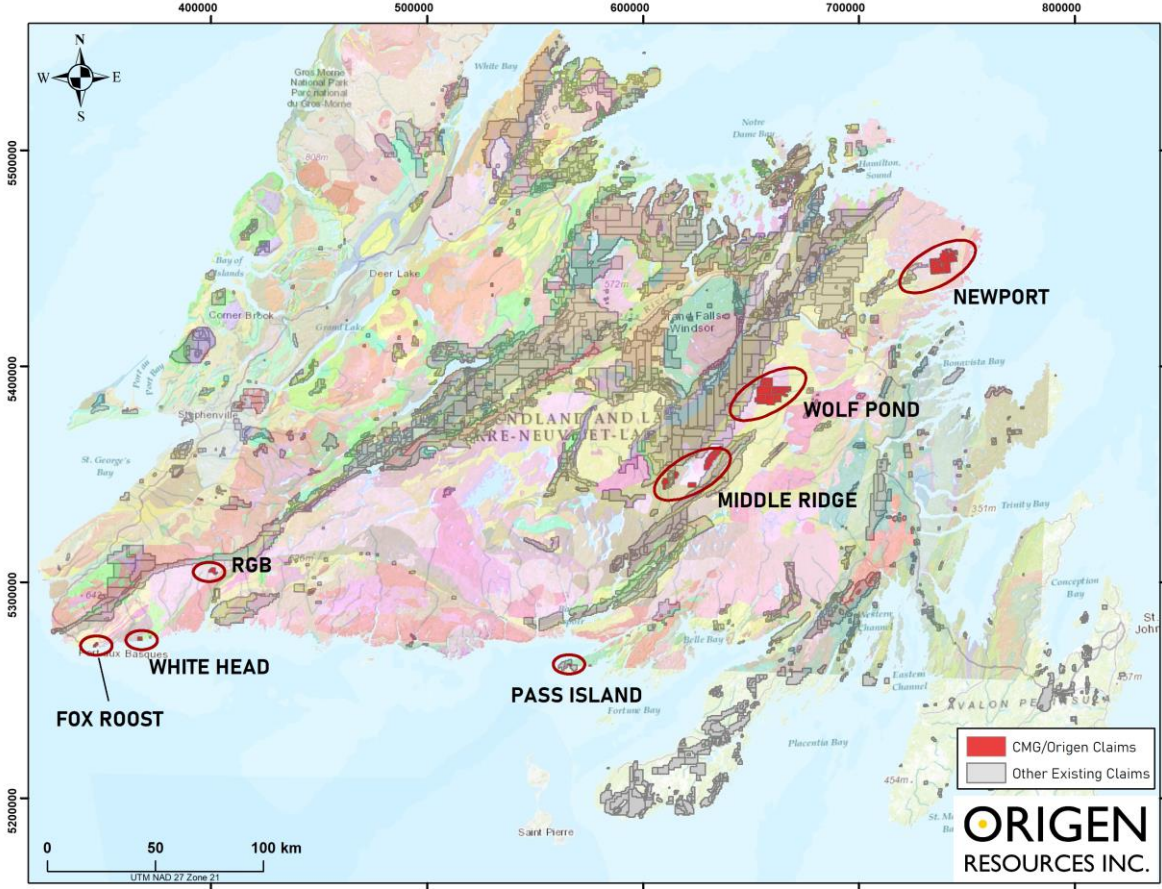


# **NEWFOUNDLAND: A NEW LITHIUM FRONTIER**

- Origen holds claims that cover over 33,000 hectares of a prospective lithium bearing pegmatite belt in Newfoundland.
- Newfoundland's pegmatite belt is over 450 kilometers in length and is analogous to the Avalonia belt in Ireland and Kings Mountain in the Carolinas.
- No modern day exploration has been conducted for lithium within this belt since its discovery in the 1960's.
- Lithium pegmatites found at Avalonia and Kings Mountain tend to be relatively large and high grade.
- Through our research we have identified numerous lithium-caesium-tantalum pegmatite targets within belt.

# LOCATION MAP: 33,000 HECTARES STAKED



## WHY NEWFOUNDLAND?

- Same tectonic position as the Avalonia Project being explored by Ganfeng Lithium Corp.
- Large silt and till database which includes Lithium path finder elements such as Cs, Tantalum, and Lithium.
- Numerous pegmatites discovered in the early 1960's containing Beryl with no modern day follow up to look for Lithium.
- Same age of Granite as Avalonia and Kings Mountain projects
- Good infrastructure with the benefit of few inhabitants unlike Ireland or the Carolinas
- Streamlined mineral tenure acquisition framework.
- Mining friendly jurisdiction close to tide water.

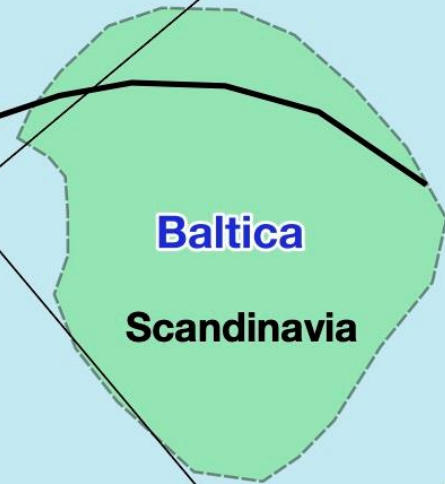
# HOW LITHIUM PEGMATITES WERE FORMED

- We know that the earth is made up of large continental plates which are either spreading apart from each other or colliding.
- The pegmatites we see in Ireland, Nova Scotia, North Carolina and Newfoundland were formed by the collision of three plates that created a collision zone where granites were formed.
- These collision zones contain lithium rich pegmatites.
- This occurred between 410 MA and 380 MA.
- The large continent began to split up approximately 175 Ma to the geography we see today.

