

MAPPING PETROGLYPHS

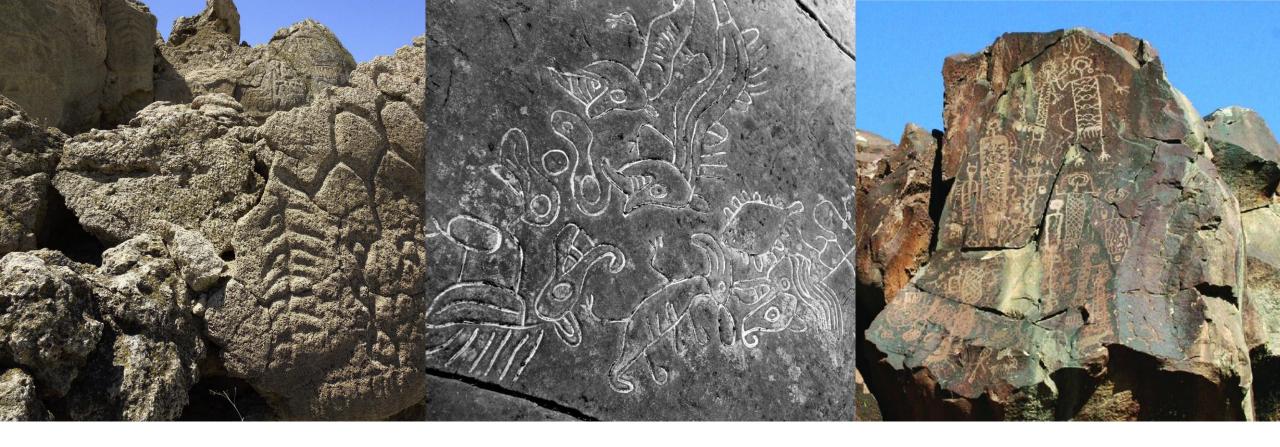
An example of GIS application in Archaeology

By Kira Sokolovskaia, SFU Archaeology

https://www.megalithic.co.uk/article.php?sid=37837

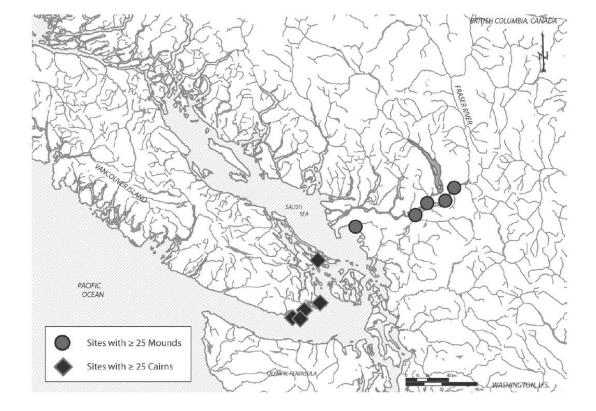
What Are Petroglyphs?

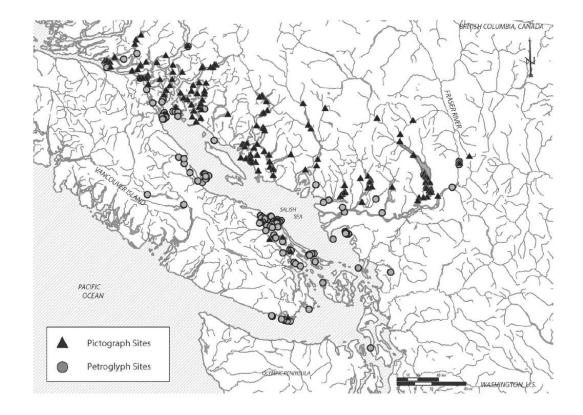
Petroglyphs
are images on a
rock surface created by
removing some of
the rock by pecking,
incising, or abrading it.



PETROGLYPHS CAN BE DIFFERENT

EXAMPLE OF A SIMPLE COMPARISON BETWEEN ROCK ART AND ASSOCIATED BURIALS (AFTER BILL ANGELBECK, 2016)





WHAT IS COMMON BETWEEN THESE SITES?

