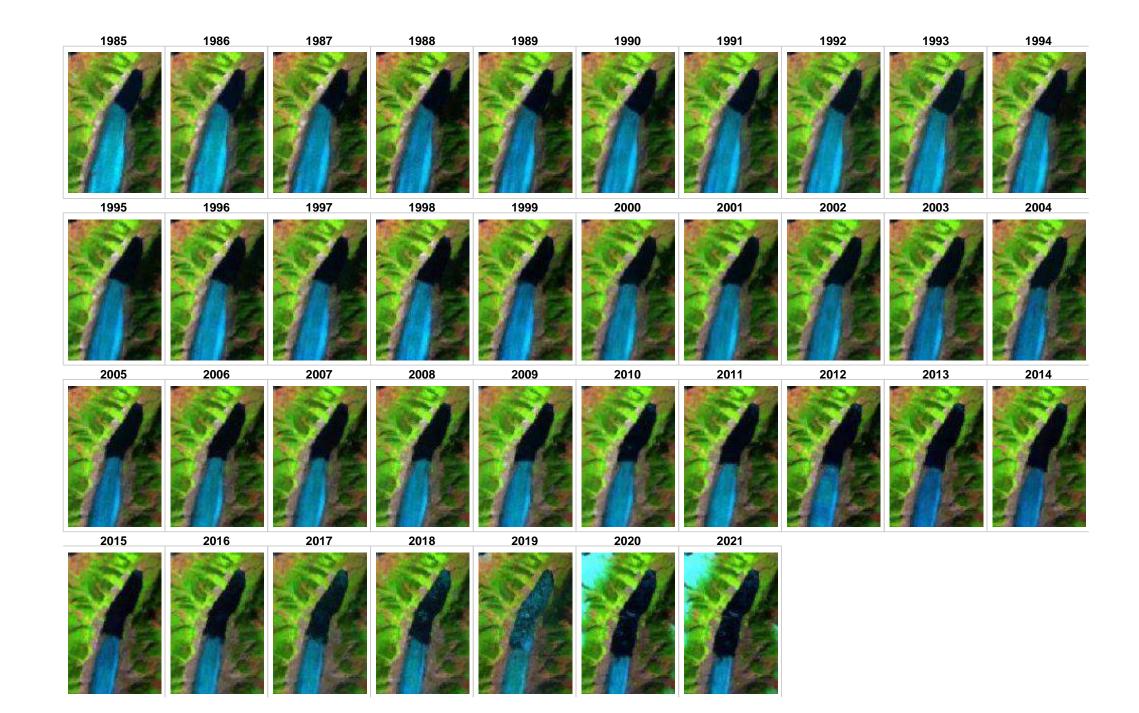
NEWS ANALYSIS CULTURE SOLUTIONS MORE - SUPPORT US SEARCH Q.

NEWS Energy Local Economy BC Politica Environment

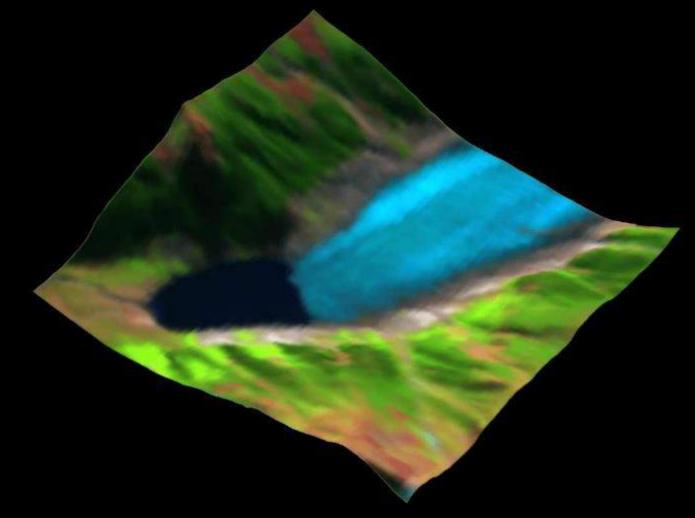
## A Massive Landslide Sends a Wake-Up to BC's Mining Sector