## WHAT WE SEE TODAY?

- The collision zone today is spread from Northern Scotland through the Carolinas in the USA.
- Notable Lithium pegmatites occurrences within this collision zone are Kings Mountain, Piedmont Lithium, Brazil Lake, and Avalonia.
- The following slides shows key geological features that act as a plumbing system that allowed the pegmatites to form and how they are found in Newfoundland.

***Iapetus Closing to form Laurussia (>420 Ma)***



**Iapetus  
Ocean**

**Gondwana**



**Laurussia (395 Ma check)**



**Laurussia forms (410 to 380 Ma)**



Laurentia

Baltica

Carolina

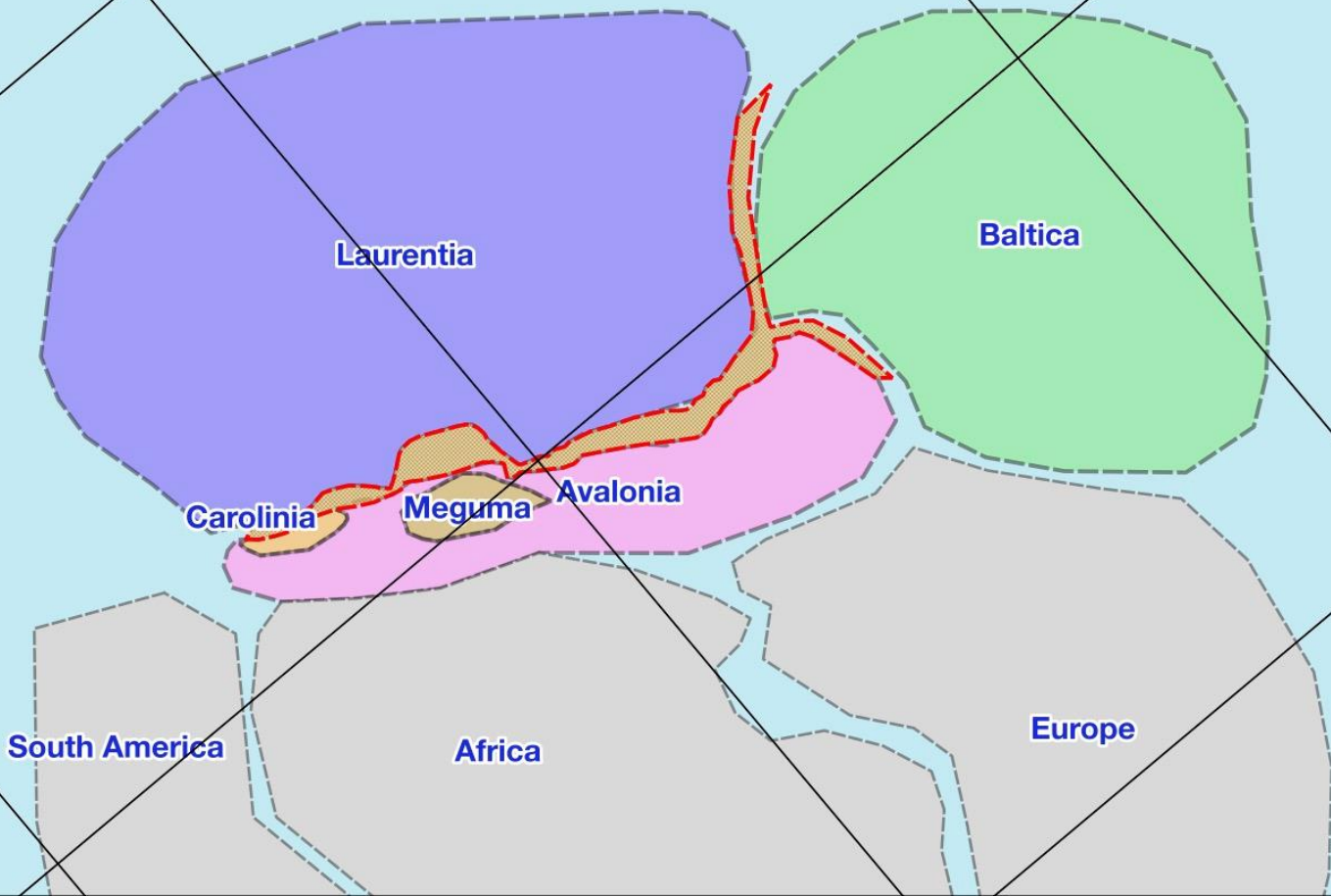
Meguma

Avalonia

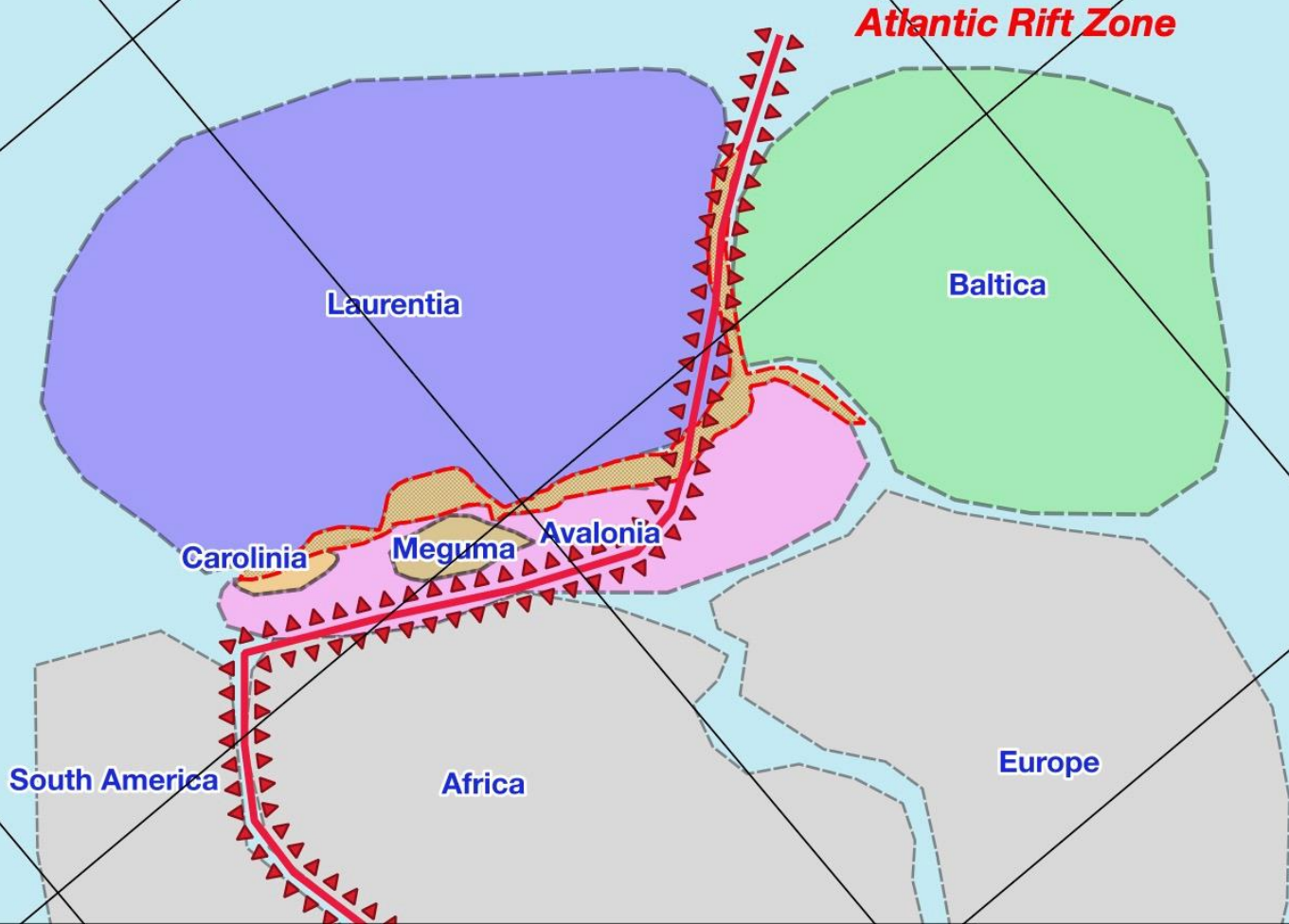
**Collision Zone**



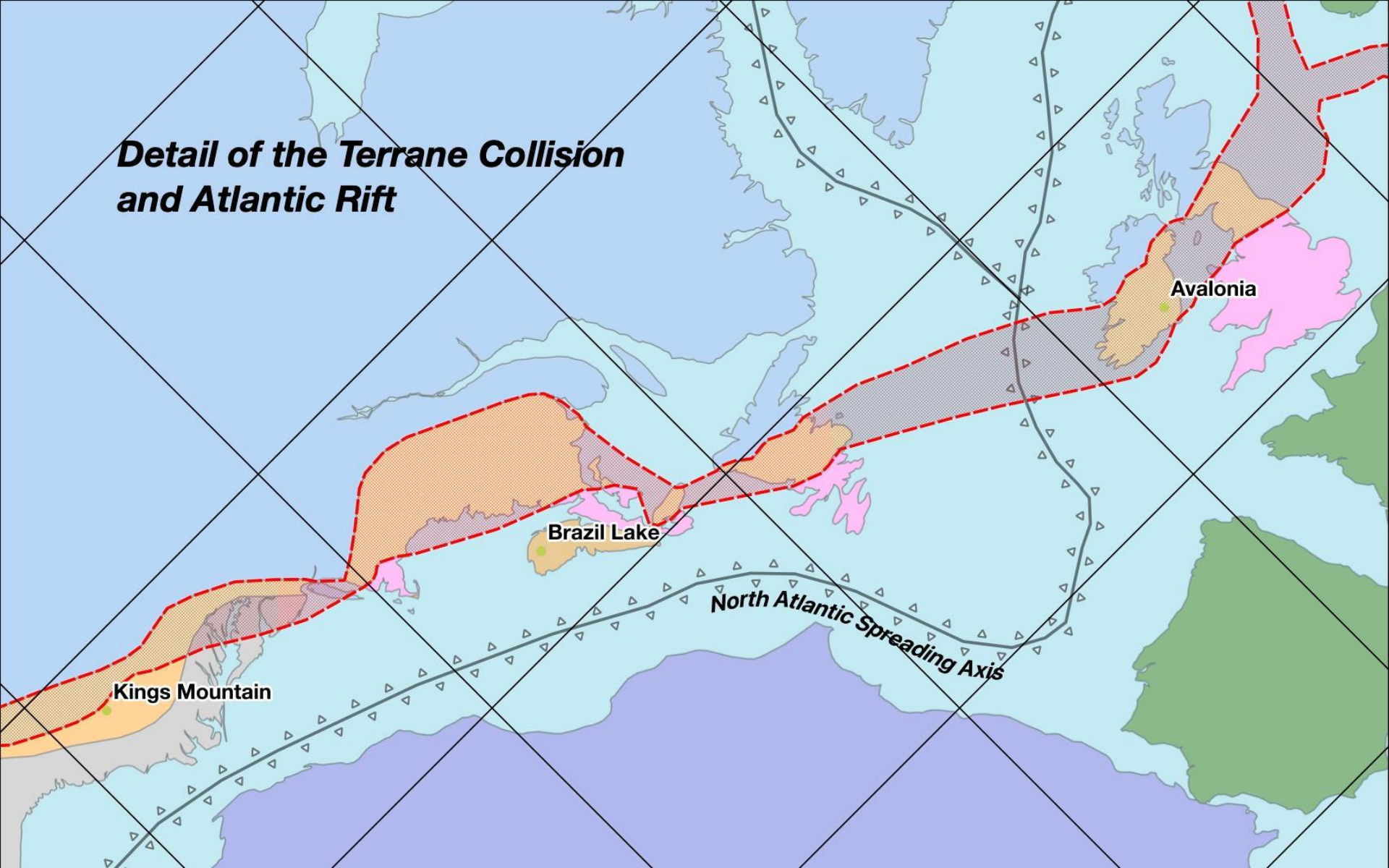
# *Laurussia joins Pangea (335 to 175 Ma)*



