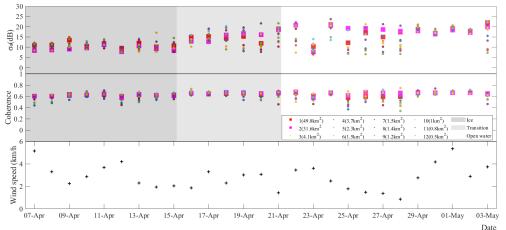
## Lake Ice and SWOT: a challenge and an opportunity

Melanie Trudel

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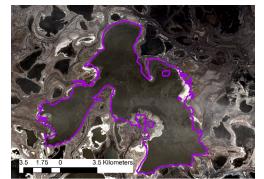


Lake ice varies in time and space, which must be taken into account in the dynamic ice flag.



There is a decrease in sig0, but not in coherence with the presence of lake ice.

Sig0 is also affected by the angle of incidence, making lake ice discrimination based on sig0 more complex.





Lake ice if often flagged as darkwater. The edge of lakes can be affected by darkwater (and then the water extent), especially for lakes partially covered by ice during the ice cover formation period.

## Lake Ice and SWOT: a challenge and an opportunity

We can investigate lake ice dynamic with SWOT