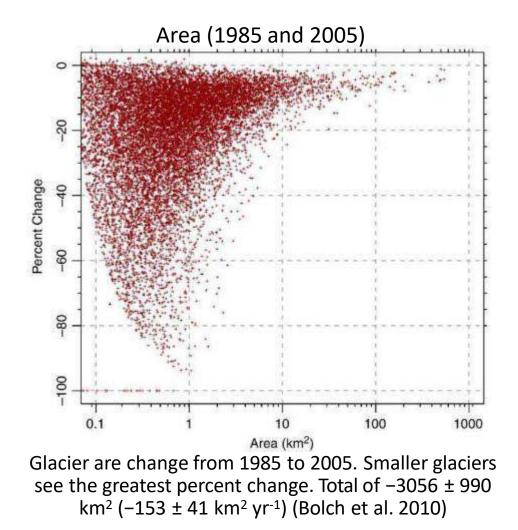
Meiting glaciers in the 'Golden Triangle' expose new deposits. And pose huge risks.



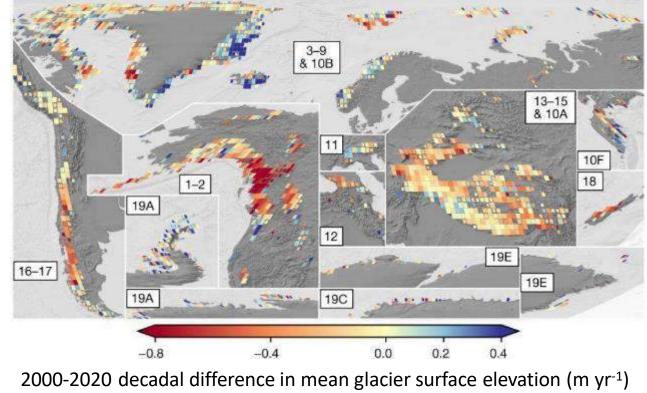








Surface elevation (2000-2020)



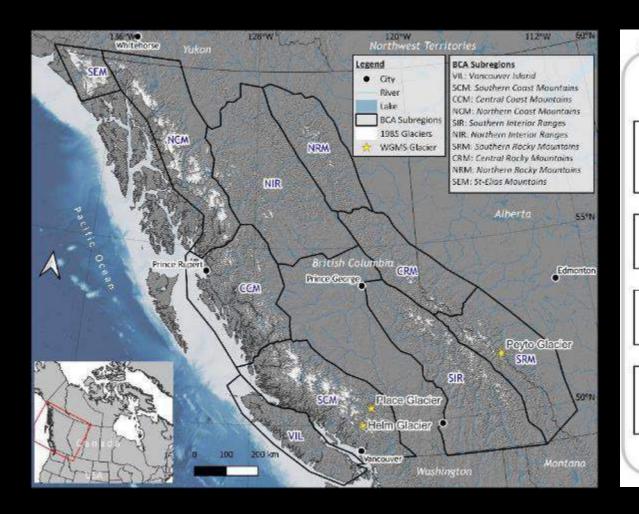
(Hugonnet et al. 2021)