# *Pangea breaks up, Atlantic opens (175 Ma)*



# ***Detail of the Terrane Collision and Atlantic Rift***

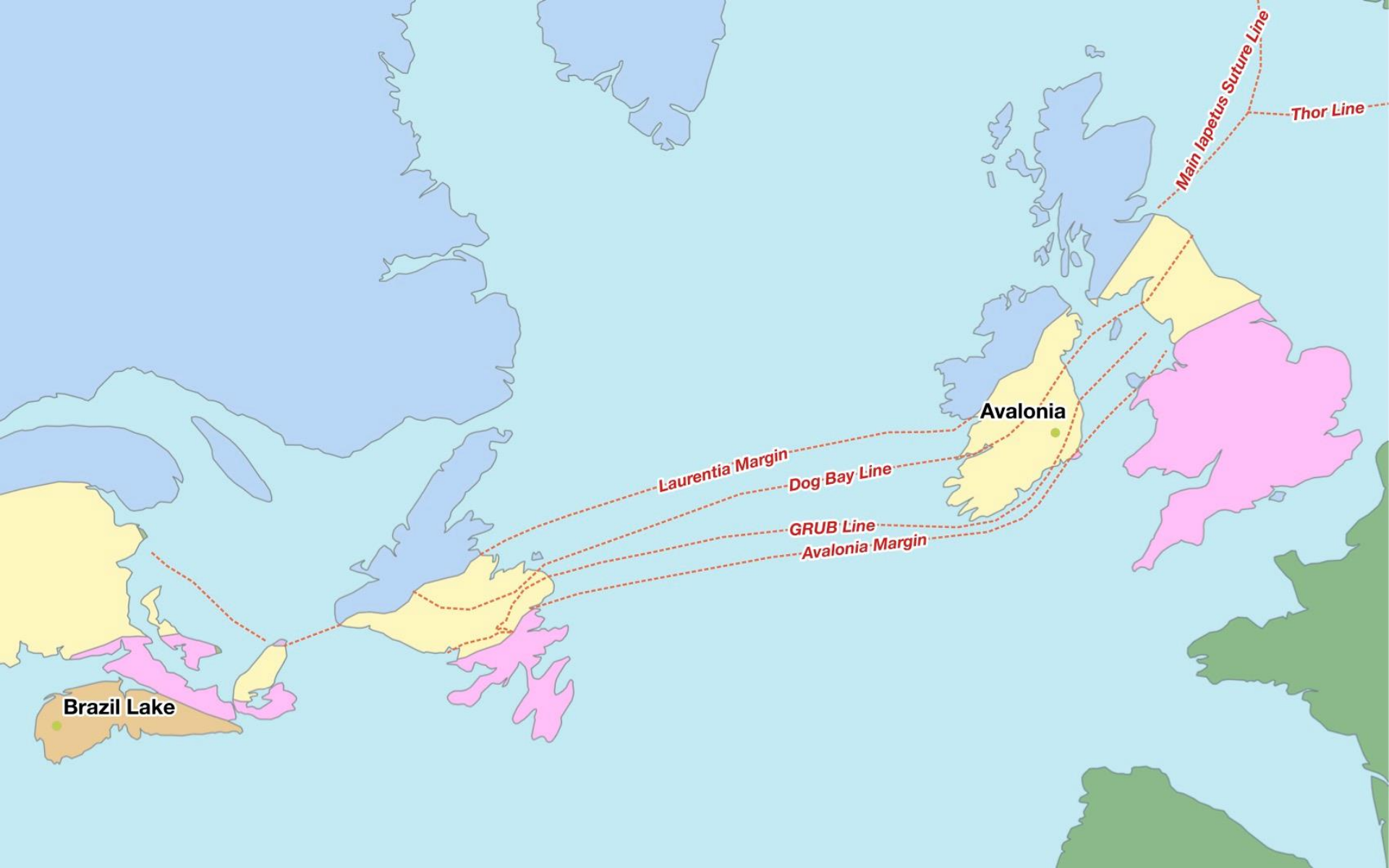


**Avalonia**

**Brazil Lake**

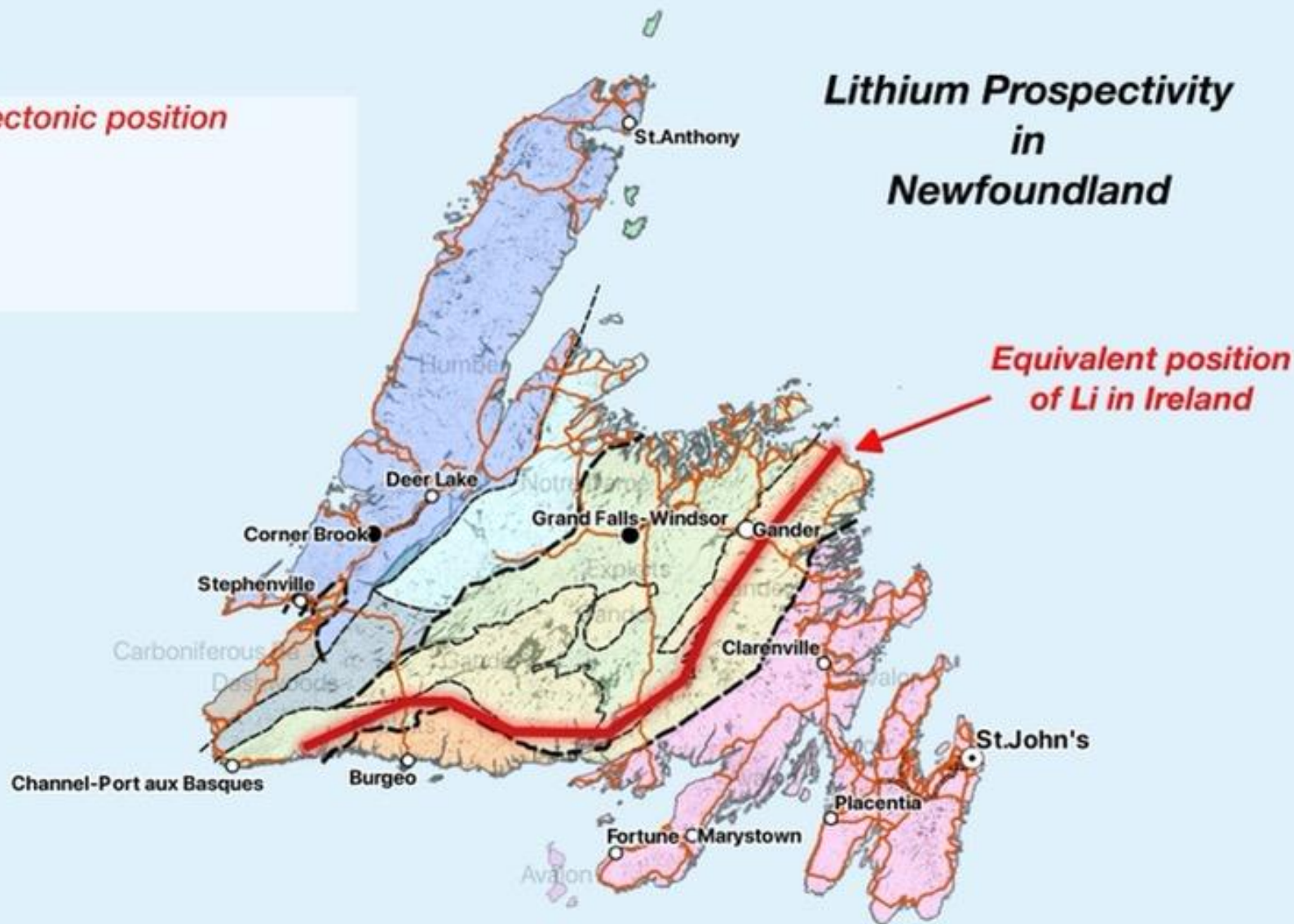