- 1. Proximity to Sea?
- 2. Close to a fresh water source?
- 3. Close to burials?
- 4. Territory markers?
- 5. Good hunting places?
- 6. Good fishing places?
- 7. Close to villages?
- 8. Source of raw materials for stone tools?

What if I check all these possibilities?







France Islet

PROBLEMS!

Smuggler Cove Marine Provincial Park

Some available data is not full

Welcome Passage 10 2024 Google

Square Bay Little Free Library

PROBLEMS!

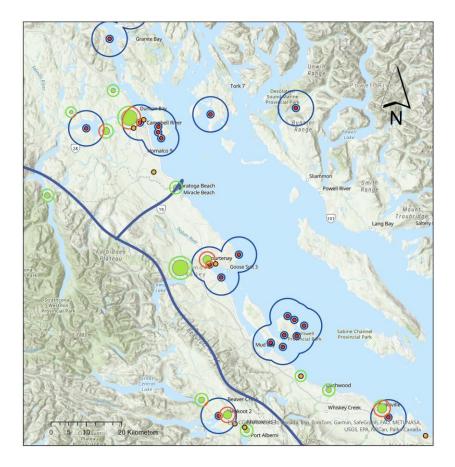
Rainbow Canoe Club

Arrow Canoe Club

Some data is not available at all (the petroglyph is somewhere here)

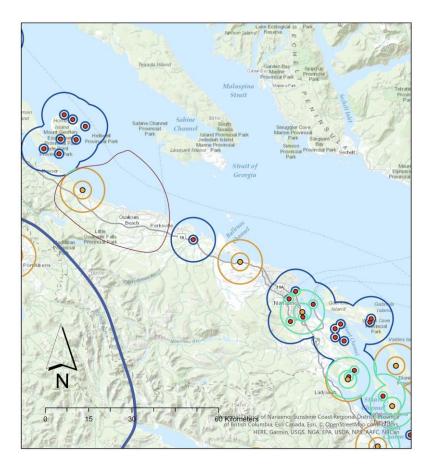
Kulleet Bay

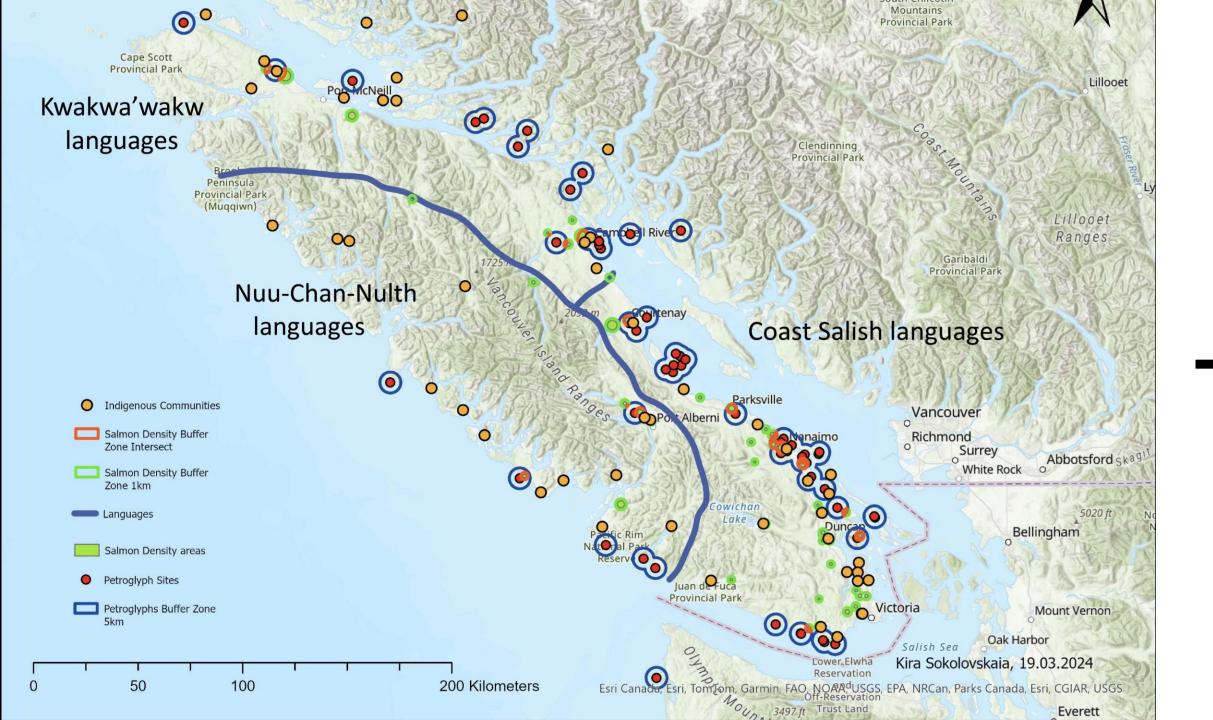
Fresh water, Salmon, Territory were important factors.