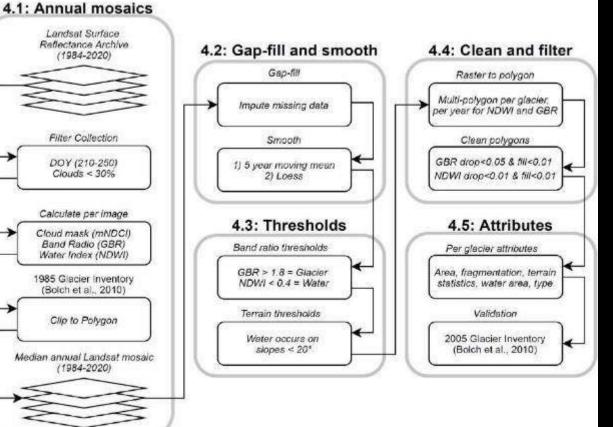


## The motivation of our study is to:

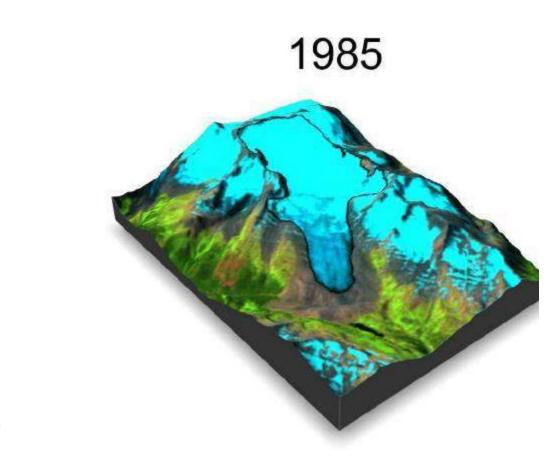
- a) map glaciers automatically;
- b) update Bolch et al. (2010)
- c) assess drivers of glacier shrinkage

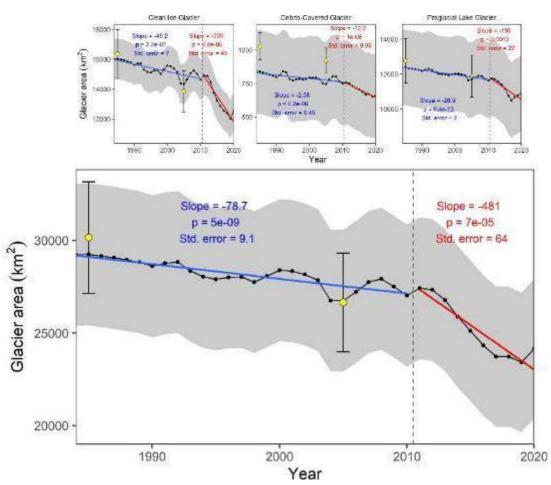
Brucejack





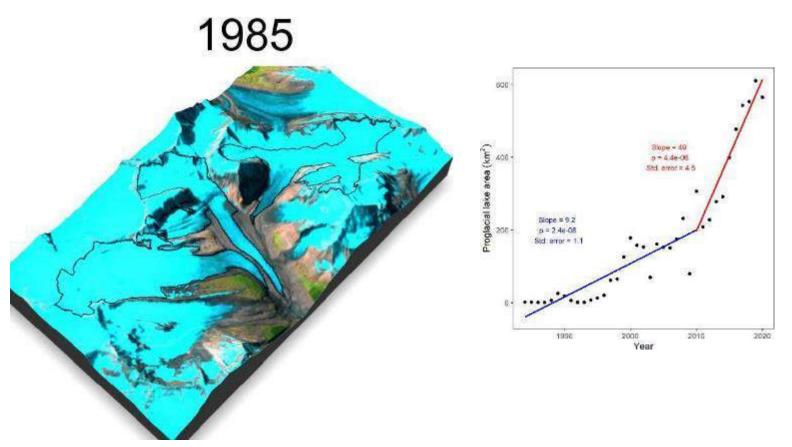
Every glaciers in BC and Alberta is retreating That retreat is accelerating (~7x)