**Kings Mountain**

**North Atlantic Spreading Axis**



1. Tectonic position

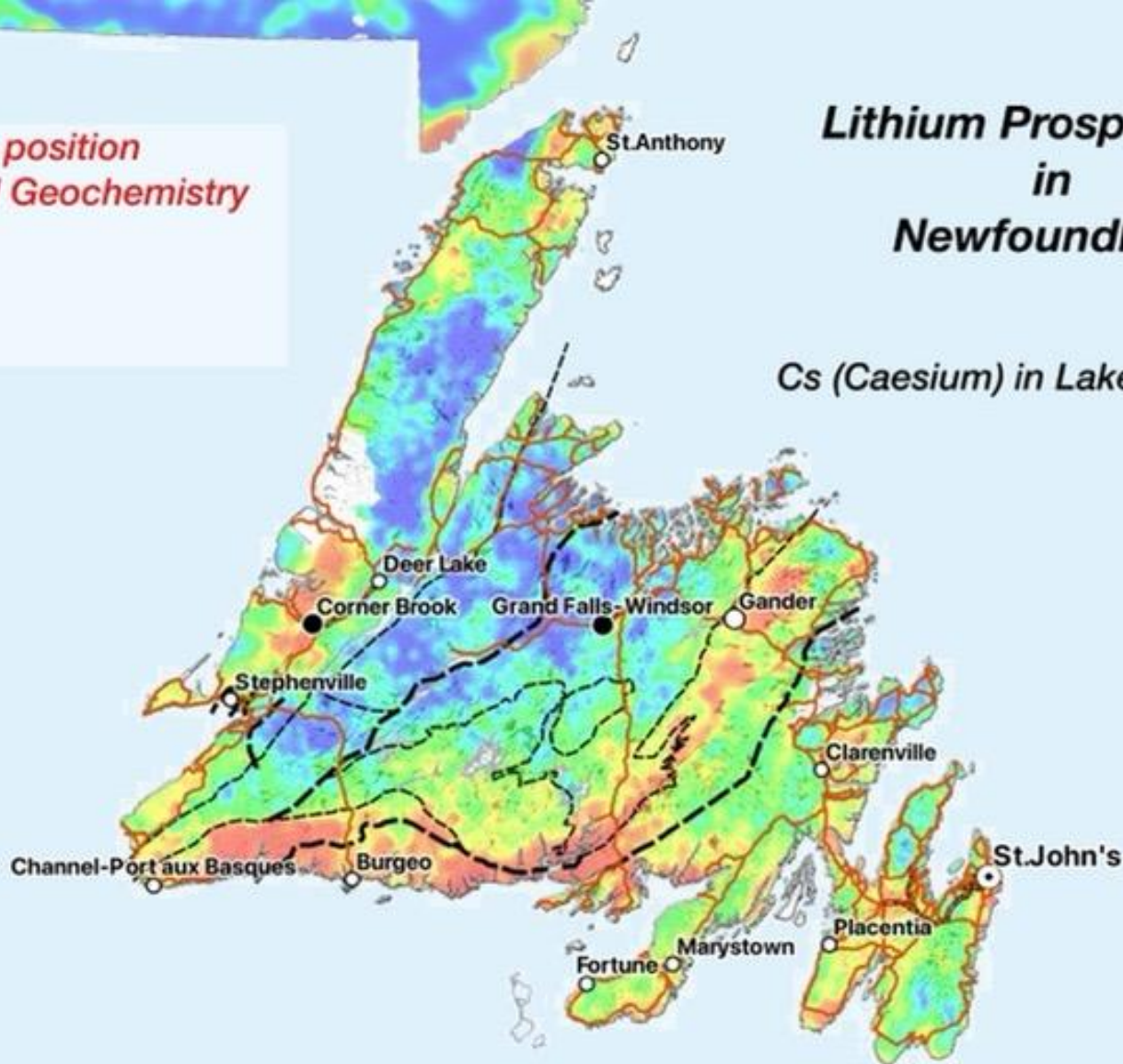
# Lithium Prospectivity in Newfoundland



1. Tectonic position
2. Regional Geochemistry