I compared location of petroglyphs with:

- local geology
- streams and lakes
- Indigenous communities
- Languages
- Salmon density data





slyph sites at eleven locations on Quadra Island, B.C.

QUADRA ISLAND

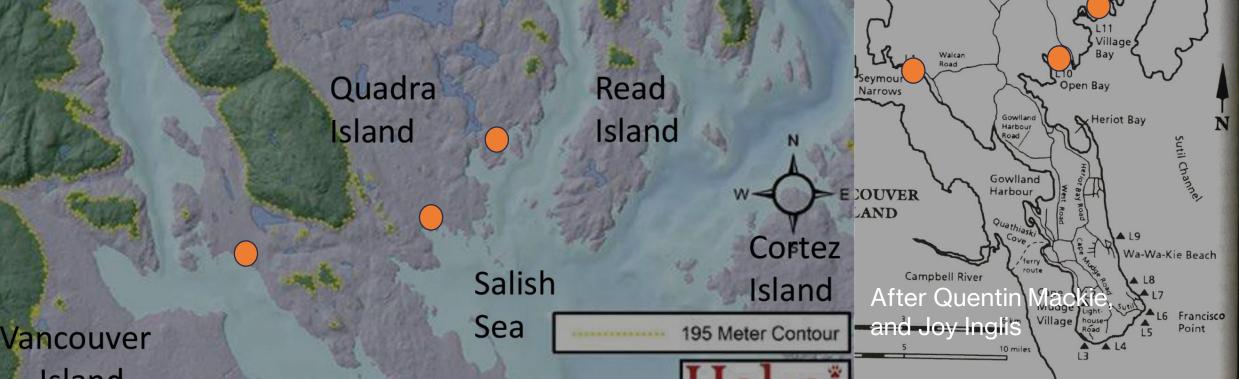
> Village Bay Road

Granite Bay Road

050

Surge Narrows Road

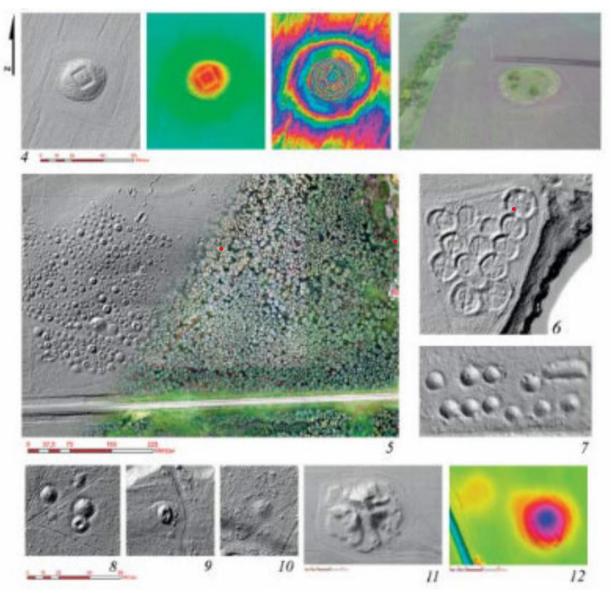
OVER PERSPECTAVES?



Lidar

LiDar imagery bears, perhaps the greatest potential for archaeology. By analyzing the images, we can find new

sites, structures, important features.



(After Vasiliy Novikov, 2022)