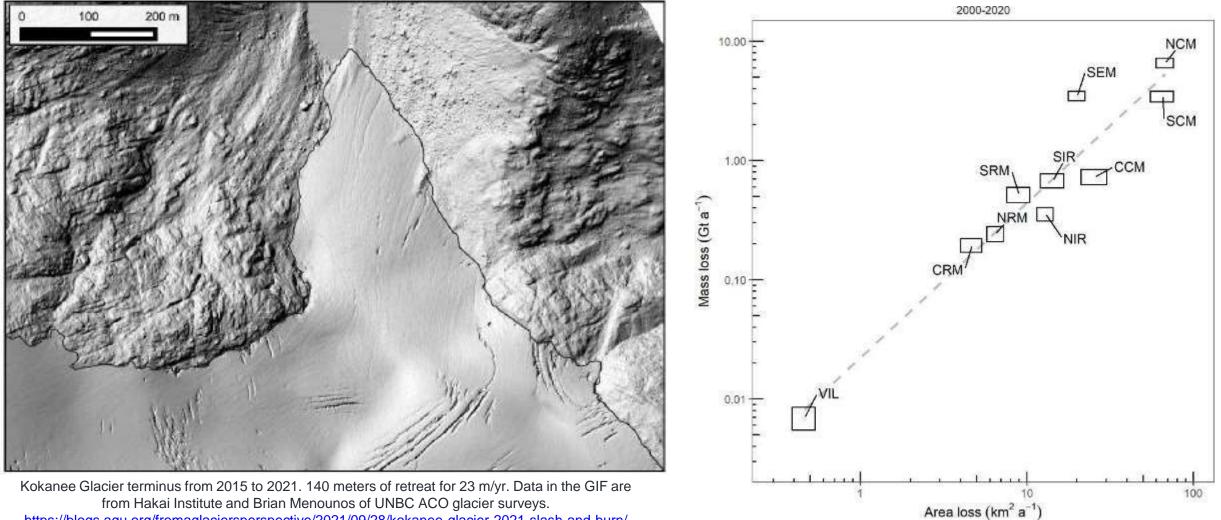


Proglacial lakes are growing 49 km<sup>2</sup> per year

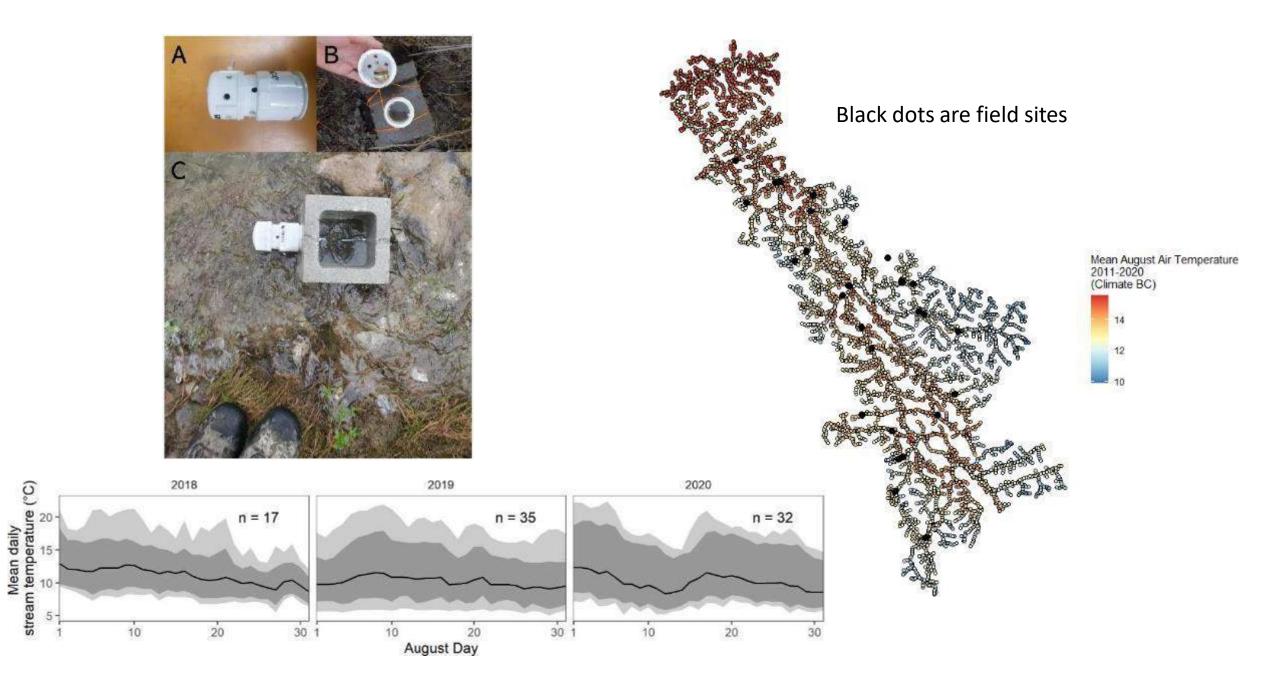


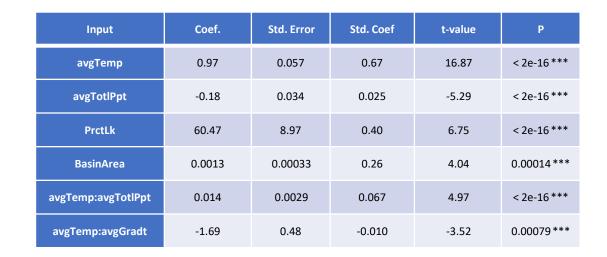


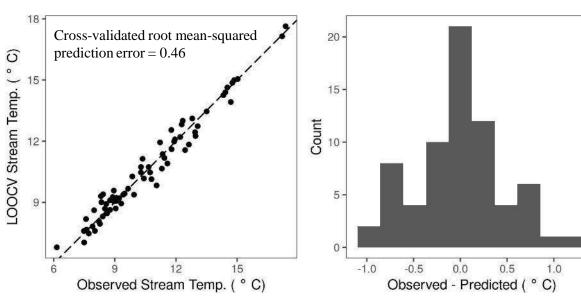