## ***Lithium Prospectivity in Newfoundland***

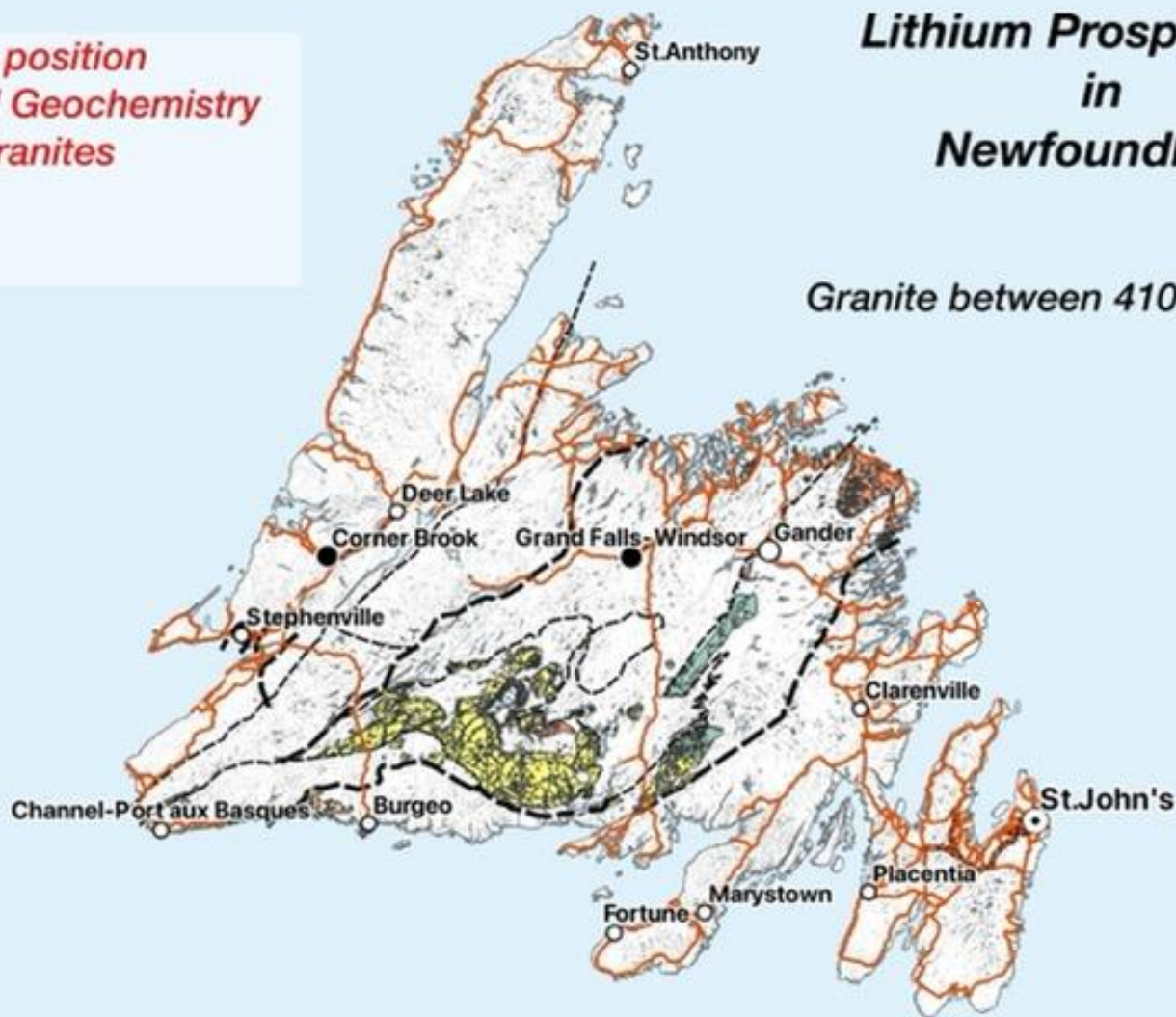
*Cs (Caesium) in Lake Sediments*



1. Tectonic position
2. Regional Geochemistry
3. Age of granites

## Lithium Prospectivity in Newfoundland

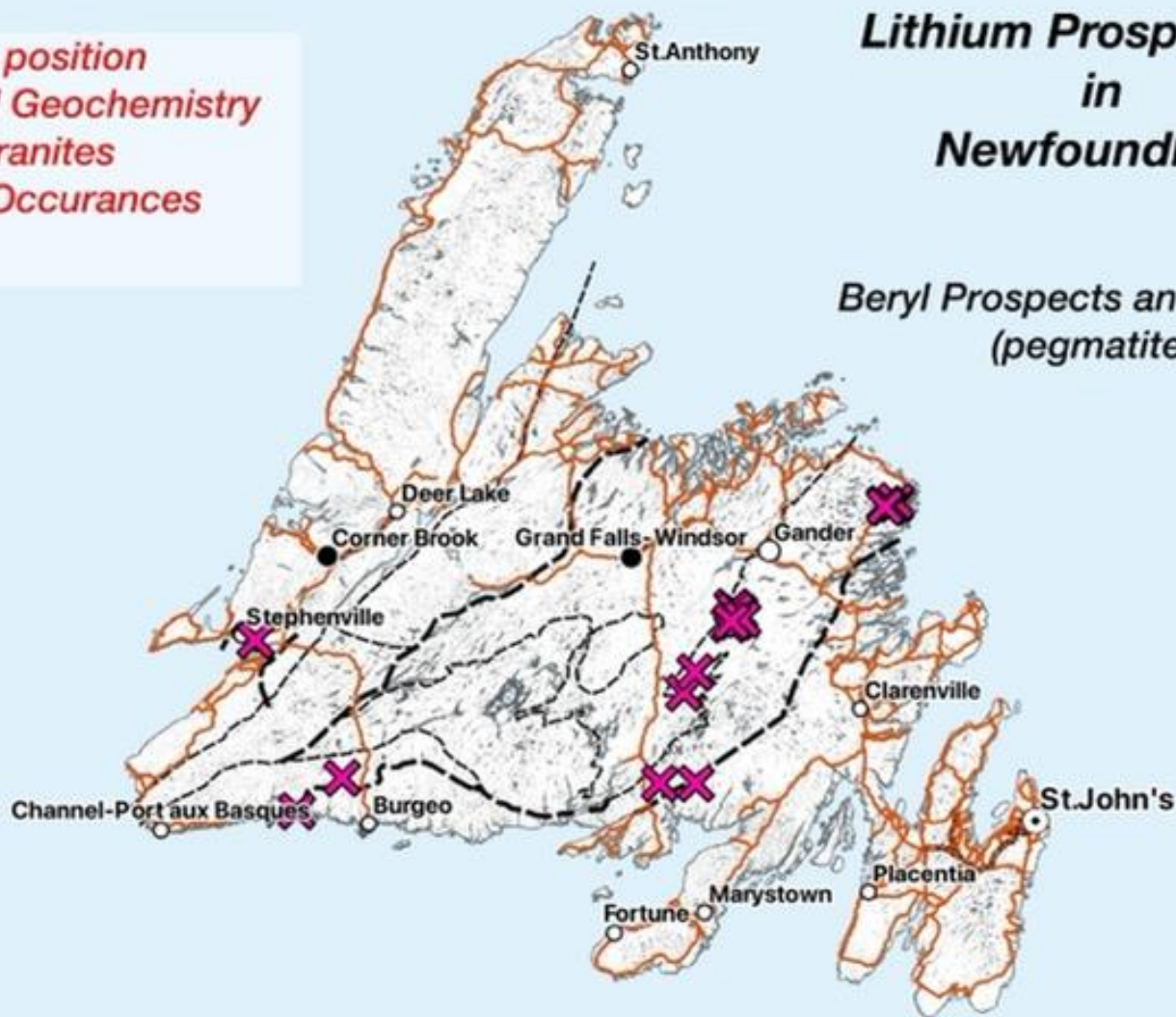
Granite between 410 and 385 Ma



1. Tectonic position
2. Regional Geochemistry
3. Age of granites
4. Mineral Occurances

## Lithium Prospectivity in Newfoundland

Beryl Prospects and Showing  
(pegmatites)