Glacier area can be measured every year, Agrees well with mass change which cannot be measured every year

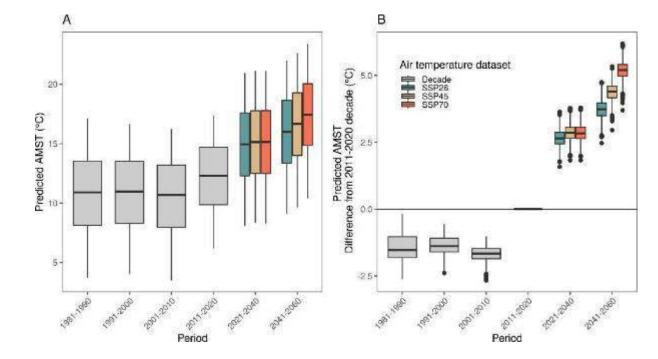


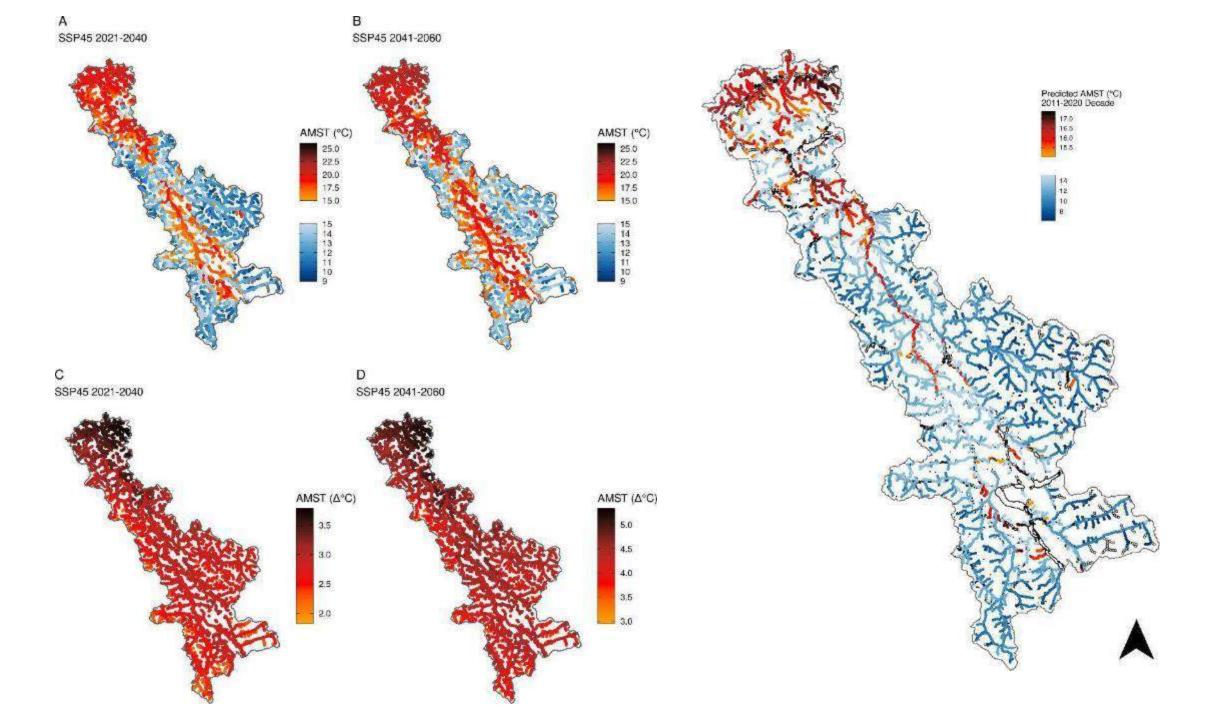
https://blogs.agu.org/fromaglaciersperspective/2021/09/28/kokanee-glacier-2021-slash-and-burn/

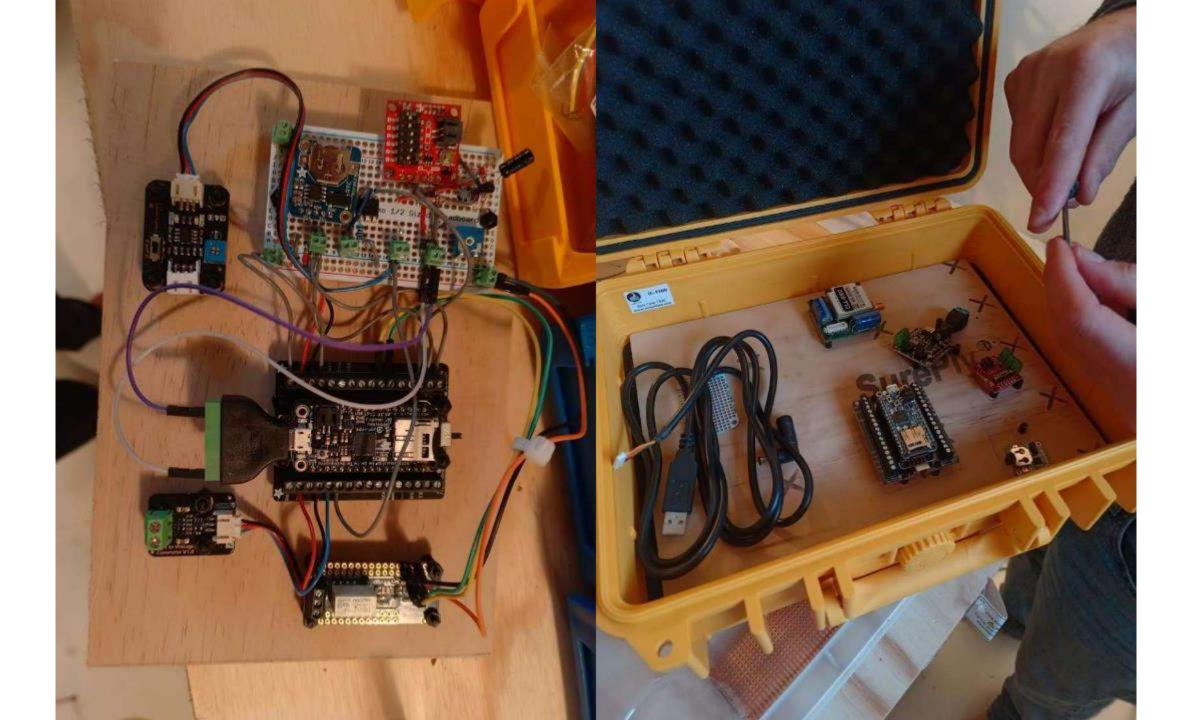














### BRITISH Long term Records Statistics Real-time Data About





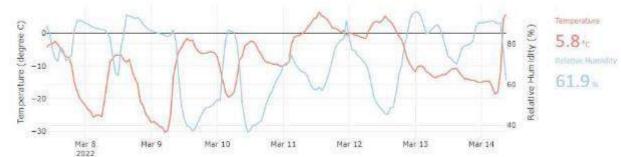
#### Blackhawk.

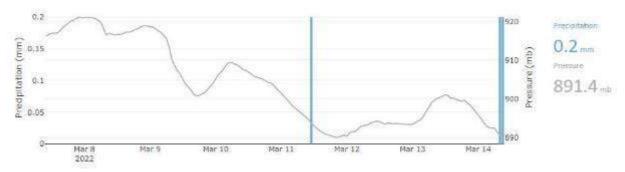
Flots display the last available 7 days of records. For complete records, please see About page.