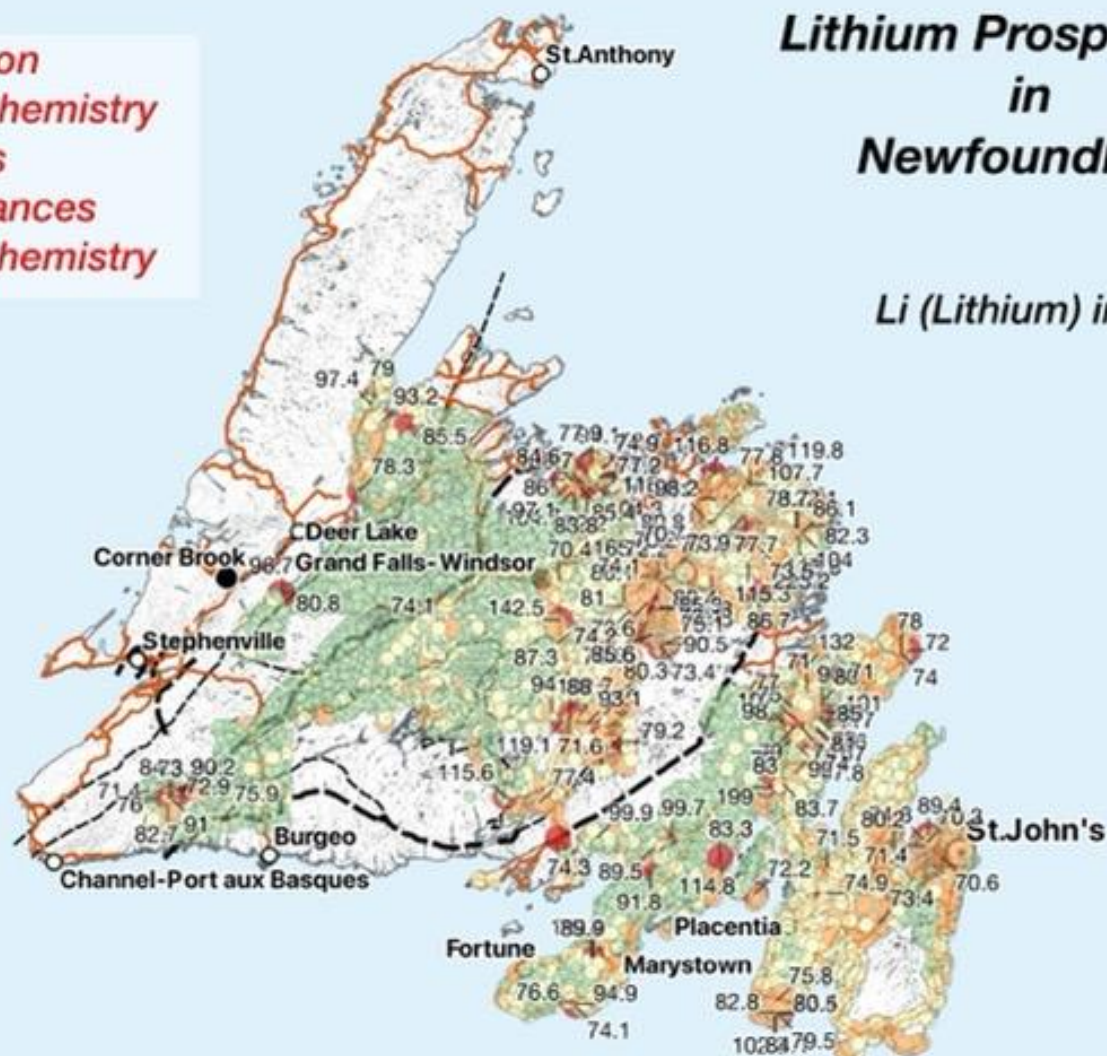




1. Tectonic position
2. Regional Geochemistry
3. Age of granites
4. Mineral Occurances
5. Local Till Geochemistry

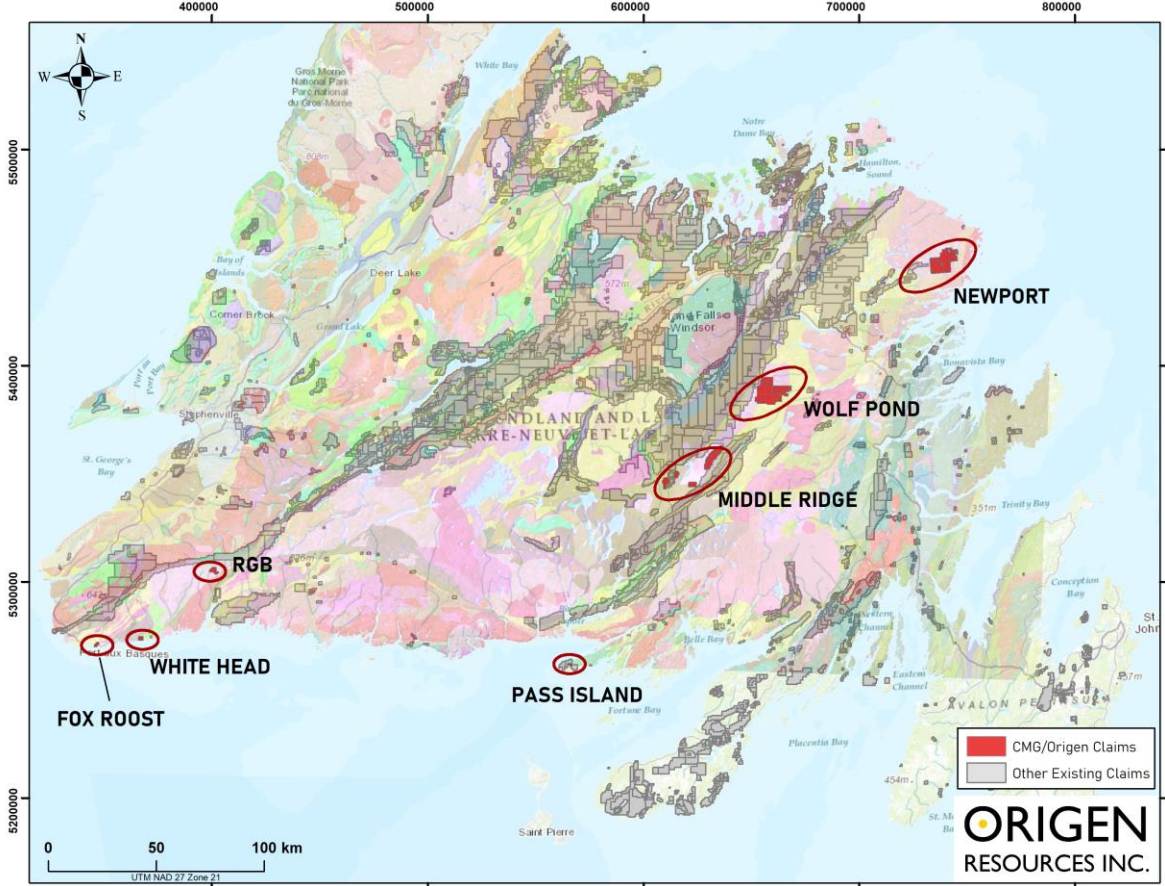
## Lithium Prospectivity in Newfoundland

Li (Lithium) in Till





# PROPERTIES ACQUIRED TO DATE



# EXPLORATION PLAN

- We have acquired seven priority target areas to date consisting of 12 claim blocks.
- An initial budget of \$1,000,000 for 2021 is proposed which will allow us to stake or purchase additional targeted land and complete our first pass field assessment of each target.
- Field work will consist of sampling, mapping and prospecting to prove our exploration and acquisition concept.
- Subsequent work will involve target definition and drill testing of the highest priority targets.