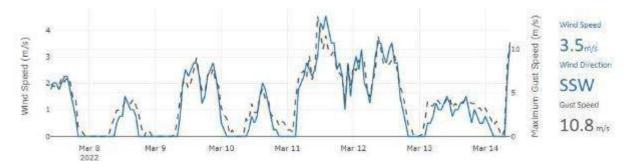
Refresh plots by opening DTF.

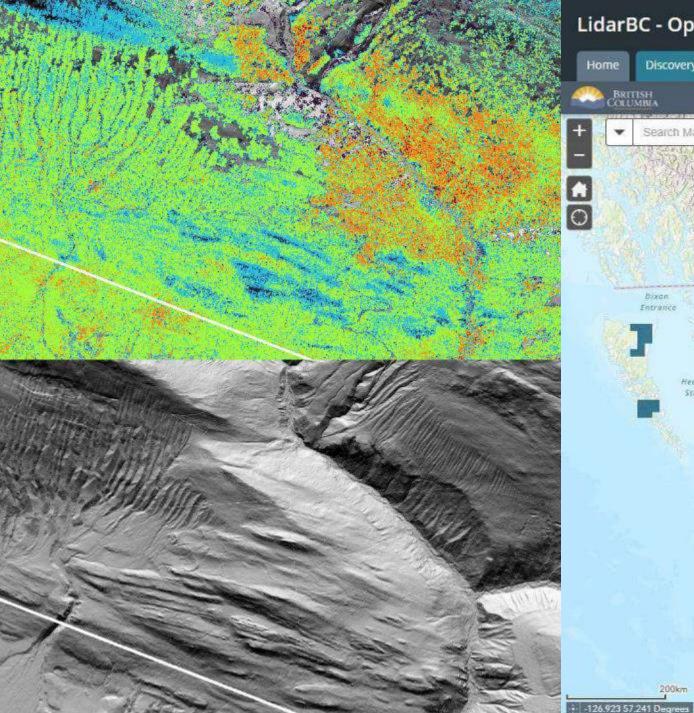
Refresh plots by opening TXT.

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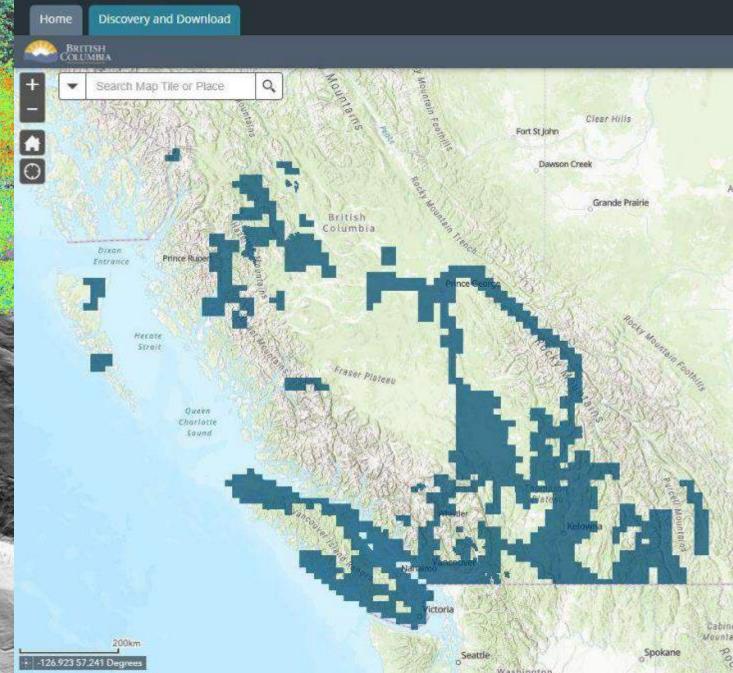








## LidarBC - Open LiDAR Data Portal



# Conclusion

- 1. Remote sensing is increasingly used in provincial operations
- 2. There is a lag in our geospatial services
- 3. Still a need for custom-per-project analysis
- Research and development continues to be needed for: Climate change, drought, floods, wildfire, landslides, watershed science ...

